



REPORT No.: SZ25060347S01

Annex E Conducted Power

Note:

Conducted power unit: dBm

The target power was recorded in the manufacturer's document.

GSM850	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	128	189	251		128	189	251	
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8	
GSM 1 Tx slot	31.75	31.78	31.76	32.50	22.75	22.78	22.76	23.50
GPRS 1 Tx slot	31.73	31.77	31.75	32.50	22.73	22.77	22.75	23.50
GPRS 2 Tx slots	30.55	30.58	30.51	31.50	24.55	24.58	24.51	25.50
GPRS 3 Tx slots	29.44	29.55	29.50	30.00	25.18	25.29	25.24	25.74
GPRS 4 Tx slots	28.39	28.44	28.42	29.00	25.39	25.44	25.42	26.00
EDGE 1 Tx slot	26.58	26.55	26.51	27.50	17.58	17.55	17.51	18.50
EDGE 2 Tx slots	25.05	25.18	25.03	26.00	19.05	19.18	19.03	20.00
EDGE 3 Tx slots	23.11	23.16	23.05	24.00	18.85	18.90	18.79	19.74
EDGE 4 Tx slots	22.19	22.22	22.10	23.00	19.19	19.22	19.10	20.00
Mode		Max.	31.78			Max.	25.44	
Attenuator	Cable Loss : 0.6							
Date	7/9							

GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	28.91	28.95	28.93	29.50	19.91	19.95	19.93	20.50
GPRS 1 Tx slot	28.90	28.92	28.91	29.50	19.90	19.92	19.91	20.50
GPRS 2 Tx slots	27.88	27.92	27.91	28.50	21.88	21.92	21.91	22.50
GPRS 3 Tx slots	26.65	26.69	26.62	27.50	22.39	22.43	22.36	23.24
GPRS 4 Tx slots	24.79	24.81	24.80	25.50	21.79	21.81	21.80	22.50
EDGE 1 Tx slot	25.81	25.79	25.66	26.50	16.81	16.79	16.66	17.50
EDGE 2 Tx slots	23.14	23.22	23.24	24.00	17.14	17.22	17.24	18.00
EDGE 3 Tx slots	22.69	22.58	22.51	23.50	18.43	18.32	18.25	19.24
EDGE 4 Tx slots	21.82	21.89	21.90	22.50	18.82	18.89	18.90	19.50
Mode		Max.	28.95			Max.	22.43	
Attenuator	Cable Loss :							
Date	7/9							

Band	WCDMA Band II (dBm)			Tune-up Limit (dBm)	WCDMA Band IV (dBm)			Tune-up Limit (dBm)	WCDMA Band V (dBm)			Tune-up Limit (dBm)
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 RMC 12.2Kbps	23.11	23.22	23.15	24.00	23.19	23.24	23.20	24.00	23.15	23.16	23.10	24.00
3GPP Rel 7 HSPA+ (16QAM) Subtest-1	21.58	21.67	21.74	22.50	21.71	21.72	21.64	22.50	21.61	21.62	21.53	22.50
Attenuator		Cable Loss				Cable Loss				Cable Loss		
Mode		Max.	23.22			Max.	23.24			Max.	23.16	
Date	7/9				7/9				7/9			

Band 2 (1900MHz Band) (dBm) Part 24E							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				18700	18900	19100	24
Frequency (MHz)				1860	1900	1900	
20	QPSK	1	0	22.85	22.85	22.85	23
20	QPSK	1	49	22.86	22.90	22.86	
20	QPSK	1	99	22.83	22.84	22.85	23
20	QPSK	50	0	21.95	21.97	21.96	
20	QPSK	50	24	21.91	21.95	21.85	22
20	QPSK	50	50	21.88	21.84	21.76	
20	QPSK	100	0	21.81	21.88	21.80	23
20	16QAM	1	0	22.18	22.21	22.11	
20	16QAM	1	49	22.32	22.32	22.30	22
20	16QAM	1	99	22.28	22.38	22.41	
20	16QAM	50	0	21.44	21.37	21.44	23
20	16QAM	50	24	21.40	21.44	21.31	
20	16QAM	50	50	21.48	21.28	21.37	22
20	16QAM	100	0	21.25	21.30	21.38	
Channel				18675	18900	19125	24
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	22.92	22.93	22.90	23
15	QPSK	1	37	22.85	22.87	22.83	
15	QPSK	1	74	22.80	22.81	22.82	23
15	QPSK	36	0	21.92	21.94	21.93	
15	QPSK	36	20	21.88	21.92	21.82	23
15	QPSK	36	49	21.85	21.81	21.73	
15	QPSK	75	0	21.78	21.85	21.77	23
15	16QAM	1	0	22.15	22.18	22.08	
15	16QAM	1	37	22.29	22.29	22.27	22
15	16QAM	1	74	22.25	22.35	22.38	
15	16QAM	36	0	21.41	21.34	21.41	23
15	16QAM	36	20	21.37	21.41	21.28	
15	16QAM	36	39	21.45	21.25	21.34	22
15	16QAM	75	0	21.22	21.27	21.35	
Channel				18650	18900	19150	24
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	22.88	22.89	22.86	23
10	QPSK	1	25	22.81	22.83	22.79	
10	QPSK	1	49	22.76	22.77	22.78	23
10	QPSK	25	0	21.88	21.90	21.89	
10	QPSK	25	12	21.84	21.88	21.78	23
10	QPSK	25	25	21.81	21.77	21.69	
10	QPSK	50	0	21.74	21.81	21.73	23
10	16QAM	1	0	22.11	22.14	22.04	
10	16QAM	1	25	22.25	22.25	22.23	23
10	16QAM	1	49	22.21	22.31	22.34	
10	16QAM	25	0	21.37	21.30	21.37	22
10	16QAM	25	12	21.33	21.37	21.24	
10	16QAM	25	25	21.41	21.21	21.30	23
10	16QAM	50	0	21.18	21.23	21.31	
Channel				18625	18900	19175	24
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	22.85	22.86	22.83	23
5	QPSK	1	12	22.78	22.80	22.76	
5	QPSK	1	24	22.73	22.74	22.75	23
5	QPSK	12	0	21.85	21.87	21.86	
5	QPSK	12	7	21.81	21.85	21.75	23
5	QPSK	12	13	21.78	21.74	21.66	
5	QPSK	25	0	21.71	21.78	21.70	23
5	16QAM	1	0	22.08	22.11	22.01	
5	16QAM	1	12	22.22	22.22	22.20	23
5	16QAM	1	24	22.18	22.28	22.31	
5	16QAM	12	0	21.34	21.27	21.34	22
5	16QAM	12	7	21.30	21.34	21.21	
5	16QAM	12	13	21.36	21.18	21.27	23
5	16QAM	25	0	21.15	21.20	21.26	
Channel				18615	18900	19165	24
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	22.79	22.80	22.77	23
3	QPSK	1	8	22.72	22.74	22.70	
3	QPSK	1	14	22.67	22.68	22.69	23
3	QPSK	8	0	21.79	21.81	21.80	
3	QPSK	8	4	21.75	21.79	21.69	23
3	QPSK	8	7	21.72	21.68	21.60	
3	QPSK	15	0	21.65	21.72	21.64	23
3	16QAM	1	0	22.02	22.05	21.95	
3	16QAM	1	8	22.16	22.16	22.14	23
3	16QAM	1	14	22.12	22.22	22.25	
3	16QAM	8	0	21.28	21.21	21.28	22
3	16QAM	8	4	21.24	21.28	21.15	
3	16QAM	8	7	21.32	21.12	21.21	23
3	16QAM	15	0	21.09	21.14	21.22	
Channel				18607	18900	19193	24
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	22.77	22.78	22.75	23
1.4	QPSK	1	3	22.70	22.72	22.68	
1.4	QPSK	1	5	22.65	22.66	22.67	23
1.4	QPSK	3	0	21.77	21.79	21.78	
1.4	QPSK	3	1	21.73	21.77	21.67	23
1.4	QPSK	3	3	21.70	21.66	21.58	
1.4	QPSK	6	0	21.63	21.70	21.62	23
1.4	16QAM	1	0	22.00	22.03	21.90	
1.4	16QAM	1	3	22.14	22.14	22.12	23
1.4	16QAM	1	5	22.10	22.20	22.23	
1.4	16QAM	3	0	21.26	21.19	21.26	22
1.4	16QAM	3	1	21.22	21.26	21.13	
1.4	16QAM	3	3	21.30	21.10	21.19	23
1.4	16QAM	6	0	21.07	21.12	21.20	

