



Default Power for WWAN Main PA

GSM850 Ant0 Default									
GSM850	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)	
	128	189	251		128	189	251		
TX Channel	824.2	836.4	848.8		824.2	836.4	848.8		
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8		
GSM 1 Tx slot	32.20	32.18	32.06	33.50	23.20	23.18	23.06	24.50	
GPRS 1 Tx slot	32.15	32.17	32.05	33.50	23.15	23.17	23.05	24.50	
GPRS 2 Tx slots	31.10	31.25	31.07	32.50	25.10	25.25	25.07	26.50	
GPRS 3 Tx slots	29.30	29.46	29.44	30.50	25.04	25.20	25.18	26.24	
GPRS 4 Tx slots	28.23	28.35	28.13	29.50	25.23	25.35	25.13	26.50	
EDGE 1 Tx slot	26.32	26.43	26.41	27.50	17.32	17.43	17.41	18.50	
EDGE 2 Tx slots	25.16	25.10	25.31	26.00	19.16	19.10	19.31	20.00	
EDGE 3 Tx slots	22.88	22.91	22.89	24.00	18.62	18.65	18.63	19.74	
EDGE 4 Tx slots	21.38	21.49	21.52	22.50	18.38	18.49	18.52	19.50	

GSM1900 Ant0 Default									
GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)	
	512	651	810		512	651	810		
TX Channel	1850.2	1880	1909.8		1850.2	1880	1909.8		
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8		
GSM 1 Tx slot	29.55	29.56	29.46	30.50	20.55	20.56	20.46	21.50	
GPRS 1 Tx slot	29.54	29.56	29.46	30.50	20.54	20.56	20.46	21.50	
GPRS 2 Tx slots	28.49	28.58	28.46	29.50	22.49	22.58	22.46	23.50	
GPRS 3 Tx slots	26.41	26.41	26.27	27.50	22.15	22.15	22.01	23.24	
GPRS 4 Tx slots	25.58	25.59	25.51	26.50	22.58	22.59	22.51	23.50	
EDGE 1 Tx slot	25.42	25.31	25.22	26.50	16.42	16.31	16.22	17.50	
EDGE 2 Tx slots	24.27	23.87	23.87	25.00	18.27	17.87	17.87	19.00	
EDGE 3 Tx slots	22.24	21.84	21.81	23.00	17.98	17.58	17.55	18.74	
EDGE 4 Tx slots	20.92	20.79	20.80	22.00	17.92	17.79	17.80	19.00	

Band	WCDMA II Ant0 Default			Tune-up Limit (dBm)	WCDMA IV Ant0 Default			Tune-up Limit (dBm)	WCDMA V Ant0 Default			Tune-up Limit (dBm)	
	9262	9400	9538		1312	1413	1513		4132	4182	4233		
TX Channel	9262	9400	9538		1312	1413	1513		4132	4182	4233		
Rx Channel	9662	9800	9938		1537	1638	1738		4357	4407	4458		
Frequency (MHz)	1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6		
3GPP Rel 99	AMR 12.2Kbps	22.52	22.59	22.51	24.00	22.66	22.74	22.66	24.00	22.77	22.84	22.81	24.00
3GPP Rel 99	RVC 12.2Kbps	22.53	22.61	22.59	24.00	22.69	22.76	22.69	24.00	22.80	22.90	22.83	24.00
3GPP Rel 6	HSDPA Subtest-1	21.53	21.69	21.56	23.00	21.71	21.84	21.67	23.00	21.85	21.91	21.81	23.00
3GPP Rel 6	HSDPA Subtest-2	21.55	21.58	21.54	23.00	21.65	21.73	21.61	23.00	21.75	21.77	21.70	23.00
3GPP Rel 6	HSDPA Subtest-3	21.10	21.16	21.11	22.50	21.17	21.33	21.24	22.50	21.30	21.35	21.33	22.50
3GPP Rel 6	HSDPA Subtest-4	20.97	21.02	21.06	22.50	21.07	21.09	21.16	22.50	21.09	21.26	21.23	22.50
3GPP Rel 8	DC-HSDPA Subtest-1	21.53	21.67	21.56	23.00	21.69	21.71	21.71	23.00	21.79	21.77	21.82	23.00
3GPP Rel 8	DC-HSDPA Subtest-2	21.44	21.63	21.47	23.00	21.58	21.80	21.55	23.00	21.71	21.84	21.73	23.00
3GPP Rel 8	DC-HSDPA Subtest-3	20.96	21.14	21.04	22.50	21.08	21.28	21.21	22.50	21.20	21.35	21.30	22.50
3GPP Rel 8	DC-HSDPA Subtest-4	20.93	21.07	20.94	22.50	21.05	21.11	21.06	22.50	21.15	21.19	21.06	22.50
3GPP Rel 6	HSUPA Subtest-1	21.46	21.56	21.54	23.00	21.55	21.63	21.63	23.00	21.67	21.71	21.69	23.00
3GPP Rel 6	HSUPA Subtest-2	19.58	19.68	19.59	21.00	19.65	19.80	19.71	21.00	19.70	19.80	19.81	21.00
3GPP Rel 6	HSUPA Subtest-3	20.70	20.89	20.85	22.00	20.83	20.78	20.78	22.00	20.85	20.85	20.91	22.00
3GPP Rel 6	HSUPA Subtest-4	19.48	19.59	19.45	21.00	19.58	19.70	19.62	21.00	19.67	19.70	19.63	21.00
3GPP Rel 6	HSUPA Subtest-5	21.47	21.80	21.52	23.00	21.57	21.75	21.69	23.00	21.64	21.85	21.82	23.00
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	19.09	19.31	19.09	20.50	19.20	19.34	19.29	20.50	19.31	19.52	19.36	20.50



Band 2 Ant0 Default

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). It lists channel configurations for Band 2 Ant0 across various frequencies and modulation schemes (QPSK, 16QAM, 64QAM).

Band 4 Ant0 Default

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). It lists channel configurations for Band 4 Ant0 across various frequencies and modulation schemes (QPSK, 16QAM, 64QAM).



Band 26 Ant0 Default										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				28765	28865	28965				
Frequency (MHz)				821.5	831.5	841.5				
15	QPSK	1	0	22.65	22.80	22.74				
15	QPSK	1	37	22.76	22.78	22.58	24	0		
15	QPSK	1	74	22.51	22.57	22.58				
15	QPSK	36	0	21.76	22.01	21.87				
15	QPSK	36	20	21.76	21.85	21.73	23	1		
15	QPSK	36	39	21.76	21.76	21.74				
15	QPSK	75	0	21.76	21.95	21.91				
15	16QAM	1	0	21.66	21.86	21.73				
15	16QAM	1	37	21.77	21.78	21.64	23	1		
15	16QAM	1	74	21.63	21.79	21.62				
15	16QAM	36	0	20.79	20.93	20.83				
15	16QAM	36	20	20.77	20.82	20.72	22	2		
15	16QAM	36	39	20.72	20.87	20.73				
15	16QAM	75	0	20.70	20.82	20.78				
15	64QAM	1	0	20.80	21.04	20.79				
15	64QAM	1	37	20.82	20.96	20.80	22	2		
15	64QAM	1	74	20.75	20.92	20.81				
15	64QAM	36	0	19.77	19.96	19.79				
15	64QAM	36	20	19.70	19.83	19.59	21	3		
15	64QAM	36	39	19.69	19.77	19.83				
15	64QAM	75	0	19.67	19.66	19.75				
Channel				26740	26865	26990			Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				819	831.5	844				
10	QPSK	1	0	22.55	22.72	22.66				
10	QPSK	1	25	22.87	22.69	22.48	24	0		
10	QPSK	1	49	22.42	22.49	22.49				
10	QPSK	25	0	21.68	21.93	21.79				
10	QPSK	25	12	21.66	21.77	21.64	23	1		
10	QPSK	25	25	21.66	21.66	21.65				
10	QPSK	50	0	21.67	21.87	21.82				
10	16QAM	1	0	21.56	21.77	21.83				
10	16QAM	1	25	21.69	21.70	21.54	23	1		
10	16QAM	1	49	21.55	21.71	21.54				
10	16QAM	25	0	20.71	20.84	20.75				
10	16QAM	25	12	20.68	20.74	20.62	22	2		
10	16QAM	25	25	20.62	20.77	20.65				
10	16QAM	50	0	20.60	20.73	20.70				
10	64QAM	1	0	20.71	20.95	20.70				
10	64QAM	1	25	20.72	20.88	20.72	22	2		
10	64QAM	1	49	20.66	20.82	20.72				
10	64QAM	25	0	19.69	19.87	19.71				
10	64QAM	25	12	19.62	19.74	19.49	21	3		
10	64QAM	25	25	19.60	19.69	19.73				
10	64QAM	50	0	19.59	19.56	19.65				
Channel				26715	26865	27015			Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				816.5	831.5	846.5				
5	QPSK	1	0	22.56	22.72	22.66				
5	QPSK	1	12	22.68	22.68	22.48	24	0		
5	QPSK	1	24	22.43	22.48	22.50				
5	QPSK	12	0	21.66	21.91	21.79				
5	QPSK	12	7	21.68	21.77	21.83	23	1		
5	QPSK	12	13	21.67	21.67	21.64				
5	QPSK	25	0	21.67	21.85	21.83				
5	16QAM	1	0	21.58	21.78	21.63				
5	16QAM	1	12	21.69	21.68	21.55	23	1		
5	16QAM	1	24	21.55	21.71	21.52				
5	16QAM	12	0	20.71	20.85	20.75				
5	16QAM	12	7	20.69	20.72	20.62	22	2		
5	16QAM	12	13	20.64	20.78	20.63				
5	16QAM	25	0	20.61	20.73	20.70				
5	64QAM	1	0	20.72	20.95	20.71				
5	64QAM	1	12	20.72	20.86	20.71	22	2		
5	64QAM	1	24	20.66	20.82	20.72				
5	64QAM	12	0	19.87	19.87	19.65				
5	64QAM	12	7	19.80	19.75	19.50	21	3		
5	64QAM	12	13	19.61	19.67	19.75				
5	64QAM	25	0	19.59	19.56	19.67				
Channel				26705	26865	27025			Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				815.5	831.5	847.5				
3	QPSK	1	0	22.55	22.72	22.65				
3	QPSK	1	8	22.87	22.69	22.50	24	0		
3	QPSK	1	14	22.42	22.49	22.50				
3	QPSK	8	0	21.66	21.92	21.79				
3	QPSK	8	4	21.66	21.75	21.64	23	1		
3	QPSK	8	7	21.68	21.66	21.66				
3	QPSK	15	0	21.66	21.86	21.81				
3	16QAM	1	0	21.56	21.77	21.85				
3	16QAM	1	8	21.69	21.68	21.56	23	1		
3	16QAM	1	14	21.53	21.70	21.54				
3	16QAM	8	0	20.70	20.84	20.74				
3	16QAM	8	4	20.67	20.74	20.64	22	2		
3	16QAM	8	7	20.62	20.79	20.63				
3	16QAM	15	0	20.61	20.72	20.69				
3	64QAM	1	0	20.71	20.94	20.71				
3	64QAM	1	8	20.72	20.87	20.70	22	2		
3	64QAM	1	14	20.67	20.84	20.72				
3	64QAM	8	0	19.68	19.86	19.71				
3	64QAM	8	4	19.62	19.74	19.49	21	3		
3	64QAM	8	7	19.61	19.69	19.75				
3	64QAM	15	0	19.59	19.57	19.67				
Channel				26697	26865	27033			Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				814.7	831.5	848.3				
1.4	QPSK	1	0	22.55	22.72	22.66				
1.4	QPSK	1	3	22.66	22.70	22.50	24	0		
1.4	QPSK	1	5	22.41	22.48	22.49				
1.4	QPSK	3	0	22.55	22.72	22.64				
1.4	QPSK	3	1	22.68	22.69	22.47				
1.4	QPSK	3	3	22.38	22.45	22.48				
1.4	QPSK	6	0	21.68	21.86	21.83	23	1		
1.4	16QAM	1	0	21.58	21.76	21.64				
1.4	16QAM	1	3	21.68	21.68	21.54				
1.4	16QAM	1	5	21.53	21.70	21.52	23	1		
1.4	16QAM	3	0	21.55	21.72	21.66				
1.4	16QAM	3	1	21.66	21.69	21.50				
1.4	16QAM	3	3	21.44	21.49	21.46				
1.4	16QAM	6	0	20.60	20.73	20.70	22	2		
1.4	64QAM	1	0	20.70	20.96	20.71				
1.4	64QAM	1	3	20.73	20.88	20.72				
1.4	64QAM	1	5	20.65	20.83	20.72	22	2		
1.4	64QAM	3	0	20.53	20.72	20.66				
1.4	64QAM	3	1	20.67	20.71	20.48				
1.4	64QAM	3	3	20.43	20.49	20.49				
1.4	64QAM	6	0	19.58	19.58	19.65	21	3		



Band 38 Ant4 Default

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power, Tune-up Int (dBm), MPR (dB). Includes sub-headers for Channel, Frequency (MHz), and various channel types like OFDM, ISDM, and HDQAM.

Band 41 Ant4 Default

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power, Tune-up Int (dBm), MPR (dB). Includes sub-headers for Channel, Frequency (MHz), and various channel types like OFDM, ISDM, and HDQAM.

Band 41 HPUE

Table with columns: BW (MHz), Modulation, RB Size, RB Offset, Power, Tune-up Int (dBm), MPR (dB). Includes sub-headers for Channel, Frequency (MHz), and various channel types like OFDM, ISDM, and HDQAM.



ECI2 Power for WWAN Main PA

GSM850 Ant0 ECI2									
GSM850	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)	
	128	189	251		128	189	251		
TX Channel	824.2	836.4	848.8		824.2	836.4	848.8		
Frequency (MHz)	824.2	836.4	848.8	33.50	23.20	23.18	23.06	24.50	
GSM 1 Tx slot	32.20	32.18	32.06	33.50	23.20	23.18	23.06	24.50	
GPRS 1 Tx slot	32.15	32.17	32.05	33.50	23.15	23.17	23.05	24.50	
GPRS 2 Tx slots	31.10	31.25	31.07	32.50	25.10	25.25	25.07	26.50	
GPRS 3 Tx slots	29.30	29.46	29.44	30.50	25.04	25.20	25.18	26.24	
GPRS 4 Tx slots	28.23	28.35	28.13	29.50	25.23	25.35	25.13	26.50	
EDGE 1 Tx slot	26.32	26.43	26.41	27.50	17.32	17.43	17.41	18.50	
EDGE 2 Tx slots	25.16	25.10	25.31	26.00	19.16	19.10	19.31	20.00	
EDGE 3 Tx slots	22.88	22.91	22.89	24.00	18.62	18.65	18.63	19.74	
EDGE 4 Tx slots	21.38	21.49	21.52	22.50	18.38	18.49	18.52	19.50	

GSM1900 Ant0 ECI2									
GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)	
	512	651	810		512	651	810		
TX Channel	1860.2	1880	1909.8		1860.2	1880	1909.8		
Frequency (MHz)	1860.2	1880	1909.8	30.50	20.55	20.56	20.46	21.50	
GSM 1 Tx slot	29.55	29.56	29.46	30.50	20.55	20.56	20.46	21.50	
GPRS 1 Tx slot	29.54	29.56	29.46	30.50	20.54	20.56	20.46	21.50	
GPRS 2 Tx slots	28.49	28.58	28.46	29.50	22.49	22.58	22.46	23.50	
GPRS 3 Tx slots	26.41	26.41	26.27	27.50	22.15	22.15	22.01	23.24	
GPRS 4 Tx slots	25.58	25.59	25.51	26.50	22.58	22.59	22.51	23.50	
EDGE 1 Tx slot	25.42	25.31	25.22	26.50	16.42	16.31	16.22	17.50	
EDGE 2 Tx slots	24.27	23.87	23.87	25.00	18.27	17.87	17.87	19.00	
EDGE 3 Tx slots	22.24	21.84	21.81	23.00	17.98	17.58	17.55	18.74	
EDGE 4 Tx slots	20.92	20.79	20.80	22.00	17.92	17.79	17.80	19.00	

Band	WCDMA II Ant0 ECI2			Tune-up Limit (dBm)	WCDMA IV Ant0 ECI2			Tune-up Limit (dBm)	WCDMA V Ant0 ECI2			Tune-up Limit (dBm)	
	9262	9400	9538		1312	1413	1513		4132	4182	4233		
TX Channel	9262	9400	9538		1312	1413	1513		4132	4182	4233		
Rx Channel	9662	9800	9938		1537	1638	1738		4357	4407	4458		
Frequency (MHz)	1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6		
3GPP Rel 99	AMR 12.2Kbps	22.52	22.59	22.51	24.00	22.66	22.74	22.66	24.00	22.77	22.84	22.81	24.00
3GPP Rel 99	RV1 12.2Kbps	22.53	22.61	22.59	24.00	22.69	22.76	22.69	24.00	22.80	22.90	22.83	24.00
3GPP Rel 6	HSDPA Subtest-1	21.53	21.69	21.56	23.00	21.71	21.84	21.67	23.00	21.85	21.91	21.81	23.00
3GPP Rel 6	HSDPA Subtest-2	21.55	21.58	21.54	23.00	21.65	21.73	21.61	23.00	21.75	21.77	21.70	23.00
3GPP Rel 6	HSDPA Subtest-3	21.10	21.16	21.11	22.50	21.17	21.33	21.24	22.50	21.30	21.35	21.33	22.50
3GPP Rel 6	HSDPA Subtest-4	20.97	21.02	21.06	22.50	21.07	21.09	21.16	22.50	21.09	21.26	21.23	22.50
3GPP Rel 8	DC-HSDPA Subtest-1	21.53	21.67	21.56	23.00	21.69	21.71	21.71	23.00	21.79	21.77	21.82	23.00
3GPP Rel 8	DC-HSDPA Subtest-2	21.44	21.63	21.47	23.00	21.58	21.80	21.55	23.00	21.71	21.84	21.73	23.00
3GPP Rel 8	DC-HSDPA Subtest-3	20.96	21.14	21.04	22.50	21.08	21.28	21.21	22.50	21.20	21.35	21.30	22.50
3GPP Rel 8	DC-HSDPA Subtest-4	20.93	21.07	20.94	22.50	21.05	21.11	21.06	22.50	21.15	21.19	21.06	22.50
3GPP Rel 6	HSUPA Subtest-1	21.46	21.56	21.54	23.00	21.55	21.63	21.63	23.00	21.67	21.71	21.69	23.00
3GPP Rel 6	HSUPA Subtest-2	19.58	19.68	19.59	21.00	19.65	19.80	19.71	21.00	19.70	19.80	19.81	21.00
3GPP Rel 6	HSUPA Subtest-3	20.70	20.89	20.85	22.00	20.83	20.78	20.78	22.00	20.85	20.85	20.91	22.00
3GPP Rel 6	HSUPA Subtest-4	19.48	19.59	19.45	21.00	19.58	19.70	19.62	21.00	19.67	19.70	19.63	21.00
3GPP Rel 6	HSUPA Subtest-5	21.47	21.80	21.52	23.00	21.57	21.75	21.69	23.00	21.64	21.85	21.82	23.00
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	19.09	19.31	19.09	20.50	19.20	19.34	19.29	20.50	19.31	19.52	19.36	20.50



Band 12 Ant0 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				23060	23095	23130		
Frequency (MHz)				707.5	711.5			
10	QPSK	1	0	22.80	22.81	22.83	24	0
10	QPSK	1	25	22.54	22.57	22.47		
10	QPSK	1	49	22.37	22.56	22.48		
10	QPSK	25	0	21.56	21.62	21.47	23	1
10	QPSK	25	12	21.54	21.58	21.42		
10	QPSK	25	25	21.40	21.50	21.46		
10	QPSK	50	0	21.54	21.56	21.49	23	1
10	16QAM	1	0	21.43	21.48	21.47		
10	16QAM	1	25	21.29	21.46	21.41		
10	16QAM	1	49	21.27	21.38	21.26	22	2
10	16QAM	25	0	20.59	20.64	20.59		
10	16QAM	25	12	20.50	20.53	20.40		
10	16QAM	25	25	20.48	20.56	20.49	22	2
10	16QAM	50	0	20.51	20.58	20.45		
10	64QAM	1	0	20.53	20.63	20.53		
10	64QAM	1	25	20.55	20.61	20.50	22	2
10	64QAM	1	49	20.49	20.56	20.51		
10	64QAM	25	0	19.54	19.56	19.49		
10	64QAM	25	12	19.36	19.50	19.47	21	3
10	64QAM	25	25	19.44	19.54	19.42		
10	64QAM	50	0	19.41	19.55	19.50		
Channel				23035	23095	23155		
Frequency (MHz)				701.5	707.5	713.5		
5	QPSK	1	0	22.57	22.63	22.59	24	0
5	QPSK	1	12	22.52	22.53	22.43		
5	QPSK	1	24	22.31	22.49	22.45		
5	QPSK	12	0	21.51	21.56	21.42	23	1
5	QPSK	12	7	21.46	21.52	21.36		
5	QPSK	12	13	21.37	21.47	21.42		
5	QPSK	25	0	21.50	21.55	21.46	23	1
5	16QAM	1	0	21.35	21.44	21.44		
5	16QAM	1	12	21.25	21.38	21.34		
5	16QAM	1	24	21.19	21.31	21.22	22	2
5	16QAM	12	0	20.57	20.59	20.56		
5	16QAM	12	7	20.45	20.47	20.35		
5	16QAM	12	13	20.44	20.50	20.42	22	2
5	16QAM	25	0	20.43	20.56	20.42		
5	64QAM	1	0	20.48	20.56	20.49		
5	64QAM	1	12	20.50	20.56	20.46	22	2
5	64QAM	1	24	20.44	20.52	20.43		
5	64QAM	12	0	19.51	19.48	19.40		
5	64QAM	12	7	19.28	19.44	19.40	21	3
5	64QAM	12	13	19.41	19.50	19.39		
5	64QAM	25	0	19.39	19.43	19.44		
Channel				23025	23095	23165		
Frequency (MHz)				700.5	707.5	714.5		
3	QPSK	1	0	22.54	22.64	22.57	24	0
3	QPSK	1	8	22.48	22.53	22.44		
3	QPSK	1	14	22.33	22.52	22.41		
3	QPSK	8	0	21.53	21.55	21.41	23	1
3	QPSK	8	4	21.46	21.56	21.39		
3	QPSK	8	7	21.34	21.42	21.43		
3	QPSK	15	0	21.47	21.55	21.44	23	1
3	16QAM	1	0	21.38	21.44	21.40		
3	16QAM	1	8	21.27	21.41	21.37		
3	16QAM	1	14	21.25	21.33	21.22	22	2
3	16QAM	8	0	20.53	20.56	20.53		
3	16QAM	8	4	20.42	20.45	20.35		
3	16QAM	8	7	20.42	20.51	20.42	22	2
3	16QAM	15	0	20.46	20.55	20.40		
3	64QAM	1	0	20.46	20.58	20.47		
3	64QAM	1	8	20.50	20.54	20.46	21	3
3	64QAM	1	14	20.42	20.47	20.48		
3	64QAM	8	0	19.46	19.50	19.42		
3	64QAM	8	4	19.31	19.46	19.40	21	3
3	64QAM	8	7	19.38	19.47	19.34		
3	64QAM	15	0	19.33	19.51	19.47		
Channel				23017	23095	23173		
Frequency (MHz)				699.7	707.5	715.3		
1.4	QPSK	1	0	22.56	22.62	22.57	24	0
1.4	QPSK	1	3	22.49	22.52	22.39		
1.4	QPSK	1	5	22.32	22.49	22.44		
1.4	QPSK	3	0	22.53	22.64	22.59	23	1
1.4	QPSK	3	1	22.50	22.50	22.40		
1.4	QPSK	3	3	22.29	22.48	22.42		
1.4	QPSK	6	0	21.46	21.51	21.41	23	1
1.4	16QAM	1	0	21.40	21.42	21.42		
1.4	16QAM	1	3	21.21	21.41	21.37		
1.4	16QAM	1	5	21.22	21.35	21.20	23	1
1.4	16QAM	3	0	21.37	21.41	21.39		
1.4	16QAM	3	1	21.26	21.42	21.33		
1.4	16QAM	3	3	21.23	21.35	21.22	22	2
1.4	16QAM	6	0	20.46	20.51	20.38		
1.4	64QAM	1	0	20.45	20.57	20.49		
1.4	64QAM	1	3	20.50	20.58	20.47	22	2
1.4	64QAM	1	5	20.42	20.52	20.47		
1.4	64QAM	3	0	20.46	20.52	20.47		
1.4	64QAM	3	1	20.45	20.50	20.39	21	3
1.4	64QAM	3	3	20.47	20.56	20.49		
1.4	64QAM	6	0	19.39	19.51	19.45		

Band 17 Ant0 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				23760	23790	23800		
Frequency (MHz)				709	710	711		
10	QPSK	1	0	22.52	22.68	22.59	24	0
10	QPSK	1	25	22.50	22.51	22.45		
10	QPSK	1	49	22.34	22.52	22.46		
10	QPSK	25	0	21.49	21.56	21.41	23	1
10	QPSK	25	12	21.49	21.52	21.39		
10	QPSK	25	25	21.34	21.47	21.44		
10	QPSK	50	0	21.44	21.51	21.36	23	1
10	16QAM	1	0	21.42	21.45	21.42		
10	16QAM	1	25	21.19	21.38	21.34		
10	16QAM	1	49	21.22	21.30	21.23	22	2
10	16QAM	25	0	20.54	20.51	20.53		
10	16QAM	25	12	20.47	20.49	20.34		
10	16QAM	25	25	20.42	20.57	20.45	22	2
10	16QAM	50	0	20.40	20.52	20.46		
10	64QAM	1	0	20.42	20.56	20.43		
10	64QAM	1	25	20.47	20.57	20.39	22	2
10	64QAM	1	49	20.45	20.48	20.39		
10	64QAM	25	0	19.52	19.51	19.42		
10	64QAM	25	12	19.34	19.44	19.40	21	3
10	64QAM	25	25	19.36	19.48	19.32		
10	64QAM	50	0	19.43	19.50	19.46		
Channel				23755	23790	23825		
Frequency (MHz)				706.5	710	713.5		
5	QPSK	1	0	22.51	22.65	22.56	24	0
5	QPSK	1	12	22.45	22.47	22.45		
5	QPSK	1	24	22.29	22.51	22.44		
5	QPSK	12	0	21.45	21.55	21.38	23	1
5	QPSK	12	7	21.44	21.52	21.38		
5	QPSK	12	13	21.29	21.43	21.43		
5	QPSK	25	0	21.40	21.48	21.31	23	1
5	16QAM	1	0	21.42	21.40	21.40		
5	16QAM	1	12	21.17	21.36	21.32		
5	16QAM	1	24	21.22	21.27	21.22	22	2
5	16QAM	12	0	20.54	20.46	20.50		
5	16QAM	12	7	20.42	20.45	20.34		
5	16QAM	12	13	20.40	20.53	20.40	22	2
5	16QAM	25	0	20.35	20.51	20.41		
5	64QAM	1	0	20.37	20.54	20.41		
5	64QAM	1	12	20.43	20.57	20.34	22	2
5	64QAM	1	24	20.40	20.47	20.37		
5	64QAM	12	0	19.49	19.47	19.39		
5	64QAM	12	7	19.34	19.40	19.37	21	3
5	64QAM	12	13	19.35	19.47	19.29		
5	64QAM	25	0	19.41	19.51	19.47		



Band 26 Ant0 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				26765	26865	26965		
Frequency (MHz)				821.5	831.5	841.5		
15	QPSK	1	0	22.85	22.80	22.74	24	0
15	QPSK	1	37	22.76	22.78	22.58		
15	QPSK	1	74	22.51	22.57	22.58		
15	QPSK	36	0	21.76	21.81	21.87	23	1
15	QPSK	36	20	21.76	21.85	21.73		
15	QPSK	36	39	21.76	21.76	21.74		
15	QPSK	75	0	21.76	21.95	21.91	23	1
15	16QAM	1	0	21.66	21.86	21.73		
15	16QAM	1	37	21.77	21.78	21.64		
15	16QAM	1	74	21.63	21.79	21.62	22	2
15	16QAM	36	0	20.79	20.93	20.83		
15	16QAM	36	20	20.77	20.82	20.72		
15	16QAM	36	39	20.72	20.87	20.73	15	3
15	16QAM	75	0	20.70	20.82	20.78		
15	64QAM	1	0	20.80	21.04	20.79		
15	64QAM	1	37	20.82	20.96	20.80	22	2
15	64QAM	1	74	20.75	20.92	20.81		
15	64QAM	36	0	19.77	19.86	19.79		
15	64QAM	36	20	19.70	19.83	19.59	21	3
15	64QAM	36	39	19.69	19.77	19.83		
15	64QAM	75	0	19.67	19.66	19.75		
Channel				26740	26865	26990	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				819	831.5	844		
10	QPSK	1	0	22.55	22.72	22.66	24	0
10	QPSK	1	25	22.67	22.69	22.48		
10	QPSK	1	49	22.42	22.49	22.49		
10	QPSK	25	0	21.66	21.93	21.79	23	1
10	QPSK	25	12	21.66	21.77	21.64		
10	QPSK	25	25	21.66	21.66	21.65		
10	QPSK	50	0	21.67	21.87	21.82	23	1
10	16QAM	1	0	21.56	21.77	21.63		
10	16QAM	1	25	21.69	21.70	21.54		
10	16QAM	1	49	21.55	21.71	21.54	22	2
10	16QAM	25	0	20.71	20.84	20.75		
10	16QAM	25	12	20.68	20.74	20.62		
10	16QAM	25	25	20.62	20.77	20.65	22	2
10	16QAM	50	0	20.60	20.73	20.70		
10	64QAM	1	0	20.71	20.95	20.70		
10	64QAM	1	25	20.72	20.88	20.72	22	2
10	64QAM	1	49	20.66	20.82	20.72		
10	64QAM	25	0	19.69	19.87	19.71		
10	64QAM	25	12	19.62	19.74	19.49	21	3
10	64QAM	25	25	19.60	19.69	19.73		
10	64QAM	50	0	19.58	19.56	19.66		
Channel				26715	26865	27015	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				816.5	831.5	846.5		
5	QPSK	1	0	22.56	22.72	22.66	24	0
5	QPSK	1	12	22.68	22.68	22.49		
5	QPSK	1	24	22.43	22.48	22.50		
5	QPSK	12	0	21.66	21.91	21.79	23	1
5	QPSK	12	7	21.68	21.77	21.63		
5	QPSK	12	13	21.67	21.67	21.64		
5	QPSK	25	0	21.67	21.85	21.83	23	1
5	16QAM	1	0	21.58	21.78	21.63		
5	16QAM	1	12	21.69	21.68	21.55		
5	16QAM	1	24	21.55	21.71	21.52	22	2
5	16QAM	12	0	20.71	20.85	20.75		
5	16QAM	12	7	20.69	20.72	20.62		
5	16QAM	12	13	20.64	20.78	20.63	22	2
5	16QAM	25	0	20.61	20.73	20.70		
5	64QAM	1	0	20.72	20.95	20.71		
5	64QAM	1	12	20.72	20.86	20.71	22	2
5	64QAM	1	24	20.66	20.82	20.72		
5	64QAM	12	0	19.67	19.87	19.69		
5	64QAM	12	7	19.60	19.75	19.50	21	3
5	64QAM	12	13	19.61	19.67	19.75		
5	64QAM	25	0	19.59	19.56	19.67		
Channel				26705	26865	27025	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				815.5	831.5	847.5		
3	QPSK	1	0	22.55	22.72	22.65	24	0
3	QPSK	1	8	22.67	22.69	22.50		
3	QPSK	1	14	22.42	22.49	22.50		
3	QPSK	8	0	21.66	21.92	21.79	23	1
3	QPSK	8	4	21.66	21.75	21.64		
3	QPSK	8	7	21.68	21.66	21.66		
3	QPSK	15	0	21.66	21.86	21.81	23	1
3	16QAM	1	0	21.56	21.77	21.65		
3	16QAM	1	8	21.69	21.68	21.56		
3	16QAM	1	14	21.53	21.70	21.54	22	2
3	16QAM	8	0	20.70	20.84	20.74		
3	16QAM	8	4	20.67	20.74	20.64		
3	16QAM	8	7	20.62	20.79	20.63	22	2
3	16QAM	15	0	20.61	20.72	20.69		
3	64QAM	1	0	20.71	20.94	20.71		
3	64QAM	1	8	20.72	20.87	20.70	22	2
3	64QAM	1	14	20.67	20.84	20.72		
3	64QAM	8	0	19.68	19.86	19.71		
3	64QAM	8	4	19.62	19.74	19.49	21	3
3	64QAM	8	7	19.61	19.69	19.75		
3	64QAM	15	0	19.59	19.57	19.67		
Channel				26697	26865	27033	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				814.7	831.5	848.3		
1.4	QPSK	1	0	22.55	22.72	22.66	24	0
1.4	QPSK	1	3	22.66	22.70	22.50		
1.4	QPSK	1	5	22.41	22.48	22.49		
1.4	QPSK	3	0	22.55	22.72	22.64	23	1
1.4	QPSK	3	1	22.68	22.69	22.47		
1.4	QPSK	3	3	22.38	22.45	22.48		
1.4	QPSK	6	0	21.68	21.86	21.83	23	1
1.4	16QAM	1	0	21.58	21.76	21.64		
1.4	16QAM	1	3	21.68	21.68	21.54		
1.4	16QAM	1	5	21.53	21.70	21.52	23	1
1.4	16QAM	3	0	21.55	21.72	21.68		
1.4	16QAM	3	1	21.66	21.69	21.50		
1.4	16QAM	3	3	21.44	21.49	21.46	22	2
1.4	16QAM	6	0	20.60	20.73	20.70		
1.4	64QAM	1	0	20.70	20.96	20.71		
1.4	64QAM	1	3	20.73	20.88	20.72	22	2
1.4	64QAM	1	5	20.65	20.83	20.72		
1.4	64QAM	3	0	20.53	20.72	20.66		
1.4	64QAM	3	1	20.67	20.71	20.48	22	2
1.4	64QAM	3	3	20.43	20.49	20.49		
1.4	64QAM	6	0	19.58	19.58	19.65		





