



REPORT No.: SZ22050016S01

Annex E Conducted Power

Note:

Conducted power unit: dBm

The target power was recorded in the manufacture document.

Full Power for Main ANT

GSM850	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)	Ch Delta > 0.5
	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	33.50	33.53	33.45	34.00	24.50	24.53	24.45	25.00	0.10
GPRS 1 Tx slot	33.52	33.55	33.46	34.00	24.52	24.55	24.46	25.00	
GPRS 2 Tx slots	30.71	30.74	30.68	32.00	24.71	24.74	24.68	26.00	0.06
GPRS 3 Tx slots	28.85	28.70	28.52	30.00	24.59	24.44	24.26	25.74	0.33
GPRS 4 Tx slots	27.87	27.68	27.74	28.00	24.87	24.68	24.74	25.00	0.19
EDGE 1 Tx slot	26.97	27.02	26.90	28.00	17.97	18.02	17.90	19.00	0.12
EDGE 2 Tx slots	23.80	23.84	23.76	25.00	17.80	17.84	17.76	19.00	0.08
EDGE 3 Tx slots	21.78	21.82	21.78	23.00	17.52	17.56	17.52	18.74	0.04
EDGE 4 Tx slots	20.76	20.85	20.73	21.00	17.76	17.85	17.73	18.00	0.12
Mode		Max.	33.55			Max.	24.87		
Attenuator	Cable Loss : 0.6								

GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)	Ch Delta > 0.5
	512	661	810		512	661	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	30.32	30.38	30.00	31.00	21.32	21.38	21.00	22.00	0.40
GPRS 1 Tx slot	30.36	30.40	30.03	31.00	21.36	21.40	21.03	22.00	
GPRS 2 Tx slots	28.02	28.07	27.98	29.00	22.02	22.07	21.98	23.00	0.09
GPRS 3 Tx slots	26.22	26.26	26.18	27.00	21.96	22.00	21.92	22.74	0.08
GPRS 4 Tx slots	24.33	24.38	24.29	25.00	21.33	21.38	21.29	22.00	0.09
EDGE 1 Tx slot	25.93	26.15	26.11	27.00	16.93	17.15	17.11	18.00	0.22
EDGE 2 Tx slots	23.32	23.47	23.42	24.00	17.32	17.47	17.42	18.00	0.15
EDGE 3 Tx slots	21.87	21.91	21.86	22.00	17.61	17.65	17.60	17.74	0.05
EDGE 4 Tx slots	20.78	20.85	20.83	21.00	17.78	17.85	17.83	18.00	0.07
Mode		Max.	30.40			Max.	22.07		
Attenuator	Cable Loss : 0.8								

Band	WCDMA Band II			Tune-up Limit (dBm)	WCDMA Band IV			Tune-up Limit (dBm)	WCDMA Band V			Tune-up Limit (dBm)
	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	1752.8		826.4	836.4	846.6	
3GPP Rel 99 RMC 12.2Kbps	23.21	23.28	23.17	24.00	22.92	23.04	23.01	24.00	23.07	23.17	23.13	24.00
3GPP Rel 6 HSDPA Subtest-1	22.84	22.79	22.73	23.50	22.59	22.74	22.68	23.50	22.61	22.30	22.70	23.50
3GPP Rel 6 HSDPA Subtest-2	22.85	22.77	22.75	23.50	22.57	22.67	22.65	23.50	22.59	22.56	22.65	23.50
3GPP Rel 6 HSDPA Subtest-3	22.34	22.34	22.24	23.00	22.09	22.18	22.22	23.00	22.15	22.06	22.18	23.00
3GPP Rel 6 HSDPA Subtest-4	22.31	22.26	22.18	23.00	22.06	22.17	22.14	23.00	22.04	22.06	22.16	23.00
3GPP Rel 6 HSUPA Subtest-1	22.30	22.26	22.24	23.00	22.05	22.17	22.12	23.00	22.07	22.07	22.19	23.00
3GPP Rel 6 HSUPA Subtest-2	22.83	22.80	22.74	23.50	22.55	22.72	22.65	23.50	22.66	22.55	22.69	23.50
3GPP Rel 6 HSUPA Subtest-3	21.84	21.79	21.74	22.50	21.60	21.69	21.63	22.50	21.61	21.58	21.67	23.50
3GPP Rel 6 HSUPA Subtest-4	22.83	22.81	22.69	23.50	22.54	22.69	22.65	23.50	22.58	22.59	22.76	23.50
3GPP Rel 6 HSUPA Subtest-5	21.85	21.75	21.68	22.50	21.54	21.66	21.65	22.50	21.52	21.56	21.71	22.50
3GPP Rel 7 HSRA+ (16QAM) Subtest-1	21.82	21.78	21.69	22.50	21.54	21.70	21.68	22.50	21.53	21.58	21.63	22.50
Attenuator	Cable Loss			0.8	Cable Loss			0.8	Cable Loss			0.6
Mode		Max.	23.28			Max.	23.04			Max.	23.17	