Band 4 (AWS Band) (dBm) Part 27L (only on channel required)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20050	20175	20300	
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	22.90	22.92	22.89	24
20	QPSK	1	49	22.88	22.85	22.83	
20	QPSK	1	99	22.80	22.81	22.79	23
20	QPSK	50	0	21.90	21.92	21.91	
20	QPSK	50	24	21.79	21.89	21.85	23
20	QPSK	50	50	21.68	21.76	21.86	
20	QPSK	100	0	21.70	21.82	21.80	23
20	16QAM	1	0	22.22	22.29	22.26	
20	16QAM	1	49	22.26	22.28	22.14	23
20	16QAM	1	99	22.17	22.20	22.21	
20	16QAM	50	0	21.21	21.18	21.23	22
20	16QAM	50	24	21.24	21.20	21.09	
20	16QAM	50	50	21.16	21.13	21.22	22
20	16QAM	100	0	21.21	21.06	21.10	
Channel				20025	20175	20325	
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	22.87	22.89	22.86	24
15	QPSK	1	37	22.85	22.82	22.80	
15	QPSK	1	74	22.77	22.78	22.76	23
15	QPSK	36	0	21.87	21.89	21.88	
15	QPSK	36	20	21.76	21.86	21.82	23
15	QPSK	36	39	21.85	21.73	21.83	
15	QPSK	75	0	21.67	21.79	21.77	23
15	16QAM	1	0	22.19	22.26	22.23	
15	16QAM	1	37	22.23	22.25	22.11	23
15	16QAM	1	74	22.14	22.17	22.18	
15	16QAM	36	0	21.18	21.15	21.20	22
15	16QAM	36	20	21.21	21.17	21.06	
15	16QAM	36	39	21.13	21.10	21.19	22
15	16QAM	75	0	21.18	21.03	21.07	
Channel				20000	20175	20350	
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	22.81	22.83	22.80	24
10	QPSK	1	25	22.79	22.76	22.74	
10	QPSK	1	49	22.71	22.72	22.70	23
10	QPSK	25	0	21.81	21.83	21.82	
10	QPSK	25	12	21.70	21.80	21.76	23
10	QPSK	25	25	21.79	21.67	21.77	
10	QPSK	50	0	21.61	21.73	21.71	23
10	16QAM	1	0	22.13	22.20	22.17	
10	16QAM	1	25	22.17	22.19	22.05	23
10	16QAM	1	49	22.08	22.11	22.12	
10	16QAM	25	0	21.12	21.09	21.14	22
10	16QAM	25	12	21.15	21.11	21.00	
10	16QAM	25	25	21.07	21.04	21.13	22
10	16QAM	50	0	21.12	20.97	21.01	
Channel				19975	20175	20375	
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	22.78	22.80	22.77	24
5	QPSK	1	12	22.76	22.73	22.71	
5	QPSK	1	24	22.68	22.69	22.67	23
5	QPSK	12	0	21.78	21.80	21.79	
5	QPSK	12	7	21.67	21.77	21.73	23
5	QPSK	12	13	21.76	21.64	21.74	
5	QPSK	25	0	21.58	21.70	21.68	23
5	16QAM	1	0	22.10	22.17	22.14	
5	16QAM	1	12	22.14	22.16	22.02	23
5	16QAM	1	24	22.05	22.08	22.09	
5	16QAM	12	0	21.09	21.06	21.11	22
5	16QAM	12	7	21.12	21.08	20.97	
5	16QAM	12	13	21.04	21.01	21.10	22
5	16QAM	25	0	21.09	20.94	20.98	
Channel				19965	20175	20385	
Frequency (MHz)				1711.5	1732.5	1753.5	
3	QPSK	1	0	22.72	22.74	22.71	24
3	QPSK	1	8	22.70	22.67	22.65	
3	QPSK	1	14	22.62	22.63	22.61	23
3	QPSK	8	0	21.72	21.74	21.73	
3	QPSK	8	4	21.61	21.71	21.67	23
3	QPSK	8	7	21.70	21.58	21.68	
3	QPSK	15	0	21.52	21.64	21.62	23
3	16QAM	1	0	22.04	22.11	22.08	
3	16QAM	1	8	22.08	22.10	21.96	23
3	16QAM	1	14	21.99	22.02	22.03	
3	16QAM	8	0	21.03	21.00	21.05	22
3	16QAM	8	4	21.06	21.02	20.91	
3	16QAM	8	7	20.98	20.95	21.04	22
3	16QAM	15	0	21.03	20.88	20.92	
Channel				19957	20175	20393	
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	22.69	22.71	22.68	24
1.4	QPSK	1	3	22.67	22.64	22.62	
1.4	QPSK	1	5	22.59	22.60	22.58	23
1.4	QPSK	3	0	21.69	21.71	21.70	
1.4	QPSK	3	1	21.58	21.68	21.64	23
1.4	QPSK	3	3	21.67	21.55	21.65	
1.4	QPSK	6	0	21.49	21.61	21.59	23
1.4	16QAM	1	0	22.01	22.08	22.05	
1.4	16QAM	1	3	22.05	22.07	21.93	23
1.4	16QAM	1	5	21.96	21.99	22.00	
1.4	16QAM	3	0	21.00	20.97	21.02	22
1.4	16QAM	3	1	21.03	20.99	20.88	
1.4	16QAM	3	3	20.95	20.92	21.01	22
1.4	16QAM	6	0	21.00	20.85	20.89	