ECI3 Power for WWAN Main PA

GSM850 Ant0 ECI3									
GSM850	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)	
	128	189	251		128	189	251		
TX Channel	824.2	836.4	848.8	30.50	824.2	836.4	848.8	21.50	
Frequency (MHz)	824.2	836.4	848.8	30.50	824.2	836.4	848.8	21.50	
GSM 1 Tx slot	29.32	29.27	29.13	30.50	20.32	20.27	20.13	21.50	
GPRS 1 Tx slot	29.26	29.27	29.17	30.50	20.26	20.27	20.17	21.50	
GPRS 2 Tx slots	28.21	28.37	28.20	29.50	22.21	22.37	22.20	23.50	
GPRS 3 Tx slots	28.37	28.53	28.53	27.50	22.11	22.27	22.27	23.24	
GPRS 4 Tx slots	25.34	25.43	25.20	26.50	22.34	22.43	22.20	23.50	
EDGE 1 Tx slot	26.32	26.43	26.41	27.50	17.32	17.43	17.41	18.50	
EDGE 2 Tx slots	25.16	25.10	25.31	26.00	19.16	19.10	19.31	20.00	
EDGE 3 Tx slots	22.88	22.91	22.89	24.00	18.62	18.65	18.63	19.74	
EDGE 4 Tx slots	21.38	21.49	21.52	22.50	18.38	18.49	18.52	19.50	

GSM1900 Ant0 ECI3									
GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)	
	810	851	910		810	851	910		
TX Channel	1850.2	1880	1909.8	23.50	1850.2	1880	1909.8	14.50	
Frequency (MHz)	1850.2	1880	1909.8	23.50	1850.2	1880	1909.8	14.50	
GSM 1 Tx slot	22.56	22.56	22.48	23.50	13.56	13.56	13.48	14.50	
GPRS 1 Tx slot	22.52	22.55	22.46	23.50	13.52	13.55	13.46	14.50	
GPRS 2 Tx slots	21.32	21.36	21.12	22.50	15.32	15.36	15.12	16.50	
GPRS 3 Tx slots	19.29	19.35	19.15	20.50	15.03	15.09	14.89	16.24	
GPRS 4 Tx slots	18.30	18.45	18.13	19.50	15.30	15.45	15.13	16.50	
EDGE 1 Tx slot	18.39	18.29	18.22	19.50	9.39	9.29	9.22	10.50	
EDGE 2 Tx slots	17.29	16.85	16.84	18.00	11.29	10.85	10.84	12.00	
EDGE 3 Tx slots	15.26	15.21	15.25	16.00	11.00	10.95	10.99	11.74	
EDGE 4 Tx slots	14.29	14.25	14.21	15.00	11.29	11.25	11.21	12.00	

Band	WCDMA II Ant0 ECI3			Tune-up Limit (dBm)	WCDMA IV Ant0 ECI3			Tune-up Limit (dBm)	WCDMA V Ant0 ECI3			Tune-up Limit (dBm)	
	9262	9400	9538		1312	1413	1513		4132	4182	4233		
TX Channel	9262	9400	9538	18.00	1312	1413	1513	19.50	21.75	21.73	21.77	23.00	
Rx Channel	9662	9800	9938	18.00	1537	1638	1738	19.50	21.83	21.92	21.76	23.00	
Frequency (MHz)	1852.4	1880	1907.6	18.00	1712.4	1732.6	1752.6	19.50	21.75	21.77	21.70	23.00	
3GPP Rel 99	AMR 12.2Kbps	16.47	16.52	16.49	18.00	18.13	18.15	18.14	19.50	21.75	21.73	21.77	23.00
3GPP Rel 99	RVC 12.2Kbps	16.57	16.63	16.60	18.00	18.25	18.31	18.19	19.50	21.83	21.92	21.76	23.00
3GPP Rel 6	HSDPA Subtest-1	16.51	16.62	16.58	17.00	18.15	18.26	18.24	18.50	21.85	21.91	21.81	23.00
3GPP Rel 6	HSDPA Subtest-2	16.53	16.57	16.50	17.00	18.08	18.15	18.03	18.50	21.75	21.77	21.70	23.00
3GPP Rel 6	HSDPA Subtest-3	16.01	16.07	16.01	16.50	17.65	17.74	17.73	18.00	21.30	21.35	21.33	22.50
3GPP Rel 6	HSDPA Subtest-4	16.06	16.07	16.00	16.50	17.56	17.64	17.55	18.00	21.09	21.26	21.23	22.50
3GPP Rel 8	DC-HSDPA Subtest-1	16.54	16.61	16.55	17.00	18.08	18.24	18.23	18.50	21.79	21.77	21.82	23.00
3GPP Rel 8	DC-HSDPA Subtest-2	16.37	16.57	16.54	17.00	18.10	18.27	18.17	18.50	21.71	21.84	21.73	23.00
3GPP Rel 8	DC-HSDPA Subtest-3	16.06	16.08	16.00	16.50	17.63	17.74	17.73	18.00	21.20	21.35	21.30	22.50
3GPP Rel 8	DC-HSDPA Subtest-4	16.05	16.07	15.98	16.50	17.52	17.60	17.55	18.00	21.15	21.19	21.06	22.50
3GPP Rel 6	HSUPA Subtest-1	16.52	16.56	16.50	17.00	18.13	18.11	18.07	18.50	21.67	21.71	21.69	23.00
3GPP Rel 6	HSUPA Subtest-2	14.51	14.58	14.48	15.00	16.11	16.14	16.10	16.50	19.70	19.80	19.81	21.00
3GPP Rel 6	HSUPA Subtest-3	15.52	15.58	15.52	16.00	17.14	17.09	17.07	17.50	20.85	20.85	20.91	22.00
3GPP Rel 6	HSUPA Subtest-4	14.56	14.55	14.50	15.00	16.11	16.12	16.10	16.50	19.67	19.70	19.63	21.00
3GPP Rel 6	HSUPA Subtest-5	16.51	16.54	16.49	17.00	18.08	18.15	18.08	18.50	21.64	21.85	21.82	23.00
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	14.02	14.09	13.99	14.50	15.60	15.63	15.59	16.00	19.31	19.52	19.36	20.50



Band 26 Ant0 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				28765	28865	28965				
Frequency (MHz)				821.5	831.5	841.5				
15	QPSK	1	0	22.65	22.80	22.74	24	0		
15	QPSK	1	37	22.76	22.78	22.58				
15	QPSK	1	74	22.51	22.57	22.58				
15	QPSK	36	0	21.76	22.01	21.87	23	1		
15	QPSK	36	20	21.76	21.85	21.73				
15	QPSK	36	39	21.76	21.76	21.74				
15	QPSK	75	0	21.76	21.95	21.91				
15	16QAM	1	0	21.66	21.86	21.73	23	1		
15	16QAM	1	37	21.77	21.78	21.64				
15	16QAM	1	74	21.63	21.79	21.62				
15	16QAM	36	0	20.79	20.93	20.83	22	2		
15	16QAM	36	20	20.77	20.82	20.72				
15	16QAM	36	39	20.72	20.87	20.73				
15	16QAM	75	0	20.70	20.82	20.78				
15	64QAM	1	0	20.80	21.04	20.79	22	2		
15	64QAM	1	37	20.82	20.96	20.80				
15	64QAM	1	74	20.75	20.92	20.81				
15	64QAM	36	0	19.77	19.96	19.79	21	3		
15	64QAM	36	20	19.70	19.83	19.59				
15	64QAM	36	39	19.69	19.77	19.83				
15	64QAM	75	0	19.67	19.66	19.75				
Channel				26740	26865	26990	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				819	831.5	844				
10	QPSK	1	0	22.55	22.72	22.66	24	0		
10	QPSK	1	25	22.67	22.69	22.48				
10	QPSK	1	49	22.42	22.49	22.49				
10	QPSK	25	0	21.68	21.93	21.79	23	1		
10	QPSK	25	12	21.66	21.77	21.64				
10	QPSK	25	25	21.66	21.66	21.65				
10	QPSK	50	0	21.67	21.87	21.82				
10	16QAM	1	0	21.56	21.77	21.63	23	1		
10	16QAM	1	25	21.69	21.70	21.54				
10	16QAM	1	49	21.55	21.71	21.54				
10	16QAM	25	0	20.71	20.84	20.75	22	2		
10	16QAM	25	12	20.68	20.74	20.62				
10	16QAM	25	25	20.62	20.77	20.65				
10	16QAM	50	0	20.60	20.73	20.70				
10	64QAM	1	0	20.71	20.95	20.70	22	2		
10	64QAM	1	25	20.72	20.88	20.72				
10	64QAM	1	49	20.66	20.82	20.72				
10	64QAM	25	0	19.69	19.87	19.71	21	3		
10	64QAM	25	12	19.62	19.74	19.49				
10	64QAM	25	25	19.60	19.69	19.73				
10	64QAM	50	0	19.59	19.56	19.65				
Channel				26715	26865	27015	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				816.5	831.5	846.5				
5	QPSK	1	0	22.56	22.72	22.66	24	0		
5	QPSK	1	12	22.68	22.68	22.48				
5	QPSK	1	24	22.43	22.48	22.50				
5	QPSK	12	0	21.66	21.91	21.79	23	1		
5	QPSK	12	7	21.68	21.77	21.63				
5	QPSK	12	13	21.67	21.67	21.64				
5	QPSK	25	0	21.67	21.85	21.83				
5	16QAM	1	0	21.58	21.78	21.63	23	1		
5	16QAM	1	12	21.69	21.68	21.55				
5	16QAM	1	24	21.55	21.71	21.52				
5	16QAM	12	0	20.71	20.95	20.75	22	2		
5	16QAM	12	7	20.69	20.72	20.62				
5	16QAM	12	13	20.64	20.78	20.63				
5	16QAM	25	0	20.61	20.73	20.70				
5	64QAM	1	0	20.72	20.95	20.71	22	2		
5	64QAM	1	12	20.72	20.86	20.71				
5	64QAM	1	24	20.66	20.82	20.72				
5	64QAM	12	0	19.87	19.87	19.65	21	3		
5	64QAM	12	7	19.80	19.75	19.50				
5	64QAM	12	13	19.61	19.67	19.75				
5	64QAM	25	0	19.59	19.56	19.67				
Channel				26705	26865	27025	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				815.5	831.5	847.5				
3	QPSK	1	0	22.55	22.72	22.65	24	0		
3	QPSK	1	8	22.67	22.69	22.50				
3	QPSK	1	14	22.42	22.49	22.50				
3	QPSK	8	0	21.66	21.92	21.79	23	1		
3	QPSK	8	4	21.66	21.75	21.64				
3	QPSK	8	7	21.68	21.66	21.66				
3	QPSK	15	0	21.66	21.86	21.81				
3	16QAM	1	0	21.56	21.77	21.65	23	1		
3	16QAM	1	8	21.69	21.68	21.56				
3	16QAM	1	14	21.53	21.70	21.54				
3	16QAM	8	0	20.70	20.84	20.74	22	2		
3	16QAM	8	4	20.67	20.74	20.64				
3	16QAM	8	7	20.62	20.79	20.63				
3	16QAM	15	0	20.61	20.72	20.69				
3	64QAM	1	0	20.71	20.94	20.71	22	2		
3	64QAM	1	8	20.72	20.87	20.70				
3	64QAM	1	14	20.67	20.84	20.72				
3	64QAM	8	0	19.88	19.86	19.71	21	3		
3	64QAM	8	4	19.82	19.74	19.49				
3	64QAM	8	7	19.61	19.69	19.75				
3	64QAM	15	0	19.59	19.57	19.67				
Channel				26697	26865	27033	Tune-up limit (dBm)	MPR (dB)		
Frequency (MHz)				814.7	831.5	848.3				
1.4	QPSK	1	0	22.55	22.72	22.66	24	0		
1.4	QPSK	1	3	22.66	22.70	22.50				
1.4	QPSK	1	5	22.41	22.48	22.49				
1.4	QPSK	3	0	22.55	22.72	22.64	23	1		
1.4	QPSK	3	1	22.68	22.69	22.47				
1.4	QPSK	3	3	22.38	22.45	22.48				
1.4	QPSK	6	0	21.68	21.86	21.83	23	1		
1.4	16QAM	1	0	21.58	21.76	21.64				
1.4	16QAM	1	3	21.68	21.68	21.54				
1.4	16QAM	1	5	21.53	21.70	21.52	23	1		
1.4	16QAM	3	0	21.55	21.72	21.56				
1.4	16QAM	3	1	21.66	21.69	21.50				
1.4	16QAM	3	3	21.44	21.49	21.46				
1.4	16QAM	6	0	20.60	20.73	20.70	22	2		
1.4	64QAM	1	0	20.70	20.96	20.71				
1.4	64QAM	1	3	20.73	20.88	20.72				
1.4	64QAM	1	5	20.65	20.83	20.72	22	2		
1.4	64QAM	3	0	20.53	20.72	20.66				
1.4	64QAM	3	1	20.67	20.71	20.48				
1.4	64QAM	3	3	20.43	20.49	20.49	21	3		
1.4	64QAM	6	0	19.58	19.58	19.65				





ECI6 Power for WWAN Main PA

GSM850 Ant0 ECI6									
GSM850	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)	
	128	189	251		128	189	251		
TX Channel	824.2	836.4	848.8	33.50	824.2	836.4	848.8	24.50	
Frequency (MHz)	824.2	836.4	848.8	33.50	824.2	836.4	848.8	24.50	
GSM 1 Tx slot	32.20	32.18	32.06	33.50	23.20	23.18	23.06	24.50	
GPRS 1 Tx slot	32.15	32.17	32.05	33.50	23.15	23.17	23.05	24.50	
GPRS 2 Tx slots	31.10	31.25	31.07	32.50	25.10	25.25	25.07	26.50	
GPRS 3 Tx slots	29.30	29.46	29.44	30.50	25.04	25.20	25.18	26.24	
GPRS 4 Tx slots	28.23	28.35	28.13	29.50	25.23	25.35	25.13	26.50	
EDGE 1 Tx slot	26.32	26.43	26.41	27.50	17.32	17.43	17.41	18.50	
EDGE 2 Tx slots	25.16	25.10	25.31	26.00	19.16	19.10	19.31	20.00	
EDGE 3 Tx slots	22.88	22.91	22.89	24.00	18.62	18.65	18.63	19.74	
EDGE 4 Tx slots	21.38	21.49	21.52	22.50	18.38	18.49	18.52	19.50	

GSM1900 Ant0 ECI6									
GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)	
	512	691	910		512	691	910		
TX Channel	1860.2	1880	1909.8	27.50	1860.2	1880	1909.8	18.50	
Frequency (MHz)	1860.2	1880	1909.8	27.50	1860.2	1880	1909.8	18.50	
GSM 1 Tx slot	26.55	26.53	26.46	27.50	17.55	17.53	17.46	18.50	
GPRS 1 Tx slot	26.55	26.58	26.44	27.50	17.55	17.58	17.44	18.50	
GPRS 2 Tx slots	25.48	25.61	25.44	26.50	19.48	19.61	19.44	20.50	
GPRS 3 Tx slots	23.41	23.41	23.28	24.50	19.15	19.15	19.02	20.24	
GPRS 4 Tx slots	22.61	22.65	22.63	23.50	19.61	19.65	19.63	20.50	
EDGE 1 Tx slot	25.42	25.31	25.22	26.50	16.42	16.31	16.22	17.50	
EDGE 2 Tx slots	24.27	23.87	23.87	25.00	18.27	17.87	17.87	19.00	
EDGE 3 Tx slots	22.24	21.84	21.81	23.00	17.98	17.58	17.55	18.74	
EDGE 4 Tx slots	20.92	20.79	20.80	22.00	17.92	17.79	17.80	19.00	

Band	WCDMA II Ant0 ECI6			Tune-up Limit (dBm)	WCDMA IV Ant0 ECI6			Tune-up Limit (dBm)	WCDMA V Ant0 ECI6			Tune-up Limit (dBm)	
	9262	9400	9538		1312	1413	1513		4132	4182	4233		
TX Channel	9262	9400	9538	20.00	1312	1413	1513	22.00	22.77	22.84	22.81	24.00	
Rx Channel	9662	9800	9938	20.00	1537	1638	1738	22.00	22.80	22.90	22.83	24.00	
Frequency (MHz)	1852.4	1880	1907.6	20.00	1712.4	1732.6	1752.6	21.00	21.75	21.77	21.70	23.00	
3GPP Rel 99	AMR 12.2Kbps	18.51	18.59	18.54	20.00	20.64	20.73	20.68	22.00	22.77	22.84	22.81	24.00
3GPP Rel 99	RV12 2Kbps	18.54	18.63	18.58	20.00	20.74	20.75	20.71	22.00	22.80	22.90	22.83	24.00
3GPP Rel 6	HSDPA Subtest-1	17.53	17.70	17.58	19.00	19.85	19.83	19.70	21.00	21.85	21.91	21.81	23.00
3GPP Rel 6	HSDPA Subtest-2	17.53	17.61	17.51	19.00	19.88	19.72	19.66	21.00	21.75	21.77	21.70	23.00
3GPP Rel 6	HSDPA Subtest-3	17.10	17.16	17.12	18.50	19.19	19.32	19.21	20.50	21.30	21.35	21.33	22.50
3GPP Rel 6	HSDPA Subtest-4	16.95	16.99	17.08	18.50	19.06	19.08	19.19	20.50	21.09	21.26	21.23	22.50
3GPP Rel 8	DC-HSDPA Subtest-1	17.56	17.68	17.57	19.00	19.66	19.69	19.71	21.00	21.79	21.77	21.82	23.00
3GPP Rel 8	DC-HSDPA Subtest-2	17.47	17.62	17.47	19.00	19.61	19.78	19.57	21.00	21.71	21.84	21.73	23.00
3GPP Rel 8	DC-HSDPA Subtest-3	16.96	17.14	17.04	18.50	19.08	19.26	19.21	20.50	21.20	21.35	21.30	22.50
3GPP Rel 8	DC-HSDPA Subtest-4	16.91	17.07	16.94	18.50	19.07	19.10	19.10	20.50	21.15	21.19	21.06	22.50
3GPP Rel 6	HSUPA Subtest-1	17.47	17.58	17.52	19.00	19.55	19.62	19.59	21.00	21.67	21.71	21.69	23.00
3GPP Rel 6	HSUPA Subtest-2	15.56	15.67	15.58	17.00	17.63	17.78	17.71	19.00	19.70	19.80	19.81	21.00
3GPP Rel 6	HSUPA Subtest-3	16.71	16.70	16.67	18.00	18.78	18.77	18.81	20.00	20.95	20.85	20.91	22.00
3GPP Rel 6	HSUPA Subtest-4	15.50	15.57	15.47	17.00	17.56	17.69	17.64	19.00	19.67	19.70	19.63	21.00
3GPP Rel 6	HSUPA Subtest-5	17.44	17.62	17.49	19.00	19.61	19.74	19.72	21.00	21.64	21.85	21.82	23.00
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	15.09	15.28	15.11	16.50	17.16	17.33	17.27	18.50	19.31	19.52	19.36	20.50



Band 26 Ant0 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				28765	28865	28965			
Frequency (MHz)				821.5	831.5	841.5			
15	QPSK	1	0	22.65	22.80	22.74			
15	QPSK	1	37	22.76	22.78	22.58	24	0	
15	QPSK	1	74	22.51	22.57	22.58			
15	QPSK	36	0	21.76	22.01	21.87			
15	QPSK	36	39	21.76	21.85	21.73	23	1	
15	QPSK	36	39	21.76	21.76	21.74			
15	QPSK	75	0	21.76	21.95	21.91			
15	16QAM	1	0	21.66	21.86	21.73			
15	16QAM	1	37	21.77	21.78	21.64	23	1	
15	16QAM	1	74	21.63	21.79	21.62			
15	16QAM	36	0	20.79	20.93	20.83			
15	16QAM	36	20	20.77	20.82	20.72	22	2	
15	16QAM	36	39	20.72	20.87	20.73			
15	16QAM	75	0	20.70	20.82	20.78			
15	64QAM	1	0	20.80	21.04	20.79			
15	64QAM	1	37	20.82	20.96	20.80	22	2	
15	64QAM	1	74	20.75	20.92	20.81			
15	64QAM	36	0	19.77	19.96	19.79			
15	64QAM	36	20	19.70	19.83	19.59	21	3	
15	64QAM	36	39	19.69	19.77	19.83			
15	64QAM	75	0	19.67	19.66	19.75			
Channel				26740	26865	26990	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				819	831.5	844			
10	QPSK	1	0	22.55	22.72	22.66			
10	QPSK	1	25	22.87	22.69	22.48	24	0	
10	QPSK	1	49	22.42	22.49	22.49			
10	QPSK	25	0	21.68	21.93	21.79			
10	QPSK	25	12	21.66	21.77	21.64	23	1	
10	QPSK	25	25	21.66	21.66	21.65			
10	QPSK	50	0	21.67	21.87	21.82			
10	16QAM	1	0	21.56	21.77	21.83	23	1	
10	16QAM	1	25	21.69	21.70	21.54			
10	16QAM	1	49	21.55	21.71	21.54			
10	16QAM	25	0	20.71	20.84	20.75			
10	16QAM	25	12	20.68	20.74	20.62	22	2	
10	16QAM	25	25	20.62	20.77	20.65			
10	16QAM	50	0	20.60	20.73	20.70			
10	64QAM	1	0	20.71	20.95	20.70			
10	64QAM	1	25	20.72	20.88	20.72	22	2	
10	64QAM	1	49	20.66	20.82	20.72			
10	64QAM	25	0	19.69	19.87	19.71			
10	64QAM	25	12	19.62	19.74	19.49	21	3	
10	64QAM	25	25	19.60	19.69	19.73			
10	64QAM	50	0	19.59	19.56	19.65			
Channel				26715	26865	27015	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				816.5	831.5	846.5			
5	QPSK	1	0	22.56	22.72	22.66			
5	QPSK	1	12	22.68	22.68	22.48	24	0	
5	QPSK	1	24	22.43	22.48	22.50			
5	QPSK	12	0	21.66	21.91	21.79			
5	QPSK	12	7	21.68	21.77	21.83	23	1	
5	QPSK	12	13	21.67	21.67	21.64			
5	QPSK	25	0	21.67	21.85	21.83			
5	16QAM	1	0	21.58	21.78	21.63	23	1	
5	16QAM	1	12	21.69	21.68	21.55			
5	16QAM	1	24	21.55	21.71	21.52			
5	16QAM	12	0	20.71	20.85	20.75			
5	16QAM	12	7	20.69	20.72	20.62	22	2	
5	16QAM	12	13	20.64	20.78	20.63			
5	16QAM	25	0	20.61	20.73	20.70			
5	64QAM	1	0	20.72	20.95	20.71			
5	64QAM	1	12	20.72	20.86	20.71	22	2	
5	64QAM	1	24	20.66	20.82	20.72			
5	64QAM	12	0	19.87	19.87	19.65			
5	64QAM	12	7	19.80	19.75	19.50	21	3	
5	64QAM	12	13	19.61	19.67	19.75			
5	64QAM	25	0	19.59	19.56	19.67			
Channel				26705	26865	27025	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				815.5	831.5	847.5			
3	QPSK	1	0	22.55	22.72	22.65			
3	QPSK	1	8	22.87	22.69	22.50	24	0	
3	QPSK	1	14	22.42	22.49	22.50			
3	QPSK	8	0	21.66	21.92	21.79			
3	QPSK	8	4	21.66	21.75	21.64	23	1	
3	QPSK	8	7	21.68	21.66	21.66			
3	QPSK	15	0	21.66	21.86	21.81			
3	16QAM	1	0	21.56	21.77	21.85	23	1	
3	16QAM	1	8	21.69	21.68	21.56			
3	16QAM	1	14	21.53	21.70	21.54			
3	16QAM	8	0	20.70	20.84	20.74			
3	16QAM	8	4	20.67	20.74	20.64	22	2	
3	16QAM	8	7	20.62	20.79	20.63			
3	64QAM	15	0	20.61	20.72	20.69			
3	64QAM	1	0	20.71	20.94	20.71			
3	64QAM	1	8	20.72	20.87	20.70	22	2	
3	64QAM	1	14	20.67	20.84	20.72			
3	64QAM	8	0	19.68	19.86	19.71			
3	64QAM	8	4	19.62	19.74	19.49	21	3	
3	64QAM	8	7	19.61	19.69	19.75			
3	64QAM	15	0	19.59	19.57	19.67			
Channel				26697	26865	27033	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				814.7	831.5	848.3			
1.4	QPSK	1	0	22.55	22.72	22.66			
1.4	QPSK	1	3	22.66	22.70	22.50	24	0	
1.4	QPSK	1	5	22.41	22.48	22.49			
1.4	QPSK	3	0	22.55	22.72	22.64			
1.4	QPSK	3	1	22.68	22.69	22.47			
1.4	QPSK	3	3	22.38	22.45	22.48			
1.4	QPSK	6	0	21.68	21.86	21.83	23	1	
1.4	16QAM	1	0	21.58	21.76	21.64			
1.4	16QAM	1	3	21.68	21.68	21.54			
1.4	16QAM	1	5	21.53	21.70	21.52	23	1	
1.4	16QAM	3	0	21.55	21.72	21.66			
1.4	16QAM	3	1	21.66	21.69	21.50			
1.4	16QAM	3	3	21.44	21.49	21.46			
1.4	16QAM	6	0	20.60	20.73	20.70	22	2	
1.4	64QAM	1	0	20.70	20.96	20.71			
1.4	64QAM	1	3	20.73	20.88	20.72			
1.4	64QAM	1	5	20.65	20.83	20.72	22	2	
1.4	64QAM	3	0	20.53	20.72	20.66			
1.4	64QAM	3	1	20.67	20.71	20.48			
1.4	64QAM	3	3	20.43	20.49	20.49			
1.4	64QAM	6	0	19.58	19.58	19.65	21	3	



Band 41 HPUE

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	20.41	20.55	20.61	20.40	20.44	22	0
20	QPSK	1	49	20.43	20.55	20.54	20.40	20.40		
20	QPSK	1	99	20.45	20.52	20.55	20.44	20.38	22	0
20	QPSK	50	0	20.41	20.54	20.58	20.45	20.38		
20	QPSK	50	24	20.42	20.55	20.53	20.39	20.39	22	0
20	QPSK	50	50	20.43	20.53	20.55	20.41	20.40		
20	QPSK	100	0	20.46	20.54	20.55	20.44	20.43	22	0
20	16QAM	1	0	20.43	20.54	20.54	20.42	20.41		
20	16QAM	1	49	20.42	20.55	20.56	20.41	20.42	22	0
20	16QAM	1	99	20.44	20.54	20.53	20.43	20.43		
20	16QAM	50	0	20.46	20.53	20.57	20.42	20.43	22	0
20	16QAM	50	24	20.45	20.52	20.53	20.42	20.42		
20	16QAM	50	50	20.43	20.54	20.56	20.41	20.43	22	0
20	16QAM	100	0	20.44	20.50	20.57	20.45	20.40		
20	64QAM	1	0	20.42	20.51	20.57	20.40	20.42	22	0
20	64QAM	1	49	20.43	20.53	20.57	20.44	20.41		
20	64QAM	1	99	20.40	20.55	20.55	20.39	20.40	22	0
20	64QAM	50	0	20.44	20.52	20.58	20.42	20.38		
20	64QAM	50	24	20.42	20.55	20.54	20.42	20.42	22	0
20	64QAM	50	50	20.40	20.56	20.58	20.41	20.42		
20	64QAM	100	0	20.43	20.53	20.53	20.41	20.41		
Channel				39725	40173	40620	41068	41515	Tune-up limit	MPR
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	(dBm)	(dB)
15	QPSK	1	0	20.32	20.40	20.45	20.30	20.34	22	0
15	QPSK	1	37	20.31	20.41	20.48	20.34	20.31		
15	QPSK	1	74	20.35	20.45	20.45	20.33	20.31	22	0
15	QPSK	36	0	20.36	20.45	20.48	20.32	20.29		
15	QPSK	36	20	20.35	20.45	20.45	20.31	20.31	22	0
15	QPSK	36	39	20.33	20.41	20.45	20.34	20.32		
15	QPSK	75	0	20.35	20.45	20.47	20.34	20.32	22	0
15	16QAM	1	0	20.35	20.43	20.49	20.33	20.33		
15	16QAM	1	37	20.33	20.40	20.43	20.34	20.29	22	0
15	16QAM	1	74	20.34	20.42	20.45	20.33	20.30		
15	16QAM	36	0	20.35	20.46	20.44	20.30	20.31	22	0
15	16QAM	36	20	20.33	20.46	20.47	20.32	20.34		
15	16QAM	36	39	20.30	20.44	20.49	20.34	20.29	22	0
15	16QAM	75	0	20.30	20.45	20.46	20.35	20.33		
15	64QAM	1	0	20.32	20.42	20.44	20.31	20.31	22	0
15	64QAM	1	37	20.36	20.43	20.48	20.31	20.28		
15	64QAM	1	74	20.36	20.45	20.47	20.34	20.32	22	0
15	64QAM	36	0	20.34	20.46	20.46	20.33	20.29		
15	64QAM	36	20	20.33	20.41	20.44	20.33	20.34	22	0
15	64QAM	36	39	20.35	20.46	20.45	20.31	20.33		
15	64QAM	75	0	20.35	20.42	20.45	20.30	20.33		
Channel				39700	40160	40620	41080	41540	Tune-up limit	MPR
Frequency (MHz)				2501	2547	2593	2639	2685	(dBm)	(dB)
10	QPSK	1	0	20.31	20.42	20.48	20.29	20.32	22	0
10	QPSK	1	25	20.30	20.46	20.44	20.30	20.30		
10	QPSK	1	49	20.35	20.43	20.44	20.30	20.31	22	0
10	QPSK	25	0	20.31	20.42	20.43	20.32	20.30		
10	QPSK	25	12	20.32	20.44	20.49	20.31	20.29	22	0
10	QPSK	25	25	20.34	20.42	20.46	20.35	20.32		
10	QPSK	50	0	20.35	20.41	20.47	20.35	20.33	22	0
10	16QAM	1	0	20.30	20.43	20.44	20.33	20.33		
10	16QAM	1	25	20.30	20.44	20.48	20.30	20.33	22	0
10	16QAM	1	49	20.35	20.44	20.44	20.33	20.28		
10	16QAM	25	0	20.35	20.42	20.46	20.35	20.33	22	0
10	16QAM	25	12	20.31	20.42	20.45	20.33	20.32		
10	16QAM	25	25	20.31	20.42	20.46	20.33	20.31	22	0
10	16QAM	50	0	20.31	20.42	20.47	20.32	20.28		
10	64QAM	1	0	20.32	20.45	20.43	20.33	20.31	22	0
10	64QAM	1	25	20.33	20.45	20.43	20.34	20.32		
10	64QAM	1	49	20.34	20.42	20.46	20.31	20.32	22	0
10	64QAM	25	0	20.33	20.42	20.46	20.33	20.31		
10	64QAM	25	12	20.32	20.44	20.47	20.29	20.34	22	0
10	64QAM	25	25	20.32	20.43	20.47	20.34	20.31		
10	64QAM	50	0	20.34	20.42	20.44	20.34	20.33		
Channel				39675	40148	40620	41093	41565	Tune-up limit	MPR
Frequency (MHz)				2498.5	2543.3	2593	2638.0	2683.5	(dBm)	(dB)
5	QPSK	1	0	20.32	20.44	20.48	20.31	20.34	22	0
5	QPSK	1	12	20.36	20.46	20.46	20.33	20.32		
5	QPSK	1	24	20.32	20.44	20.46	20.35	20.33	22	0
5	QPSK	12	0	20.31	20.42	20.49	20.34	20.34		
5	QPSK	12	7	20.34	20.41	20.43	20.30	20.29	22	0
5	QPSK	12	13	20.36	20.42	20.47	20.32	20.29		
5	QPSK	25	0	20.34	20.42	20.43	20.34	20.33	22	0
5	16QAM	1	0	20.34	20.46	20.49	20.33	20.32		
5	16QAM	1	12	20.30	20.41	20.49	20.31	20.29	22	0
5	16QAM	1	24	20.30	20.45	20.45	20.31	20.28		
5	16QAM	12	0	20.31	20.43	20.47	20.34	20.29	22	0
5	16QAM	12	7	20.33	20.46	20.43	20.31	20.30		
5	16QAM	12	13	20.34	20.43	20.48	20.33	20.31	22	0
5	16QAM	25	0	20.31	20.44	20.48	20.32	20.33		
5	64QAM	1	0	20.34	20.43	20.49	20.33	20.29	22	0
5	64QAM	1	12	20.30	20.44	20.47	20.32	20.33		
5	64QAM	1	24	20.34	20.41	20.44	20.35	20.29	22	0
5	64QAM	12	0	20.32	20.42	20.44	20.34	20.33		
5	64QAM	12	7	20.32	20.43	20.45	20.31	20.32	22	0
5	64QAM	12	13	20.32	20.42	20.43	20.33	20.33		
5	64QAM	25	0	20.32	20.40	20.44	20.31	20.31		