Band 2 (1900MHz Band) Part 24E							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				18700	18900	19100	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	22.88	22.93	22.86	24
20	QPSK	1	49	22.86	22.90	22.82	
20	QPSK	1	99	22.74	22.55	22.57	
20	QPSK	50	0	21.98	22.08	22.02	23
20	QPSK	50	24	21.96	22.04	22.00	
20	QPSK	50	50	21.95	22.01	21.95	
20	QPSK	100	0	22.02	22.06	21.98	23
20	16QAM	1	0	22.25	22.31	22.21	
20	16QAM	1	49	22.22	22.28	22.17	
20	16QAM	1	99	22.15	22.19	22.16	22
20	16QAM	50	0	21.05	21.08	21.03	
20	16QAM	50	24	21.03	21.04	21.01	
20	16QAM	50	50	20.96	20.97	20.88	22
20	16QAM	100	0	20.97	21.00	20.96	
20	64QAM	1	0	21.36	21.42	21.27	
20	64QAM	1	49	21.34	21.35	21.29	22
20	64QAM	1	99	21.14	21.18	21.13	
20	64QAM	50	0	20.22	20.27	20.24	21
20	64QAM	50	24	20.20	20.23	20.20	
20	64QAM	50	50	20.16	20.21	20.19	
20	64QAM	100	0	20.13	20.20	20.17	24
Channel				18675	18900	19125	
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	22.83	22.91	22.79	24
15	QPSK	1	37	22.75	22.77	22.70	
15	QPSK	1	74	22.63	22.54	22.43	
15	QPSK	36	0	21.89	22.01	21.93	23
15	QPSK	36	20	21.91	21.91	21.99	
15	QPSK	36	39	21.90	21.92	21.91	
15	QPSK	75	0	21.94	22.03	21.87	23
15	16QAM	1	0	22.19	22.16	22.13	
15	16QAM	1	37	22.08	22.21	22.03	
15	16QAM	1	74	22.02	22.07	22.07	22
15	16QAM	36	0	21.00	20.97	20.96	
15	16QAM	36	20	20.99	20.91	20.98	
15	16QAM	36	39	20.92	20.92	20.77	22
15	16QAM	75	0	20.90	20.94	20.84	
15	64QAM	1	0	21.47	21.45	21.36	
15	64QAM	1	37	21.37	21.34	21.40	22
15	64QAM	1	74	21.21	21.21	21.15	
15	64QAM	36	0	20.22	20.38	20.26	21
15	64QAM	36	20	20.25	20.23	20.18	
15	64QAM	36	39	20.17	20.20	20.20	
15	64QAM	75	0	20.12	20.26	20.24	24
Channel				18650	18900	19150	
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	22.80	22.79	22.75	24
10	QPSK	1	25	22.81	22.84	22.72	
10	QPSK	1	49	22.60	22.51	22.43	
10	QPSK	25	0	21.94	22.05	21.95	23
10	QPSK	25	12	21.93	21.90	21.86	
10	QPSK	25	25	21.88	21.88	21.81	
10	QPSK	50	0	21.92	22.03	21.89	23
10	16QAM	1	0	22.16	22.30	22.13	
10	16QAM	1	25	22.14	22.26	22.02	
10	16QAM	1	49	22.04	22.11	22.10	22
10	16QAM	25	0	20.93	20.94	20.88	
10	16QAM	25	12	20.95	20.97	20.98	
10	16QAM	25	25	20.86	20.85	20.86	22
10	16QAM	50	0	20.95	20.85	20.91	
10	64QAM	1	0	21.35	21.39	21.25	
10	64QAM	1	25	21.38	21.34	21.30	22
10	64QAM	1	49	21.18	21.15	21.12	
10	64QAM	25	0	20.31	20.25	20.33	
10	64QAM	25	12	20.17	20.28	20.27	21
10	64QAM	25	25	20.11	20.25	20.16	
10	64QAM	50	0	20.15	20.17	20.19	
Channel				18625	18900	19175	24
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	22.78	22.81	22.85	
5	QPSK	1	12	22.79	22.83	22.78	23
5	QPSK	1	24	22.69	22.46	22.53	
5	QPSK	12	0	21.87	22.00	21.98	
5	QPSK	12	7	21.83	22.02	21.88	23
5	QPSK	12	13	21.83	22.00	21.80	
5	QPSK	25	0	21.97	21.97	21.92	
5	16QAM	1	0	22.14	22.16	22.09	23
5	16QAM	1	12	22.20	22.21	22.16	
5	16QAM	1	24	22.14	22.08	22.04	
5	16QAM	12	0	20.95	21.04	20.93	22
5	16QAM	12	7	20.96	21.01	20.86	
5	16QAM	12	13	20.95	20.93	20.73	
5	16QAM	25	0	20.82	20.89	20.89	22
5	64QAM	1	0	21.15	21.21	21.06	
5	64QAM	1	12	21.22	21.21	21.11	
5	64QAM	1	24	20.98	21.08	20.95	21
5	64QAM	12	0	20.12	20.12	20.03	
5	64QAM	12	7	20.10	19.99	20.09	
5	64QAM	12	13	19.92	20.00	20.08	21
5	64QAM	25	0	19.93	20.02	20.01	
Channel				18615	18900	19185	
Frequency (MHz)				1851.5	1880	1908.5	24
3	QPSK	1	0	22.84	22.84	22.72	
3	QPSK	1	8	22.76	22.85	22.75	
3	QPSK	1	14	22.63	22.50	22.48	23
3	QPSK	8	0	21.86	21.94	21.89	
3	QPSK	8	4	21.95	21.90	21.91	
3	QPSK	8	7	21.94	21.89	21.85	