Band 5 (Celluar Band) (dBm) Part 22H(only on channel required)							
BW (MHz)	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20450	20525	20600	24
Frequency (MHz)				829	836.5	844	
10	QPSK	1	0	22.82	22.85	22.88	23
10	QPSK	1	25	22.89	22.91	22.93	
10	QPSK	1	49	22.90	22.85	22.81	23
10	QPSK	25	0	21.97	22.04	22.00	
10	QPSK	25	12	21.88	22.00	21.92	23
10	QPSK	25	25	21.92	21.95	21.86	
10	QPSK	50	0	21.81	21.85	21.82	23
10	16QAM	1	0	22.16	22.22	22.08	
10	16QAM	1	25	22.13	22.19	22.02	23
10	16QAM	1	49	22.11	22.16	22.11	
10	16QAM	25	0	21.22	21.26	21.21	22
10	16QAM	25	12	21.03	21.21	21.16	
10	16QAM	25	25	21.17	21.09	21.11	22
10	16QAM	50	0	21.06	21.08	21.09	
Channel				20425	20525	20625	24
Frequency (MHz)				826.5	836.5	846.5	
5	QPSK	1	0	22.89	22.92	22.85	23
5	QPSK	1	12	22.86	22.88	22.80	
5	QPSK	1	24	22.87	22.82	22.78	23
5	QPSK	12	0	21.94	22.01	21.97	
5	QPSK	12	7	21.85	21.97	21.89	23
5	QPSK	12	13	21.89	21.92	21.83	
5	QPSK	25	0	21.78	21.82	21.79	23
5	16QAM	1	0	22.13	22.19	22.05	
5	16QAM	1	12	22.10	22.16	21.99	23
5	16QAM	1	24	22.08	22.13	22.08	
5	16QAM	12	0	21.19	21.23	21.18	22
5	16QAM	12	7	21.00	21.18	21.13	
5	16QAM	12	13	21.14	21.06	21.08	22
5	16QAM	25	0	21.03	21.05	21.06	
Channel				20415	20525	20635	24
Frequency (MHz)				825.5	836.5	847.5	
3	QPSK	1	0	22.84	22.87	22.80	23
3	QPSK	1	8	22.81	22.83	22.75	
3	QPSK	1	14	22.82	22.77	22.73	23
3	QPSK	8	0	21.89	21.96	21.92	
3	QPSK	8	4	21.80	21.92	21.84	23
3	QPSK	8	7	21.84	21.87	21.78	
3	QPSK	15	0	21.73	21.77	21.74	23
3	16QAM	1	0	22.08	22.14	22.00	
3	16QAM	1	8	22.05	22.11	21.94	23
3	16QAM	1	14	22.03	22.08	22.03	
3	16QAM	8	0	21.14	21.18	21.13	22
3	16QAM	8	4	20.95	21.13	21.08	
3	16QAM	8	7	21.09	21.01	21.03	22
3	16QAM	15	0	20.98	21.00	21.01	
Channel				20407	20525	20643	24
Frequency (MHz)				824.7	836.5	848.3	
1.4	QPSK	1	0	22.81	22.84	22.77	23
1.4	QPSK	1	3	22.78	22.80	22.72	
1.4	QPSK	1	5	22.79	22.74	22.70	23
1.4	QPSK	3	0	21.86	21.93	21.89	
1.4	QPSK	3	1	21.77	21.89	21.81	23
1.4	QPSK	3	3	21.81	21.84	21.75	
1.4	QPSK	6	0	21.70	21.74	21.71	23
1.4	16QAM	1	0	22.05	22.11	21.97	
1.4	16QAM	1	3	22.02	22.08	21.91	23
1.4	16QAM	1	5	22.00	22.05	22.00	
1.4	16QAM	3	0	21.11	21.15	21.10	22
1.4	16QAM	3	1	20.92	21.10	21.05	
1.4	16QAM	3	3	21.06	20.98	21.00	22
1.4	16QAM	6	0	20.95	20.97	20.98	

Band 7 (2600MHz Band) (dBm) Part 27							
BW (MHz)	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20850	21100	21350	24
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	22.94	22.95	22.91	23
20	QPSK	1	49	22.84	22.86	22.51	
20	QPSK	1	99	22.53	22.80	22.48	23
20	QPSK	50	0	21.69	21.93	21.68	
20	QPSK	50	24	21.55	21.57	21.49	23
20	QPSK	50	50	21.47	21.56	21.58	
20	QPSK	100	0	21.53	21.67	21.55	23
20	16QAM	1	0	21.77	22.10	21.79	
20	16QAM	1	49	21.58	21.69	21.59	23
20	16QAM	1	99	21.54	21.71	21.60	
20	16QAM	50	0	20.64	20.97	20.56	22
20	16QAM	50	24	20.71	20.78	20.58	
20	16QAM	50	50	20.63	20.74	20.52	22
20	16QAM	100	0	20.50	20.49	20.41	
Channel				20825	21100	21375	24
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	22.66	22.67	22.63	23
15	QPSK	1	37	22.36	22.38	22.23	
15	QPSK	1	74	22.25	22.32	22.20	23
15	QPSK	36	0	21.41	21.65	21.40	
15	QPSK	36	20	21.27	21.29	21.21	23
15	QPSK	36	39	21.19	21.28	21.30	
15	QPSK	75	0	21.25	21.39	21.27	23
15	16QAM	1	0	21.49	21.82	21.51	
15	16QAM	1	37	21.30	21.41	21.31	23
15	16QAM	1	74	21.26	21.43	21.32	
15	16QAM	36	0	20.36	20.69	20.28	22
15	16QAM	36	20	20.43	20.50	20.30	
15	16QAM	36	39	20.35	20.46	20.24	22
15	16QAM	75	0	20.22	20.21	20.13	
Channel				20800	21100	21400	24
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	22.57	22.58	22.54	23
10	QPSK	1	25	22.27	22.29	22.14	
10	QPSK	1	49	22.16	22.23	22.11	23
10	QPSK	25	0	21.32	21.56	21.31	
10	QPSK	25	12	21.18	21.20	21.12	23
10	QPSK	25	25	21.10	21.19	21.21	
10	QPSK	50	0	21.16	21.30	21.18	23
10	16QAM	1	0	21.40	21.73	21.42	
10	16QAM	1	25	21.21	21.32	21.22	23
10	16QAM	1	49	21.17	21.34	21.23	
10	16QAM	25	0	20.27	20.60	20.19	22
10	16QAM	25	12	20.34	20.41	20.21	
10	16QAM	25	25	20.26	20.37	20.15	22
10	16QAM	50	0	20.13	20.12	20.04	
Channel				20775	21100	21425	24
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	22.48	22.49	22.45	23
5	QPSK	1	12	22.18	22.20	22.05	
5	QPSK	1	24	22.07	22.14	22.02	23
5	QPSK	12	0	21.23	21.47	21.22	
5	QPSK	12	7	21.09	21.11	21.03	23
5	QPSK	12	13	21.01	21.10	21.12	
5	QPSK	25	0	21.07	21.21	21.09	23
5	16QAM	1	0	21.31	21.64	21.33	
5	16QAM	1	12	21.12	21.23	21.13	23
5	16QAM	1	24	21.08	21.25	21.14	
5	16QAM	12	0	20.18	20.51	20.10	22
5	16QAM	12	7	20.25	20.32	20.12	
5	16QAM	12	13	20.17	20.28	20.06	22
5	16QAM	25	0	20.04	20.03	20.00	