ECI7 Power for WWAN Main PA

GSM850 Ant0 ECI7									
GSM850	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)	
	128	189	251		128	189	251		
TX Channel	824.2	836.4	848.8	30.50	824.2	836.4	848.8	21.50	
Frequency (MHz)	824.2	836.4	848.8	30.50	824.2	836.4	848.8	21.50	
GSM 1 Tx slot	29.32	29.27	29.13	30.50	20.32	20.27	20.13	21.50	
GPRS 1 Tx slot	29.26	29.27	29.17	30.50	20.26	20.27	20.17	21.50	
GPRS 2 Tx slots	28.21	28.37	28.20	29.50	22.21	22.37	22.20	23.50	
GPRS 3 Tx slots	28.37	28.53	28.53	27.50	22.11	22.27	22.27	23.24	
GPRS 4 Tx slots	25.34	25.43	25.20	26.50	22.34	22.43	22.20	23.50	
EDGE 1 Tx slot	26.32	26.43	26.41	27.50	17.32	17.43	17.41	18.50	
EDGE 2 Tx slots	25.16	25.10	25.31	26.00	19.16	19.10	19.31	20.00	
EDGE 3 Tx slots	22.88	22.91	22.89	24.00	18.62	18.65	18.63	19.74	
EDGE 4 Tx slots	21.38	21.49	21.52	22.50	18.38	18.49	18.52	19.50	

GSM1900 Ant0 ECI7									
GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)	
	512	681	810		512	681	810		
TX Channel	1850.2	1880	1909.8	23.00	1850.2	1880	1909.8	14.00	
Frequency (MHz)	1850.2	1880	1909.8	23.00	1850.2	1880	1909.8	14.00	
GSM 1 Tx slot	22.03	22.05	21.94	23.00	13.03	13.05	12.94	14.00	
GPRS 1 Tx slot	22.06	22.08	21.95	23.00	13.06	13.08	12.95	14.00	
GPRS 2 Tx slots	20.84	20.84	20.64	22.00	14.84	14.84	14.64	16.00	
GPRS 3 Tx slots	18.76	18.86	18.63	20.00	14.50	14.60	14.37	15.74	
GPRS 4 Tx slots	17.81	17.97	17.60	19.00	14.81	14.97	14.60	16.00	
EDGE 1 Tx slot	17.90	17.80	17.73	19.00	8.90	8.80	8.73	10.00	
EDGE 2 Tx slots	16.78	16.38	16.38	17.50	10.78	10.38	10.38	11.50	
EDGE 3 Tx slots	14.77	14.35	14.32	15.50	10.51	10.09	10.06	11.24	
EDGE 4 Tx slots	13.41	13.28	13.31	14.50	10.41	10.28	10.31	11.50	

Band	WCDMA II Ant0 ECI7				WCDMA IV Ant0 ECI7				WCDMA V Ant0 ECI7															
	9262	9400	9538	9662	9662	9800	9938	1852.4	1880	1907.6	1312	1413	1513	1537	1638	1738	4132	4182	4233	4357	4407	4458		
3GPP Rel 99	15.05	15.11	15.00	16.50	17.20	17.27	17.16	18.50	21.75	21.73	21.77	23.00	17.20	17.29	17.13	18.50	21.83	21.92	21.76	23.00	21.85	21.91	21.81	23.00
3GPP Rel 99	15.02	15.13	15.10	16.50	17.20	17.29	17.13	18.50	21.83	21.92	21.76	23.00	17.20	17.29	17.13	18.50	21.83	21.92	21.76	23.00	21.85	21.91	21.81	23.00
3GPP Rel 6	14.06	14.18	14.07	15.50	16.20	16.34	16.17	17.50	21.75	21.77	21.70	23.00	16.20	16.34	16.17	17.50	21.75	21.77	21.70	23.00	21.75	21.77	21.70	23.00
3GPP Rel 6	13.59	13.66	13.58	15.00	15.63	15.87	15.73	17.00	21.30	21.35	21.33	22.50	15.63	15.87	15.73	17.00	21.30	21.35	21.33	22.50	21.30	21.35	21.33	22.50
3GPP Rel 6	13.50	13.50	13.58	15.00	15.55	15.57	15.68	17.00	21.09	21.26	21.23	22.50	15.55	15.57	15.68	17.00	21.09	21.26	21.23	22.50	21.09	21.26	21.23	22.50
3GPP Rel 8	14.03	14.20	14.04	16.50	16.15	16.19	16.19	17.50	21.79	21.77	21.82	23.00	16.15	16.19	16.19	17.50	21.79	21.77	21.82	23.00	21.79	21.77	21.82	23.00
3GPP Rel 8	13.97	14.12	13.96	16.50	16.06	16.32	16.09	17.50	21.71	21.84	21.73	23.00	16.06	16.32	16.09	17.50	21.71	21.84	21.73	23.00	21.71	21.84	21.73	23.00
3GPP Rel 8	13.49	13.66	13.55	16.00	15.62	15.79	15.67	17.00	21.20	21.35	21.30	22.50	15.62	15.79	15.67	17.00	21.20	21.35	21.30	22.50	21.20	21.35	21.30	22.50
3GPP Rel 8	13.42	13.56	13.46	16.00	15.53	15.63	15.55	17.00	21.15	21.19	21.06	22.50	15.53	15.63	15.55	17.00	21.15	21.19	21.06	22.50	21.15	21.19	21.06	22.50
3GPP Rel 6	13.98	14.05	14.05	16.50	16.05	16.08	16.12	17.50	21.67	21.71	21.69	23.00	16.05	16.08	16.12	17.50	21.67	21.71	21.69	23.00	21.67	21.71	21.69	23.00
3GPP Rel 6	12.11	12.15	12.12	14.50	14.05	14.07	14.14	15.50	19.70	19.80	19.81	21.00	14.05	14.07	14.14	15.50	19.70	19.80	19.81	21.00	19.70	19.80	19.81	21.00
3GPP Rel 6	13.18	13.21	13.14	15.50	15.36	15.30	15.28	16.50	20.85	20.85	20.91	22.00	15.36	15.30	15.28	16.50	20.85	20.85	20.91	22.00	20.85	20.85	20.91	22.00
3GPP Rel 6	11.99	12.08	11.98	14.50	14.04	14.10	14.13	15.50	19.67	19.70	19.63	21.00	14.04	14.10	14.13	15.50	19.67	19.70	19.63	21.00	19.67	19.70	19.63	21.00
3GPP Rel 6	13.99	14.09	14.00	16.50	16.05	16.27	16.23	17.50	21.64	21.85	21.82	23.00	16.05	16.27	16.23	17.50	21.64	21.85	21.82	23.00	21.64	21.85	21.82	23.00
3GPP Rel 7	11.57	11.78	11.57	14.00	13.56	13.56	13.64	15.00	19.31	19.52	19.36	20.50	13.56	13.56	13.64	15.00	19.31	19.52	19.36	20.50	19.31	19.52	19.36	20.50



Band 26 Ant0 EC17

Band	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel: 28765, 28865, 28965								
Frequency (MHz): 821.5, 831.5, 841.5								
15	QPSK	1	0	22.65	22.80	22.74	24	0
15	QPSK	1	37	22.76	22.78	22.58		
15	QPSK	1	74	22.51	22.57	22.58		
15	QPSK	36	0	21.76	22.01	21.87		
15	QPSK	36	20	21.76	21.85	21.75	23	1
15	QPSK	36	39	21.76	21.76	21.74		
15	QPSK	75	0	21.76	21.95	21.91		
15	16QAM	1	0	21.66	21.86	21.73	23	1
15	16QAM	1	37	21.77	21.78	21.64		
15	16QAM	1	74	21.63	21.79	21.62		
15	16QAM	36	0	20.79	20.95	20.83	22	2
15	16QAM	36	20	20.77	20.82	20.72		
15	16QAM	36	39	20.72	20.87	20.73		
15	16QAM	75	0	20.70	20.82	20.78		
15	64QAM	1	0	20.80	21.04	20.79	22	2
15	64QAM	1	37	20.82	20.96	20.80		
15	64QAM	1	74	20.75	20.92	20.81		
15	64QAM	36	0	19.77	19.96	19.79	21	3
15	64QAM	36	20	19.70	19.83	19.59		
15	64QAM	36	39	19.69	19.77	19.83		
15	64QAM	75	0	19.67	19.66	19.75		
Channel: 26740, 26865, 26990								
Frequency (MHz): 819, 831.5, 844								
10	QPSK	1	0	22.55	22.72	22.66	24	0
10	QPSK	1	25	22.87	22.69	22.46		
10	QPSK	1	49	22.42	22.49	22.49		
10	QPSK	25	0	21.68	21.93	21.79		
10	QPSK	25	12	21.66	21.77	21.64	23	1
10	QPSK	25	25	21.66	21.66	21.65		
10	QPSK	50	0	21.67	21.87	21.82		
10	16QAM	1	0	21.56	21.77	21.63	23	1
10	16QAM	1	25	21.69	21.70	21.54		
10	16QAM	1	49	21.55	21.71	21.54		
10	16QAM	25	0	20.71	20.84	20.75	22	2
10	16QAM	25	12	20.68	20.74	20.62		
10	16QAM	25	25	20.62	20.77	20.65		
10	16QAM	50	0	20.60	20.73	20.70		
10	64QAM	1	0	20.71	20.95	20.70	22	2
10	64QAM	1	25	20.72	20.88	20.72		
10	64QAM	1	49	20.66	20.82	20.72		
10	64QAM	25	0	19.69	19.87	19.71	21	3
10	64QAM	25	12	19.62	19.74	19.49		
10	64QAM	25	25	19.60	19.69	19.73		
10	64QAM	50	0	19.59	19.56	19.65		
Channel: 26715, 26865, 27015								
Frequency (MHz): 816.5, 831.5, 846.5								
5	QPSK	1	0	22.56	22.72	22.66	24	0
5	QPSK	1	12	22.68	22.68	22.46		
5	QPSK	1	24	22.43	22.48	22.50		
5	QPSK	12	0	21.66	21.91	21.79		
5	QPSK	12	7	21.68	21.77	21.63	23	1
5	QPSK	12	13	21.67	21.67	21.64		
5	QPSK	25	0	21.67	21.85	21.83		
5	16QAM	1	0	21.58	21.78	21.63	23	1
5	16QAM	1	12	21.69	21.68	21.55		
5	16QAM	1	24	21.55	21.71	21.52		
5	16QAM	12	0	20.71	20.85	20.75	22	2
5	16QAM	12	7	20.69	20.72	20.62		
5	16QAM	12	13	20.64	20.78	20.63		
5	16QAM	25	0	20.61	20.73	20.70		
5	64QAM	1	0	20.72	20.95	20.71	22	2
5	64QAM	1	12	20.72	20.86	20.71		
5	64QAM	1	24	20.66	20.82	20.72		
5	64QAM	12	0	19.87	19.87	19.65	21	3
5	64QAM	12	7	19.80	19.75	19.50		
5	64QAM	12	13	19.61	19.67	19.75		
5	64QAM	25	0	19.59	19.56	19.67		
Channel: 26705, 26865, 27025								
Frequency (MHz): 815.5, 831.5, 847.5								
3	QPSK	1	0	22.55	22.72	22.65	24	0
3	QPSK	1	8	22.87	22.69	22.50		
3	QPSK	1	14	22.42	22.49	22.50		
3	QPSK	8	0	21.66	21.92	21.79		
3	QPSK	8	4	21.66	21.75	21.64	23	1
3	QPSK	8	7	21.68	21.66	21.66		
3	QPSK	15	0	21.66	21.86	21.81		
3	16QAM	1	0	21.56	21.77	21.65	23	1
3	16QAM	1	8	21.69	21.68	21.56		
3	16QAM	1	14	21.53	21.70	21.54		
3	16QAM	8	0	20.70	20.84	20.74	22	2
3	16QAM	8	4	20.67	20.74	20.64		
3	16QAM	8	7	20.62	20.79	20.63		
3	16QAM	15	0	20.61	20.72	20.69		
3	64QAM	1	0	20.71	20.94	20.71	22	2
3	64QAM	1	8	20.72	20.87	20.70		
3	64QAM	1	14	20.67	20.84	20.72		
3	64QAM	8	0	19.88	19.86	19.71	21	3
3	64QAM	8	4	19.62	19.74	19.49		
3	64QAM	8	7	19.61	19.69	19.75		
3	64QAM	15	0	19.59	19.57	19.67		
Channel: 26697, 26865, 27033								
Frequency (MHz): 814.7, 831.5, 848.3								
1.4	QPSK	1	0	22.55	22.72	22.66	24	0
1.4	QPSK	1	3	22.66	22.70	22.50		
1.4	QPSK	1	5	22.41	22.48	22.49		
1.4	QPSK	3	0	22.55	22.72	22.64		
1.4	QPSK	3	1	22.68	22.69	22.47	23	1
1.4	QPSK	3	3	22.38	22.45	22.48		
1.4	QPSK	6	0	21.68	21.86	21.83		
1.4	16QAM	1	0	21.58	21.76	21.64	23	1
1.4	16QAM	1	3	21.68	21.68	21.54		
1.4	16QAM	1	5	21.53	21.70	21.52		
1.4	16QAM	3	0	21.55	21.72	21.66	22	2
1.4	16QAM	3	1	21.66	21.69	21.50		
1.4	16QAM	3	3	21.44	21.49	21.46		
1.4	16QAM	6	0	20.60	20.73	20.70		
1.4	64QAM	1	0	20.70	20.96	20.71	22	2
1.4	64QAM	1	3	20.73	20.88	20.72		
1.4	64QAM	1	5	20.66	20.83	20.72		
1.4	64QAM	3	0	20.53	20.72	20.66	21	3
1.4	64QAM	3	1	20.67	20.71	20.48		
1.4	64QAM	3	3	20.43	20.49	20.49		
1.4	64QAM	6	0	19.58	19.58	19.65		



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	13.68	13.84	13.98	13.73	13.71	15	0
20	QPSK	1	49	13.69	13.84	13.84	13.72	13.69		
20	QPSK	1	99	13.73	13.82	13.89	13.73	13.71		
20	QPSK	50	0	13.73	13.85	13.86	13.76	13.68		
20	QPSK	50	24	13.73	13.82	13.82	13.73	13.70		
20	QPSK	50	50	13.71	13.82	13.82	13.73	13.70	15	0
20	QPSK	100	0	13.76	13.84	13.90	13.72	13.72		
20	16QAM	1	0	13.77	13.80	13.87	13.74	13.74		
20	16QAM	1	49	13.72	13.81	13.81	13.72	13.74	15	0
20	16QAM	1	99	13.76	13.81	13.83	13.68	13.74		
20	16QAM	50	0	13.71	13.81	13.81	13.74	13.70		
20	16QAM	50	24	13.72	13.83	13.86	13.72	13.71	15	0
20	16QAM	50	50	13.75	13.82	13.80	13.72	13.70		
20	16QAM	100	0	13.76	13.85	13.91	13.73	13.67		
20	64QAM	1	0	13.77	13.82	13.81	13.74	13.73		
20	64QAM	1	49	13.72	13.80	13.85	13.71	13.68	15	0
20	64QAM	1	99	13.75	13.78	13.89	13.67	13.71		
20	64QAM	50	0	13.74	13.88	13.83	13.76	13.73		
20	64QAM	50	24	13.76	13.85	13.86	13.68	13.70	15	0
20	64QAM	50	50	13.76	13.85	13.91	13.73	13.67		
20	64QAM	100	0	13.69	13.78	13.87	13.75	13.68		
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2546.3	2593	2637.8	2682.5		
15	QPSK	1	0	13.70	13.88	13.96	13.71	13.72	15	0
15	QPSK	1	37	13.72	13.85	13.85	13.67	13.68		
15	QPSK	1	74	13.74	13.86	13.85	13.72	13.71		
15	QPSK	36	0	13.73	13.82	13.90	13.72	13.68		
15	QPSK	36	20	13.71	13.78	13.82	13.73	13.68	15	0
15	QPSK	36	39	13.71	13.84	13.86	13.70	13.74		
15	QPSK	75	0	13.79	13.86	13.90	13.76	13.68		
15	16QAM	1	0	13.72	13.82	13.83	13.76	13.71		
15	16QAM	1	37	13.71	13.82	13.86	13.75	13.75	15	0
15	16QAM	1	74	13.79	13.79	13.83	13.68	13.73		
15	16QAM	36	0	13.69	13.80	13.82	13.74	13.71		
15	16QAM	36	20	13.72	13.87	13.90	13.69	13.70	15	0
15	16QAM	36	39	13.75	13.87	13.80	13.72	13.74		
15	16QAM	75	0	13.74	13.82	13.87	13.72	13.75		
15	64QAM	1	0	13.76	13.85	13.85	13.73	13.70		
15	64QAM	1	37	13.74	13.83	13.86	13.72	13.67	15	0
15	64QAM	1	74	13.74	13.80	13.91	13.69	13.74		
15	64QAM	36	0	13.74	13.84	13.84	13.74	13.69		
15	64QAM	36	20	13.75	13.85	13.88	13.70	13.71	15	0
15	64QAM	36	39	13.74	13.83	13.88	13.69	13.67		
15	64QAM	75	0	13.69	13.83	13.89	13.71	13.70		
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	13.68	13.89	13.94	13.68	13.67	15	0
10	QPSK	1	25	13.67	13.85	13.83	13.68	13.68		
10	QPSK	1	49	13.72	13.82	13.88	13.72	13.71		
10	QPSK	25	0	13.72	13.82	13.90	13.76	13.68		
10	QPSK	25	12	13.74	13.80	13.88	13.74	13.72	15	0
10	QPSK	25	25	13.70	13.82	13.83	13.74	13.71		
10	QPSK	50	0	13.77	13.86	13.98	13.72	13.69		
10	16QAM	1	0	13.72	13.82	13.85	13.72	13.72		
10	16QAM	1	25	13.68	13.80	13.86	13.70	13.72	15	0
10	16QAM	1	49	13.79	13.83	13.88	13.69	13.72		
10	16QAM	25	0	13.74	13.84	13.85	13.70	13.74		
10	16QAM	25	12	13.72	13.87	13.86	13.71	13.73	15	0
10	16QAM	25	25	13.74	13.86	13.85	13.74	13.71		
10	16QAM	50	0	13.74	13.83	13.89	13.69	13.74		
10	64QAM	1	0	13.73	13.85	13.83	13.77	13.71		
10	64QAM	1	25	13.73	13.79	13.87	13.72	13.69	15	0
10	64QAM	1	49	13.76	13.82	13.87	13.69	13.72		
10	64QAM	25	0	13.75	13.86	13.86	13.75	13.70		
10	64QAM	25	12	13.76	13.87	13.87	13.72	13.72	15	0
10	64QAM	25	25	13.73	13.84	13.90	13.74	13.68		
10	64QAM	50	0	13.73	13.78	13.87	13.74	13.71		
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2498.5	2545.5	2593	2640.80	2687.5		
5	QPSK	1	0	13.68	13.84	13.92	13.72	13.70	15	0
5	QPSK	1	12	13.67	13.86	13.82	13.70	13.67		
5	QPSK	1	24	13.73	13.85	13.87	13.71	13.71		
5	QPSK	12	0	13.71	13.85	13.87	13.74	13.71		
5	QPSK	12	7	13.74	13.80	13.86	13.73	13.68	15	0
5	QPSK	12	13	13.75	13.85	13.82	13.70	13.70		
5	QPSK	25	0	13.76	13.87	13.87	13.72	13.70		
5	16QAM	1	0	13.78	13.81	13.89	13.77	13.73		
5	16QAM	1	12	13.69	13.78	13.86	13.73	13.73	15	0
5	16QAM	1	24	13.75	13.84	13.87	13.67	13.69		
5	16QAM	12	0	13.70	13.80	13.85	13.74	13.70		
5	16QAM	12	7	13.74	13.86	13.89	13.71	13.69	15	0
5	16QAM	12	13	13.76	13.83	13.81	13.72	13.68		
5	16QAM	25	0	13.75	13.78	13.86	13.69	13.69		
5	64QAM	1	0	13.73	13.84	13.84	13.76	13.74		
5	64QAM	1	12	13.74	13.80	13.86	13.74	13.68	15	0
5	64QAM	1	24	13.74	13.82	13.87	13.68	13.72		
5	64QAM	12	0	13.73	13.83	13.84	13.71	13.70		
5	64QAM	12	7	13.73	13.87	13.83	13.69	13.72	15	0
5	64QAM	12	13	13.77	13.87	13.86	13.71	13.70		
5	64QAM	25	0	13.72	13.83	13.88	13.72	13.71		



ECI6 Power for WWAN Other PA

Table for Band 2 Ant0 NSA ECI6. Columns include BW (MHz), Modulation, RB Size, RB Offset, Power Low/Middle/High (Ch./F/cps), Tune-up limit (dBm), and MPR (dB). Data is organized into multiple channel frequency blocks.

Table for Band 4 Ant0 NSA ECI6. Columns include BW (MHz), Modulation, RB Size, RB Offset, Power Low/Middle/High (Ch./F/cps), Tune-up limit (dBm), and MPR (dB). Data is organized into multiple channel frequency blocks.



ECI7 Power for WWAN Other PA

Band 2 Ant0 NSA ECI7									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./Freq. [MHz]	Power Middle Ch./Freq. [MHz]	Power High Ch./Freq. [MHz]	Tune-up limit [dBm]	MPR [dB]	
Channel									
Frequency (MHz)									
20	QPSK	1	0	15.10	15.35	15.03	15.5	0	
20	QPSK	1	49	15.15	15.24	15.03			
20	QPSK	1	99	15.11	15.23	15.06			
20	QPSK	50	0	15.14	15.28	15.04	15.5	0	
20	QPSK	50	24	15.14	15.24	15.04			
20	QPSK	50	50	15.15	15.27	15.04			
20	QPSK	100	0	15.15	15.24	15.01	15.5	0	
20	16QAM	1	0	15.13	15.28	15.03			
20	16QAM	1	49	15.11	15.26	15.01			
20	16QAM	1	99	15.15	15.27	15.05	15.5	0	
20	16QAM	50	0	15.13	15.24	15.03			
20	16QAM	50	24	15.10	15.25	15.04			
20	16QAM	50	50	15.16	15.27	15.01	15.5	0	
20	16QAM	100	0	15.15	15.28	15.04			
20	64QAM	1	0	15.16	15.28	15.01			
20	64QAM	1	49	15.11	15.28	15.04	15.5	0	
20	64QAM	1	99	15.14	15.29	15.01			
20	64QAM	50	0	15.16	15.25	15.05			
20	64QAM	50	24	15.11	15.28	15.01	15.5	0	
20	64QAM	50	50	15.11	15.29	15.03			
20	64QAM	100	0	15.11	15.26	15.02			
Channel									
Frequency (MHz)									
15	QPSK	1	0	15.13	15.26	15.05	15.5	0	
15	QPSK	1	37	15.14	15.25	15.01			
15	QPSK	1	74	15.16	15.24	15.01			
15	QPSK	36	0	15.10	15.26	15.01	15.5	0	
15	QPSK	36	20	15.15	15.29	15.01			
15	QPSK	36	39	15.11	15.27	15.04			
15	QPSK	75	0	15.14	15.28	15.03	15.5	0	
15	16QAM	1	0	15.14	15.25	15.02			
15	16QAM	1	37	15.14	15.24	15.05			
15	16QAM	1	74	15.12	15.28	15.05	15.5	0	
15	16QAM	36	0	15.11	15.27	15.04			
15	16QAM	36	20	15.16	15.29	15.03			
15	16QAM	75	0	15.12	15.26	15.02	15.5	0	
15	16QAM	75	0	15.13	15.26	15.04			
15	64QAM	1	0	15.16	15.24	15.03			
15	64QAM	1	37	15.15	15.23	15.03	15.5	0	
15	64QAM	1	74	15.15	15.27	15.05			
15	64QAM	36	0	15.12	15.28	15.03			
15	64QAM	36	20	15.16	15.27	15.01	15.5	0	
15	64QAM	36	39	15.13	15.27	15.00			
15	64QAM	75	0	15.11	15.23	15.05			
Channel									
Frequency (MHz)									
10	QPSK	1	0	15.15	15.28	15.06	15.5	0	
10	QPSK	1	25	15.11	15.26	15.05			
10	QPSK	1	49	15.12	15.29	15.00			
10	QPSK	25	0	15.16	15.27	15.06	15.5	0	
10	QPSK	25	12	15.15	15.23	15.01			
10	QPSK	25	25	15.16	15.27	15.06			
10	QPSK	50	0	15.13	15.26	15.01	15.5	0	
10	16QAM	1	0	15.15	15.24	15.01			
10	16QAM	1	25	15.13	15.27	15.02			
10	16QAM	1	49	15.12	15.26	15.04	15.5	0	
10	16QAM	25	0	15.12	15.27	15.01			
10	16QAM	25	12	15.15	15.23	15.01			
10	16QAM	25	25	15.11	15.29	15.05	15.5	0	
10	16QAM	50	0	15.15	15.25	15.05			
10	64QAM	1	0	15.13	15.29	15.02			
10	64QAM	1	25	15.16	15.25	15.05	15.5	0	
10	64QAM	1	49	15.14	15.29	15.02			
10	64QAM	25	0	15.14	15.24	15.04			
10	64QAM	25	12	15.10	15.28	15.01	15.5	0	
10	64QAM	25	25	15.16	15.28	15.05			
10	64QAM	50	0	15.11	15.23	15.05			
Channel									
Frequency (MHz)									
5	QPSK	1	0	15.14	15.24	15.04	15.5	0	
5	QPSK	1	12	15.16	15.26	15.04			
5	QPSK	1	24	15.11	15.25	15.00			
5	QPSK	12	0	15.11	15.25	15.03	15.5	0	
5	QPSK	12	7	15.11	15.26	15.02			
5	QPSK	12	13	15.15	15.29	15.00			
5	QPSK	25	0	15.11	15.29	15.05	15.5	0	
5	16QAM	1	0	15.11	15.24	15.04			
5	16QAM	1	12	15.15	15.27	15.03			
5	16QAM	1	24	15.16	15.26	15.05	15.5	0	
5	16QAM	12	0	15.16	15.23	15.03			
5	16QAM	12	7	15.15	15.29	15.02			
5	16QAM	12	13	15.10	15.27	15.01	15.5	0	
5	16QAM	25	0	15.13	15.29	15.05			
5	64QAM	1	0	15.16	15.28	15.00			
5	64QAM	1	12	15.14	15.25	15.01	15.5	0	
5	64QAM	1	24	15.11	15.23	15.02			
5	64QAM	12	0	15.16	15.24	15.04			
5	64QAM	12	7	15.14	15.28	15.05	15.5	0	
5	64QAM	12	13	15.13	15.24	15.02			
5	64QAM	25	0	15.13	15.24	15.02			
5	64QAM	25	13	15.15	15.24	15.02	15.5	0	
5	64QAM	25	0	15.13	15.25	15.00			
5	64QAM	50	0	15.11	15.23	15.04			
Channel									
Frequency (MHz)									
3	QPSK	1	0	15.13	15.25	15.02	15.5	0	
3	QPSK	1	8	15.16	15.27	15.02			
3	QPSK	1	14	15.12	15.26	15.02			
3	QPSK	8	0	15.15	15.24	15.04	15.5	0	
3	QPSK	8	4	15.14	15.25	15.02			
3	QPSK	8	7	15.11	15.24	15.04			
3	QPSK	15	0	15.10	15.26	15.05	15.5	0	
3	16QAM	1	0	15.12	15.25	15.04			
3	16QAM	1	8	15.11	15.23	15.03			
3	16QAM	1	14	15.11	15.28	15.01	15.5	0	
3	16QAM	8	0	15.14	15.27	15.00			
3	16QAM	8	4	15.14	15.27	15.02			
3	16QAM	8	7	15.11	15.27	15.06	15.5	0	
3	16QAM	15	0	15.12	15.29	15.04			
3	64QAM	1	0	15.15	15.26	15.05			
3	64QAM	1	8	15.16	15.28	15.05	15.5	0	
3	64QAM	1	14	15.13	15.28	15.05			
3	64QAM	8	0	15.11	15.24	15.03			
3	64QAM	8	4	15.11	15.24	15.04	15.5	0	
3	64QAM	8	7	15.12	15.25	15.00			
3	64QAM	15	0	15.10	15.25	15.04			
Channel									
Frequency (MHz)									
1.4	QPSK	1	0	15.15	15.26	15.03	15.5	0	
1.4	QPSK	1	3	15.16	15.28	15.06			
1.4	QPSK	1	5	15.14	15.28	15.02			
1.4	QPSK	3	0	15.13	15.29	15.03	15.5	0	
1.4	QPSK	3	1	15.11	15.26	15.02			
1.4	QPSK	3	3	15.16	15.23	15.01			
1.4	QPSK	6	0	15.11	15.29	15.05	15.5	0	
1.4	16QAM	1	0	15.12	15.27	15.06			
1.4	16QAM	1	3	15.15	15.27	15.02			
1.4	16QAM	1	5	15.12	15.28	15.06	15.5	0	
1.4	16QAM	3	0	15.13	15.27	15.03			
1.4	16QAM	3	1	15.11	15.24	15.02			
1.4	16QAM	3	3	15.12	15.26	15.00	15.5	0	
1.4	16QAM	6	0	15.15	15.27	15.00			
1.4	64QAM	1	0	15.14	15.26	15.04			
1.4	64QAM	1	3	15.15	15.28	15.00	15.5	0	
1.4	64QAM	1	5	15.10	15.29	15.04			
1.4	64QAM	3	0	15.11	15.26	15.05			
1.4	64QAM	3	1	15.12	15.24	15.02	15.5	0	
1.4	64QAM	3	3	15.13	15.26	15.00			
1.4	64QAM	6	0	15.10	15.25	15.06			

Band 4 Ant0 NSA ECI7									
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch./Freq. [MHz]	Power Middle Ch./Freq. [MHz]	Power High Ch./Freq. [MHz]	Tune-up limit [dBm]	MPR [dB]	
Channel									
Frequency (MHz)									
20	QPSK	1	0	16.68	16.99	16.76	17.5	0	
20	QPSK	1	49	16.71	16.93	16.80			
20	QPSK	1	99	16.74	16.94	16.81			
20	QPSK	50	0	16.69	16.96	16.82	17.5	0	
20	QPSK	50	24	16.72	16.97	16.80			
20	QPSK	50	50	16.71	16.97	16.79			
20	QPSK	100	0	16.69	16.97	16.78	17.5	0	
20	16QAM	1	0	16.74	16.93	16.76			
20	16QAM	1	49	16.72	16.93	16.79			
20	16QAM	1	99	16.72	16.95	16.81	17.5	0	
20	16QAM	50	0	16.69	16.96	16.78			
20	16QAM	50	24	16.70	16.93	16.81			
20									



2CA DL

CA List	PCC								SCC				Power			
	LTE	BW	BW	UL	UL	UL#	UL	DL Antenna	LTE	BW	DL	DL	DL Antenna	With CA	Without CA	
	Band	Ant	(MHz)	Freq. Channel	Mod.	RB	RB Offset	Configuration	Band	(MHz)	Freq. Channel	Configuration	Tx. Power (dBm)	Tx. Power (dBm)		
CA_41A-42A	Band 41	Ant4	20M	2590	49820	QPSK	1	0	4X4 MIMO	Band 42	20M	3500	42590	4X4 MIMO	22.85	22.73
	Band 42	Ant5	20M	3500	42590	QPSK	1	0	4X4 MIMO	Band 41	20M	2590	40620	4X4 MIMO	22.93	22.45



3CA DL

3CA List	PCC								SCC1				SCC2			Power					
	LTE	BW	BW	UL	UL	UL#	UL	DL Antenna	LTE	BW	DL	DL	DL Antenna	LTE	BW	DL	DL	DL Antenna	With CA	Without CA	
	Band	Ant	(MHz)	Freq. Channel	Mod.	RB	RB Offset	Configuration	Band	(MHz)	Freq. Channel	DL Antenna Configuration	Band	(MHz)	Freq. Channel	DL Antenna Configuration	Tx. Power (dBm)	Tx. Power (dBm)			
CA_41A-42C	Band 41	Ax44	20M	2593	40620	QPSK	1	0	4X4 MIMO	Band 42	20M	3500	42590	4X4 MIMO	Band 42	20M	3519.8	42788	4X4 MIMO	22.85	22.80
	Band 42	Ax45	20M	3500	42590	QPSK	1	0	4X4 MIMO	Band 42	20M	3519.8	42788	4X4 MIMO	Band 41	20M	2593	40620	4X4 MIMO	22.33	22.53
CA_41C-42A	Band 41	Ax44	20M	2593	40620	QPSK	1	0	4X4 MIMO	Band 41	20M	2612.8	40818	4X4 MIMO	Band 42	20M	3500	42590	4X4 MIMO	22.85	22.81
	Band 42	Ax45	20M	3500	42590	QPSK	1	0	4X4 MIMO	Band 41	20M	2593	40620	4X4 MIMO	Band 41	20M	2612.8	40818	4X4 MIMO	22.33	22.47
CA_42D	Band 42	Ax45	20M	3500	42590	QPSK	1	0	4X4 MIMO	Band 42	20M	3519.8	42788	4X4 MIMO	Band 42	20M	3539.6	42986	4X4 MIMO	22.33	22.46

Uplink CA Power

CA_41C Ant4 Default								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	22.15	24.00
40620	40818	QPSK	1	99	1	0	22.29	24.00
41490	41292	QPSK	1	0	1	99	22.18	24.00

CA_41C Ant4 HPUE Default								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	25.11	27.00
40620	40818	QPSK	1	99	1	0	25.21	27.00
41490	41292	QPSK	1	0	1	99	25.09	27.00

CA_42C Ant5 Default								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
42190	42388	QPSK	1	99	1	0	22.05	24.00
42590	42788	QPSK	1	99	1	0	22.11	24.00
42990	42792	QPSK	1	0	1	99	22.08	24.00



Uplink CA Power

CA_41C Ant4 ECI2								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	14.51	16.00
40620	40818	QPSK	1	99	1	0	14.64	16.00
41490	41292	QPSK	1	0	1	99	14.45	16.00

CA_41C Ant4 HPUE ECI2								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	17.37	19.00
40620	40818	QPSK	1	99	1	0	17.43	19.00
41490	41292	QPSK	1	0	1	99	17.27	19.00

CA_42C Ant5 ECI2&3								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
42190	42388	QPSK	1	99	1	0	15.68	17.50
42990	42788	QPSK	1	99	1	0	15.79	17.50
42990	42792	QPSK	1	0	1	99	15.61	17.50

CA_41C Ant4 ECI3								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	15.89	17.50
40620	40818	QPSK	1	99	1	0	16.28	17.50
41490	41292	QPSK	1	0	1	99	16.11	17.50

CA_41C Ant4 HPUE ECI3								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	18.64	20.50
40620	40818	QPSK	1	99	1	0	19.03	20.50
41490	41292	QPSK	1	0	1	99	18.85	20.50

CA_41C Ant4 ECI6								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	17.31	19.00
40620	40818	QPSK	1	99	1	0	17.66	19.00
41490	41292	QPSK	1	0	1	99	17.52	19.00

CA_41C Ant4 HPUE ECI6								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	20.22	22.00
40620	40818	QPSK	1	99	1	0	20.48	22.00
41490	41292	QPSK	1	0	1	99	20.27	22.00

CA_42C Ant5 ECI6								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
42190	42388	QPSK	1	99	1	0	19.67	21.50
42990	42788	QPSK	1	99	1	0	19.66	21.50
42990	42792	QPSK	1	0	1	99	19.56	21.50

CA_41C Ant4 EC17								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	10.87	12.00
40620	40818	QPSK	1	99	1	0	11.29	12.00
41490	41292	QPSK	1	0	1	99	11.05	12.00

CA_41C Ant4 HPUE EC17								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
39750	39948	QPSK	1	99	1	0	13.5	15.00
40620	40818	QPSK	1	99	1	0	13.88	15.00
41490	41292	QPSK	1	0	1	99	13.58	15.00

CA_42C Ant5 EC17								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Measured Power (dBm)	Tune up Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
42190	42388	QPSK	1	99	1	0	14.25	16.00
42590	42788	QPSK	1	99	1	0	14.26	16.00
42990	42792	QPSK	1	0	1	99	14.2	16.00



Default Power for FR1 Main PA

n41 Ant 4 Default										
BW (MHz)	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
100	PI2 BPSK	1	1	2548.01	2592.99	2640	23.0	0.0		
100	PI2 BPSK	1	137	2171	2173	2167				
100	PI2 BPSK	1	271	2168	2175	2170				
100	PI2 BPSK	135	0	2172	2171	2161	22.5	0.5		
100	PI2 BPSK	135	69	2120	2125	2117				
100	PI2 BPSK	135	135	2138	2184	2185				
100	PI2 BPSK	270	0	2131	2131	2124	23.0	0.0		
100	PI2 BPSK	270	0	2125	2135	2116				
100	GPSK	1	1	2175	2178	2173				
100	GPSK	1	137	2162	2173	2169	22.0	1.0		
100	GPSK	1	271	2159	2174	2159				
100	GPSK	135	0	2068	2082	2070				
100	GPSK	135	69	2183	2177	2185	23.0	0.0		
100	GPSK	135	135	2071	2088	2065				
100	GPSK	270	0	2080	2076	2077				
100	16QAM	1	1	2075	2076	2079	22.0	1.0		
100	16QAM	1	1	1922	1930	1914				
100	256QAM	1	1	1795	1805	1783				
100	256QAM	1	1	1795	1805	1783	18.5	4.5		
Channel										
Frequency (MHz)										
90	PI2 BPSK	1	1	508200	518998	528998	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
80	PI2 BPSK	1	1	5241	2592.92	2641.98	23.0	0.0		
Channel										
Frequency (MHz)										
80	PI2 BPSK	1	1	2155	2174	2152	23.0	0.0		
Channel										
Frequency (MHz)										
70	PI2 BPSK	1	1	508202	518998	531000	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
70	PI2 BPSK	1	1	2102	2161	2184	23.0	0.0		
Channel										
Frequency (MHz)										
60	PI2 BPSK	1	1	2536.02	2592.99	2659.98	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
60	PI2 BPSK	1	1	2155	2159	2155	23.0	0.0		
Channel										
Frequency (MHz)										
50	PI2 BPSK	1	1	504004	518998	530998	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
50	PI2 BPSK	1	1	2172	2174	2170	23.0	0.0		
Channel										
Frequency (MHz)										
40	PI2 BPSK	1	1	503202	518998	534000	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
40	PI2 BPSK	1	1	2109	2163	2156	23.0	0.0		
Channel										
Frequency (MHz)										
30	PI2 BPSK	1	1	502200	518998	534998	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
30	PI2 BPSK	1	1	2511	2592.92	2674.98	23.0	0.0		
Channel										
Frequency (MHz)										
30	PI2 BPSK	1	1	2108	2166	2155	23.0	0.0		
Channel										
Frequency (MHz)										
20	PI2 BPSK	1	1	501204	518998	536998	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
20	PI2 BPSK	1	1	2536.02	2592.99	2679.98	23.0	0.0		
Channel										
Frequency (MHz)										
15	PI2 BPSK	1	1	500700	518998	536498	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
15	PI2 BPSK	1	1	2503.5	2592.99	2662.48	23.0	0.0		
Channel										
Frequency (MHz)										
10	PI2 BPSK	1	1	2171	2177	2154	23.0	0.0		
Channel										
Frequency (MHz)										
10	PI2 BPSK	1	1	2168	2172	2169	23.0	0.0		
Channel										
Frequency (MHz)										
10	PI2 BPSK	1	1	2501.01	2592.98	2685	Tune-up limit (dBm)	MPR (dB)		
Channel										
Frequency (MHz)										
10	PI2 BPSK	1	1	2172	2181	2189	23.0	0.0		



Part270 n77 Ant 2 Default

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	66200		
Frequency (MHz)				3750	3840	3930		
100	PI2 BPSK	1	1	19.22	19.43	19.34		
100	PI2 BPSK	1	197	19.22	19.37	19.28	21.0	0.0
100	PI2 BPSK	1	271	19.26	19.38	19.23		
100	PI2 BPSK	135	0	18.82	18.10	18.80	20.5	0.5
100	PI2 BPSK	135	69	19.26	19.43	19.23	21.0	0.0
100	PI2 BPSK	135	138	18.92	19.11	18.87		
100	PI2 BPSK	270	0	18.88	18.88	18.85	20.5	0.5
100	GPSK	1	1	19.43	19.49	19.41		
100	GPSK	1	137	19.37	19.42	19.38	21.0	0.0
100	GPSK	1	271	19.37	19.47	19.41		
100	GPSK	135	0	18.38	18.57	18.52	20.0	1.0
100	GPSK	135	69	19.41	19.39	19.27	21.0	0.0
100	GPSK	135	138	18.39	18.31	18.29		
100	GPSK	270	0	18.23	18.46	18.35	20.5	1.0
100	16QAM	1	1	18.17	18.19	18.12	20.0	1.0
100	64QAM	1	1	18.79	18.79	18.72	18.5	2.5
100	256QAM	1	1	15.25	15.38	15.17	16.5	4.5
Channel				68868	65000	66332	Tune-up limit	MPR
Frequency (MHz)				3745.02	3840	3934.98	(dBm)	(dB)
90	PI2 BPSK	1	1	19.27	19.43	19.39	21.0	0.0
Channel				68934	65000	66268	Tune-up limit	MPR
Frequency (MHz)				3740.01	3840	3930.99	(dBm)	(dB)
80	PI2 BPSK	1	1	19.41	19.42	19.29	21.0	0.0
Channel				68900	65000	66300	Tune-up limit	MPR
Frequency (MHz)				3745	3840	3945	(dBm)	(dB)
70	PI2 BPSK	1	1	19.37	19.33	19.25	21.0	0.0
Channel				68868	65000	66332	Tune-up limit	MPR
Frequency (MHz)				3730.02	3840	3940.98	(dBm)	(dB)
60	PI2 BPSK	1	1	19.33	19.33	19.25	21.0	0.0
Channel				64834	65000	66366	Tune-up limit	MPR
Frequency (MHz)				3725.01	3840	3934.99	(dBm)	(dB)
50	PI2 BPSK	1	1	19.37	19.35	19.33	21.0	0.0
Channel				64800	65000	66400	Tune-up limit	MPR
Frequency (MHz)				3720	3840	3930	(dBm)	(dB)
40	PI2 BPSK	1	1	19.37	19.46	19.38	21.0	0.0
Channel				64768	65000	66432	Tune-up limit	MPR
Frequency (MHz)				3715.02	3840.00	3934.98	(dBm)	(dB)
30	PI2 BPSK	1	1	19.24	19.32	19.29	21.0	0.0
Channel				64734	65000	66466	Tune-up limit	MPR
Frequency (MHz)				3710.01	3840	3929.99	(dBm)	(dB)
20	PI2 BPSK	1	1	19.29	19.43	19.24	21.0	0.0
Channel				64718	65000	66452	Tune-up limit	MPR
Frequency (MHz)				3709.02	3840	3927.99	(dBm)	(dB)
15	PI2 BPSK	1	1	19.23	19.42	19.24	21.0	0.0
Channel				64700	65000	66500	Tune-up limit	MPR
Frequency (MHz)				3705	3840	3925	(dBm)	(dB)
10	PI2 BPSK	1	1	19.33	19.40	19.35	21.0	0.0



Part270 n78 Ant 2 Default

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	Pl2 BPSK	1	1		850000			
100	Pl2 BPSK	1	137		19.46			
100	Pl2 BPSK	1	271		19.27		21.0	0.0
100	Pl2 BPSK	135	0		18.92		20.5	0.5
100	Pl2 BPSK	135	68		18.35		21.0	0.0
100	Pl2 BPSK	135	138		18.86		20.5	0.5
100	Pl2 BPSK	270	0		18.98			
100	QPSK	1	1		18.48			
100	QPSK	1	137		19.28		21.0	0.0
100	QPSK	1	271		19.48			
100	QPSK	135	0		19.45		20.5	1.0
100	QPSK	135	68		19.42		21.0	0.0
100	QPSK	135	138		19.32		20.5	1.0
100	QPSK	270	0		18.37			
100	16QAM	1	1		18.17		20.0	1.0
100	64QAM	1	1		18.79		18.5	2.5
100	256QAM	1	1		15.48		18.5	4.5
Channel								
Frequency (MHz)								
80	Pl2 BPSK	1	1	649868	650000	650332	Tune-up limit (dBm)	MPR (dB)
				3745.02	3750	3754.98		
Channel								
Frequency (MHz)								
80	Pl2 BPSK	1	1	649334	650000	650666	Tune-up limit (dBm)	MPR (dB)
				3740.01	3750	3759.99		
Channel								
Frequency (MHz)								
80	Pl2 BPSK	1	1	649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
				3735	3750	3765		
Channel								
Frequency (MHz)								
70	Pl2 BPSK	1	1	648668	650000	651332	Tune-up limit (dBm)	MPR (dB)
				3730.02	3750	3769.98		
Channel								
Frequency (MHz)								
60	Pl2 BPSK	1	1	648334	650000	651666	Tune-up limit (dBm)	MPR (dB)
				3725.01	3750	3774.99		
Channel								
Frequency (MHz)								
50	Pl2 BPSK	1	1	648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
				3720	3750	3780		
Channel								
Frequency (MHz)								
40	Pl2 BPSK	1	1	647668	650000	652332	Tune-up limit (dBm)	MPR (dB)
				3715.02	3750	3784.98		
Channel								
Frequency (MHz)								
30	Pl2 BPSK	1	1	647334	650000	652666	Tune-up limit (dBm)	MPR (dB)
				3710.01	3750	3789.99		
Channel								
Frequency (MHz)								
20	Pl2 BPSK	1	1	647000	650000	653000	Tune-up limit (dBm)	MPR (dB)
				3705	3750	3795		
Channel								
Frequency (MHz)								
15	Pl2 BPSK	1	1	647000	650000	653000	Tune-up limit (dBm)	MPR (dB)
				3705	3750	3795		
Channel								
Frequency (MHz)								
10	Pl2 BPSK	1	1	647000	650000	653000	Tune-up limit (dBm)	MPR (dB)
				3705	3750	3795		



Part270 n77 Ant 1 Default

BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				650000	650000	662000		
Frequency (MHz)				3790	3840	3900		
100	PI/2 BPSK	1	1	18.35	18.53	18.53		
100	PI/2 BPSK	1	137	18.46	18.50	18.31	20.0	0.0
100	PI/2 BPSK	1	221	18.54	18.60	18.57		
100	PI/2 BPSK	135	0	17.98	18.06	17.88	19.5	0.5
100	PI/2 BPSK	135	69	18.41	18.58	18.52	20.0	0.0
100	PI/2 BPSK	135	138	18.21	18.18	18.16		
100	PI/2 BPSK	270	0	18.22	18.24	18.28	19.5	0.5
100	QPSK	1	1	18.49	18.79	18.85		
100	QPSK	1	137	18.50	18.60	18.58	20.0	0.0
100	QPSK	1	271	18.57	18.55	18.57		
100	QPSK	135	0	18.56	18.67	18.55	19.5	1.0
100	QPSK	135	69	18.44	18.50	18.48	20.0	0.0
100	QPSK	135	138	18.41	18.58	18.38	19.5	1.0
100	QPSK	270	0	17.78	17.82	17.55		
100	16QAM	1	1	17.33	17.36	17.31	19.0	1.0
100	64QAM	1	1	15.82	15.96	15.83	17.5	2.5
100	256QAM	1	1	14.30	14.51	14.50	15.5	4.5
Channel				662000	662000	662332	Tune-up limit	MPR
Frequency (MHz)				3745.02	3840	3934.98	(dBm)	(dB)
90	PI/2 BPSK	1	1	18.22	18.21	18.18	20.0	0.0
Channel				68334	68300	68268	Tune-up limit	MPR
Frequency (MHz)				3740.01	3840	3939.99	(dBm)	(dB)
80	PI/2 BPSK	1	1	18.22	18.23	18.24	20.0	0.0
Channel				68900	68900	68300	Tune-up limit	MPR
Frequency (MHz)				3735	3840	3945	(dBm)	(dB)
70	PI/2 BPSK	1	1	18.46	18.51	18.50	20.0	0.0
Channel				68968	68900	68332	Tune-up limit	MPR
Frequency (MHz)				3730.02	3840	3949.98	(dBm)	(dB)
60	PI/2 BPSK	1	1	18.02	18.14	18.15	20.0	0.0
Channel				68834	68900	68368	Tune-up limit	MPR
Frequency (MHz)				3725.01	3840	3954.99	(dBm)	(dB)
50	PI/2 BPSK	1	1	18.52	18.59	18.57	20.0	0.0
Channel				68800	68900	68400	Tune-up limit	MPR
Frequency (MHz)				3720	3840	3960	(dBm)	(dB)
40	PI/2 BPSK	1	1	18.52	18.54	18.59	20.0	0.0
Channel				68768	68900	68432	Tune-up limit	MPR
Frequency (MHz)				3715.02	3840.00	3964.98	(dBm)	(dB)
30	PI/2 BPSK	1	1	18.02	18.14	18.15	20.0	0.0
Channel				64734	68900	68468	Tune-up limit	MPR
Frequency (MHz)				3710.01	3840	3969.99	(dBm)	(dB)
20	PI/2 BPSK	1	1	18.51	18.70	18.62	20.0	0.0
Channel				64768	68900	68432	Tune-up limit	MPR
Frequency (MHz)				3707.52	3840	3972.48	(dBm)	(dB)
15	PI/2 BPSK	1	1	18.52	18.69	18.58	20.0	0.0
Channel				64700	68900	68500	Tune-up limit	MPR
Frequency (MHz)				3705	3840	3975	(dBm)	(dB)
10	PI/2 BPSK	1	1	18.59	18.65	18.55	20.0	0.0



Part270 n78 Ant 1 Default

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel					650000				
Frequency (MHz)					3750				
100	PI2 BPSK	1	1		18.36				
100	PI2 BPSK	1	137		18.24		20.0	0.0	
100	PI2 BPSK	1	271		18.35				
100	PI2 BPSK	135	0		17.90		19.5	0.5	
100	PI2 BPSK	135	69		18.41		20.0	0.0	
100	PI2 BPSK	135	138		17.86				
100	PI2 BPSK	270	0		17.81		19.5	0.5	
100	QPSK	1	1		18.42				
100	QPSK	1	137		18.36				
100	QPSK	1	271		18.37		20.0	0.0	
100	QPSK	135	0		17.22		19.0	1.0	
100	QPSK	135	69		18.32		20.0	0.0	
100	QPSK	135	138		17.24				
100	QPSK	270	0		17.31		19.0	1.0	
100	16QAM	1	1		17.24		19.0	1.0	
100	64QAM	1	1		15.79		17.5	2.5	
100	256QAM	1	1		14.49		15.5	4.5	
Channel				649884	650000	650332	Tune-up limit	MPR	
Frequency (MHz)				3745.02	3750	3754.98	(dBm)	(dB)	
90	PI2 BPSK	1	1		18.35	18.39	18.22	20.0	0.0
Channel				648334	650000	650666	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3750	3759.99	(dBm)	(dB)	
80	PI2 BPSK	1	1		18.22	18.30	18.04	20.0	0.0
Channel				648006	650000	651000	Tune-up limit	MPR	
Frequency (MHz)				3735	3750	3765	(dBm)	(dB)	
70	PI2 BPSK	1	1		18.32	18.27	18.20	20.0	0.0
Channel				648868	650000	651332	Tune-up limit	MPR	
Frequency (MHz)				3730.02	3750	3769.98	(dBm)	(dB)	
60	PI2 BPSK	1	1		18.32	18.34	18.19	20.0	0.0
Channel				648334	650000	651666	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3750	3774.99	(dBm)	(dB)	
50	PI2 BPSK	1	1		18.22	18.25	18.22	20.0	0.0
Channel				648006	650000	652000	Tune-up limit	MPR	
Frequency (MHz)				3720	3750	3780	(dBm)	(dB)	
40	PI2 BPSK	1	1		18.33	18.35	18.04	20.0	0.0
Channel				647668	650000	652332	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3750.00	3784.98	(dBm)	(dB)	
30	PI2 BPSK	1	1		18.37	18.17	18.21	20.0	0.0
Channel				647334	650000	652666	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3750	3789.99	(dBm)	(dB)	
20	PI2 BPSK	1	1		18.14	18.25	18.02	20.0	0.0
Channel				647168	650000	652832	Tune-up limit	MPR	
Frequency (MHz)				3710.52	3750	3792.48	(dBm)	(dB)	
15	PI2 BPSK	1	1		18.32	18.35	18.09	20.0	0.0
Channel				647006	650000	653000	Tune-up limit	MPR	
Frequency (MHz)				3705	3750	3795	(dBm)	(dB)	
10	PI2 BPSK	1	1		18.21	18.29	18.18	20.0	0.0



Part270 n77 Ant 5 Default

BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				650000	650000	662000		
Frequency (MHz)				3750	3840	3930		
100	PI2 BPSK	1	1	22.20	22.47	22.34		
100	PI2 BPSK	1	157	22.20	22.44	22.35	24.0	0.0
100	PI2 BPSK	1	271	22.25	22.36	22.48		
100	PI2 BPSK	135	0	21.89	21.92	21.97	23.5	0.5
100	PI2 BPSK	135	69	21.16	22.45	22.32	24.0	0.0
100	PI2 BPSK	135	138	21.70	21.91	21.88		
100	PI2 BPSK	270	0	21.74	21.97	21.89	23.5	0.5
100	GPSK	1	1	22.30	22.31	22.45		
100	GPSK	1	137	22.14	22.36	22.33	24.0	0.0
100	GPSK	1	271	22.24	22.42	22.37		
100	GPSK	135	0	21.23	21.40	21.38	23.0	1.0
100	GPSK	135	69	22.16	22.30	22.34	24.0	0.0
100	GPSK	135	138	21.34	21.40	21.30		
100	GPSK	270	0	21.48	21.46	21.51	23.0	1.0
100	16QAM	1	1	21.27	21.28	21.19	23.0	1.0
100	64QAM	1	1	19.70	19.83	19.77	21.5	2.5
100	256QAM	1	1	18.25	18.36	18.29	19.5	4.5
Channel				686688	650000	663332	Tune-up limit	MPR
Frequency (MHz)				3745.02	3840	3934.98	(dBm)	(dB)
90	PI2 BPSK	1	1	22.23	22.34	22.17	24.0	0.0
Channel				648334	650000	662666	Tune-up limit	MPR
Frequency (MHz)				3740.01	3840	3930.99	(dBm)	(dB)
80	PI2 BPSK	1	1	22.24	22.31	22.45	24.0	0.0
Channel				648000	650000	663000	Tune-up limit	MPR
Frequency (MHz)				3745	3840	3945	(dBm)	(dB)
70	PI2 BPSK	1	1	22.17	22.44	22.31	24.0	0.0
Channel				648668	650000	663332	Tune-up limit	MPR
Frequency (MHz)				3730.02	3840	3940.98	(dBm)	(dB)
60	PI2 BPSK	1	1	22.23	22.31	22.14	24.0	0.0
Channel				648334	650000	663666	Tune-up limit	MPR
Frequency (MHz)				3725.01	3840	3934.99	(dBm)	(dB)
50	PI2 BPSK	1	1	22.13	22.34	22.14	24.0	0.0
Channel				648000	650000	664000	Tune-up limit	MPR
Frequency (MHz)				3720	3840	3900	(dBm)	(dB)
40	PI2 BPSK	1	1	22.23	22.34	22.48	24.0	0.0
Channel				647668	650000	664332	Tune-up limit	MPR
Frequency (MHz)				3715.02	3840.00	3934.98	(dBm)	(dB)
30	PI2 BPSK	1	1	22.13	22.47	22.33	24.0	0.0
Channel				647334	650000	664666	Tune-up limit	MPR
Frequency (MHz)				3710.01	3840	3930.99	(dBm)	(dB)
20	PI2 BPSK	1	1	22.23	22.35	22.48	24.0	0.0
Channel				647168	650000	664832	Tune-up limit	MPR
Frequency (MHz)				3700.02	3840	3922.99	(dBm)	(dB)
15	PI2 BPSK	1	1	22.23	22.36	22.45	24.0	0.0
Channel				647000	650000	665000	Tune-up limit	MPR
Frequency (MHz)				3700	3840	3915	(dBm)	(dB)
10	PI2 BPSK	1	1	22.20	22.37	22.46	24.0	0.0



Part270 n78 Ant 5 Default

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Middle Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
	Channel				850000				
	Frequency (MHz)				3750				
100	PI2 BPSK	1	1		22.15				
100	PI2 BPSK	1	137		22.16		24.0	0.0	
100	PI2 BPSK	1	271		22.17				
100	PI2 BPSK	135	0		21.84		23.5	0.5	
100	PI2 BPSK	135	68		22.11		24.0	0.0	
100	PI2 BPSK	135	138		21.73		23.5	0.5	
100	PI2 BPSK	270	0		21.74				
100	QPSK	1	1		22.30				
100	QPSK	1	137		22.21		24.0	0.0	
100	QPSK	1	271		22.24				
100	QPSK	135	0		21.15		23.0	1.0	
100	QPSK	135	68		22.12		24.0	0.0	
100	QPSK	135	138		21.09		23.0	1.0	
100	QPSK	270	0		21.15				
100	16QAM	1	1		21.34		23.0	1.0	
100	64QAM	1	1		19.52		21.5	2.5	
100	256QAM	1	1		17.70		19.5	4.5	
	Channel			648688	650000	650332	Tune-up limit	MPR	
	Frequency (MHz)			3745.02	3750	3754.98	(dBm)	(dB)	
80	PI2 BPSK	1	1		22.21	22.22	22.82	24.0	0.0
	Channel			648334	650000	650666	Tune-up limit	MPR	
	Frequency (MHz)			3740.01	3750	3759.99	(dBm)	(dB)	
80	PI2 BPSK	1	1		22.30	22.24	22.80	24.0	0.0
	Channel			648000	650000	651000	Tune-up limit	MPR	
	Frequency (MHz)			3735	3750	3765	(dBm)	(dB)	
70	PI2 BPSK	1	1		22.13	22.08	22.07	24.0	0.0
	Channel			648668	650000	651332	Tune-up limit	MPR	
	Frequency (MHz)			3730.02	3750	3769.98	(dBm)	(dB)	
60	PI2 BPSK	1	1		22.04	22.15	22.01	24.0	0.0
	Channel			648334	650000	651666	Tune-up limit	MPR	
	Frequency (MHz)			3725.01	3750	3774.99	(dBm)	(dB)	
50	PI2 BPSK	1	1		22.03	22.21	22.04	24.0	0.0
	Channel			648000	650000	652000	Tune-up limit	MPR	
	Frequency (MHz)			3720	3750	3780	(dBm)	(dB)	
40	PI2 BPSK	1	1		22.12	22.08	22.06	24.0	0.0
	Channel			647868	650000	652332	Tune-up limit	MPR	
	Frequency (MHz)			3715.02	3750.00	3784.98	(dBm)	(dB)	
30	PI2 BPSK	1	1		22.15	22.15	22.03	24.0	0.0
	Channel			647334	650000	652666	Tune-up limit	MPR	
	Frequency (MHz)			3710.01	3750	3789.99	(dBm)	(dB)	
20	PI2 BPSK	1	1		22.15	22.05	22.13	24.0	0.0
	Channel			647168	650000	652832	Tune-up limit	MPR	
	Frequency (MHz)			3707.92	3750	3792.08	(dBm)	(dB)	
15	PI2 BPSK	1	1		22.15	22.11	22.09	24.0	0.0
	Channel			647000	650000	653000	Tune-up limit	MPR	
	Frequency (MHz)			3705	3750	3795	(dBm)	(dB)	
10	PI2 BPSK	1	1		22.10	22.05	22.10	24.0	0.0