Band 12 (700MHz Low Band) (dBm) Part 27F(only on channel required)							
BW (MHz)	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				23060	23095	23130	24
Frequency (MHz)				704	707.5	711	
10	QPSK	1	0	23.01	23.08	22.88	23
10	QPSK	1	25	22.73	22.70	22.89	
10	QPSK	1	49	22.67	22.74	22.62	
10	QPSK	25	0	21.90	22.06	22.00	23
10	QPSK	25	12	21.80	21.72	21.81	
10	QPSK	25	25	21.65	21.85	21.74	
10	QPSK	50	0	21.71	21.75	21.68	23
10	16QAM	1	0	21.91	21.97	21.77	
10	16QAM	1	25	21.95	21.71	21.71	
10	16QAM	1	49	21.82	21.74	21.88	22
10	16QAM	25	0	20.83	20.90	20.73	
10	16QAM	25	12	20.73	20.80	20.77	
10	16QAM	25	25	20.68	20.66	20.60	22
10	16QAM	50	0	20.75	20.72	20.68	
Channel				23035	23095	23155	24
Frequency (MHz)				701.5	707.5	713.5	
5	QPSK	1	0	22.83	22.90	22.80	23
5	QPSK	1	12	22.55	22.52	22.51	
5	QPSK	1	24	22.49	22.56	22.44	
5	QPSK	12	0	21.72	21.88	21.82	23
5	QPSK	12	7	21.62	21.54	21.83	
5	QPSK	12	13	21.47	21.67	21.56	
5	QPSK	25	0	21.53	21.57	21.50	23
5	16QAM	1	0	21.73	21.79	21.59	
5	16QAM	1	12	21.77	21.53	21.53	
5	16QAM	1	24	21.64	21.56	21.50	22
5	16QAM	12	0	20.65	20.72	20.55	
5	16QAM	12	7	20.55	20.62	20.59	
5	16QAM	12	13	20.50	20.48	20.42	22
5	16QAM	25	0	20.57	20.54	20.50	
Channel				23025	23095	23165	24
Frequency (MHz)				700.5	707.5	714.5	
3	QPSK	1	0	22.65	22.72	22.62	23
3	QPSK	1	8	22.37	22.34	22.33	
3	QPSK	1	14	22.31	22.38	22.26	
3	QPSK	8	0	21.54	21.70	21.64	23
3	QPSK	8	4	21.44	21.36	21.45	
3	QPSK	8	7	21.29	21.49	21.38	
3	QPSK	15	0	21.35	21.39	21.32	23
3	16QAM	1	0	21.55	21.61	21.41	
3	16QAM	1	8	21.59	21.35	21.35	
3	16QAM	1	14	21.46	21.38	21.32	22
3	16QAM	8	0	20.47	20.54	20.37	
3	16QAM	8	4	20.37	20.44	20.41	
3	16QAM	8	7	20.32	20.30	20.24	22
3	16QAM	15	0	20.39	20.36	20.32	
Channel				23017	23095	23173	24
Frequency (MHz)				699.7	707.5	715.3	
1.4	QPSK	1	0	22.57	22.64	22.54	24
1.4	QPSK	1	3	22.29	22.26	22.25	
1.4	QPSK	1	5	22.23	22.30	22.18	
1.4	QPSK	3	0	21.46	21.62	21.56	23
1.4	QPSK	3	1	21.36	21.28	21.37	
1.4	QPSK	3	3	21.21	21.41	21.30	
1.4	QPSK	6	0	21.27	21.31	21.24	23
1.4	16QAM	1	0	21.47	21.53	21.33	
1.4	16QAM	1	3	21.51	21.27	21.27	
1.4	16QAM	1	5	21.38	21.30	21.24	22
1.4	16QAM	3	0	20.39	20.46	20.29	
1.4	16QAM	3	1	20.29	20.36	20.33	
1.4	16QAM	3	3	20.24	20.22	20.16	22
1.4	16QAM	6	0	20.31	20.28	20.24	
1.4	16QAM	6	0	20.31	20.28	20.24	

Band 13(700MHz Band) (dBm) Part 27F							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				23230			
Frequency (MHz)				762			
10	QPSK	1	0		22.71		23.5
10	QPSK	1	25		22.60		
10	QPSK	1	49		22.64		
10	QPSK	25	0		21.69		22.5
10	QPSK	25	12		21.44		
10	QPSK	25	25		21.50		
10	QPSK	50	0		21.63		22.5
10	16QAM	1	0		21.55		
10	16QAM	1	25		21.38		
10	16QAM	1	49		21.29		22.5
10	16QAM	25	0		20.68		
10	16QAM	25	12		20.80		
10	16QAM	25	25		20.66		21.5
10	16QAM	50	0		20.72		
Channel				23205	23230	23255	Tune-up limit (dBm)
Frequency (MHz)				779.5	782	784.5	
5	QPSK	1	0	22.49	22.58	22.56	23.5
5	QPSK	1	12	22.42	22.39	22.38	
5	QPSK	1	24	22.36	22.43	22.31	
5	QPSK	12	0	21.47	21.53	21.44	22.5
5	QPSK	12	7	21.41	21.33	21.42	
5	QPSK	12	13	21.26	21.46	21.35	
5	QPSK	25	0	21.32	21.36	21.29	22.5
5	16QAM	1	0	21.52	21.58	21.38	
5	16QAM	1	12	21.56	21.32	21.32	
5	16QAM	1	24	21.43	21.35	21.29	21.5
5	16QAM	12	0	20.44	20.51	20.34	
5	16QAM	12	7	20.34	20.41	20.38	
5	16QAM	12	13	20.29	20.27	20.21	21.5
5	16QAM	25	0	20.36	20.33	20.29	

Band 14 (700MHz Band) (dBm)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				23330			Tune-up limit (dBm)
Frequency (MHz)				793			
10	QPSK	1	0		22.98		24
10	QPSK	1	25		22.78		
10	QPSK	1	49		22.82		
10	QPSK	25	0		22.12		
10	QPSK	25	12		21.81		23
10	QPSK	25	25		21.94		
10	QPSK	50	0		21.84		
10	16QAM	1	0		22.06		
10	16QAM	1	25		21.80		23
10	16QAM	1	49		21.83		
10	16QAM	25	0		20.99		
10	16QAM	25	12		20.89		
10	16QAM	25	25		20.75		22
10	16QAM	50	0		20.81		
Channel				23305	23330	23355	Tune-up limit (dBm)
Frequency (MHz)				790.5	793	795.5	
5	QPSK	1	0		22.66	22.75	24
5	QPSK	1	12		22.59	22.56	
5	QPSK	1	24		22.53	22.60	
5	QPSK	12	0		21.64	21.70	
5	QPSK	12	7		21.58	21.50	23
5	QPSK	12	13		21.43	21.63	
5	QPSK	25	0		21.49	21.53	
5	16QAM	1	0		21.69	21.75	
5	16QAM	1	12		21.73	21.49	23
5	16QAM	1	24		21.60	21.52	
5	16QAM	12	0		20.61	20.68	
5	16QAM	12	7		20.51	20.58	
5	16QAM	12	13		20.46	20.38	22
5	16QAM	25	0		20.53	20.50	

Band 17 (700MHz Band) (dBm) Part 27H(only on channel required)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				23780	23790	23800	Tune-up limit (dBm)
Frequency (MHz)				707	710	711	
10	QPSK	1	0		22.96	23.03	24
10	QPSK	1	25		22.90	22.91	
10	QPSK	1	49		22.84	22.86	
10	QPSK	25	0		21.85	22.01	
10	QPSK	25	12		21.65	21.78	23
10	QPSK	25	25		21.59	21.74	
10	QPSK	50	0		21.71	21.75	
10	16QAM	1	0		21.82	21.95	
10	16QAM	1	25		21.82	21.83	23
10	16QAM	1	49		21.82	21.86	
10	16QAM	25	0		20.90	20.93	
10	16QAM	25	12		20.73	20.85	
10	16QAM	25	25		20.87	20.82	22
10	16QAM	50	0		20.63	20.77	
Channel				23755	23790	23825	Tune-up limit (dBm)
Frequency (MHz)				706.5	710	713.5	
5	QPSK	1	0		22.78	22.85	24
5	QPSK	1	12		22.72	22.73	
5	QPSK	1	24		22.66	22.68	
5	QPSK	12	0		21.67	21.83	
5	QPSK	12	7		21.47	21.98	23
5	QPSK	12	13		21.41	21.56	
5	QPSK	25	0		21.53	21.57	
5	16QAM	1	0		21.64	21.77	
5	16QAM	1	12		21.64	21.65	23
5	16QAM	1	24		21.64	21.68	
5	16QAM	12	0		20.72	20.75	
5	16QAM	12	7		20.55	20.67	
5	16QAM	12	13		20.69	20.64	22
5	16QAM	25	0		20.45	20.59	