Part270 n77 Ant 7 Default

BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				650000	650000	662000		
Frequency (MHz)				3750	3840	3930		
100	Pi/2 BPSK	1	1	19.47	19.55	19.32		
100	Pi/2 BPSK	1	137	19.55	19.48	19.42	20.5	0.0
100	Pi/2 BPSK	1	271	19.37	19.41	19.24		
100	Pi/2 BPSK	135	0	18.97	18.18	18.87	20.0	0.5
100	Pi/2 BPSK	135	69	18.44	18.41	18.40		0.0
100	Pi/2 BPSK	135	138	19.09	19.00	18.94		
100	Pi/2 BPSK	270	0	18.17	18.12	18.88	20.0	0.5
100	QPSK	1	1	19.56	19.59	19.46		
100	QPSK	1	137	19.57	19.54	19.41	20.5	0.0
100	QPSK	1	271	19.52	19.52	19.30		
100	QPSK	135	0	18.37	18.41	18.33	19.5	1.0
100	QPSK	135	69	19.37	19.40	19.28	20.5	0.0
100	QPSK	135	138	18.40	18.41	18.30		1.0
100	QPSK	270	0	18.46	18.52	18.51	19.5	1.0
100	16QAM	1	1	18.40	18.40	18.28	19.5	1.0
100	64QAM	1	1	18.74	18.30	18.81	18.0	2.5
100	256QAM	1	1	15.27	15.45	15.30	16.0	4.5
Channel				688688	690000	682332	Tune-up limit	MPR
Frequency (MHz)				3745.02	3840	3934.98	(dBm)	(dB)
90	Pi/2 BPSK	1	1	19.40	19.41	19.47	20.5	0.0
Channel				689334	690000	682688	Tune-up limit	MPR
Frequency (MHz)				3740.01	3840	3930.99	(dBm)	(dB)
80	Pi/2 BPSK	1	1	19.43	19.33	19.43	20.5	0.0
Channel				689000	690000	683000	Tune-up limit	MPR
Frequency (MHz)				3735	3840	3945	(dBm)	(dB)
70	Pi/2 BPSK	1	1	19.43	19.51	19.31	20.5	0.0
Channel				688688	690000	683332	Tune-up limit	MPR
Frequency (MHz)				3730.02	3840	3940.98	(dBm)	(dB)
60	Pi/2 BPSK	1	1	19.43	19.53	19.27	20.5	0.0
Channel				688334	690000	683688	Tune-up limit	MPR
Frequency (MHz)				3725.01	3840	3954.99	(dBm)	(dB)
50	Pi/2 BPSK	1	1	19.23	19.53	19.34	20.5	0.0
Channel				689000	690000	684000	Tune-up limit	MPR
Frequency (MHz)				3720	3840	3960	(dBm)	(dB)
40	Pi/2 BPSK	1	1	19.33	19.42	19.45	20.5	0.0
Channel				647688	690000	684332	Tune-up limit	MPR
Frequency (MHz)				3715.02	3840.00	3964.98	(dBm)	(dB)
30	Pi/2 BPSK	1	1	19.42	19.55	19.28	20.5	0.0
Channel				647334	690000	684688	Tune-up limit	MPR
Frequency (MHz)				3710.01	3840	3969.99	(dBm)	(dB)
20	Pi/2 BPSK	1	1	19.23	19.42	19.27	20.5	0.0
Channel				647168	690000	684832	Tune-up limit	MPR
Frequency (MHz)				3707.52	3840	3972.48	(dBm)	(dB)
15	Pi/2 BPSK	1	1	19.43	19.52	19.43	20.5	0.0
Channel				647000	690000	685000	Tune-up limit	MPR
Frequency (MHz)				3705	3840	3975	(dBm)	(dB)
10	Pi/2 BPSK	1	1	19.51	19.56	19.38	20.5	0.0



Part270 n78 Ant 7 Default

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Mid Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1		850000			
100	PI2 BPSK	1	137		19.43		20.5	0.0
100	PI2 BPSK	1	271		19.45			
100	PI2 BPSK	136	0		19.06		20.0	0.5
100	PI2 BPSK	136	66		19.50		20.5	0.0
100	PI2 BPSK	136	138		19.21		20.0	0.5
100	PI2 BPSK	270	0		19.18			
100	QPSK	1	1		19.63			
100	QPSK	1	137		19.58		20.5	0.0
100	QPSK	1	271		19.58			
100	QPSK	136	0		18.64		19.5	1.0
100	QPSK	136	66		19.45		20.5	0.0
100	QPSK	136	138		18.49		19.5	1.0
100	QPSK	270	0		18.55			
100	16QAM	1	1		18.42		19.5	1.0
100	84QAM	1	1		18.99		18.0	2.5
100	256QAM	1	1		15.80		16.0	3.5
Channel								
Frequency (MHz)								
90	PI2 BPSK	1	1	649668	850000	850332	Tune-up limit	MPR
				3745.02	3750	3754.98	(dBm)	(dB)
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	648334	850000	850666	Tune-up limit	MPR
				3740.01	3750	3759.99	(dBm)	(dB)
Channel								
Frequency (MHz)								
70	PI2 BPSK	1	1	648000	850000	851000	Tune-up limit	MPR
				3735	3750	3765	(dBm)	(dB)
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	648666	850000	851332	Tune-up limit	MPR
				3730.02	3750	3769.98	(dBm)	(dB)
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	648334	850000	851666	Tune-up limit	MPR
				3725.01	3750	3774.99	(dBm)	(dB)
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	648000	850000	852000	Tune-up limit	MPR
				3720	3750	3760	(dBm)	(dB)
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	647668	850000	852332	Tune-up limit	MPR
				3715.02	3750.00	3784.98	(dBm)	(dB)
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	647334	850000	852666	Tune-up limit	MPR
				3710.01	3750	3789.99	(dBm)	(dB)
Channel								
Frequency (MHz)								
15	PI2 BPSK	1	1	647000	850000	853000	Tune-up limit	MPR
				3705	3750	3795	(dBm)	(dB)
Channel								
Frequency (MHz)								
10	PI2 BPSK	1	1	646668	850000	853332	Tune-up limit	MPR
				3700	3750	3800	(dBm)	(dB)



ECI2 Power

Part270 n77 Ant 1 ECI2									
BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)	
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.			
Channel				650000	650000	662000			
Frequency (MHz)				3750	3840	3930			
100	PI2 BPSK	1	1	18.36	18.53	18.53			
100	PI2 BPSK	1	137	18.46	18.50	18.31	20.0	0.0	
100	PI2 BPSK	1	221	18.54	18.60	18.57			
100	PI2 BPSK	135	0	17.98	18.06	17.86	19.5	0.5	
100	PI2 BPSK	135	69	18.41	18.58	18.52	20.0	0.0	
100	PI2 BPSK	135	138	18.21	18.18	18.16	19.5	0.5	
100	PI2 BPSK	270	0	18.22	18.24	18.26			
100	QPSK	1	1	18.49	18.79	18.65			
100	QPSK	1	137	18.50	18.60	18.59	20.0	0.0	
100	QPSK	1	271	18.57	18.55	18.57			
100	QPSK	135	0	18.56	18.67	18.55			
100	QPSK	135	69	18.44	18.50	18.48	20.0	0.0	
100	QPSK	135	138	18.41	18.58	18.38			
100	QPSK	270	0	17.78	17.82	17.55	19.0	1.0	
100	16QAM	1	1	17.35	17.36	17.31	19.0	1.0	
100	64QAM	1	1	15.82	15.96	15.83	17.5	2.5	
100	256QAM	1	1	14.30	14.51	14.50	15.5	4.5	
Channel				689668	690000	682332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3745.02	3840	3934.98			
90	PI2 BPSK	1	1	18.22	18.21	18.13	20.0	0.0	
Channel				689334	690000	682666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3740.01	3840	3930.99			
80	PI2 BPSK	1	1	18.22	18.23	18.24	20.0	0.0	
Channel				689000	690000	683000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3735	3840	3945			
70	PI2 BPSK	1	1	18.46	18.51	18.50	20.0	0.0	
Channel				688668	690000	683332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3730.02	3840	3940.98			
60	PI2 BPSK	1	1	18.03	18.14	18.15	20.0	0.0	
Channel				688334	690000	683666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3725.01	3840	3934.99			
50	PI2 BPSK	1	1	18.53	18.59	18.57	20.0	0.0	
Channel				688000	690000	684000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3720	3840	3950			
40	PI2 BPSK	1	1	18.52	18.54	18.54	20.0	0.0	
Channel				687668	690000	684332	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3715.02	3840.00	3944.98			
30	PI2 BPSK	1	1	18.00	18.64	18.59	20.0	0.0	
Channel				687334	690000	684666	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3710.01	3840	3940.99			
20	PI2 BPSK	1	1	18.57	18.70	18.58	20.0	0.0	
Channel				687000	690000	684832	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3707.52	3840	3972.48			
15	PI2 BPSK	1	1	18.55	18.69	18.58	20.0	0.0	
Channel				687000	690000	685000	Tune-up limit (dBm)	MPR (dB)	
Frequency (MHz)				3705	3840	3975			
10	PI2 BPSK	1	1	18.59	18.65	18.55	20.0	0.0	



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BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq	Mid-High Ch. / Freq	High Ch. / Freq		
					850000			
					3750			
					18.38			
100	PI2 BPSK	1	1		18.24		20.0	0.0
100	PI2 BPSK	1	137		18.35			
100	PI2 BPSK	1	271		18.35			
100	PI2 BPSK	135	0		17.90		19.5	0.5
100	PI2 BPSK	135	69		18.41		20.0	0.0
100	PI2 BPSK	135	138		17.88		19.5	0.5
100	PI2 BPSK	270	0		17.81			
100	QPSK	1	1		18.42			
100	QPSK	1	137		18.35		20.0	0.0
100	QPSK	1	271		18.37			
100	QPSK	135	0		18.22			
100	QPSK	135	69		18.32		20.0	0.0
100	QPSK	135	138		18.34			
100	QPSK	270	0		17.31		19.0	1.0
100	16QAM	1	1		17.24		19.0	1.0
100	64QAM	1	1		15.79		17.5	2.5
100	256QAM	1	1		14.49		15.5	4.5
				649668	850000	850332	Tune-up limit	MPR
				3745.02	3750	3754.98	(dBm)	(dB)
80	PI2 BPSK	1	1		18.35		20.0	0.0
				649334	850000	850666	Tune-up limit	MPR
				3740.01	3750	3759.99	(dBm)	(dB)
80	PI2 BPSK	1	1		18.22		20.0	0.0
				649000	850000	851000	Tune-up limit	MPR
				3735	3750	3765	(dBm)	(dB)
70	PI2 BPSK	1	1		18.32		20.0	0.0
				648668	850000	851332	Tune-up limit	MPR
				3730.02	3750	3769.98	(dBm)	(dB)
60	PI2 BPSK	1	1		18.32		20.0	0.0
				648334	850000	851666	Tune-up limit	MPR
				3725.01	3750	3774.99	(dBm)	(dB)
50	PI2 BPSK	1	1		18.22		20.0	0.0
				648000	850000	852000	Tune-up limit	MPR
				3720	3750	3760	(dBm)	(dB)
40	PI2 BPSK	1	1		18.33		20.0	0.0
				647668	850000	852332	Tune-up limit	MPR
				3715.02	3750.00	3784.98	(dBm)	(dB)
30	PI2 BPSK	1	1		18.37		20.0	0.0
				647334	850000	852666	Tune-up limit	MPR
				3710.01	3750	3789.99	(dBm)	(dB)
20	PI2 BPSK	1	1		18.34		20.0	0.0
				647000	850000	853000	Tune-up limit	MPR
				3705	3750	3795	(dBm)	(dB)
15	PI2 BPSK	1	1		18.32		20.0	0.0
				646668	850000	853332	Tune-up limit	MPR
				3700	3750	3800	(dBm)	(dB)
10	PI2 BPSK	1	1		18.21		20.0	0.0



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Band	BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
					65000	65000	65000		
					3750	3840	3930		
					19.22	19.43	19.34		
	100	PI/2 BPSK	1	1	19.22	19.37	19.28	21.0	0.0
	100	PI/2 BPSK	1	137	19.22	19.37	19.28		
	100	PI/2 BPSK	1	271	19.28	19.38	19.23		
	100	PI/2 BPSK	135	0	18.82	19.10	18.80	20.5	0.5
	100	PI/2 BPSK	135	69	19.26	19.43	19.20	21.0	0.0
	100	PI/2 BPSK	135	138	18.52	18.11	18.87	20.5	0.5
	100	PI/2 BPSK	270	0	18.86	18.88	18.85		
	100	QPSK	1	1	19.43	19.49	19.41		
	100	QPSK	1	137	19.37	19.42	19.38	21.0	0.0
	100	QPSK	1	271	19.37	19.47	19.41		
	100	QPSK	135	0	19.38	19.31	19.32		
	100	QPSK	135	69	19.41	19.39	19.27	21.0	0.0
	100	QPSK	135	138	19.39	19.31	19.29		
	100	QPSK	270	0	19.33	19.46	19.35	20.0	1.0
	100	16QAM	1	1	18.17	18.19	18.12	20.0	1.0
	100	64QAM	1	1	18.78	18.78	18.72	18.5	2.5
	100	256QAM	1	1	15.35	15.38	15.17	16.5	4.5
					648688	656000	662332	Tune-up limit (dBm)	MPR (dB)
					3749.102	3810	3874.89		
	90	PI/2 BPSK	1	1	19.39	19.45	19.39	21.0	0.0
					648334	656000	662666	Tune-up limit (dBm)	MPR (dB)
					3748.801	3800	3864.89		
	80	PI/2 BPSK	1	1	19.44	19.46	19.29	21.0	0.0
					649000	656000	663000	Tune-up limit (dBm)	MPR (dB)
					3735	3800	3865		
	70	PI/2 BPSK	1	1	19.37	19.30	19.25	21.0	0.0
					648688	656000	663332	Tune-up limit (dBm)	MPR (dB)
					3730.89	3800	3864.89		
	60	PI/2 BPSK	1	1	19.39	19.33	19.25	21.0	0.0
					648334	656000	663666	Tune-up limit (dBm)	MPR (dB)
					3732.01	3800	3864.89		
	50	PI/2 BPSK	1	1	19.38	19.35	19.33	21.0	0.0
					649000	656000	664000	Tune-up limit (dBm)	MPR (dB)
					3725	3800	3860		
	40	PI/2 BPSK	1	1	19.37	19.46	19.38	21.0	0.0
					647688	656000	664332	Tune-up limit (dBm)	MPR (dB)
					3715.89	3800.00	3864.88		
	30	PI/2 BPSK	1	1	19.24	19.32	19.39	21.0	0.0
					647334	656000	664666	Tune-up limit (dBm)	MPR (dB)
					3710.81	3800	3864.89		
	20	PI/2 BPSK	1	1	19.29	19.43	19.24	21.0	0.0
					647168	656000	664832	Tune-up limit (dBm)	MPR (dB)
					3707.89	3800	3772.48		
	15	PI/2 BPSK	1	1	19.23	19.42	19.24	21.0	0.0
					647000	656000	665000	Tune-up limit (dBm)	MPR (dB)
					3705	3800	3875		
	10	PI/2 BPSK	1	1	19.33	19.40	19.35	21.0	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				
Frequency (MHz)				3750				
100	PI2 BPSK	1	1	19.46				
100	PI2 BPSK	1	137	19.27			21.0	0.0
100	PI2 BPSK	1	271	19.43				
100	PI2 BPSK	135	0	18.92			20.5	0.5
100	PI2 BPSK	135	69	19.35			21.0	0.0
100	PI2 BPSK	135	138	18.89			20.5	0.5
100	PI2 BPSK	270	0	18.98				
100	QPSK	1	1	19.46				
100	QPSK	1	137	19.28			21.0	0.0
100	QPSK	1	271	19.46				
100	QPSK	135	0	19.45				
100	QPSK	135	69	19.42			21.0	0.0
100	QPSK	135	138	19.32				
100	QPSK	270	0	18.37			20.0	1.0
100	16QAM	1	1	18.17			20.0	1.0
100	64QAM	1	1	18.79			18.5	2.5
100	256QAM	1	1	15.48			18.5	4.5
Channel				648668	650000	650332	Tune-up limit (dBm)	MPR
Frequency (MHz)				374512	3750	375458	(dBm)	(dB)
90	PI2 BPSK	1	1	19.27	19.46	19.25	21.0	0.0
Channel				648334	650000	650666	Tune-up limit (dBm)	MPR
Frequency (MHz)				374920	3750	375366	(dBm)	(dB)
80	PI2 BPSK	1	1	19.15	19.32	19.14	21.0	0.0
Channel				648000	650000	651000	Tune-up limit (dBm)	MPR
Frequency (MHz)				3745	3750	3765	(dBm)	(dB)
70	PI2 BPSK	1	1	19.05	19.43	19.20	21.0	0.0
Channel				648668	650000	651332	Tune-up limit (dBm)	MPR
Frequency (MHz)				374002	3750	374998	(dBm)	(dB)
60	PI2 BPSK	1	1	19.10	19.25	19.09	21.0	0.0
Channel				648334	650000	651666	Tune-up limit (dBm)	MPR
Frequency (MHz)				374520	3750	374480	(dBm)	(dB)
50	PI2 BPSK	1	1	19.28	19.34	19.17	21.0	0.0
Channel				648000	650000	652000	Tune-up limit (dBm)	MPR
Frequency (MHz)				3740	3750	3760	(dBm)	(dB)
40	PI2 BPSK	1	1	19.10	19.31	19.09	21.0	0.0
Channel				647868	650000	652332	Tune-up limit (dBm)	MPR
Frequency (MHz)				374509	375000	374491	(dBm)	(dB)
30	PI2 BPSK	1	1	19.08	19.28	19.19	21.0	0.0
Channel				647334	650000	652666	Tune-up limit (dBm)	MPR
Frequency (MHz)				374010	3750	374990	(dBm)	(dB)
20	PI2 BPSK	1	1	19.15	19.28	19.20	21.0	0.0
Channel				647198	650000	652832	Tune-up limit (dBm)	MPR
Frequency (MHz)				374059	3750	374941	(dBm)	(dB)
15	PI2 BPSK	1	1	19.27	19.41	19.28	21.0	0.0
Channel				647000	650000	653000	Tune-up limit (dBm)	MPR
Frequency (MHz)				3745	3750	3765	(dBm)	(dB)
10	PI2 BPSK	1	1	19.20	19.31	19.12	21.0	0.0



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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				506202	518598	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	13.67	13.80	13.76	15.0	0.0
100	PI/2 BPSK	1	137	13.58	13.75	13.78		
100	PI/2 BPSK	1	271	13.72	13.70	13.65		
100	PI/2 BPSK	135	0	13.64	13.81	13.72	15.0	0.0
100	PI/2 BPSK	135	69	13.69	13.80	13.68	15.0	0.0
100	PI/2 BPSK	135	138	13.67	13.69	13.56		
100	PI/2 BPSK	270	0	13.69	13.75	13.60	15.0	0.0
100	QPSK	1	1	13.69	13.89	13.75		
100	QPSK	1	137	13.61	13.79	13.72	15.0	0.0
100	QPSK	1	271	13.68	13.73	13.61		
100	QPSK	135	0	13.79	13.63	13.79	15.0	0.0
100	QPSK	135	69	13.52	13.76	13.55	15.0	0.0
100	QPSK	135	138	13.67	13.70	13.68		
100	QPSK	270	0	13.68	13.73	13.61	15.0	0.0
100	16QAM	1	1	13.79	13.63	13.79	15.0	0.0
100	64QAM	1	1	13.52	13.76	13.55	15.0	0.0
100	256QAM	1	1	13.67	13.70	13.68	15.0	0.0
Channel				506200	518598	528998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	PI/2 BPSK	1	1	13.58	13.79	13.62	15.0	0.0
Channel				507204	518598	528998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2538.02	2592.99	2649.99		
80	PI/2 BPSK	1	1	13.58	13.76	13.67	15.0	0.0
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2645		
70	PI/2 BPSK	1	1	13.63	13.81	13.61	15.0	0.0
Channel				506200	518598	531998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2526	2592.99	2639.98		
60	PI/2 BPSK	1	1	13.55	13.77	13.64	15.0	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2654.99		
50	PI/2 BPSK	1	1	13.53	13.82	13.69	15.0	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	PI/2 BPSK	1	1	13.62	13.75	13.66	15.0	0.0
Channel				502200	518598	534998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	PI/2 BPSK	1	1	13.69	13.80	13.75	15.0	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	PI/2 BPSK	1	1	13.57	13.74	13.64	15.0	0.0
Channel				500700	518598	536498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501.5	2592.99	2674.98		
15	PI/2 BPSK	1	1	13.62	13.81	13.60	15.0	0.0
Channel				500202	518598	537000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501.01	2592.99	2685		
10	PI/2 BPSK	1	1	13.60	13.77	13.69	15.0	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				650000	650000	662000		
Frequency (MHz)				3750	3840	3930		
100	PI2 BPSK	1	1	15.31	15.39	15.32		
100	PI2 BPSK	1	137	15.13	15.37	15.36	17.0	0.0
100	PI2 BPSK	1	271	15.31	15.34	15.28		
100	PI2 BPSK	135	0	15.28	15.37	15.28	17.0	0.0
100	PI2 BPSK	135	69	15.23	15.17	15.28	17.0	0.0
100	PI2 BPSK	135	138	15.24	15.31	15.19		
100	PI2 BPSK	270	0	15.28	15.34	15.24	17.0	0.0
100	GFSK	1	1	15.31	15.51	15.38		
100	GFSK	1	137	15.23	15.34	15.28	17.0	0.0
100	GFSK	1	271	15.25	15.29	15.19		
100	GFSK	135	0	15.43	15.21	15.43	17.0	0.0
100	GFSK	135	69	15.09	15.38	15.12	17.0	0.0
100	GFSK	135	138	15.29	15.32	15.28	17.0	0.0
100	GFSK	270	0	15.28	15.32	15.26		
100	16QAM	1	1	15.38	15.28	15.39	17.0	0.0
100	64QAM	1	1	15.13	15.39	15.13	17.0	0.0
100	256QAM	1	1	15.24	15.35	15.25	17.0	0.0
Channel				688688	650000	662332	Tune-up limit	MPR
Frequency (MHz)				3745.02	3840	3934.98	(dBm)	(dB)
90	PI2 BPSK	1	1	15.18	15.37	15.30	17.0	0.0
Channel				689334	650000	662688	Tune-up limit	MPR
Frequency (MHz)				3740.01	3840	3930.99	(dBm)	(dB)
80	PI2 BPSK	1	1	15.23	15.41	15.24	17.0	0.0
Channel				689000	650000	663000	Tune-up limit	MPR
Frequency (MHz)				3735	3840	3945	(dBm)	(dB)
70	PI2 BPSK	1	1	15.18	15.42	15.29	17.0	0.0
Channel				688688	650000	663332	Tune-up limit	MPR
Frequency (MHz)				3730.02	3840	3940.98	(dBm)	(dB)
60	PI2 BPSK	1	1	15.13	15.40	15.30	17.0	0.0
Channel				688334	650000	663666	Tune-up limit	MPR
Frequency (MHz)				3725.01	3840	3934.99	(dBm)	(dB)
50	PI2 BPSK	1	1	15.23	15.37	15.27	17.0	0.0
Channel				688000	650000	664000	Tune-up limit	MPR
Frequency (MHz)				3720	3840	3960	(dBm)	(dB)
40	PI2 BPSK	1	1	15.23	15.42	15.27	17.0	0.0
Channel				647688	650000	664332	Tune-up limit	MPR
Frequency (MHz)				3715.02	3840.00	3954.99	(dBm)	(dB)
30	PI2 BPSK	1	1	15.19	15.39	15.29	17.0	0.0
Channel				647334	650000	664666	Tune-up limit	MPR
Frequency (MHz)				3710.01	3840	3950.99	(dBm)	(dB)
20	PI2 BPSK	1	1	15.24	15.40	15.33	17.0	0.0
Channel				647168	650000	664832	Tune-up limit	MPR
Frequency (MHz)				3707.62	3840	3972.48	(dBm)	(dB)
15	PI2 BPSK	1	1	15.19	15.45	15.29	17.0	0.0
Channel				647000	650000	665000	Tune-up limit	MPR
Frequency (MHz)				3705	3840	3970	(dBm)	(dB)
10	PI2 BPSK	1	1	15.24	15.46	15.31	17.0	0.0



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Channel	Channel Frequency (MHz)	Power Low Ch. / Freq.	Power Mod. Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
100	PI2 BPSK	1	1	15.29	17.0	0.0		
100	PI2 BPSK	1	137	15.24				
100	PI2 BPSK	1	271	15.20				
100	PI2 BPSK	136	0	15.31	17.0	0.0		
100	PI2 BPSK	136	66	15.04	17.0	0.0		
100	PI2 BPSK	136	138	15.18	17.0	0.0		
100	PI2 BPSK	270	0	15.28				
100	QPSK	1	1	15.40				
100	QPSK	1	137	15.22	17.0	0.0		
100	QPSK	1	271	15.18				
100	QPSK	136	0	15.10	17.0	0.0		
100	QPSK	136	66	15.31	17.0	0.0		
100	QPSK	136	138	15.23	17.0	0.0		
100	QPSK	270	0	15.23				
100	16QAM	1	1	15.16	17.0	0.0		
100	84QAM	1	1	15.29	17.0	0.0		
100	256QAM	1	1	15.21	17.0	0.0		
99	Channel		64968	65000	65032	Tune-up limit	MPR	
	Frequency (MHz)		3745.02	3750	3754.98	(dBm)	(dB)	
	PI2 BPSK	1	1	15.34	15.35	15.30	17.0	0.0
	Channel		64934	65000	65066	Tune-up limit	MPR	
	Frequency (MHz)		3740.01	3750	3759.99	(dBm)	(dB)	
80	PI2 BPSK	1	1	15.30	15.32	15.30	17.0	0.0
	Channel		64900	65000	65100	Tune-up limit	MPR	
	Frequency (MHz)		3735	3750	3765	(dBm)	(dB)	
70	PI2 BPSK	1	1	15.23	15.31	15.29	17.0	0.0
	Channel		64868	65000	65132	Tune-up limit	MPR	
	Frequency (MHz)		3730.02	3750	3769.98	(dBm)	(dB)	
60	PI2 BPSK	1	1	15.29	15.33	15.29	17.0	0.0
	Channel		64834	65000	65166	Tune-up limit	MPR	
	Frequency (MHz)		3725.01	3750	3774.99	(dBm)	(dB)	
50	PI2 BPSK	1	1	15.35	15.34	15.27	17.0	0.0
	Channel		64800	65000	65200	Tune-up limit	MPR	
	Frequency (MHz)		3720	3750	3780	(dBm)	(dB)	
40	PI2 BPSK	1	1	15.31	15.30	15.27	17.0	0.0
	Channel		64768	65000	65232	Tune-up limit	MPR	
	Frequency (MHz)		3715.02	3750.00	3784.98	(dBm)	(dB)	
30	PI2 BPSK	1	1	15.27	15.38	15.27	17.0	0.0
	Channel		64734	65000	65266	Tune-up limit	MPR	
	Frequency (MHz)		3710.01	3750	3789.99	(dBm)	(dB)	
20	PI2 BPSK	1	1	15.34	15.31	15.29	17.0	0.0
	Channel		64700	65000	65292	Tune-up limit	MPR	
	Frequency (MHz)		3705.02	3750	3792.98	(dBm)	(dB)	
15	PI2 BPSK	1	1	15.36	15.33	15.30	17.0	0.0
	Channel		64700	65000	65300	Tune-up limit	MPR	
	Frequency (MHz)		3705	3750	3795	(dBm)	(dB)	
10	PI2 BPSK	1	1	15.28	15.38	15.29	17.0	0.0



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BW (MHz)	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MRR (dB)
				Low Ch. / Freq. 650000	Middle Ch. / Freq. 650000	High Ch. / Freq. 662000		
Channel				3750	3840	3930		
100	Pi/2 BPSK	1	1	18.49	18.60	18.61	19.5	0.0
100	Pi/2 BPSK	1	137	18.44	18.51	18.59		
100	Pi/2 BPSK	1	271	18.57	18.48	18.47		
100	Pi/2 BPSK	135	0	18.44	18.68	18.57	19.5	0.0
100	Pi/2 BPSK	135	69	18.46	18.43	18.49	19.5	0.0
100	Pi/2 BPSK	135	138	18.48	18.48	18.34	19.5	0.0
100	Pi/2 BPSK	270	0	18.50	18.61	18.43		
100	QPSK	1	1	18.51	18.70	18.58	19.5	0.0
100	QPSK	1	137	18.37	18.62	18.51		
100	QPSK	1	271	18.54	18.54	18.39		
100	QPSK	135	0	18.60	18.40	18.58	19.5	0.0
100	QPSK	135	69	18.28	18.51	18.38	19.5	0.0
100	QPSK	135	138	18.43	18.50	18.50	19.5	0.0
100	QPSK	270	0	18.48	18.51	18.41		
100	16QAM	1	1	18.40	18.40	18.28	19.5	0.0
100	64QAM	1	1	18.74	18.30	18.81	18.0	1.5
100	256QAM	1	1	15.27	15.45	15.33	16.0	2.5
Channel				648668	650000	662332	Tune-up limit	MRR
Frequency (MHz)				3745.02	3840	3934.98	(dBm)	(dB)
90	Pi/2 BPSK	1	1	18.43	18.60	18.51	19.5	0.0
Channel				649334	650000	662666	Tune-up limit	MRR
Frequency (MHz)				3740.01	3840	3930.99	(dBm)	(dB)
80	Pi/2 BPSK	1	1	18.43	18.50	18.45	19.5	0.0
Channel				649000	650000	663000	Tune-up limit	MRR
Frequency (MHz)				3735	3840	3945	(dBm)	(dB)
70	Pi/2 BPSK	1	1	18.44	18.50	18.49	19.5	0.0
Channel				648668	650000	663332	Tune-up limit	MRR
Frequency (MHz)				3730.02	3840	3942.98	(dBm)	(dB)
60	Pi/2 BPSK	1	1	18.43	18.50	18.49	19.5	0.0
Channel				648334	650000	663666	Tune-up limit	MRR
Frequency (MHz)				3725.01	3840	3934.99	(dBm)	(dB)
50	Pi/2 BPSK	1	1	18.23	18.51	18.51	19.5	0.0
Channel				648000	650000	664000	Tune-up limit	MRR
Frequency (MHz)				3720	3840	3900	(dBm)	(dB)
40	Pi/2 BPSK	1	1	18.40	18.50	18.43	19.5	0.0
Channel				647668	650000	664332	Tune-up limit	MRR
Frequency (MHz)				3715.02	3840.00	3944.98	(dBm)	(dB)
30	Pi/2 BPSK	1	1	18.43	18.51	18.52	19.5	0.0
Channel				647334	650000	664666	Tune-up limit	MRR
Frequency (MHz)				3710.01	3840	3940.99	(dBm)	(dB)
20	Pi/2 BPSK	1	1	18.43	18.55	18.52	19.5	0.0
Channel				647168	650000	664832	Tune-up limit	MRR
Frequency (MHz)				3707.52	3840	3972.48	(dBm)	(dB)
15	Pi/2 BPSK	1	1	18.37	18.62	18.53	19.5	0.0
Channel				647000	650000	665000	Tune-up limit	MRR
Frequency (MHz)				3705	3840	3975	(dBm)	(dB)
10	Pi/2 BPSK	1	1	18.41	18.50	18.53	19.5	0.0

Part270 n78 Ant 7 ECI2

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Mid Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	P12 BPSK	1	1	18.55	18.55	18.55	19.5	0.0
100	P12 BPSK	1	137	18.56	18.56	18.56		
100	P12 BPSK	1	271	18.52	18.52	18.52		
100	P12 BPSK	135	0	18.54	18.54	18.54		
100	P12 BPSK	135	68	18.36	18.36	18.36		
100	P12 BPSK	135	138	18.61	18.61	18.61		
100	P12 BPSK	270	0	18.58	18.58	18.58		
100	QPSK	1	1	18.68	18.68	18.68		
100	QPSK	1	137	18.67	18.67	18.67		
100	QPSK	1	271	18.82	18.82	18.82		
100	QPSK	135	0	18.46	18.46	18.46	19.5	0.0
100	QPSK	135	68	18.46	18.46	18.46	19.5	0.0
100	QPSK	135	138	18.53	18.53	18.53	19.5	0.0
100	QPSK	270	0	18.60	18.60	18.60	19.5	0.0
100	16QAM	1	1	18.42	18.42	18.42	19.5	0.0
100	64QAM	1	1	18.99	18.99	18.99	18.0	1.5
100	256QAM	1	1	15.80	15.80	15.80	16.0	3.5
Channel								
Frequency (MHz)								
80	P12 BPSK	1	1	649668	650000	650332	Tune-up limit (dBm)	MPR (dB)
				3745.02	3750	3754.98	(dBm)	(dB)
Channel								
Frequency (MHz)								
80	P12 BPSK	1	1	649334	650000	650666	Tune-up limit (dBm)	MPR (dB)
				3740.01	3750	3759.99	(dBm)	(dB)
Channel								
Frequency (MHz)								
80	P12 BPSK	1	1	649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
				3735	3750	3765	(dBm)	(dB)
Channel								
Frequency (MHz)								
70	P12 BPSK	1	1	648668	650000	651332	Tune-up limit (dBm)	MPR (dB)
				3730.02	3750	3769.98	(dBm)	(dB)
Channel								
Frequency (MHz)								
80	P12 BPSK	1	1	648334	650000	651666	Tune-up limit (dBm)	MPR (dB)
				3725.01	3750	3774.99	(dBm)	(dB)
Channel								
Frequency (MHz)								
50	P12 BPSK	1	1	648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
				3720	3750	3760	(dBm)	(dB)
Channel								
Frequency (MHz)								
40	P12 BPSK	1	1	647668	650000	652332	Tune-up limit (dBm)	MPR (dB)
				3715.02	3750.00	3764.98	(dBm)	(dB)
Channel								
Frequency (MHz)								
30	P12 BPSK	1	1	647334	650000	652666	Tune-up limit (dBm)	MPR (dB)
				3710.01	3750	3769.99	(dBm)	(dB)
Channel								
Frequency (MHz)								
20	P12 BPSK	1	1	647000	650000	653000	Tune-up limit (dBm)	MPR (dB)
				3705	3750	3765	(dBm)	(dB)
Channel								
Frequency (MHz)								
15	P12 BPSK	1	1	646668	650000	653332	Tune-up limit (dBm)	MPR (dB)
				3700.02	3750	3769.98	(dBm)	(dB)
Channel								
Frequency (MHz)								
10	P12 BPSK	1	1	646334	650000	653666	Tune-up limit (dBm)	MPR (dB)
				3695	3750	3765	(dBm)	(dB)