Band 18 (835MHz Band) (dBm)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel					23925		
Frequency (MHz)					822.5		
15	QPSK	1	0		23.03		24
15	QPSK	1	37		22.69		
15	QPSK	1	74		22.64		23
15	QPSK	36	0		22.02		
15	QPSK	36	20		21.80		23
15	QPSK	36	39		21.93		
15	QPSK	75	0		21.83		23
15	16QAM	1	0		22.05		
15	16QAM	1	37		21.79		23
15	16QAM	1	74		21.82		
15	16QAM	36	0		20.98		22
15	16QAM	36	20		20.88		
15	16QAM	36	39		20.74		22
15	16QAM	75	0		20.80		
Channel				23900	23925	23950	Tune-up limit (dBm)
Frequency (MHz)				820	822.5	825	24
10	QPSK	1	0	22.62	22.71	22.89	
10	QPSK	1	25	22.55	22.52	22.51	23
10	QPSK	1	49	22.49	22.56	22.44	
10	QPSK	25	0	21.60	21.66	21.57	23
10	QPSK	25	12	21.54	21.46	21.55	
10	QPSK	25	25	21.39	21.59	21.48	23
10	QPSK	50	0	21.45	21.49	21.41	
10	16QAM	1	0	21.65	21.71	21.51	23
10	16QAM	1	25	21.69	21.45	21.45	
10	16QAM	1	49	21.56	21.48	21.42	22
10	16QAM	25	0	20.57	20.64	20.47	
10	16QAM	25	12	20.47	20.54	20.51	22
10	16QAM	25	25	20.42	20.40	20.34	
10	16QAM	50	0	20.49	20.46	20.42	
Channel				23875	23925	23975	Tune-up limit (dBm)
Frequency (MHz)				817.5	822.5	827.5	23
5	QPSK	1	0	22.44	22.53	22.51	
5	QPSK	1	12	22.37	22.34	22.33	22
5	QPSK	1	24	22.31	22.38	22.26	
5	QPSK	12	0	21.42	21.48	21.39	22
5	QPSK	12	7	21.36	21.28	21.37	
5	QPSK	12	13	21.21	21.41	21.30	22
5	QPSK	25	0	21.27	21.31	21.24	
5	16QAM	1	0	21.47	21.53	21.33	22
5	16QAM	1	12	21.51	21.27	21.27	
5	16QAM	1	24	21.36	21.30	21.24	21
5	16QAM	12	0	20.39	20.46	20.28	
5	16QAM	12	7	20.29	20.36	20.33	21
5	16QAM	12	13	20.24	20.22	20.16	
5	16QAM	25	0	20.31	20.28	20.24	

Band 19 (835MHz Band) (dBm)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up In (dBm)
Channel					24075		
Frequency (MHz)					837.5		
15	QPSK	1	0		23.06		24
15	QPSK	1	37		22.86		
15	QPSK	1	74		22.79		23
15	QPSK	36	0		22.01		
15	QPSK	36	20		21.63		23
15	QPSK	36	39		21.76		
15	QPSK	75	0		21.66		23
15	16QAM	1	0		21.88		
15	16QAM	1	37		21.62		23
15	16QAM	1	74		21.65		
15	16QAM	36	0		20.81		22
15	16QAM	36	20		20.71		
15	16QAM	36	39		20.57		22
15	16QAM	75	0		20.63		
Channel				24050	24075	24100	Tune-up In (dBm)
Frequency (MHz)				835	837.5	840	24
10	QPSK	1	0	22.68	22.77	22.75	
10	QPSK	1	25	22.61	22.58	22.57	23
10	QPSK	1	49	22.55	22.62	22.50	
10	QPSK	25	0	21.66	21.72	21.63	23
10	QPSK	25	12	21.60	21.52	21.61	
10	QPSK	25	25	21.45	21.65	21.54	23
10	QPSK	60	0	21.51	21.55	21.48	
10	16QAM	1	0	21.71	21.77	21.57	23
10	16QAM	1	25	21.75	21.51	21.51	
10	16QAM	1	49	21.62	21.54	21.48	22
10	16QAM	25	0	20.63	20.70	20.53	
10	16QAM	25	12	20.53	20.60	20.57	22
10	16QAM	25	25	20.48	20.46	20.40	
10	16QAM	50	0	20.55	20.52	20.48	
Channel				24025	24075	24125	Tune-up In (dBm)
Frequency (MHz)				832.5	837.5	842.5	23
5	QPSK	1	0	22.59	22.68	22.66	
5	QPSK	1	12	22.52	22.49	22.48	22
5	QPSK	1	24	22.46	22.53	22.41	
5	QPSK	12	0	21.57	21.63	21.54	22
5	QPSK	12	7	21.51	21.43	21.52	
5	QPSK	12	13	21.36	21.56	21.45	21
5	QPSK	25	0	21.42	21.46	21.38	
5	16QAM	1	0	21.62	21.68	21.48	21
5	16QAM	1	12	21.66	21.42	21.42	
5	16QAM	1	24	21.53	21.45	21.39	20
5	16QAM	12	0	20.54	20.61	20.44	
5	16QAM	12	7	20.44	20.51	20.48	20
5	16QAM	12	13	20.39	20.37	20.31	
5	16QAM	25	0	20.46	20.43	20.39	20