ECI3 Power

Part270 n77 Ant 1 ECI3									
BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)	
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.			
Channel				650000	650000	662000			
Frequency (MHz)				3750	3840	3930			
100	PI2 BPSK	1	1	18.36	18.53	18.53			
100	PI2 BPSK	1	137	18.46	18.50	18.31	20.0	0.0	
100	PI2 BPSK	1	221	18.54	18.60	18.57			
100	PI2 BPSK	135	0	17.98	18.06	17.86	19.5	0.5	
100	PI2 BPSK	135	69	18.41	18.38	18.52	20.0	0.0	
100	PI2 BPSK	135	138	18.21	18.18	18.16	19.5	0.5	
100	PI2 BPSK	270	0	18.22	18.24	18.26			
100	QPSK	1	1	18.49	18.39	18.65			
100	QPSK	1	137	18.50	18.60	18.59	20.0	0.0	
100	QPSK	1	271	18.57	18.55	18.57			
100	QPSK	135	0	18.56	18.07	18.25			
100	QPSK	135	69	18.44	18.50	18.48	20.0	0.0	
100	QPSK	135	138	18.41	18.58	18.38			
100	QPSK	270	0	17.78	17.82	17.55	19.0	1.0	
100	16QAM	1	1	17.35	17.36	17.31	19.0	1.0	
100	64QAM	1	1	15.82	15.96	15.83	17.5	2.5	
100	256QAM	1	1	14.30	14.51	14.50	15.5	4.5	
Channel				689668	690000	682332	Tune-up limit	MPR	
Frequency (MHz)				3745.02	3840	3934.98	(dBm)	(dB)	
90	PI2 BPSK	1	1	18.22	18.21	18.13	20.0	0.0	
Channel				689334	690000	682666	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3840	3930.99	(dBm)	(dB)	
80	PI2 BPSK	1	1	18.22	18.23	18.24	20.0	0.0	
Channel				689000	690000	683000	Tune-up limit	MPR	
Frequency (MHz)				3735	3840	3945	(dBm)	(dB)	
70	PI2 BPSK	1	1	18.46	18.51	18.50	20.0	0.0	
Channel				688668	690000	683332	Tune-up limit	MPR	
Frequency (MHz)				3730.02	3840	3940.98	(dBm)	(dB)	
60	PI2 BPSK	1	1	18.03	18.14	18.15	20.0	0.0	
Channel				688334	690000	683666	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3840	3934.99	(dBm)	(dB)	
50	PI2 BPSK	1	1	18.53	18.59	18.57	20.0	0.0	
Channel				688000	690000	684000	Tune-up limit	MPR	
Frequency (MHz)				3720	3840	3950	(dBm)	(dB)	
40	PI2 BPSK	1	1	18.52	18.54	18.54	20.0	0.0	
Channel				687668	690000	684332	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3840.00	3944.98	(dBm)	(dB)	
30	PI2 BPSK	1	1	18.00	18.64	18.59	20.0	0.0	
Channel				687334	690000	684666	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3840	3949.99	(dBm)	(dB)	
20	PI2 BPSK	1	1	18.57	18.70	18.58	20.0	0.0	
Channel				687000	690000	684832	Tune-up limit	MPR	
Frequency (MHz)				3707.52	3840	3972.48	(dBm)	(dB)	
15	PI2 BPSK	1	1	18.58	18.69	18.58	20.0	0.0	
Channel				687000	690000	685000	Tune-up limit	MPR	
Frequency (MHz)				3705	3840	3975	(dBm)	(dB)	
10	PI2 BPSK	1	1	18.59	18.65	18.55	20.0	0.0	



Part270 n78 Ant 1 ECI3

BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq	Mid-High Ch. / Freq	High Ch. / Freq		
					850000			
					3750			
					18.38			
100	P1/2 BPSK	1	1		18.24		20.0	0.0
100	P1/2 BPSK	1	137		18.35			
100	P1/2 BPSK	1	271		18.35			
100	P1/2 BPSK	135	0		17.90		19.5	0.5
100	P1/2 BPSK	135	69		18.41		20.0	0.0
100	P1/2 BPSK	135	138		17.88		19.5	0.5
100	P1/2 BPSK	270	0		17.81			
100	QPSK	1	1		18.42			
100	QPSK	1	137		18.35		20.0	0.0
100	QPSK	1	271		18.37			
100	QPSK	135	0		18.22			
100	QPSK	135	69		18.32		20.0	0.0
100	QPSK	135	138		18.34			
100	QPSK	270	0		17.31		19.0	1.0
100	16QAM	1	1		17.24		19.0	1.0
100	64QAM	1	1		15.79		17.5	2.5
100	256QAM	1	1		14.49		15.5	4.5
				649668	850000	850332	Tune-up limit	MPR
				3745.02	3750	3754.98	(dBm)	(dB)
80	P1/2 BPSK	1	1		18.35	18.39	20.0	0.0
				649334	850000	850666	Tune-up limit	MPR
				3740.01	3750	3759.99	(dBm)	(dB)
80	P1/2 BPSK	1	1		18.22	18.30	20.0	0.0
				649000	850000	851000	Tune-up limit	MPR
				3735	3750	3765	(dBm)	(dB)
70	P1/2 BPSK	1	1		18.32	18.27	20.0	0.0
				648668	850000	851332	Tune-up limit	MPR
				3730.02	3750	3769.98	(dBm)	(dB)
60	P1/2 BPSK	1	1		18.32	18.34	20.0	0.0
				648334	850000	851666	Tune-up limit	MPR
				3725.01	3750	3774.99	(dBm)	(dB)
50	P1/2 BPSK	1	1		18.22	18.25	20.0	0.0
				648000	850000	852000	Tune-up limit	MPR
				3720	3750	3760	(dBm)	(dB)
40	P1/2 BPSK	1	1		18.33	18.35	20.0	0.0
				647668	850000	852332	Tune-up limit	MPR
				3715.02	3750.00	3784.98	(dBm)	(dB)
30	P1/2 BPSK	1	1		18.37	18.17	20.0	0.0
				647334	850000	852666	Tune-up limit	MPR
				3710.01	3750	3789.99	(dBm)	(dB)
20	P1/2 BPSK	1	1		18.34	18.25	20.0	0.0
				647168	850000	852932	Tune-up limit	MPR
				3705.02	3750	3792.48	(dBm)	(dB)
15	P1/2 BPSK	1	1		18.32	18.35	20.0	0.0
				647000	850000	853000	Tune-up limit	MPR
				3700	3750	3795	(dBm)	(dB)
10	P1/2 BPSK	1	1		18.21	18.22	20.0	0.0



Part270 n77 Ant 2 EC13

BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
Channel				650000	650000	662000		
Frequency (MHz)				3750	3840	3930		
100	PI2 BPSK	1	1	16.67	16.70	16.72		
100	PI2 BPSK	1	137	16.57	16.58	16.63	18.0	0.0
100	PI2 BPSK	1	271	16.51	16.69	16.50		
100	PI2 BPSK	135	0	16.59	16.78	16.54	18.0	0.0
100	PI2 BPSK	135	69	16.66	16.68	16.68	18.0	0.0
100	PI2 BPSK	135	138	16.67	16.76	16.52		
100	PI2 BPSK	270	0	16.73	16.81	16.68	18.0	0.0
100	QPSK	1	1	16.61	16.66	16.52		
100	QPSK	1	137	16.56	16.81	16.66	18.0	0.0
100	QPSK	1	271	16.83	16.86	16.65		
100	QPSK	135	0	16.66	16.73	16.64		
100	QPSK	135	69	16.56	16.75	16.53	18.0	0.0
100	QPSK	135	138	16.57	16.78	16.68		
100	QPSK	270	0	16.70	16.70	16.66	18.0	0.0
100	16QAM	1	1	16.73	16.87	16.68	18.0	0.0
100	64QAM	1	1	16.64	16.59	16.60	18.0	0.0
100	256QAM	1	1	15.05	15.04	14.92	16.5	1.5
Channel				648668	650000	662332	Tune-up limit	MPR
Frequency (MHz)				3745.02	3840	3934.98	(dBm)	(dB)
90	PI2 BPSK	1	1	16.64	16.53	16.57	18.0	0.0
Channel				648934	650000	662668	Tune-up limit	MPR
Frequency (MHz)				3740.01	3840	3939.99	(dBm)	(dB)
80	PI2 BPSK	1	1	16.52	16.72	16.17	18.0	0.0
Channel				648900	650000	663000	Tune-up limit	MPR
Frequency (MHz)				3735	3840	3935	(dBm)	(dB)
70	PI2 BPSK	1	1	16.69	16.72	16.69	18.0	0.0
Channel				648668	650000	663332	Tune-up limit	MPR
Frequency (MHz)				3730.02	3840	3940.98	(dBm)	(dB)
60	PI2 BPSK	1	1	16.52	16.61	16.73	18.0	0.0
Channel				648334	650000	663668	Tune-up limit	MPR
Frequency (MHz)				3725.01	3840	3934.99	(dBm)	(dB)
50	PI2 BPSK	1	1	16.70	16.50	16.50	18.0	0.0
Channel				648000	650000	664000	Tune-up limit	MPR
Frequency (MHz)				3720	3840	3930	(dBm)	(dB)
40	PI2 BPSK	1	1	16.53	16.73	16.59	18.0	0.0
Channel				647668	650000	664332	Tune-up limit	MPR
Frequency (MHz)				3715.02	3840.00	3938.98	(dBm)	(dB)
30	PI2 BPSK	1	1	16.59	16.77	16.54	18.0	0.0
Channel				647334	650000	664668	Tune-up limit	MPR
Frequency (MHz)				3710.01	3840	3936.99	(dBm)	(dB)
20	PI2 BPSK	1	1	16.20	16.74	16.70	18.0	0.0
Channel				647168	650000	664832	Tune-up limit	MPR
Frequency (MHz)				3707.52	3840	3972.48	(dBm)	(dB)
15	PI2 BPSK	1	1	16.59	16.59	16.59	18.0	0.0
Channel				647000	650000	665000	Tune-up limit	MPR
Frequency (MHz)				3700	3840	3975	(dBm)	(dB)
10	PI2 BPSK	1	1	16.74	16.71	16.68	18.0	0.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Mid Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1		850000			
100	PI2 BPSK	1	137	16.41	16.16		18.0	0.0
100	PI2 BPSK	1	271	16.41	16.39		18.0	0.0
100	PI2 BPSK	136	0	16.31			18.0	0.0
100	PI2 BPSK	136	89	16.43			18.0	0.0
100	PI2 BPSK	136	138	16.45			18.0	0.0
100	PI2 BPSK	270	0	16.55			18.0	0.0
100	QPSK	1	1	16.91				
100	QPSK	1	137	16.16			18.0	0.0
100	QPSK	1	271	16.44				
100	QPSK	136	0	16.44				
100	QPSK	136	89	16.40			18.0	0.0
100	QPSK	136	138	16.22				
100	QPSK	270	0	16.15			18.0	0.0
100	16QAM	1	1	15.24			18.0	0.0
100	84QAM	1	1	15.22			18.0	0.0
100	256QAM	1	1	14.01			16.5	1.5
Channel								
Frequency (MHz)								
99	PI2 BPSK	1	1	649688	650000	650332	Tune-up limit (dBm)	MPR (dB)
				3745.02	3750	3754.98		
Channel								
Frequency (MHz)								
89	PI2 BPSK	1	1	649334	650000	650666	Tune-up limit (dBm)	MPR (dB)
				3749.01	3750	3759.99		
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	649000	650000	651000	Tune-up limit (dBm)	MPR (dB)
				3735	3750	3765		
Channel								
Frequency (MHz)								
70	PI2 BPSK	1	1	648668	650000	651332	Tune-up limit (dBm)	MPR (dB)
				3730.02	3750	3769.98		
Channel								
Frequency (MHz)								
60	PI2 BPSK	1	1	648334	650000	651666	Tune-up limit (dBm)	MPR (dB)
				3725.01	3750	3774.99		
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	648000	650000	652000	Tune-up limit (dBm)	MPR (dB)
				3720	3750	3780		
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	647668	650000	652332	Tune-up limit (dBm)	MPR (dB)
				3715.02	3750	3784.98		
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	647334	650000	652666	Tune-up limit (dBm)	MPR (dB)
				3710.01	3750	3789.99		
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	647000	650000	652999	Tune-up limit (dBm)	MPR (dB)
				3705	3750	3795		
Channel								
Frequency (MHz)								
15	PI2 BPSK	1	1	646668	650000	653332	Tune-up limit (dBm)	MPR (dB)
				3700.02	3750	3799.98		
Channel								
Frequency (MHz)								
10	PI2 BPSK	1	1	646334	650000	653666	Tune-up limit (dBm)	MPR (dB)
				3695	3750	3805		



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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				506002	518998	528000		
Frequency (MHz)				2548.01	2592.99	2640		
100	PI/2 BPSK	1	1	14.18	14.31	14.31	15.5	0.0
100	PI/2 BPSK	1	137	14.11	14.23	14.35		
100	PI/2 BPSK	1	271	14.29	14.23	14.12		
100	PI/2 BPSK	138	0	14.18	14.33	14.19	15.5	0.0
100	PI/2 BPSK	138	89	14.15	14.11	14.21	15.5	0.0
100	PI/2 BPSK	138	138	14.19	14.15	14.10		
100	PI/2 BPSK	270	0	14.19	14.28	14.11	15.5	0.0
100	QPSK	1	1	14.31	14.40	14.33		
100	QPSK	1	137	14.12	14.32	14.28	15.5	0.0
100	QPSK	1	271	14.23	14.28	14.10		
100	QPSK	138	0	14.28	14.11	14.33		
100	QPSK	138	89	14.04	14.29	14.10	15.5	0.0
100	QPSK	138	138	14.20	14.22	14.18		
100	QPSK	270	0	14.14	14.16	14.06	15.5	0.0
100	16QAM	1	1	14.29	14.38	14.33	15.5	0.0
100	64QAM	1	1	14.01	14.22	14.05	15.5	0.0
100	256QAM	1	1	14.20	14.24	14.25	15.5	0.0
Channel				506000	518998	528998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	PI/2 BPSK	1	1	14.18	14.33	14.24	15.5	0.0
Channel				507004	518998	528998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2538.02	2592.99	2649.99		
80	PI/2 BPSK	1	1	14.23	14.30	14.28	15.5	0.0
Channel				506002	518998	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2531.01	2592.99	2655		
70	PI/2 BPSK	1	1	14.21	14.34	14.18	15.5	0.0
Channel				506200	518998	531998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2528	2592.99	2659.98		
60	PI/2 BPSK	1	1	14.23	14.37	14.22	15.5	0.0
Channel				504004	518998	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2654.99		
50	PI/2 BPSK	1	1	14.24	14.30	14.28	15.5	0.0
Channel				503002	518998	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	PI/2 BPSK	1	1	14.27	14.31	14.23	15.5	0.0
Channel				502000	518998	534998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	PI/2 BPSK	1	1	14.18	14.30	14.24	15.5	0.0
Channel				501204	518998	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2508.02	2592.99	2679.99		
20	PI/2 BPSK	1	1	14.23	14.31	14.26	15.5	0.0
Channel				500700	518998	536498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.5	2592.99	2674.98		
15	PI/2 BPSK	1	1	14.28	14.33	14.24	15.5	0.0
Channel				500202	518998	537000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501.01	2592.99	2685		
10	PI/2 BPSK	1	1	14.28	14.32	14.21	15.5	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				650000	650000	662000		
Frequency (MHz)				3750	3840	3930		
100	PI2 BPSK	1	1	17.47	17.63	17.60		
100	PI2 BPSK	1	137	17.40	17.58	17.62	18.5	0.0
100	PI2 BPSK	1	271	17.56	17.65	17.48		
100	PI2 BPSK	135	0	17.42	17.67	17.52	18.5	0.0
100	PI2 BPSK	135	69	17.40	17.46	17.47	18.5	0.0
100	PI2 BPSK	135	138	17.50	17.49	17.42		
100	PI2 BPSK	270	0	17.44	17.59	17.37	18.5	0.0
100	QPSK	1	1	17.63	17.74	17.68		
100	QPSK	1	137	17.40	17.67	17.63	18.5	0.0
100	QPSK	1	271	17.53	17.51	17.45		
100	QPSK	135	0	17.57	17.43	17.68	18.5	0.0
100	QPSK	135	69	17.34	17.64	17.36	18.5	0.0
100	QPSK	135	138	17.58	17.57	17.52	18.5	0.0
100	QPSK	270	0	17.44	17.46	17.42		
100	16QAM	1	1	17.63	17.69	17.67	18.5	0.0
100	64QAM	1	1	16.74	16.90	16.81	18.0	0.5
100	256QAM	1	1	15.27	15.45	15.33	16.0	2.5
Channel				648688	650000	662332	Tune-up limit	MPR
Frequency (MHz)				3745.02	3840	3934.98	(dBm)	(dB)
90	PI2 BPSK	1	1	17.63	17.63	17.59	18.5	0.0
Channel				648334	650000	662688	Tune-up limit	MPR
Frequency (MHz)				3740.01	3840	3930.99	(dBm)	(dB)
80	PI2 BPSK	1	1	17.63	17.62	17.61	18.5	0.0
Channel				648000	650000	663000	Tune-up limit	MPR
Frequency (MHz)				3735	3840	3945	(dBm)	(dB)
70	PI2 BPSK	1	1	17.62	17.61	17.57	18.5	0.0
Channel				648688	650000	663332	Tune-up limit	MPR
Frequency (MHz)				3730.02	3840	3940.98	(dBm)	(dB)
60	PI2 BPSK	1	1	17.63	17.63	17.63	18.5	0.0
Channel				648334	650000	663668	Tune-up limit	MPR
Frequency (MHz)				3725.01	3840	3944.99	(dBm)	(dB)
50	PI2 BPSK	1	1	17.62	17.63	17.61	18.5	0.0
Channel				648000	650000	664000	Tune-up limit	MPR
Frequency (MHz)				3720	3840	3960	(dBm)	(dB)
40	PI2 BPSK	1	1	17.63	17.64	17.62	18.5	0.0
Channel				647688	650000	664332	Tune-up limit	MPR
Frequency (MHz)				3715.02	3840.00	3964.98	(dBm)	(dB)
30	PI2 BPSK	1	1	17.63	17.71	17.63	18.5	0.0
Channel				647334	650000	664668	Tune-up limit	MPR
Frequency (MHz)				3710.01	3840	3968.99	(dBm)	(dB)
20	PI2 BPSK	1	1	17.63	17.63	17.57	18.5	0.0
Channel				647168	650000	664832	Tune-up limit	MPR
Frequency (MHz)				3707.62	3840	3972.48	(dBm)	(dB)
15	PI2 BPSK	1	1	17.63	17.70	17.64	18.5	0.0
Channel				647000	650000	665000	Tune-up limit	MPR
Frequency (MHz)				3705	3840	3975	(dBm)	(dB)
10	PI2 BPSK	1	1	17.58	17.68	17.61	18.5	0.0



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Channel	Power Low Ch. / Freq.	Power Modem Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel	850000				
Frequency (MHz)					
100	17.52			18.5	0.0
100	17.43				
100	17.35				
100	17.51			18.5	0.0
100	17.28			18.5	0.0
100	17.31			18.5	0.0
100	17.34				
100	17.57				
100	17.46			18.5	0.0
100	17.28				
100	17.40			18.5	0.0
100	17.44			18.5	0.0
100	17.43			18.5	0.0
100	17.33				
100	17.51			18.5	0.0
100	18.99			18.0	0.5
100	16.90			18.0	2.5
Channel	649868	850000	850332	Tune-up limit	MPR
Frequency (MHz)	3745.02	3750	3754.98	(dBm)	(dB)
99	17.42	17.51	17.45	18.5	0.0
Channel	649334	850000	850668	Tune-up limit	MPR
Frequency (MHz)	3749.01	3750	3759.99	(dBm)	(dB)
88	17.41	17.43	17.43	18.5	0.0
Channel	649000	850000	851000	Tune-up limit	MPR
Frequency (MHz)	3735	3750	3765	(dBm)	(dB)
70	17.39	17.44	17.39	18.5	0.0
Channel	648668	850000	851332	Tune-up limit	MPR
Frequency (MHz)	3730.02	3750	3749.98	(dBm)	(dB)
60	17.42	17.51	17.43	18.5	0.0
Channel	648334	850000	851668	Tune-up limit	MPR
Frequency (MHz)	3725.01	3750	3744.99	(dBm)	(dB)
50	17.40	17.45	17.59	18.5	0.0
Channel	648000	850000	852000	Tune-up limit	MPR
Frequency (MHz)	3720	3750	3760	(dBm)	(dB)
40	17.45	17.52	17.53	18.5	0.0
Channel	647668	850000	852332	Tune-up limit	MPR
Frequency (MHz)	3715.02	3750.00	3744.98	(dBm)	(dB)
30	17.46	17.49	17.53	18.5	0.0
Channel	647334	850000	852668	Tune-up limit	MPR
Frequency (MHz)	3710.01	3750	3749.99	(dBm)	(dB)
20	17.41	17.50	17.46	18.5	0.0
Channel	647000	850000	852999	Tune-up limit	MPR
Frequency (MHz)	3705	3750	3749.98	(dBm)	(dB)
15	17.40	17.50	17.53	18.5	0.0
Channel	647000	850000	853000	Tune-up limit	MPR
Frequency (MHz)	3700	3750	3745	(dBm)	(dB)
10	17.44	17.45	17.42	18.5	0.0



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BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MFR (dB)
				Low Ch. / Freq	Middle Ch. / Freq	High Ch. / Freq		
Channel				650000	650000	662000		
Frequency (MHz)				3750	3840	3930		
100	Pi2 BPSK	1	1	15.28	15.48	15.50		
100	Pi2 BPSK	1	137	15.32	15.42	15.56	17.0	0.0
100	Pi2 BPSK	1	271	15.33	15.49	15.31		
100	Pi2 BPSK	135	0	15.35	15.52	15.33	17.0	0.0
100	Pi2 BPSK	135	69	15.31	15.36	15.44	17.0	0.0
100	Pi2 BPSK	135	138	15.44	15.35	15.28		
100	Pi2 BPSK	270	0	15.31	15.36	15.27	17.0	0.0
100	QPSK	1	1	15.52	15.56	15.54		
100	QPSK	1	137	15.30	15.56	15.47	17.0	0.0
100	QPSK	1	271	15.50	15.45	15.25		
100	QPSK	135	0	15.51	15.39	15.57	17.0	0.0
100	QPSK	135	69	15.30	15.49	15.30	17.0	0.0
100	QPSK	135	138	15.35	15.37	15.37	17.0	0.0
100	QPSK	270	0	15.27	15.49	15.24		
100	16QAM	1	1	15.53	15.56	15.52	17.0	0.0
100	64QAM	1	1	15.29	15.45	15.25	17.0	0.0
100	256QAM	1	1	15.43	15.48	15.45	17.0	0.0
Channel				648688	650000	662332	Tune-up limit	MFR
Frequency (MHz)				3745.02	3840	3934.98	(dBm)	(dB)
90	Pi2 BPSK	1	1	15.41	15.43	15.29	17.0	0.0
Channel				649334	650000	662666	Tune-up limit	MFR
Frequency (MHz)				3740.01	3840	3939.99	(dBm)	(dB)
80	Pi2 BPSK	1	1	15.50	15.53	15.55	17.0	0.0
Channel				648000	650000	663000	Tune-up limit	MFR
Frequency (MHz)				3735	3840	3945	(dBm)	(dB)
70	Pi2 BPSK	1	1	15.23	15.43	15.44	17.0	0.0
Channel				648688	650000	663332	Tune-up limit	MFR
Frequency (MHz)				3730.02	3840	3949.98	(dBm)	(dB)
60	Pi2 BPSK	1	1	15.43	15.43	15.24	17.0	0.0
Channel				648334	650000	663666	Tune-up limit	MFR
Frequency (MHz)				3725.01	3840	3954.99	(dBm)	(dB)
50	Pi2 BPSK	1	1	15.49	15.31	15.52	17.0	0.0
Channel				648000	650000	664000	Tune-up limit	MFR
Frequency (MHz)				3720	3840	3960	(dBm)	(dB)
40	Pi2 BPSK	1	1	15.34	15.52	15.27	17.0	0.0
Channel				647688	650000	664332	Tune-up limit	MFR
Frequency (MHz)				3715.02	3840.00	3964.98	(dBm)	(dB)
30	Pi2 BPSK	1	1	15.29	15.40	15.53	17.0	0.0
Channel				647334	650000	664666	Tune-up limit	MFR
Frequency (MHz)				3710.01	3840	3969.99	(dBm)	(dB)
20	Pi2 BPSK	1	1	15.32	15.41	15.25	17.0	0.0
Channel				647168	650000	664832	Tune-up limit	MFR
Frequency (MHz)				3707.52	3840	3972.48	(dBm)	(dB)
15	Pi2 BPSK	1	1	15.53	15.55	15.54	17.0	0.0
Channel				647000	650000	665000	Tune-up limit	MFR
Frequency (MHz)				3705	3840	3975	(dBm)	(dB)
10	Pi2 BPSK	1	1	15.32	15.44	15.27	17.0	0.0

Part270 n78 Ant 5 ECI3

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Modula. Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1		15.31		17.0	0.0
100	PI2 BPSK	1	137		15.26			
100	PI2 BPSK	1	271		15.25			
100	PI2 BPSK	135	0		15.36			
100	PI2 BPSK	135	68		15.06			
100	PI2 BPSK	135	138		15.15			
100	PI2 BPSK	270	0		15.21			
100	QPSK	1	1		15.34			
100	QPSK	1	137		15.26			
100	QPSK	1	271		15.30			
100	QPSK	135	0		15.12		17.0	0.0
100	QPSK	135	68		15.26		17.0	0.0
100	QPSK	135	138		15.18		17.0	0.0
100	QPSK	270	0		15.07		17.0	0.0
100	16QAM	1	1		15.36		17.0	0.0
100	64QAM	1	1		15.32		17.0	0.0
100	256QAM	1	1		15.27		17.0	0.0
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	649668	650000	650332	Tune-up limit	MPR
				3745.02	3750	3754.98	(dBm)	(dB)
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	649334	650000	650666	Tune-up limit	MPR
				3740.01	3750	3759.99	(dBm)	(dB)
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	649000	650000	651000	Tune-up limit	MPR
				3735	3750	3765	(dBm)	(dB)
Channel								
Frequency (MHz)								
70	PI2 BPSK	1	1	648666	650000	651332	Tune-up limit	MPR
				3730.02	3750	3769.98	(dBm)	(dB)
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	648334	650000	651666	Tune-up limit	MPR
				3725.01	3750	3774.99	(dBm)	(dB)
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	648000	650000	652000	Tune-up limit	MPR
				3720	3750	3780	(dBm)	(dB)
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	647666	650000	652332	Tune-up limit	MPR
				3715.02	3750.00	3784.98	(dBm)	(dB)
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	647334	650000	652666	Tune-up limit	MPR
				3710.01	3750	3789.99	(dBm)	(dB)
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	647000	650000	653000	Tune-up limit	MPR
				3705	3750	3792.48	(dBm)	(dB)
Channel								
Frequency (MHz)								
15	PI2 BPSK	1	1	646666	650000	653332	Tune-up limit	MPR
				3700	3750	3795	(dBm)	(dB)
Channel								
Frequency (MHz)								
10	PI2 BPSK	1	1	646334	650000	653666	Tune-up limit	MPR
				3695	3750	3798	(dBm)	(dB)



ECI6 Power

Part270 n77 Ant 1 ECI6									
BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)	
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.			
Channel				650000	650000	662000			
Frequency (MHz)				3750	3840	3930			
100	PI2 BPSK	1	1	18.36	18.53	18.53			
100	PI2 BPSK	1	137	18.46	18.50	18.31	20.0	0.0	
100	PI2 BPSK	1	221	18.54	18.60	18.57			
100	PI2 BPSK	135	0	17.98	18.06	17.86	19.5	0.5	
100	PI2 BPSK	135	69	18.41	18.38	18.52	20.0	0.0	
100	PI2 BPSK	135	138	18.21	18.18	18.16	19.5	0.5	
100	PI2 BPSK	270	0	18.22	18.24	18.26			
100	QPSK	1	1	18.49	18.39	18.65			
100	QPSK	1	137	18.50	18.60	18.59	20.0	0.0	
100	QPSK	1	271	18.57	18.55	18.57			
100	QPSK	135	0	18.56	18.67	18.55			
100	QPSK	135	69	18.44	18.50	18.48	20.0	0.0	
100	QPSK	135	138	18.41	18.58	18.38			
100	QPSK	270	0	17.78	17.82	17.55	19.0	1.0	
100	16QAM	1	1	17.35	17.36	17.31	19.0	1.0	
100	64QAM	1	1	15.82	15.96	15.83	17.5	2.5	
100	256QAM	1	1	14.30	14.51	14.50	15.5	4.5	
Channel				689688	690000	682332	Tune-up limit	MPR	
Frequency (MHz)				3745.02	3840	3934.98	(dBm)	(dB)	
90	PI2 BPSK	1	1	18.22	18.21	18.13	20.0	0.0	
Channel				689334	690000	682666	Tune-up limit	MPR	
Frequency (MHz)				3740.01	3840	3930.99	(dBm)	(dB)	
80	PI2 BPSK	1	1	18.22	18.23	18.24	20.0	0.0	
Channel				689000	690000	683000	Tune-up limit	MPR	
Frequency (MHz)				3735	3840	3945	(dBm)	(dB)	
70	PI2 BPSK	1	1	18.46	18.51	18.50	20.0	0.0	
Channel				688688	690000	683332	Tune-up limit	MPR	
Frequency (MHz)				3730.02	3840	3940.98	(dBm)	(dB)	
60	PI2 BPSK	1	1	18.03	18.14	18.15	20.0	0.0	
Channel				688334	690000	683666	Tune-up limit	MPR	
Frequency (MHz)				3725.01	3840	3934.99	(dBm)	(dB)	
50	PI2 BPSK	1	1	18.53	18.59	18.57	20.0	0.0	
Channel				688000	690000	684000	Tune-up limit	MPR	
Frequency (MHz)				3720	3840	3950	(dBm)	(dB)	
40	PI2 BPSK	1	1	18.52	18.54	18.54	20.0	0.0	
Channel				687688	690000	684332	Tune-up limit	MPR	
Frequency (MHz)				3715.02	3840.00	3944.98	(dBm)	(dB)	
30	PI2 BPSK	1	1	18.00	18.64	18.59	20.0	0.0	
Channel				687334	690000	684666	Tune-up limit	MPR	
Frequency (MHz)				3710.01	3840	3940.99	(dBm)	(dB)	
20	PI2 BPSK	1	1	18.57	18.70	18.58	20.0	0.0	
Channel				687168	690000	684832	Tune-up limit	MPR	
Frequency (MHz)				3707.52	3840	3972.48	(dBm)	(dB)	
15	PI2 BPSK	1	1	18.58	18.69	18.58	20.0	0.0	
Channel				687000	690000	685000	Tune-up limit	MPR	
Frequency (MHz)				3705	3840	3975	(dBm)	(dB)	
10	PI2 BPSK	1	1	18.59	18.65	18.55	20.0	0.0	