Band 26 for FCC (dBm) (only on channel required)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				26765	26865	26965	24
Frequency (MHz)				521.5	831.5	841.5	
15	QPSK	1	0	22.91	23.02	22.83	24
15	QPSK	1	37	22.76	22.77	22.81	
15	QPSK	1	74	22.70	22.72	22.57	
15	QPSK	36	0	21.94	22.07	22.03	
15	QPSK	36	20	21.66	21.77	21.62	23
15	QPSK	36	39	21.60	21.75	21.63	
15	QPSK	75	0	21.72	21.76	21.71	
15	16QAM	1	0	21.71	22.01	21.78	
15	16QAM	1	37	21.71	21.72	21.64	23
15	16QAM	1	74	21.71	21.75	21.53	
15	16QAM	36	0	20.91	21.10	20.84	
15	16QAM	36	20	20.74	20.86	20.92	
15	16QAM	36	39	20.88	20.83	20.73	22
15	16QAM	75	0	20.64	20.78	20.72	
Channel				26740	26865	26990	24
Frequency (MHz)				819	831.5	844	
10	QPSK	1	0	22.73	22.84	22.75	24
10	QPSK	1	25	22.58	22.59	22.43	
10	QPSK	1	49	22.52	22.54	22.39	
10	QPSK	25	0	21.76	21.89	21.85	
10	QPSK	25	12	21.48	21.59	21.44	23
10	QPSK	25	25	21.42	21.57	21.45	
10	QPSK	50	0	21.54	21.58	21.53	
10	16QAM	1	0	21.53	21.83	21.60	
10	16QAM	1	25	21.53	21.54	21.46	23
10	16QAM	1	49	21.53	21.57	21.35	
10	16QAM	25	0	20.73	20.92	20.66	
10	16QAM	25	12	20.56	20.68	20.74	
10	16QAM	25	25	20.70	20.65	20.55	22
10	16QAM	50	0	20.46	20.60	20.54	
Channel				26715	26865	27015	24
Frequency (MHz)				816.5	831.5	846.5	
5	QPSK	1	0	22.56	22.67	22.58	24
5	QPSK	1	12	22.41	22.42	22.26	
5	QPSK	1	24	22.35	22.37	22.22	
5	QPSK	12	0	21.59	21.72	21.68	
5	QPSK	12	7	21.31	21.42	21.27	23
5	QPSK	12	13	21.25	21.40	21.28	
5	QPSK	25	0	21.37	21.41	21.36	
5	16QAM	1	0	21.36	21.66	21.43	
5	16QAM	1	12	21.36	21.37	21.29	23
5	16QAM	1	24	21.36	21.40	21.16	
5	16QAM	12	0	20.56	20.75	20.49	
5	16QAM	12	7	20.39	20.51	20.57	
5	16QAM	12	13	20.53	20.48	20.38	22
5	16QAM	25	0	20.29	20.43	20.37	
Channel				26705	26865	27025	24
Frequency (MHz)				815.5	831.5	847.5	
3	QPSK	1	0	22.22	22.33	22.24	24
3	QPSK	1	8	22.07	22.08	21.52	
3	QPSK	1	14	22.01	22.03	21.88	
3	QPSK	8	0	21.25	21.38	21.34	
3	QPSK	8	4	20.97	21.08	20.93	23
3	QPSK	8	7	20.91	21.06	20.94	
3	QPSK	15	0	21.03	21.07	21.02	
3	16QAM	1	0	21.02	21.32	21.09	
3	16QAM	1	8	21.02	21.03	20.95	23
3	16QAM	1	14	21.02	21.06	20.84	
3	16QAM	8	0	20.22	20.41	20.15	
3	16QAM	8	4	20.05	20.17	20.23	
3	16QAM	8	7	20.19	20.14	20.04	22
3	16QAM	15	0	19.96	20.09	20.03	
Channel				26691	26865	27035	24
Frequency (MHz)				814.7	831.5	848.3	
1.4	QPSK	1	0	22.05	22.16	22.07	24
1.4	QPSK	1	3	21.90	21.91	21.75	
1.4	QPSK	1	5	21.84	21.86	21.71	
1.4	QPSK	3	0	21.08	21.21	21.17	
1.4	QPSK	3	1	20.80	20.91	20.76	23
1.4	QPSK	3	3	20.74	20.89	20.77	
1.4	QPSK	6	0	20.86	20.90	20.85	
1.4	16QAM	1	0	20.85	21.15	20.92	
1.4	16QAM	1	3	20.85	20.86	20.78	23
1.4	16QAM	1	5	20.85	20.89	20.67	
1.4	16QAM	3	0	20.05	20.24	19.98	
1.4	16QAM	3	1	19.88	20.00	20.06	
1.4	16QAM	3	3	20.02	19.97	19.87	22
1.4	16QAM	6	0	19.78	19.92	19.86	

Band 38(only on channel required) (dBm)							
BW (MHz)	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	22.95	22.98	22.96	24
20	QPSK	1	49	22.61	22.74	22.58	
20	QPSK	1	99	22.73	22.70	22.52	
20	QPSK	50	0	22.02	22.07	22.04	
20	QPSK	50	24	22.12	22.13	21.99	23
20	QPSK	50	50	22.09	22.02	21.95	
20	QPSK	100	0	22.12	22.15	22.02	
20	16QAM	1	0	22.22	22.23	22.11	
20	16QAM	1	49	22.12	22.15	22.19	23
20	16QAM	1	99	22.04	22.08	22.05	
20	16QAM	50	0	21.09	21.16	20.97	
20	16QAM	50	24	21.17	21.12	21.14	
20	16QAM	50	50	20.99	21.04	20.97	22
20	16QAM	100	0	21.08	21.09	21.03	
Channel				37825	38000	38175	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	22.76	22.79	22.77	24
15	QPSK	1	37	22.42	22.55	22.39	
15	QPSK	1	74	22.54	22.51	22.33	
15	QPSK	36	0	21.83	21.88	21.85	
15	QPSK	36	20	21.93	21.94	21.80	23
15	QPSK	36	39	21.90	21.83	21.76	
15	QPSK	75	0	21.93	21.96	21.83	
15	16QAM	1	0	22.03	22.04	21.92	
15	16QAM	1	37	21.93	21.96	22.00	23
15	16QAM	1	74	21.85	21.88	21.86	
15	16QAM	36	0	20.90	20.97	20.79	
15	16QAM	36	20	20.98	20.93	20.95	
15	16QAM	36	39	20.80	20.85	20.78	22
15	16QAM	75	0	20.89	20.90	20.84	
Channel				37800	38000	38200	Tune-up limit (dBm)
Frequency (MHz)				2675	2595	2615	
10	QPSK	1	0	22.58	22.61	22.59	24
10	QPSK	1	25	22.34	22.37	22.21	
10	QPSK	1	49	22.36	22.33	22.15	
10	QPSK	25	0	21.85	21.70	21.67	
10	QPSK	25	12	21.75	21.76	21.62	23
10	QPSK	25	25	21.72	21.65	21.58	
10	QPSK	50	0	21.75	21.78	21.65	
10	16QAM	1	0	21.85	21.86	21.74	
10	16QAM	1	25	21.75	21.78	21.82	23
10	16QAM	1	49	21.67	21.71	21.68	
10	16QAM	25	0	20.72	20.79	20.60	
10	16QAM	25	12	20.80	20.75	20.77	
10	16QAM	25	25	20.62	20.67	20.60	22
10	16QAM	50	0	20.71	20.72	20.66	
Channel				37775	38000	38225	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	22.51	22.54	22.52	24
5	QPSK	1	12	22.17	22.30	22.14	
5	QPSK	1	24	22.29	22.26	22.08	
5	QPSK	12	0	21.58	21.63	21.60	
5	QPSK	12	7	21.68	21.69	21.55	23
5	QPSK	12	13	21.65	21.58	21.51	
5	QPSK	25	0	21.68	21.71	21.58	
5	16QAM	1	0	21.78	21.79	21.67	
5	16QAM	1	12	21.68	21.71	21.75	23
5	16QAM	1	24	21.60	21.64	21.61	
5	16QAM	12	0	20.65	20.72	20.53	
5	16QAM	12	7	20.73	20.68	20.70	
5	16QAM	12	13	20.55	20.60	20.53	22
5	16QAM	25	0	20.64	20.65	20.59	

Band 41 For FCC (2496-2690MHz) (dBm)									
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Low Channel	Middle Channel	Middle High Channel	High Channel	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	22.94	22.98	23.15	22.95	23.10	24
20	QPSK	1	49	22.92	22.96	22.97	22.86	22.87	
20	QPSK	1	99	22.93	22.87	22.89	22.81	22.82	
20	QPSK	50	0	22.92	22.95	22.10	22.06	22.07	
20	QPSK	50	24	22.12	22.09	22.03	21.98	21.95	23
20	QPSK	50	50	22.14	22.03	21.99	21.82	21.72	
20	QPSK	100	0	22.13	22.09	22.04	21.94	21.82	
20	16QAM	1	0	22.12	22.14	22.08	22.02	22.03	
20	16QAM	1	49	22.05	21.92	22.02	21.95	21.98	23
20	16QAM	1	99	21.98	21.84	22.07	21.93	21.95	
20	16QAM	50	0	21.22	21.18	21.13	20.98	20.89	
20	16QAM	50	24	21.16	21.01	21.07	20.95	20.92	
20	16QAM	50	50	21.13	20.89	20.92	20.84	20.88	22
20	16QAM	100	0	21.04	21.01	21.07	21.01	21.02	
Channel				39725	40173	40620	41058	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	22.77	22.81	22.98	22.78	22.93	24
15	QPSK	1	37	22.75	22.79	22.80	22.69	22.70	
15	QPSK	1	74	22.76	22.70	22.72	22.64	22.65	
15	QPSK	36	0	21.85	21.88	21.93	21.89	21.90	
15	QPSK	36	20	21.95	21.92	21.86	21.71	21.68	23
15	QPSK	36	39	21.97	21.86	21.82	21.65	21.55	
15	QPSK	75	0	21.96	21.92	21.87	21.77	21.65	
15	16QAM	1	0	21.95	21.97	21.91	21.85	21.86	
15	16QAM	1	37	21.88	21.75	21.85	21.78	21.81	23
15	16QAM	1	74	21.81	21.67	21.90	21.79	21.78	
15	16QAM	36	0	21.05	21.01	20.96	20.81	20.72	
15	16QAM	36	20	20.99	20.84	20.90	20.78	20.75	
15	16QAM	36	39	20.96	20.72	20.75	20.67	20.71	22
15	16QAM	75	0	20.87	20.84	20.90	20.84	20.85	
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	22.80	22.64	22.81	22.61	22.78	24
10	QPSK	1	25	22.98	22.62	22.63	22.52	22.53	
10	QPSK	1	49	22.99	22.53	22.55	22.47	22.48	
10	QPSK	25	0	21.68	21.71	21.76	21.72	21.73	
10	QPSK	25	12	21.78	21.75	21.69	21.54	21.51	23
10	QPSK	25	25	21.80	21.69	21.65	21.48	21.38	
10	QPSK	50	0	21.79	21.75	21.70	21.60	21.48	
10	16QAM	1	0	21.78	21.80	21.74	21.68	21.69	
10	16QAM	1	25	21.71	21.58	21.68	21.61	21.64	23
10	16QAM	1	49	21.64	21.50	21.73	21.59	21.61	
10	16QAM	25	0	20.88	20.84	20.79	20.64	20.55	
10	16QAM	25	12	20.82	20.67	20.73	20.61	20.58	
10	16QAM	25	25	20.79	20.55	20.58	20.50	20.54	22
10	16QAM	50	0	20.70	20.67	20.73	20.67	20.68	
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)
Frequency (MHz)				2496.5	2545.8	2593	2640.30	2687.5	
5	QPSK	1	0	22.51	22.55	22.72	22.52	22.67	24
5	QPSK	1	12	22.49	22.53	22.54	22.43	22.44	
5	QPSK	1	24	22.50	22.44	22.45	22.39	22.39	
5	QPSK	12	0	21.59	21.62	21.67	21.63	21.64	
5	QPSK	12	7	21.69	21.66	21.60	21.45	21.42	23
5	QPSK	12	13	21.71	21.60	21.56	21.39	21.29	
5	QPSK	25	0	21.70	21.66	21.61	21.51	21.39	
5	16QAM	1	0	21.69	21.71	21.65	21.59	21.60	
5	16QAM	1	12	21.62	21.49	21.59	21.52	21.55	23
5	16QAM	1	24	21.55	21.41	21.64	21.50	21.52	
5	16QAM	12	0	20.79	20.75	20.70	20.55	20.46	
5	16QAM	12	7	20.73	20.58	20.64	20.52	20.49	
5	16QAM	12	13	20.70	20.46	20.49	20.41	20.45	22
5	16QAM	25	0	20.61	20.58	20.64	20.58	20.59	

Band 66 (dBm)							
BW (MHz)	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				132072	132322	132572	24
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	23.05	23.08	23.03	24
20	QPSK	1	49	22.79	22.84	22.86	
20	QPSK	1	99	22.71	22.77	22.70	
20	QPSK	50	0	22.02	22.07	22.05	
20	QPSK	50	24	21.78	21.82	21.71	23
20	QPSK	50	50	21.64	21.75	21.66	
20	QPSK	100	0	21.86	21.90	21.75	
20	16QAM	1	0	22.05	22.08	21.90	
20	16QAM	1	49	21.85	22.02	21.83	23
20	16QAM	1	99	21.76	21.97	21.71	
20	16QAM	50	0	20.95	21.09	21.06	
20	16QAM	50	24	20.93	20.97	20.99	
20	16QAM	50	50	20.79	20.76	20.80	22
20	16QAM	100	0	20.76	20.70	20.70	
Channel				132047	132322	132597	24
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	22.96	22.99	22.94	24
15	QPSK	1	37	22.70	22.75	22.57	
15	QPSK	1	74	22.62	22.68	22.61	
15	QPSK	36	0	21.93	21.98	21.96	
15	QPSK	36	20	21.69	21.73	21.62	23
15	QPSK	36	49	21.55	21.66	21.57	
15	QPSK	75	0	21.77	21.81	21.66	
15	16QAM	1	0	21.96	21.99	21.81	
15	16QAM	1	37	21.76	21.93	21.74	23
15	16QAM	1	74	21.67	21.88	21.62	
15	16QAM	36	0	20.86	21.00	20.97	
15	16QAM	36	20	20.84	20.88	20.90	
15	16QAM	36	39	20.70	20.67	20.71	22
15	16QAM	75	0	20.67	20.61	20.61	
Channel				132022	132322	132622	24
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	22.78	22.81	22.76	24
10	QPSK	1	25	22.52	22.57	22.39	
10	QPSK	1	49	22.44	22.50	22.43	
10	QPSK	25	0	21.75	21.80	21.78	
10	QPSK	25	12	21.51	21.55	21.44	23
10	QPSK	25	25	21.37	21.48	21.39	
10	QPSK	50	0	21.59	21.63	21.48	
10	16QAM	1	0	21.78	21.81	21.63	
10	16QAM	1	25	21.58	21.75	21.56	23
10	16QAM	1	49	21.49	21.70	21.44	
10	16QAM	25	0	20.68	20.82	20.79	
10	16QAM	25	12	20.66	20.70	20.72	
10	16QAM	25	25	20.52	20.49	20.53	22
10	16QAM	50	0	20.49	20.43	20.43	
Channel				131997	132322	132647	24
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	22.81	22.84	22.79	24
5	QPSK	1	12	22.55	22.60	22.42	
5	QPSK	1	24	22.47	22.53	22.46	
5	QPSK	12	0	21.78	21.83	21.81	
5	QPSK	12	7	21.54	21.58	21.47	23
5	QPSK	12	13	21.40	21.51	21.42	
5	QPSK	25	0	21.62	21.66	21.51	
5	16QAM	1	0	21.81	21.84	21.66	
5	16QAM	1	12	21.61	21.78	21.59	23
5	16QAM	1	24	21.52	21.73	21.47	
5	16QAM	12	0	20.71	20.85	20.82	
5	16QAM	12	7	20.69	20.73	20.75	
5	16QAM	12	13	20.55	20.52	20.56	22
5	16QAM	25	0	20.52	20.46	20.46	
Channel				131967	132322	132657	24
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	22.74	22.77	22.72	24
3	QPSK	1	8	22.48	22.53	22.35	
3	QPSK	1	14	22.40	22.46	22.39	
3	QPSK	8	0	21.71	21.76	21.74	
3	QPSK	8	4	21.47	21.51	21.40	23
3	QPSK	8	7	21.33	21.44	21.35	
3	QPSK	15	0	21.55	21.59	21.44	
3	16QAM	1	0	21.74	21.77	21.59	
3	16QAM	1	8	21.54	21.71	21.52	23
3	16QAM	1	14	21.45	21.66	21.40	
3	16QAM	8	0	20.64	20.78	20.75	
3	16QAM	8	4	20.62	20.66	20.68	
3	16QAM	8	7	20.48	20.45	20.49	22
3	16QAM	15	0	20.45	20.39	20.39	
Channel				131979	132322	132685	24
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	22.69	22.72	22.67	24
1.4	QPSK	1	3	22.43	22.48	22.30	
1.4	QPSK	1	5	22.35	22.41	22.34	
1.4	QPSK	3	0	21.66	21.71	21.69	
1.4	QPSK	3	1	21.42	21.46	21.35	23
1.4	QPSK	3	3	21.26	21.39	21.30	
1.4	QPSK	6	0	21.50	21.54	21.39	
1.4	16QAM	1	0	21.69	21.72	21.54	
1.4	16QAM	1	3	21.49	21.66	21.47	23
1.4	16QAM	1	5	21.40	21.61	21.35	
1.4	16QAM	3	0	20.59	20.73	20.70	
1.4	16QAM	3	1	20.57	20.61	20.63	
1.4	16QAM	3	3	20.43	20.40	20.44	22
1.4	16QAM	6	0	20.40	20.34	20.34	