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BW [MHz]	Modulation	RB Size	RB Offset	Power	Power	Power	Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq	Mid-High Ch. / Freq	High Ch. / Freq		
					850000			
					3750			
					18.38			
100	P12 BPSK	1	1		18.24		20.0	0.0
100	P12 BPSK	1	137		18.35			
100	P12 BPSK	1	271		18.35			
100	P12 BPSK	135	0		17.90		19.5	0.5
100	P12 BPSK	135	69		18.41		20.0	0.0
100	P12 BPSK	135	138		17.88		19.5	0.5
100	P12 BPSK	270	0		17.81			
100	QPSK	1	1		18.42			
100	QPSK	1	137		18.35		20.0	0.0
100	QPSK	1	271		18.37			
100	QPSK	135	0		18.22			
100	QPSK	135	69		18.32		20.0	0.0
100	QPSK	135	138		18.34			
100	QPSK	270	0		17.31		19.0	1.0
100	16QAM	1	1		17.24		19.0	1.0
100	64QAM	1	1		15.79		17.5	2.5
100	256QAM	1	1		14.49		15.5	4.5
				649668	850000	850332	Tune-up limit	MPR
				3745.02	3750	3754.98	(dBm)	(dB)
80	P12 BPSK	1	1		18.35	18.39	20.0	0.0
				649334	850000	850666	Tune-up limit	MPR
				3740.01	3750	3759.99	(dBm)	(dB)
80	P12 BPSK	1	1		18.22	18.30	20.0	0.0
				649000	850000	851000	Tune-up limit	MPR
				3735	3750	3765	(dBm)	(dB)
70	P12 BPSK	1	1		18.32	18.27	20.0	0.0
				648668	850000	851332	Tune-up limit	MPR
				3730.02	3750	3769.98	(dBm)	(dB)
60	P12 BPSK	1	1		18.32	18.34	20.0	0.0
				648334	850000	851666	Tune-up limit	MPR
				3725.01	3750	3774.99	(dBm)	(dB)
50	P12 BPSK	1	1		18.22	18.25	20.0	0.0
				648000	850000	852000	Tune-up limit	MPR
				3720	3750	3760	(dBm)	(dB)
40	P12 BPSK	1	1		18.33	18.35	20.0	0.0
				647668	850000	852332	Tune-up limit	MPR
				3715.02	3750.00	3784.98	(dBm)	(dB)
30	P12 BPSK	1	1		18.37	18.17	20.0	0.0
				647334	850000	852666	Tune-up limit	MPR
				3710.01	3750	3789.99	(dBm)	(dB)
20	P12 BPSK	1	1		18.34	18.25	20.0	0.0
				647000	850000	853000	Tune-up limit	MPR
				3705	3750	3795	(dBm)	(dB)
15	P12 BPSK	1	1		18.32	18.35	20.0	0.0
				647000	850000	853000	Tune-up limit	MPR
				3705	3750	3795	(dBm)	(dB)
10	P12 BPSK	1	1		18.21	18.22	20.0	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				650000	650000	662000		
Frequency (MHz)				3750	3840	3930		
100	PI2 BPSK	1	1	19.22	19.43	19.34		
100	PI2 BPSK	1	137	19.22	19.37	19.28	21.0	0.0
100	PI2 BPSK	1	271	19.26	19.38	19.23		
100	PI2 BPSK	135	0	18.82	19.10	18.80	20.5	0.5
100	PI2 BPSK	135	69	19.26	19.43	19.20	21.0	0.0
100	PI2 BPSK	135	138	18.92	19.11	18.87		
100	PI2 BPSK	270	0	18.86	18.88	18.85	20.5	0.5
100	GFSK	1	1	19.43	19.49	19.41		
100	GFSK	1	137	19.37	19.42	19.36	21.0	0.0
100	GFSK	1	271	19.37	19.47	19.41		
100	GFSK	135	0	19.36	19.31	19.32		
100	GFSK	135	69	19.41	19.38	19.27	21.0	0.0
100	GFSK	135	138	19.39	19.31	19.29		
100	GFSK	270	0	19.33	18.46	18.35	20.0	1.0
100	16QAM	1	1	18.17	18.19	18.12	20.0	1.0
100	64QAM	1	1	18.79	18.79	18.72	18.5	2.5
100	256QAM	1	1	15.25	15.38	15.17	16.5	4.5
Channel				688688	650000	662332	Tune-up limit	MPR
Frequency (MHz)				3745.02	3840	3934.98	(dBm)	(dB)
90	PI2 BPSK	1	1	19.23	19.45	19.39	21.0	0.0
Channel				689334	650000	662688	Tune-up limit	MPR
Frequency (MHz)				3740.01	3840	3930.99	(dBm)	(dB)
80	PI2 BPSK	1	1	19.41	19.42	19.29	21.0	0.0
Channel				689000	650000	663000	Tune-up limit	MPR
Frequency (MHz)				3735	3840	3945	(dBm)	(dB)
70	PI2 BPSK	1	1	19.37	19.33	19.25	21.0	0.0
Channel				688688	650000	663332	Tune-up limit	MPR
Frequency (MHz)				3730.02	3840	3940.98	(dBm)	(dB)
60	PI2 BPSK	1	1	19.29	19.33	19.25	21.0	0.0
Channel				688334	650000	663688	Tune-up limit	MPR
Frequency (MHz)				3725.01	3840	3934.99	(dBm)	(dB)
50	PI2 BPSK	1	1	19.33	19.35	19.33	21.0	0.0
Channel				688000	650000	664000	Tune-up limit	MPR
Frequency (MHz)				3720	3840	3900	(dBm)	(dB)
40	PI2 BPSK	1	1	19.37	19.40	19.38	21.0	0.0
Channel				647688	650000	664332	Tune-up limit	MPR
Frequency (MHz)				3715.02	3840.00	3934.99	(dBm)	(dB)
30	PI2 BPSK	1	1	19.24	19.32	19.39	21.0	0.0
Channel				647334	650000	664688	Tune-up limit	MPR
Frequency (MHz)				3710.01	3840	3928.99	(dBm)	(dB)
20	PI2 BPSK	1	1	19.29	19.43	19.24	21.0	0.0
Channel				647168	650000	664832	Tune-up limit	MPR
Frequency (MHz)				3707.52	3840	3972.49	(dBm)	(dB)
15	PI2 BPSK	1	1	19.23	19.42	19.24	21.0	0.0
Channel				647000	650000	665000	Tune-up limit	MPR
Frequency (MHz)				3705	3840	3970	(dBm)	(dB)
10	PI2 BPSK	1	1	19.33	19.40	19.35	21.0	0.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Mod. Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
	Channel							
	Frequency (MHz)			850000	3750			
100	PI2 BPSK	1	1	19.46				
100	PI2 BPSK	1	137	19.27			21.0	0.0
100	PI2 BPSK	1	271	19.43				
100	PI2 BPSK	136	0	18.92			20.5	0.5
100	PI2 BPSK	136	69	18.35			21.0	0.0
100	PI2 BPSK	136	138	18.88				
100	PI2 BPSK	270	0	18.98			20.5	0.5
100	QPSK	1	1	19.46				
100	QPSK	1	137	19.28			21.0	0.0
100	QPSK	1	271	19.46				
100	QPSK	136	0	19.45				
100	QPSK	136	69	19.42			21.0	0.0
100	QPSK	136	138	19.32				
100	QPSK	270	0	18.37			20.0	1.0
100	16QAM	1	1	18.17			20.0	1.0
100	84QAM	1	1	18.79			18.5	2.5
100	256QAM	1	1	16.46			16.5	3.5
	Channel			649668	850000	850332	Tune-up limit	MPR
	Frequency (MHz)			3745.02	3750	3754.98	(dBm)	(dB)
99	PI2 BPSK	1	1	19.27	19.46	19.23	21.0	0.0
	Channel			648334	850000	850666	Tune-up limit	MPR
	Frequency (MHz)			3740.01	3750	3759.99	(dBm)	(dB)
88	PI2 BPSK	1	1	18.76	19.32	19.11	21.0	0.0
	Channel			648000	850000	851000	Tune-up limit	MPR
	Frequency (MHz)			3735	3750	3765	(dBm)	(dB)
70	PI2 BPSK	1	1	19.09	19.43	19.20	21.0	0.0
	Channel			648668	850000	851332	Tune-up limit	MPR
	Frequency (MHz)			3730.02	3750	3769.98	(dBm)	(dB)
60	PI2 BPSK	1	1	18.10	19.25	19.09	21.0	0.0
	Channel			648334	850000	851666	Tune-up limit	MPR
	Frequency (MHz)			3725.01	3750	3774.99	(dBm)	(dB)
50	PI2 BPSK	1	1	19.23	19.34	19.17	21.0	0.0
	Channel			648000	850000	852000	Tune-up limit	MPR
	Frequency (MHz)			3720	3750	3760	(dBm)	(dB)
40	PI2 BPSK	1	1	19.10	19.31	19.09	21.0	0.0
	Channel			647668	850000	852332	Tune-up limit	MPR
	Frequency (MHz)			3715.02	3750.00	3764.98	(dBm)	(dB)
30	PI2 BPSK	1	1	19.08	19.28	19.19	21.0	0.0
	Channel			647334	850000	852666	Tune-up limit	MPR
	Frequency (MHz)			3710.01	3750	3769.99	(dBm)	(dB)
20	PI2 BPSK	1	1	19.15	19.28	19.20	21.0	0.0
	Channel			647168	850000	852832	Tune-up limit	MPR
	Frequency (MHz)			3705.02	3750	3762.98	(dBm)	(dB)
15	PI2 BPSK	1	1	19.27	19.41	19.23	21.0	0.0
	Channel			647000	850000	853000	Tune-up limit	MPR
	Frequency (MHz)			3700	3750	3760	(dBm)	(dB)
10	PI2 BPSK	1	1	19.20	19.31	19.12	21.0	0.0

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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				506202	518598	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	18.07	18.22	18.20	19.5	0.0
100	PI/2 BPSK	1	137	18.01	18.12	18.10		
100	PI/2 BPSK	1	271	18.17	18.15	18.07		
100	PI/2 BPSK	135	0	18.04	18.23	18.09	19.5	0.0
100	PI/2 BPSK	135	69	18.03	18.01	18.14	19.5	0.0
100	PI/2 BPSK	135	135	18.12	18.05	18.04		
100	PI/2 BPSK	270	0	18.14	18.20	17.96	19.5	0.0
100	QPSK	1	1	18.22	18.25	18.24		
100	QPSK	1	137	18.07	18.20	18.22	19.5	0.0
100	QPSK	1	271	18.13	18.13	18.04		
100	QPSK	135	0	18.18	18.07	18.26	19.5	0.0
100	QPSK	135	69	18.00	18.24	17.87	19.5	0.0
100	QPSK	135	135	18.07	18.11	18.09	19.5	0.0
100	QPSK	270	0	18.07	18.11	17.97		
100	16QAM	1	1	18.15	18.25	18.20	19.5	0.0
100	64QAM	1	1	17.82	18.15	17.94	19.5	0.0
100	256QAM	1	1	17.26	18.05	17.83	19.5	1.0
Channel				506200	518598	528998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	PI/2 BPSK	1	1	18.11	18.26	18.18	19.5	0.0
Channel				507204	518598	528998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2538.02	2592.99	2649.99		
80	PI/2 BPSK	1	1	18.16	18.24	18.13	19.5	0.0
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2533.01	2592.99	2655		
70	PI/2 BPSK	1	1	18.09	18.16	18.12	19.5	0.0
Channel				506200	518598	531998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2528	2592.99	2661.98		
60	PI/2 BPSK	1	1	18.11	18.15	18.10	19.5	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
50	PI/2 BPSK	1	1	18.15	18.22	18.10	19.5	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	PI/2 BPSK	1	1	18.07	18.24	18.09	19.5	0.0
Channel				502200	518598	534998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	PI/2 BPSK	1	1	18.11	18.16	18.15	19.5	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
20	PI/2 BPSK	1	1	18.10	18.19	18.13	19.5	0.0
Channel				500700	518598	536498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501.5	2592.99	2682.48		
15	PI/2 BPSK	1	1	18.12	18.17	18.17	19.5	0.0
Channel				500202	518598	537000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501.01	2592.99	2685		
10	PI/2 BPSK	1	1	18.15	18.23	18.15	19.5	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				650000	650000	662000		
Frequency (MHz)				3750	3840	3930		
100	Pi/2 BPSK	1	1	18.90	19.00	18.98		
100	Pi/2 BPSK	1	137	18.84	18.92	19.00	20.5	0.0
100	Pi/2 BPSK	1	271	19.01	19.96	18.98		
100	Pi/2 BPSK	135	0	18.90	19.05	18.95	20.5	0.0
100	Pi/2 BPSK	135	69	18.79	18.83	18.93	20.5	0.0
100	Pi/2 BPSK	135	138	18.91	19.90	18.91		
100	Pi/2 BPSK	270	0	18.89	18.95	18.90	20.5	0.0
100	GFSK	1	1	18.96	19.08	18.99		
100	GFSK	1	137	18.91	19.05	18.92	20.5	0.0
100	GFSK	1	271	18.98	19.00	18.82		
100	GFSK	135	0	18.99	18.80	19.00	20.5	0.0
100	GFSK	135	69	18.73	19.00	18.83	20.5	0.0
100	GFSK	135	138	18.90	18.94	18.91	20.5	0.0
100	GFSK	270	0	18.93	18.87	18.79	20.5	0.0
100	16QAM	1	1	18.97	19.01	18.95	20.5	0.0
100	64QAM	1	1	18.68	18.80	18.77	20.5	0.0
100	256QAM	1	1	17.64	17.81	17.85	19.5	1.0
Channel				648688	650000	662332	Tune-up limit	MPR
Frequency (MHz)				3745.02	3840	3934.98	(dBm)	(dB)
90	Pi/2 BPSK	1	1	18.92	18.91	18.94	20.5	0.0
Channel				648334	650000	662688	Tune-up limit	MPR
Frequency (MHz)				3740.01	3840	3939.99	(dBm)	(dB)
80	Pi/2 BPSK	1	1	18.73	18.77	18.74	20.5	0.0
Channel				648000	650000	663000	Tune-up limit	MPR
Frequency (MHz)				3735	3840	3945	(dBm)	(dB)
70	Pi/2 BPSK	1	1	18.83	18.79	18.83	20.5	0.0
Channel				648688	650000	663332	Tune-up limit	MPR
Frequency (MHz)				3730.02	3840	3949.98	(dBm)	(dB)
60	Pi/2 BPSK	1	1	18.83	18.79	18.83	20.5	0.0
Channel				648334	650000	663688	Tune-up limit	MPR
Frequency (MHz)				3725.01	3840	3954.99	(dBm)	(dB)
50	Pi/2 BPSK	1	1	18.81	18.82	18.81	20.5	0.0
Channel				648000	650000	664000	Tune-up limit	MPR
Frequency (MHz)				3720	3840	3960	(dBm)	(dB)
40	Pi/2 BPSK	1	1	18.52	18.63	18.55	20.5	0.0
Channel				647688	650000	664332	Tune-up limit	MPR
Frequency (MHz)				3715.02	3840.00	3964.98	(dBm)	(dB)
30	Pi/2 BPSK	1	1	18.81	18.80	18.83	20.5	0.0
Channel				647334	650000	664688	Tune-up limit	MPR
Frequency (MHz)				3710.01	3840	3969.99	(dBm)	(dB)
20	Pi/2 BPSK	1	1	18.94	18.81	18.92	20.5	0.0
Channel				647168	650000	664832	Tune-up limit	MPR
Frequency (MHz)				3707.52	3840	3972.48	(dBm)	(dB)
15	Pi/2 BPSK	1	1	18.53	18.62	18.52	20.5	0.0
Channel				647000	650000	665000	Tune-up limit	MPR
Frequency (MHz)				3705	3840	3975	(dBm)	(dB)
10	Pi/2 BPSK	1	1	18.76	18.83	18.81	20.5	0.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Mod. Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)	
	Channel								
	Frequency (MHz)				850000	3750			
100	PI2 BPSK	1	1		18.82		20.5	0.0	
100	PI2 BPSK	1	137		18.82				
100	PI2 BPSK	1	271		18.71				
100	PI2 BPSK	136	0		18.85		20.5	0.0	
100	PI2 BPSK	136	69		18.81		20.5	0.0	
100	PI2 BPSK	136	138		18.87		20.5	0.0	
100	PI2 BPSK	270	0		18.85				
100	QPSK	1	1		18.92				
100	QPSK	1	137		18.86		20.5	0.0	
100	QPSK	1	271		18.78				
100	QPSK	136	0		18.84		20.5	0.0	
100	QPSK	136	69		18.87		20.5	0.0	
100	QPSK	136	138		18.78		20.5	0.0	
100	QPSK	270	0		18.82				
100	16QAM	1	1		18.83		20.5	0.0	
100	84QAM	1	1		18.53		20.5	0.0	
100	256QAM	1	1		17.99		19.5	1.0	
	Channel			649868	850000	850332	Tune-up limit	MPR	
	Frequency (MHz)			3746.02	3750	3754.98	(dBm)	(dB)	
99	PI2 BPSK	1	1		18.82	18.54	18.51	20.5	0.0
	Channel			649334	850000	850666	Tune-up limit	MPR	
	Frequency (MHz)			3749.01	3750	3759.99	(dBm)	(dB)	
88	PI2 BPSK	1	1		18.51	18.52	18.51	20.5	0.0
	Channel			649000	850000	851000	Tune-up limit	MPR	
	Frequency (MHz)			3735	3750	3765	(dBm)	(dB)	
70	PI2 BPSK	1	1		18.53	18.54	18.50	20.5	0.0
	Channel			648668	850000	851332	Tune-up limit	MPR	
	Frequency (MHz)			3730.02	3750	3769.98	(dBm)	(dB)	
60	PI2 BPSK	1	1		18.51	18.54	18.53	20.5	0.0
	Channel			648334	850000	851666	Tune-up limit	MPR	
	Frequency (MHz)			3726.01	3750	3774.99	(dBm)	(dB)	
50	PI2 BPSK	1	1		18.51	18.54	18.52	20.5	0.0
	Channel			648000	850000	852000	Tune-up limit	MPR	
	Frequency (MHz)			3720	3750	3780	(dBm)	(dB)	
40	PI2 BPSK	1	1		18.52	18.50	18.50	20.5	0.0
	Channel			647668	850000	852332	Tune-up limit	MPR	
	Frequency (MHz)			3716.02	3750.00	3784.98	(dBm)	(dB)	
30	PI2 BPSK	1	1		18.52	18.54	18.53	20.5	0.0
	Channel			647334	850000	852666	Tune-up limit	MPR	
	Frequency (MHz)			3710.01	3750	3789.99	(dBm)	(dB)	
20	PI2 BPSK	1	1		18.51	18.51	18.50	20.5	0.0
	Channel			647000	850000	852932	Tune-up limit	MPR	
	Frequency (MHz)			3704.02	3750	3792.98	(dBm)	(dB)	
15	PI2 BPSK	1	1		18.52	18.52	18.52	20.5	0.0
	Channel			647000	850000	853000	Tune-up limit	MPR	
	Frequency (MHz)			3700	3750	3795	(dBm)	(dB)	
10	PI2 BPSK	1	1		18.51	18.51	18.52	20.5	0.0



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BW (MHz)	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MRR (dB)
				Low Ch. / Freq. 650000	Middle Ch. / Freq. 650000	High Ch. / Freq. 662000		
Channel				3750	3840	3930		
100	Pi2 BPSK	1	1	19.47	19.55	19.32		
100	Pi2 BPSK	1	137	19.55	19.46	19.42	20.5	0.0
100	Pi2 BPSK	1	271	19.37	19.41	19.24		
100	Pi2 BPSK	135	0	18.97	19.18	18.87	20.0	0.5
100	Pi2 BPSK	135	69	19.44	19.41	19.40	20.5	0.0
100	Pi2 BPSK	135	138	19.09	19.00	18.94	20.0	0.5
100	Pi2 BPSK	270	0	19.17	19.12	18.88		
100	QPSK	1	1	19.56	19.66	19.46		
100	QPSK	1	137	19.57	19.54	19.41	20.5	0.0
100	QPSK	1	271	19.52	19.52	19.30		
100	QPSK	135	0	19.43	19.41	19.37		
100	QPSK	135	69	19.57	19.40	19.28	20.5	0.0
100	QPSK	135	138	19.47	19.51	19.30		
100	QPSK	270	0	18.46	18.52	18.51	19.5	1.0
100	16QAM	1	1	18.40	18.40	18.28	19.5	1.0
100	64QAM	1	1	18.74	18.30	18.81	18.0	2.5
100	256QAM	1	1	15.27	15.45	15.33	16.0	4.5
Channel				648668	650000	662332	Tune-up limit	MRR
Frequency (MHz)				3745.02	3840	3934.98	(dBm)	(dB)
90	Pi2 BPSK	1	1	19.40	19.41	19.17	20.5	0.0
Channel				649334	650000	662666	Tune-up limit	MRR
Frequency (MHz)				3740.01	3840	3930.99	(dBm)	(dB)
80	Pi2 BPSK	1	1	19.45	19.30	19.13	20.5	0.0
Channel				649000	650000	663000	Tune-up limit	MRR
Frequency (MHz)				3735	3840	3945	(dBm)	(dB)
70	Pi2 BPSK	1	1	19.43	19.51	19.31	20.5	0.0
Channel				648668	650000	663332	Tune-up limit	MRR
Frequency (MHz)				3730.02	3840	3940.98	(dBm)	(dB)
60	Pi2 BPSK	1	1	19.43	19.53	19.27	20.5	0.0
Channel				648334	650000	663666	Tune-up limit	MRR
Frequency (MHz)				3725.01	3840	3944.99	(dBm)	(dB)
50	Pi2 BPSK	1	1	19.53	19.53	19.34	20.5	0.0
Channel				648000	650000	664000	Tune-up limit	MRR
Frequency (MHz)				3720	3840	3950	(dBm)	(dB)
40	Pi2 BPSK	1	1	19.36	19.42	19.45	20.5	0.0
Channel				647668	650000	664332	Tune-up limit	MRR
Frequency (MHz)				3715.02	3840.00	3944.98	(dBm)	(dB)
30	Pi2 BPSK	1	1	19.42	19.55	19.28	20.5	0.0
Channel				647334	650000	664666	Tune-up limit	MRR
Frequency (MHz)				3710.01	3840	3949.99	(dBm)	(dB)
20	Pi2 BPSK	1	1	19.53	19.42	19.27	20.5	0.0
Channel				647168	650000	664832	Tune-up limit	MRR
Frequency (MHz)				3707.52	3840	3972.48	(dBm)	(dB)
15	Pi2 BPSK	1	1	19.45	19.52	19.43	20.5	0.0
Channel				647000	650000	665000	Tune-up limit	MRR
Frequency (MHz)				3705	3840	3975	(dBm)	(dB)
10	Pi2 BPSK	1	1	19.51	19.56	19.38	20.5	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq	Mid/High Ch. / Freq	High Ch. / Freq		
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1		19.42		20.5	0.0
100	PI2 BPSK	1	137		19.43			
100	PI2 BPSK	1	271		19.45			
100	PI2 BPSK	135	0		19.06		20.0	0.5
100	PI2 BPSK	135	68		19.50		20.5	0.0
100	PI2 BPSK	135	138		19.21		20.0	0.5
100	PI2 BPSK	270	0		19.16			
100	QPSK	1	1		19.58			
100	QPSK	1	137		19.58		20.5	0.0
100	QPSK	1	271		19.58			
100	QPSK	135	0		19.06			
100	QPSK	135	68		19.45		20.5	0.0
100	QPSK	135	138		19.49			
100	QPSK	270	0		18.55		18.5	1.0
100	16QAM	1	1		18.42		19.5	1.0
100	64QAM	1	1		18.99		18.0	2.5
100	256QAM	1	1		15.90		16.0	3.5
Channel				649668	650000	650332	Tune-up limit	MPR
Frequency (MHz)				3745.02	3750	3754.98	(dBm)	(dB)
80	PI2 BPSK	1	1	18.53	19.59	19.51	20.5	0.0
Channel				649334	650000	650666	Tune-up limit	MPR
Frequency (MHz)				3740.01	3750	3759.99	(dBm)	(dB)
80	PI2 BPSK	1	1	18.54	19.53	19.40	20.5	0.0
Channel				649000	650000	651000	Tune-up limit	MPR
Frequency (MHz)				3735	3750	3765	(dBm)	(dB)
70	PI2 BPSK	1	1	19.52	19.53	19.49	20.5	0.0
Channel				648668	650000	651332	Tune-up limit	MPR
Frequency (MHz)				3730.02	3750	3769.98	(dBm)	(dB)
80	PI2 BPSK	1	1	18.43	19.53	19.43	20.5	0.0
Channel				648334	650000	651666	Tune-up limit	MPR
Frequency (MHz)				3725.01	3750	3774.99	(dBm)	(dB)
50	PI2 BPSK	1	1	18.50	19.33	19.41	20.5	0.0
Channel				648000	650000	652000	Tune-up limit	MPR
Frequency (MHz)				3720	3750	3760	(dBm)	(dB)
40	PI2 BPSK	1	1	19.52	19.50	19.36	20.5	0.0
Channel				647668	650000	650332	Tune-up limit	MPR
Frequency (MHz)				3715.02	3750.00	3764.98	(dBm)	(dB)
30	PI2 BPSK	1	1	19.42	19.41	19.33	20.5	0.0
Channel				647334	650000	650666	Tune-up limit	MPR
Frequency (MHz)				3710.01	3750	3769.99	(dBm)	(dB)
20	PI2 BPSK	1	1	19.54	19.52	19.46	20.5	0.0
Channel				647168	650000	650332	Tune-up limit	MPR
Frequency (MHz)				3705.02	3750	3762.98	(dBm)	(dB)
15	PI2 BPSK	1	1	19.47	19.53	19.52	20.5	0.0
Channel				647000	650000	650000	Tune-up limit	MPR
Frequency (MHz)				3700	3750	3765	(dBm)	(dB)
10	PI2 BPSK	1	1	19.57	19.50	19.50	20.5	0.0