2.4GHz WLAN ANT 1

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
2.4GHz WLAN ANT 1	802.11b 1Mbps	CH 1	2412	18.35	19.00	default	99.97
		CH 6	2437	18.18	19.00	default	99.95
		CH 11	2462	18.36	19.00	default	99.97
	802.11g 6Mbps	CH 1	2412	16.10	17.00	default	97.08
		CH 6	2437	15.99	17.00	default	96.94
		CH 11	2462	16.28	17.00	default	96.94
	802.11n-HT20 MCS0	CH 1	2412	16.01	17.00	default	96.73
		CH 6	2437	15.88	16.50	default	96.73
		CH 11	2462	16.18	17.00	default	96.73
	802.11n-HT40 MCS0	CH 3	2422	15.40	16.00	default	93.64
		CH 6	2437	15.17	16.00	default	93.64
		CH 9	2452	15.42	16.00	default	93.64

5GHz WLAN ANT 1

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
5.2GHz WLAN ANT 1	802.11a 6Mbps	CH 36	5180	15.79	16.50	default	95.83
		CH 44	5220	15.94	16.50	default	97.22
		CH 48	5240	15.80	16.50	default	97.22
	802.11n-HT20 MCS0	CH 36	5180	15.98	16.50	default	97.01
		CH 44	5220	15.87	16.50	default	97.01
		CH 48	5240	16.57	16.50	default	95.59
	802.11n-HT40 MCS0	CH 38	5190	15.41	16.00	default	94.29
		CH 46	5230	14.88	15.50	default	94.29
		CH 36	5180	15.54	16.50	default	95.59
	802.11ac-VHT20 MCS0	CH 44	5220	15.61	16.50	default	97.08
		CH 48	5240	15.42	16.50	default	97.01
		CH 38	5190	15.19	16.00	default	94.12
	802.11ac-VHT40 MCS0	CH 46	5230	15.36	16.00	default	91.43
		802.11ac-VHT80 MCS0	CH 42	5210	15.24	16.00	default

5GHz WLAN ANT 1

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
5.3GHz WLAN ANT 1	802.11a 6Mbps	CH 52	5260	15.80	16.50	default	97.22
		CH 60	5300	15.22	16.00	default	97.22
		CH 64	5320	15.11	16.00	default	97.22
	802.11n-HT20 MCS0	CH 52	5260	16.14	17.00	default	97.01
		CH 60	5300	15.85	16.50	default	97.01
		CH 64	5320	15.83	16.50	default	95.59
	802.11n-HT40 MCS0	CH 54	5270	14.80	15.50	default	94.12
		CH 62	5310	14.79	15.50	default	94.12
		CH 52	5260	15.76	16.50	default	95.59
	802.11ac-VHT20 MCS0	CH 60	5300	15.61	16.50	default	95.59
		CH 64	5320	15.31	16.00	default	97.06
		CH 54	5270	15.20	16.00	default	94.29
	802.11ac-VHT40 MCS0	CH 62	5310	15.26	16.00	default	94.29
		CH 58	5290	14.91	15.50	default	88.89

5GHz WLAN ANT 1

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
5.5GHz WLAN ANT 1	802.11a 6Mbps	CH 100	5500	15.58	16.50	default	97.18
		CH 120	5600	15.48	16.50	default	97.18
		CH 144	5720	15.16	16.00	default	97.18
	802.11n-HT20 MCS0	CH 100	5500	15.94	16.50	default	97.01
		CH 120	5600	15.99	16.50	default	97.01
		CH 144	5720	15.81	16.50	default	97.01
	802.11n-HT40 MCS0	CH 102	5510	14.99	15.50	default	94.12
		CH 126	5630	15.07	16.00	default	94.29
		CH 142	5710	15.01	16.00	default	94.12
	802.11ac-VHT20 MCS0	CH 100	5500	15.78	16.50	default	97.08
		CH 120	5600	15.76	16.50	default	97.08
		CH 144	5720	15.62	16.50	default	95.59
	802.11ac-VHT40 MCS0	CH 102	5510	15.57	16.50	default	91.43
		CH 126	5630	15.80	16.50	default	94.29
		CH 142	5710	15.35	16.00	default	94.12
	802.11ac-VHT80 MCS0	CH 100	5500	14.92	15.50	default	84.21
		CH 122	5610	14.84	15.50	default	84.21
		CH 138	5690	14.87	15.50	default	89.47

5GHz WLAN ANT 1

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
5.8GHz WLAN ANT 1	802.11a 6Mbps	CH 149	5745	15.49	16.50	default	97.22
		CH 157	5785	15.57	16.50	default	97.22
		CH 165	5825	15.38	16.00	default	97.22
	802.11n-HT20 MCS0	CH 149	5745	15.49	16.00	default	97.01
		CH 157	5785	15.87	16.50	default	97.01
		CH 165	5825	14.98	15.50	default	97.01
	802.11n-HT40 MCS0	CH 151	5755	14.88	15.50	default	94.29
		CH 159	5795	14.77	15.50	default	94.12
		CH 149	5745	15.29	16.00	default	97.06
	802.11ac-VHT20 MCS0	CH 157	5785	15.48	16.00	default	97.06
		CH 165	5825	15.33	16.00	default	97.06
		CH 151	5755	15.29	16.00	default	94.29
	802.11ac-VHT40 MCS0	CH 159	5795	15.27	16.00	default	94.12
		CH 155	5775	14.49	15.00	default	88.89

Average power (dBm)										
Mode	Channel	Frequency (MHz)	1Mbps			2Mbps			3Mbps	
			Average power (dBm)	Tune-up Limit	Duty Cycle %	Average power (dBm)	Tune-up Limit	Duty Cycle %	Average power (dBm)	Tune-up Limit
BR / EDR	CH 00	2402	9.15	10.00	76.91	6.53	7.00	76.99	6.40	7.00
		CH 39	2441	8.49	9.00	76.91	5.71	6.50	76.99	6.00
		CH 75	2480	9.03	9.50	76.90	6.33	77.05	6.63	7.50
	Power Setting		default							

Mode	Channel	Frequency (MHz)	1Mbps			2Mbps		
			Average power (dBm)	Tune-up Limit	Duty Cycle %	Average power (dBm)	Tune-up Limit	Duty Cycle %
BLE	CH 00	2402	-8.34	0.00	81.44	-7.88	0.00	31.97
	CH 39	2441	-8.84	0.00	81.36	-7.60	0.00	31.92
	CH 75	2480	-8.28	0.00	81.44	-7.78	0.00	31.97
Power Setting								