ECI7 Power

Part270 n77 Ant 1 ECI7

BW (MHz)	Modulation	RB Size	RB Offset	Power			Turn-up limit (dBm)	MPR (dB)
				Low Ch. / Freq.	Middle Ch. / Freq.	High Ch. / Freq.		
				850000	8940	652000		
				3750	3840	3930		
100	PI2 BPSK	1	1	18.35	18.53	18.53		
100	PI2 BPSK	1	137	18.46	18.50	18.31	20.0	0.0
100	PI2 BPSK	1	271	18.54	18.60	18.57		
100	PI2 BPSK	135	0	17.98	18.08	17.88		0.5
100	PI2 BPSK	135	69	18.41	18.58	18.52	20.0	0.0
100	PI2 BPSK	135	138	18.21	18.18	18.16		0.5
100	PI2 BPSK	270	0	18.22	18.24	18.28		
100	QPSK	1	1	18.49	18.79	18.85		
100	QPSK	1	137	18.80	18.60	18.59	20.0	0.0
100	QPSK	1	271	18.57	18.55	18.57		
100	QPSK	135	0	18.59	18.67	18.59		
100	QPSK	135	69	18.44	18.50	18.48	20.0	0.0
100	QPSK	135	138	18.41	18.58	18.38		
100	QPSK	270	0	17.78	17.82	17.59		1.0
100	19QAM	1	1	17.33	17.36	17.31		1.0
100	64QAM	1	1	15.82	15.58	15.83		2.5
100	256QAM	1	1	14.36	14.51	14.50		4.5
				849868	850000	849332	Turn-up limit (dBm)	MPR (dB)
				3745.02	3840	3934.98		
80	PI2 BPSK	1	1	18.22	18.21	18.13	20.0	0.0
				849334	850000	849866	Turn-up limit (dBm)	MPR (dB)
				3740.01	3840	3939.99		
80	PI2 BPSK	1	1	18.22	18.23	18.24	20.0	0.0
				849000	850000	849000	Turn-up limit (dBm)	MPR (dB)
				3735	3840	3945		
70	PI2 BPSK	1	1	18.48	18.61	18.60	20.0	0.0
				848668	850000	848332	Turn-up limit (dBm)	MPR (dB)
				3730.02	3840	3949.98		
60	PI2 BPSK	1	1	18.10	18.14	18.52	20.0	0.0
				848334	850000	848666	Turn-up limit (dBm)	MPR (dB)
				3725.01	3840	3954.99		
60	PI2 BPSK	1	1	18.53	18.59	18.57	20.0	0.0
				848000	850000	848000	Turn-up limit (dBm)	MPR (dB)
				3720	3840	3950		
40	PI2 BPSK	1	1	18.59	18.54	18.50	20.0	0.0
				847668	850000	848332	Turn-up limit (dBm)	MPR (dB)
				3715.02	3840.00	3954.98		
30	PI2 BPSK	1	1	18.10	18.14	18.59	20.0	0.0
				847334	850000	848666	Turn-up limit (dBm)	MPR (dB)
				3710.01	3840	3959.99		
20	PI2 BPSK	1	1	18.57	18.70	18.52	20.0	0.0
				847168	850000	848832	Turn-up limit (dBm)	MPR (dB)
				3707.52	3840	3972.48		
15	PI2 BPSK	1	1	18.55	18.69	18.52	20.0	0.0
				847000	850000	849000	Turn-up limit (dBm)	MPR (dB)
				3705	3840	3975		
10	PI2 BPSK	1	1	18.59	18.65	18.52	20.0	0.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power			Tune-up limit (dBm)	MPR (dB)
				Low Ch. / Freq	Mid-High Ch. / Freq	High Ch. / Freq		
						850000		
						3750		
						18.38		
100	PI2 BPSK	1	1			18.24	20.0	0.0
100	PI2 BPSK	1	137			18.35		
100	PI2 BPSK	1	271			18.35		
100	PI2 BPSK	135	0			17.90	19.5	0.5
100	PI2 BPSK	135	69			18.41	20.0	0.0
100	PI2 BPSK	135	138			17.88	19.5	0.5
100	PI2 BPSK	270	0			17.81		
100	QPSK	1	1			18.42		
100	QPSK	1	137			18.35	20.0	0.0
100	QPSK	1	271			18.37		
100	QPSK	135	0			18.22		
100	QPSK	135	69			18.32	20.0	0.0
100	QPSK	135	138			18.34		
100	QPSK	270	0			17.31	19.0	1.0
100	16QAM	1	1			17.24	19.0	1.0
100	64QAM	1	1			15.79	17.5	2.5
100	256QAM	1	1			14.49	15.5	4.5
				649668	850000	850332	Tune-up limit	MPR
				3745.02	3750	3754.98	(dBm)	(dB)
80	PI2 BPSK	1	1			18.35	20.0	0.0
				649334	850000	850666	Tune-up limit	MPR
				3740.01	3750	3759.99	(dBm)	(dB)
80	PI2 BPSK	1	1			18.22	20.0	0.0
				649000	850000	851000	Tune-up limit	MPR
				3735	3750	3765	(dBm)	(dB)
70	PI2 BPSK	1	1			18.27	20.0	0.0
				648668	850000	851332	Tune-up limit	MPR
				3730.02	3750	3769.98	(dBm)	(dB)
60	PI2 BPSK	1	1			18.32	20.0	0.0
				648334	850000	851666	Tune-up limit	MPR
				3725.01	3750	3774.99	(dBm)	(dB)
50	PI2 BPSK	1	1			18.22	20.0	0.0
				648000	850000	852000	Tune-up limit	MPR
				3720	3750	3760	(dBm)	(dB)
40	PI2 BPSK	1	1			18.33	20.0	0.0
				647668	850000	852332	Tune-up limit	MPR
				3715.02	3750.00	3784.98	(dBm)	(dB)
30	PI2 BPSK	1	1			18.17	20.0	0.0
				647334	850000	852666	Tune-up limit	MPR
				3710.01	3750	3789.99	(dBm)	(dB)
20	PI2 BPSK	1	1			18.14	20.0	0.0
				647000	850000	853000	Tune-up limit	MPR
				3705	3750	3795	(dBm)	(dB)
15	PI2 BPSK	1	1			18.32	20.0	0.0
				647000	850000	853000	Tune-up limit	MPR
				3705	3750	3795	(dBm)	(dB)
10	PI2 BPSK	1	1			18.21	20.0	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				650000	650000	662000		
Frequency (MHz)				3750	3840	3930		
100	Pi/2 BPSK	1	1	14,88	14,91	14,90		
100	Pi/2 BPSK	1	137	14,76	14,80	14,82	16,0	0,0
100	Pi/2 BPSK	1	271	14,68	14,90	14,71		
100	Pi/2 BPSK	135	0	14,81	15,00	14,76	16,0	0,0
100	Pi/2 BPSK	135	69	14,85	14,87	14,76	16,0	0,0
100	Pi/2 BPSK	135	138	14,86	14,94	14,75		
100	Pi/2 BPSK	270	0	14,93	15,02	14,90	16,0	0,0
100	QPSK	1	1	14,92	15,06	14,73		
100	QPSK	1	137	14,75	14,89	14,92	16,0	0,0
100	QPSK	1	271	14,88	14,89	14,87		
100	QPSK	135	0	14,84	14,83	14,83		
100	QPSK	135	69	14,79	15,00	14,70	16,0	0,0
100	QPSK	135	138	14,75	14,99	14,87		
100	16QAM	270	0	14,90	14,89	14,86	16,0	0,0
100	16QAM	1	1	14,93	14,87	14,87	16,0	0,0
100	64QAM	1	1	14,82	14,78	14,82	16,0	0,0
100	256QAM	1	1	14,75	14,99	14,87	16,0	0,0
Channel				688688	650000	662332	Tune-up limit	MPR
Frequency (MHz)				3745,02	3840	3934,98	(dBm)	(dB)
90	Pi/2 BPSK	1	1	14,63	14,93	14,74	16,0	0,0
Channel				689334	650000	662688	Tune-up limit	MPR
Frequency (MHz)				3740,01	3840	3939,99	(dBm)	(dB)
80	Pi/2 BPSK	1	1	14,73	14,92	14,71	16,0	0,0
Channel				689000	650000	663000	Tune-up limit	MPR
Frequency (MHz)				3735	3840	3945	(dBm)	(dB)
70	Pi/2 BPSK	1	1	14,72	14,93	14,74	16,0	0,0
Channel				688688	650000	663332	Tune-up limit	MPR
Frequency (MHz)				3730,02	3840	3949,98	(dBm)	(dB)
60	Pi/2 BPSK	1	1	14,72	14,95	14,70	16,0	0,0
Channel				688334	650000	663666	Tune-up limit	MPR
Frequency (MHz)				3725,01	3840	3954,99	(dBm)	(dB)
50	Pi/2 BPSK	1	1	14,71	14,95	14,70	16,0	0,0
Channel				688000	650000	664000	Tune-up limit	MPR
Frequency (MHz)				3720	3840	3960	(dBm)	(dB)
40	Pi/2 BPSK	1	1	14,69	14,95	14,74	16,0	0,0
Channel				647688	650000	664332	Tune-up limit	MPR
Frequency (MHz)				3715,02	3840,00	3964,98	(dBm)	(dB)
30	Pi/2 BPSK	1	1	14,71	14,95	14,72	16,0	0,0
Channel				647334	650000	664666	Tune-up limit	MPR
Frequency (MHz)				3710,01	3840	3969,99	(dBm)	(dB)
20	Pi/2 BPSK	1	1	14,72	14,91	14,70	16,0	0,0
Channel				647168	650000	664832	Tune-up limit	MPR
Frequency (MHz)				3707,52	3840	3972,48	(dBm)	(dB)
15	Pi/2 BPSK	1	1	14,75	14,93	14,71	16,0	0,0
Channel				647000	650000	665000	Tune-up limit	MPR
Frequency (MHz)				3705	3840	3975	(dBm)	(dB)
10	Pi/2 BPSK	1	1	14,70	14,91	14,81	16,0	0,0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Mid Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)	
Channel									
Frequency (MHz)									
100	Pl2 BPSK	1	1		14.62				
100	Pl2 BPSK	1	137		14.38		18.0	0.0	
100	Pl2 BPSK	1	271		14.60				
100	Pl2 BPSK	136	0		14.48		18.0	0.0	
100	Pl2 BPSK	136	69		14.81		18.0	0.0	
100	Pl2 BPSK	136	138		14.62				
100	Pl2 BPSK	270	0		14.75		18.0	0.0	
100	QPSK	1	1		14.56				
100	QPSK	1	137		14.38		18.0	0.0	
100	QPSK	1	271		14.63				
100	QPSK	136	0		14.64				
100	QPSK	136	69		14.81		18.0	0.0	
100	QPSK	136	138		14.45				
100	QPSK	270	0		14.36		18.0	0.0	
100	16QAM	1	1		13.43		18.0	0.0	
100	84QAM	1	1		13.39		18.0	0.0	
100	256QAM	1	1		14.01		18.0	0.0	
Channel									
Frequency (MHz)									
				649868	650000	650332	Tune-up limit	MPR	
				3745.02	3750	3754.98	(dBm)	(dB)	
99	Pl2 BPSK	1	1		14.62	14.59	14.60	18.0	0.0
Channel									
Frequency (MHz)									
				649334	650000	650666	Tune-up limit	MPR	
				3749.01	3750	3759.99	(dBm)	(dB)	
89	Pl2 BPSK	1	1		14.53	14.53	14.51	18.0	0.0
Channel									
Frequency (MHz)									
				649000	650000	651000	Tune-up limit	MPR	
				3745	3750	3765	(dBm)	(dB)	
79	Pl2 BPSK	1	1		14.57	14.56	14.57	18.0	0.0
Channel									
Frequency (MHz)									
				648668	650000	651332	Tune-up limit	MPR	
				3749.02	3750	3769.98	(dBm)	(dB)	
69	Pl2 BPSK	1	1		14.59	14.51	14.57	18.0	0.0
Channel									
Frequency (MHz)									
				648334	650000	651666	Tune-up limit	MPR	
				3745.01	3750	3774.99	(dBm)	(dB)	
59	Pl2 BPSK	1	1		14.54	14.56	14.53	18.0	0.0
Channel									
Frequency (MHz)									
				648000	650000	652000	Tune-up limit	MPR	
				3749	3750	3760	(dBm)	(dB)	
49	Pl2 BPSK	1	1		14.54	14.55	14.56	18.0	0.0
Channel									
Frequency (MHz)									
				647668	650000	650332	Tune-up limit	MPR	
				3745.02	3760.00	3764.98	(dBm)	(dB)	
39	Pl2 BPSK	1	1		14.59	14.52	14.53	18.0	0.0
Channel									
Frequency (MHz)									
				647334	650000	652666	Tune-up limit	MPR	
				3749.01	3750	3769.99	(dBm)	(dB)	
29	Pl2 BPSK	1	1		14.59	14.50	14.52	18.0	0.0
Channel									
Frequency (MHz)									
				647168	650000	652832	Tune-up limit	MPR	
				3749.82	3750	3762.48	(dBm)	(dB)	
19	Pl2 BPSK	1	1		14.59	14.52	14.57	18.0	0.0
Channel									
Frequency (MHz)									
				647000	650000	653000	Tune-up limit	MPR	
				3749	3750	3760	(dBm)	(dB)	
10	Pl2 BPSK	1	1		14.55	14.54	14.51	18.0	0.0



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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				506202	518598	528000		
Frequency (MHz)				2546.01	2592.99	2640		
100	PI/2 BPSK	1	1	10.11	10.26	10.16	11.0	0.0
100	PI/2 BPSK	1	137	10.10	10.12	10.19		
100	PI/2 BPSK	1	271	10.20	10.15	10.09		
100	PI/2 BPSK	135	0	10.06	10.19	10.07	11.0	0.0
100	PI/2 BPSK	135	69	9.99	10.06	10.12	11.0	0.0
100	PI/2 BPSK	135	135	10.14	10.07	10.02		
100	PI/2 BPSK	270	0	10.03	10.16	9.99	11.0	0.0
100	QPSK	1	1	10.18	10.39	10.29		
100	QPSK	1	137	10.09	10.21	10.23	11.0	0.0
100	QPSK	1	271	10.07	10.12	9.94		
100	QPSK	135	0	10.19	10.09	10.24		
100	QPSK	135	69	9.93	10.16	10.03	11.0	0.0
100	QPSK	135	135	10.06	10.09	10.07		
100	QPSK	270	0	10.07	10.06	9.97	11.0	0.0
100	16QAM	1	1	10.16	10.34	10.24	11.0	0.0
100	64QAM	1	1	9.92	10.08	9.94	11.0	0.0
100	256QAM	1	1	10.08	10.09	10.17	11.0	0.0
Channel				506200	518598	528998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2541	2592.99	2644.98		
90	PI/2 BPSK	1	1	10.00	10.01	10.09	11.0	0.0
Channel				507204	518598	528998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2538.02	2592.99	2649.99		
80	PI/2 BPSK	1	1	10.01	10.01	10.08	11.0	0.0
Channel				506202	518598	531000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2533.01	2592.99	2655		
70	PI/2 BPSK	1	1	10.00	10.00	10.09	11.0	0.0
Channel				506200	518598	531998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2530	2592.99	2652.98		
60	PI/2 BPSK	1	1	10.01	10.00	10.09	11.0	0.0
Channel				504204	518598	532998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2521.02	2592.99	2654.99		
50	PI/2 BPSK	1	1	10.00	10.00	10.09	11.0	0.0
Channel				503202	518598	534000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2516.01	2592.99	2670		
40	PI/2 BPSK	1	1	10.00	10.00	10.09	11.0	0.0
Channel				502200	518598	534998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2511	2592.99	2674.98		
30	PI/2 BPSK	1	1	10.01	10.01	10.08	11.0	0.0
Channel				501204	518598	535998	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2508.02	2592.99	2679.99		
20	PI/2 BPSK	1	1	10.01	10.01	10.08	11.0	0.0
Channel				500700	518598	536498	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2503.0	2592.99	2674.98		
15	PI/2 BPSK	1	1	10.01	10.00	10.09	11.0	0.0
Channel				500202	518598	537000	Tune-up limit (dBm)	MPR (dB)
Frequency (MHz)				2501.01	2592.99	2685		
10	PI/2 BPSK	1	1	10.00	10.01	10.09	11.0	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				650000	650000	662000		
Frequency (MHz)				3750	3840	3930		
100	Pi/2 BPSK	1	1	13.29	13.51	13.47		
100	Pi/2 BPSK	1	137	13.29	13.43	13.56	15.0	0.0
100	Pi/2 BPSK	1	271	13.52	13.49	13.29		
100	Pi/2 BPSK	135	0	13.38	13.50	13.35	15.0	0.0
100	Pi/2 BPSK	135	69	13.32	13.34	13.47	15.0	0.0
100	Pi/2 BPSK	135	138	13.45	13.37	13.26		
100	Pi/2 BPSK	270	0	13.34	13.38	13.26	15.0	0.0
100	GFSK	1	1	13.54	13.52	13.55		
100	GFSK	1	137	13.52	13.55	13.46	15.0	0.0
100	GFSK	1	271	13.49	13.45	13.28		
100	GFSK	135	0	13.54	13.46	13.56	15.0	0.0
100	GFSK	135	69	13.51	13.50	13.27	15.0	0.0
100	GFSK	135	138	13.32	13.37	13.37	15.0	0.0
100	GFSK	270	0	13.50	13.42	13.25		
100	16QAM	1	1	13.54	13.55	13.50	15.0	0.0
100	64QAM	1	1	13.28	13.45	13.24	15.0	0.0
100	256QAM	1	1	13.43	13.45	13.45	15.0	0.0
Channel				688688	650000	662332	Tune-up limit	MPR
Frequency (MHz)				3745.02	3840	3934.98	(dBm)	(dB)
90	Pi/2 BPSK	1	1	13.40	13.44	13.29	15.0	0.0
Channel				689334	650000	662688	Tune-up limit	MPR
Frequency (MHz)				3740.01	3840	3930.99	(dBm)	(dB)
80	Pi/2 BPSK	1	1	13.52	13.57	13.55	15.0	0.0
Channel				689000	650000	663000	Tune-up limit	MPR
Frequency (MHz)				3735	3840	3945	(dBm)	(dB)
70	Pi/2 BPSK	1	1	13.47	13.51	13.42	15.0	0.0
Channel				688688	650000	663332	Tune-up limit	MPR
Frequency (MHz)				3730.02	3840	3940.98	(dBm)	(dB)
60	Pi/2 BPSK	1	1	13.54	13.49	13.53	15.0	0.0
Channel				688334	650000	663666	Tune-up limit	MPR
Frequency (MHz)				3725.01	3840	3934.99	(dBm)	(dB)
50	Pi/2 BPSK	1	1	13.51	13.51	13.53	15.0	0.0
Channel				688000	650000	664000	Tune-up limit	MPR
Frequency (MHz)				3720	3840	3960	(dBm)	(dB)
40	Pi/2 BPSK	1	1	13.52	13.53	13.28	15.0	0.0
Channel				647688	650000	664332	Tune-up limit	MPR
Frequency (MHz)				3715.02	3840.00	3954.99	(dBm)	(dB)
30	Pi/2 BPSK	1	1	13.31	13.42	13.37	15.0	0.0
Channel				647334	650000	664666	Tune-up limit	MPR
Frequency (MHz)				3710.01	3840	3950.99	(dBm)	(dB)
20	Pi/2 BPSK	1	1	13.52	13.41	13.23	15.0	0.0
Channel				647168	650000	664832	Tune-up limit	MPR
Frequency (MHz)				3707.52	3840	3972.48	(dBm)	(dB)
15	Pi/2 BPSK	1	1	13.53	13.55	13.52	15.0	0.0
Channel				647000	650000	665000	Tune-up limit	MPR
Frequency (MHz)				3705	3840	3975	(dBm)	(dB)
10	Pi/2 BPSK	1	1	13.31	13.44	13.26	15.0	0.0



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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Mod. Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	Pl2 BPSK	1	1		850000			
100	Pl2 BPSK	1	137		13.31		15.0	0.0
100	Pl2 BPSK	1	271		13.28		15.0	0.0
100	Pl2 BPSK	136	0		13.25		15.0	0.0
100	Pl2 BPSK	136	66		13.36		15.0	0.0
100	Pl2 BPSK	136	138		13.06		15.0	0.0
100	Pl2 BPSK	270	0		13.15		15.0	0.0
100	QPSK	1	1		13.21		15.0	0.0
100	QPSK	1	137		13.38		15.0	0.0
100	QPSK	1	271		13.30		15.0	0.0
100	QPSK	136	0		13.12		15.0	0.0
100	QPSK	136	66		13.29		15.0	0.0
100	QPSK	136	138		13.18		15.0	0.0
100	QPSK	270	0		13.27		15.0	0.0
100	16QAM	1	1		13.38		15.0	0.0
100	84QAM	1	1		13.32		15.0	0.0
100	256QAM	1	1		13.27		15.0	0.0
Channel								
Frequency (MHz)								
99	Pl2 BPSK	1	1	649668	850000	850332	Tune-up limit (dBm)	MPR (dB)
				3745.02	3750	3754.98		
Channel								
Frequency (MHz)								
89	Pl2 BPSK	1	1	649334	850000	850666	Tune-up limit (dBm)	MPR (dB)
				3749.01	3750	3759.99		
Channel								
Frequency (MHz)								
88	Pl2 BPSK	1	1	649000	850000	851000	Tune-up limit (dBm)	MPR (dB)
				3745	3750	3765		
Channel								
Frequency (MHz)								
70	Pl2 BPSK	1	1	648668	850000	851332	Tune-up limit (dBm)	MPR (dB)
				3740.02	3750	3769.98		
Channel								
Frequency (MHz)								
60	Pl2 BPSK	1	1	648334	850000	851666	Tune-up limit (dBm)	MPR (dB)
				3745.01	3750	3774.99		
Channel								
Frequency (MHz)								
50	Pl2 BPSK	1	1	648000	850000	852000	Tune-up limit (dBm)	MPR (dB)
				3740	3750	3760		
Channel								
Frequency (MHz)								
40	Pl2 BPSK	1	1	647668	850000	852332	Tune-up limit (dBm)	MPR (dB)
				3735.02	3750.00	3764.98		
Channel								
Frequency (MHz)								
30	Pl2 BPSK	1	1	647334	850000	852666	Tune-up limit (dBm)	MPR (dB)
				3730.01	3750	3769.99		
Channel								
Frequency (MHz)								
20	Pl2 BPSK	1	1	647000	850000	853000	Tune-up limit (dBm)	MPR (dB)
				3725	3750	3755		
Channel								
Frequency (MHz)								
15	Pl2 BPSK	1	1	646668	850000	853332	Tune-up limit (dBm)	MPR (dB)
				3720.02	3750.00	3764.98		
Channel								
Frequency (MHz)								
10	Pl2 BPSK	1	1	646334	850000	853666	Tune-up limit (dBm)	MPR (dB)
				3715.01	3750	3765.99		



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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				650000	650000	662000		
Frequency (MHz)				3750	3840	3930		
100	Pi2 BPSK	1	1	15.64	15.82	15.83		
100	Pi2 BPSK	1	137	15.60	15.77	15.81	16.5	0.0
100	Pi2 BPSK	1	271	15.75	15.75	15.67		
100	Pi2 BPSK	135	0	15.61	15.87	15.73	16.5	0.0
100	Pi2 BPSK	135	69	15.82	15.84	15.86	16.5	0.0
100	Pi2 BPSK	135	138	15.72	15.71	15.65		
100	Pi2 BPSK	270	0	15.62	15.81	15.54	16.5	0.0
100	QPSK	1	1	15.82	15.86	15.83		
100	QPSK	1	137	15.58	15.87	15.84	16.5	0.0
100	QPSK	1	271	15.73	15.70	15.65		
100	QPSK	135	0	15.79	15.63	15.91	16.5	0.0
100	QPSK	135	69	15.54	15.86	15.57	16.5	0.0
100	QPSK	135	138	15.74	15.80	15.73	16.5	0.0
100	QPSK	270	0	15.66	15.65	15.61		
100	16QAM	1	1	15.84	15.91	15.90	16.5	0.0
100	64QAM	1	1	14.93	15.10	15.00	16.5	0.0
100	256QAM	1	1	14.55	14.59	14.61	16.0	0.5
Channel				648688	650000	662332	Tune-up limit	MPR
Frequency (MHz)				3745.02	3840	3934.58	(dBm)	(dB)
90	Pi2 BPSK	1	1	14.84	15.03	14.97	16.5	0.0
Channel				648334	650000	662666	Tune-up limit	MPR
Frequency (MHz)				3740.01	3840	3930.99	(dBm)	(dB)
80	Pi2 BPSK	1	1	14.90	15.02	14.92	16.5	0.0
Channel				648000	650000	663000	Tune-up limit	MPR
Frequency (MHz)				3735	3840	3945	(dBm)	(dB)
70	Pi2 BPSK	1	1	14.87	15.04	14.99	16.5	0.0
Channel				648688	650000	663332	Tune-up limit	MPR
Frequency (MHz)				3730.02	3840	3940.98	(dBm)	(dB)
60	Pi2 BPSK	1	1	14.83	15.03	14.94	16.5	0.0
Channel				648334	650000	663666	Tune-up limit	MPR
Frequency (MHz)				3725.01	3840	3934.99	(dBm)	(dB)
50	Pi2 BPSK	1	1	14.80	15.01	14.92	16.5	0.0
Channel				648000	650000	664000	Tune-up limit	MPR
Frequency (MHz)				3720	3840	3930	(dBm)	(dB)
40	Pi2 BPSK	1	1	14.75	15.04	14.91	16.5	0.0
Channel				647688	650000	664332	Tune-up limit	MPR
Frequency (MHz)				3715.02	3840.00	3924.98	(dBm)	(dB)
30	Pi2 BPSK	1	1	14.74	15.01	14.91	16.5	0.0
Channel				647334	650000	664666	Tune-up limit	MPR
Frequency (MHz)				3710.01	3840	3919.99	(dBm)	(dB)
20	Pi2 BPSK	1	1	14.74	15.02	14.98	16.5	0.0
Channel				647168	650000	664832	Tune-up limit	MPR
Frequency (MHz)				3707.62	3840	3917.43	(dBm)	(dB)
15	Pi2 BPSK	1	1	14.73	15.02	14.97	16.5	0.0
Channel				647000	650000	665000	Tune-up limit	MPR
Frequency (MHz)				3705	3840	3915	(dBm)	(dB)
10	Pi2 BPSK	1	1	14.71	14.99	14.95	16.5	0.0

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BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq	Power Mod.C. Ch. / Freq	Power High Ch. / Freq	Tune-up limit (dBm)	MPR (dB)
Channel								
Frequency (MHz)								
100	PI2 BPSK	1	1	15.89	15.89	15.89	18.5	0.0
100	PI2 BPSK	1	137	15.86	15.86	15.86	18.5	0.0
100	PI2 BPSK	1	271	15.96	15.96	15.96	18.5	0.0
100	PI2 BPSK	135	0	15.74	15.74	15.74	18.5	0.0
100	PI2 BPSK	135	68	15.44	15.44	15.44	18.5	0.0
100	PI2 BPSK	135	138	15.50	15.50	15.50	18.5	0.0
100	PI2 BPSK	270	0	15.58	15.58	15.58	18.5	0.0
100	QPSK	1	1	15.89	15.89	15.89	18.5	0.0
100	QPSK	1	137	15.86	15.86	15.86	18.5	0.0
100	QPSK	1	271	15.45	15.45	15.45	18.5	0.0
100	QPSK	135	0	15.41	15.41	15.41	18.5	0.0
100	QPSK	135	68	15.82	15.82	15.82	18.5	0.0
100	QPSK	135	138	15.85	15.85	15.85	18.5	0.0
100	QPSK	270	0	15.51	15.51	15.51	18.5	0.0
100	16QAM	1	1	15.74	15.74	15.74	18.5	0.0
100	64QAM	1	1	15.17	15.17	15.17	18.5	0.0
100	256QAM	1	1	14.85	14.85	14.85	18.0	3.5
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	64968	65000	65032	Tune-up limit (dBm)	MPR (dB)
				3745.02	3750	3754.98	(dBm)	(dB)
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	64934	65000	65066	Tune-up limit (dBm)	MPR (dB)
				3740.01	3750	3759.99	(dBm)	(dB)
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	64900	65000	65100	Tune-up limit (dBm)	MPR (dB)
				3735	3750	3765	(dBm)	(dB)
Channel								
Frequency (MHz)								
70	PI2 BPSK	1	1	64868	65000	65132	Tune-up limit (dBm)	MPR (dB)
				3730.02	3750	3769.98	(dBm)	(dB)
Channel								
Frequency (MHz)								
80	PI2 BPSK	1	1	64834	65000	65166	Tune-up limit (dBm)	MPR (dB)
				3725.01	3750	3774.99	(dBm)	(dB)
Channel								
Frequency (MHz)								
50	PI2 BPSK	1	1	64800	65000	65200	Tune-up limit (dBm)	MPR (dB)
				3720	3750	3780	(dBm)	(dB)
Channel								
Frequency (MHz)								
40	PI2 BPSK	1	1	64768	65000	65232	Tune-up limit (dBm)	MPR (dB)
				3715.02	3750.00	3784.98	(dBm)	(dB)
Channel								
Frequency (MHz)								
30	PI2 BPSK	1	1	64734	65000	65266	Tune-up limit (dBm)	MPR (dB)
				3710.01	3750	3789.99	(dBm)	(dB)
Channel								
Frequency (MHz)								
20	PI2 BPSK	1	1	64700	65000	65300	Tune-up limit (dBm)	MPR (dB)
				3705	3750	3795	(dBm)	(dB)
Channel								
Frequency (MHz)								
15	PI2 BPSK	1	1	64668	65000	65332	Tune-up limit (dBm)	MPR (dB)
				3700	3750	3792	(dBm)	(dB)
Channel								
Frequency (MHz)								
10	PI2 BPSK	1	1	64634	65000	65366	Tune-up limit (dBm)	MPR (dB)
				3695	3750	3795	(dBm)	(dB)



Band 41 Ant1 Default										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490	24	0
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	22.89	22.91	22.93	22.91	22.85		

Band 42 FCC Part27Q Ant5 Default										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)		
Channel				42190	42590	42990	24	0		
Frequency (MHz)				3460	3500	3540				
20	QPSK	1	0	22.22	22.31	22.17				

Band 41 Ant1 ECI2										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490	24	0
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	22.89	22.91	22.93	22.91	22.85		

Band 42 FCC Part27Q Ant5 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				42190	42590	42990	17.5	0		
Frequency (MHz)				3460	3500	3540				
20	QPSK	1	0	15.81	15.85	15.84				

Band 41 Ant1 ECI3										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490	22	0
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	20.55	20.72	20.95	20.93	20.56		

Band 42 FCC Part27Q Ant5 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				42190	42590	42990	17.5	0		
Frequency (MHz)				3460	3500	3540				
20	QPSK	1	0	15.55	15.74	15.69				

Band 41 Ant1 ECI7										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490	22	0
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	20.55	20.72	20.95	20.93	20.56		

Band 42 FCC Part27Q Ant5 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				42190	42590	42990	16	0		
Frequency (MHz)				3460	3500	3540				
20	QPSK	1	0	14.46	14.52	14.41				

Band 41 Ant1 ECI6										
BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Low Middle Ch. / Freq.	Power Middle Ch. / Freq.	Power High Middle Ch. / Freq.	Power High Ch. / Freq.	Tune-up limit (dBm)	MPR (dB)
Channel				39750	40185	40620	41055	41490	22.5	0
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	21.11	21.19	21.25	21.22	21.19		

Band 42 Ant5 FCC Part27Q Ant5 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				42190	42590	42990	21.5	0		
Frequency (MHz)				3460	3500	3540				
20	QPSK	1	0	19.97	20.11	20.60				



<2.4GHz WLAN>

Ant6				RF Full power Standalone for Extremity Standalone for Body-worn		Standalone for Head		Standalone for Hotspot Standalone for Body-worn		Duty Cycle %
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
2.4GHz WLAN	802.11b 1Mbps	1	2412		20.50		17.50		15.50	100%
		6	2437	18.87	20.50	16.83	17.50	15.50		
		11	2462	19.11	20.50		17.50	14.21	15.50	

<5.2GHz WLAN>

Ant6				RF Full power Standalone for Extremity		Standalone for Head/Hotspot		Standalone for Body-worn		Duty Cycle %
Mode	Channel	Frequency (MHz)	Average Power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
5.2GHz WLAN	802.11a 6Mbps	36	5180		19.50		15.00	16.57	18.50	100%
		40	5200		19.50		15.00	16.88	18.50	
		44	5220	17.85	19.50		15.00	17.02	18.50	
		48	5240		19.50		15.00	16.98	18.50	
	802.11n-HT20 MCS0	36	5180		19.00		15.00		18.50	100%
		40	5200		19.00		15.00		18.50	
		44	5220		19.00		15.00		18.50	
		48	5240		19.00		15.00		18.50	
	802.11n-HT40 MCS0	38	5190		17.00		15.00		17.00	100%
		46	5230		17.00		15.00		17.00	
	802.11ac-VHT20 MCS0	36	5180	Not request						100%
		40	5200		19.00		15.00		18.50	
802.11ac-VHT40 MCS0	44	5220		19.00		15.00		18.50	100%	
	48	5240		19.00		15.00		18.50		
802.11ac-VHT80 MCS0	38	5190		17.00		15.00		17.00	100%	
	46	5230		17.00		15.00		17.00		
802.11ac-VHT80 MCS0	42	5210		15.50	13.49	15.00		15.50	100%	

<5.3GHz WLAN>

Ant6				RF Full power Standalone for Extremity		Standalone for Head		Standalone for Body-worn		Duty Cycle %
Mode	Channel	Frequency (MHz)	Average Power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
5.3GHz WLAN	802.11a 6Mbps	52	5250		20.00		16.00		19.00	100%
		56	5280	18.37	20.00		16.00		19.00	
		60	5300		20.00		16.00	17.35	19.00	
		64	5320		19.00		16.00		19.00	
	802.11n-HT20 MCS0	52	5250		19.50		16.00		19.00	100%
		56	5280		19.50		16.00		19.00	
		60	5300		19.50		16.00		19.00	
		64	5320		18.00		16.00		18.00	
	802.11n-HT40 MCS0	54	5270		17.50		16.00		17.50	100%
		62	5310		16.50		16.00		16.50	
	802.11ac-VHT20 MCS0	52	5250	Not request						100%
		56	5280		20.00		16.00		19.00	
60		5300		20.00		16.00		19.00		
64		5320		20.00		16.00		19.00		
802.11ac-VHT40 MCS0	54	5270		17.50		16.00		17.50	100%	
	62	5310		16.50		16.00		16.50		
802.11ac-VHT80 MCS0	58	5290		16.50	14.45	16.00		16.50	100%	

<5.5GHz WLAN>

Ant6				RF Full power Standalone for Extremity		Standalone for Head		Standalone for Body-worn		Duty Cycle %
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
5.5GHz WLAN	802.11a 6Mbps	100	5500	17.61	19.00		17.00		14.00	100%
		116	5580		19.00		17.00		14.00	
		124	5620		19.00		17.00		14.00	
		132	5660		19.00		17.00		14.00	
		140	5700		19.00		17.00		14.00	
		144	5720		19.00		17.00		14.00	
	802.11n-HT20 MCS0	100	5500		19.00		17.00		14.00	100%
		116	5580		19.00		17.00		14.00	
		124	5620		19.00		17.00		14.00	
		132	5660		19.00		17.00		14.00	
		140	5700		16.00		16.00		14.00	
		144	5720		19.00		17.00		14.00	
	802.11n-HT40 MCS0	102	5510		17.00		17.00		14.00	100%
		110	5550		17.00		17.00		14.00	
		126	5630		17.00		17.00		14.00	
		134	5670		17.00		17.00		14.00	
		142	5710		17.00	15.57	17.00		14.00	
		100	5500		19.00		17.00		14.00	
	802.11ac-VHT20 MCS0	116	5580		19.00		17.00		14.00	100%
		124	5620		19.00		17.00		14.00	
		132	5660		19.00		17.00		14.00	
		140	5700		16.00		16.00		14.00	
		144	5720		19.00		17.00		14.00	
		102	5510		17.00		17.00		14.00	
802.11ac-VHT40 MCS0	110	5550		17.00		17.00		14.00	100%	
	126	5630		17.00		17.00		14.00		
	134	5670		17.00		17.00		14.00		
	142	5710		17.00		17.00		14.00		
	106	5530		15.50		15.50		14.00		
	122	5610		15.50		15.50	12.71	14.00		
802.11ac-VHT80 MCS0	138	5690		15.50		15.50	12.74	14.00	100%	

<5.8GHz WLAN>

Ant6				RF Full power Standalone for Head Standalone for Extremity		Standalone for Hotspot		Standalone for Body-worn		Duty Cycle %
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
5.8GHz WLAN	802.11a 6Mbps	149	5745	17.50	19.00		11.00		14.00	100%
		157	5785	17.48	19.00		11.00		14.00	
		165	5825		19.00		11.00		14.00	
	802.11n-HT20 MCS0	149	5745		18.50		11.00		14.00	100%
		157	5785		18.50		11.00		14.00	
		165	5825		18.50		11.00		14.00	
	802.11n-HT40 MCS0	151	5755		17.00		11.00		14.00	100%
		159	5795		17.00		11.00		14.00	
		149	5745	Not request		18.50		11.00		
	802.11ac-VHT20 MCS0	157	5785		18.50		11.00		14.00	100%
		165	5825		18.50		11.00		14.00	
		151	5755		17.00		11.00		14.00	
802.11ac-VHT40 MCS0	159	5795		17.00		11.00		14.00	100%	
	155	5775		15.50	9.65	11.00	12.95	14.00		



BT BR/EDR			
Mode	Channel	Frequency (MHz)	Average power (dBm)
			1Mbps
BR / EDR	CH 00	2402	14.59
	CH 39	2441	14.64
	CH 78	2480	14.22
	Transp. Limit		15.5