Band 4 (AWS Band) 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	22.86	22.88	22.82	24
20	QPSK	1	49	22.73	22.83	22.77	
20	QPSK	1	99	22.59	22.68	22.64	
20	QPSK	50	0	21.81	21.85	21.82	23
20	QPSK	50	24	21.80	21.83	21.77	
20	QPSK	50	50	21.75	21.78	21.76	
20	QPSK	100	0	21.80	21.82	21.78	23
20	16QAM	1	0	21.85	21.88	21.81	
20	16QAM	1	49	21.81	21.85	21.79	
20	16QAM	1	99	21.72	21.77	21.75	22
20	16QAM	50	0	20.79	20.87	20.84	
20	16QAM	50	24	20.76	20.84	20.80	
20	16QAM	50	50	20.74	20.80	20.77	22
20	16QAM	100	0	20.81	20.88	20.87	
20	64QAM	1	0	21.14	21.20	21.16	
20	64QAM	1	49	21.06	21.12	21.10	22
20	64QAM	1	99	20.97	21.04	21.02	
20	64QAM	50	0	20.07	20.12	20.09	21
20	64QAM	50	24	20.01	20.07	20.05	
20	64QAM	50	50	19.97	20.04	20.03	
20	64QAM	100	0	19.94	20.02	19.99	24
Channel				20025	20175	20325	
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	22.84	22.79	22.79	24
15	QPSK	1	37	22.72	22.71	22.67	
15	QPSK	1	74	22.48	22.54	22.61	
15	QPSK	36	0	21.68	21.72	21.74	23
15	QPSK	36	20	21.79	21.80	21.62	
15	QPSK	36	39	21.66	21.74	21.70	
15	QPSK	75	0	21.78	21.81	21.70	23
15	16QAM	1	0	21.77	21.74	21.71	
15	16QAM	1	37	21.80	21.78	21.74	
15	16QAM	1	74	21.62	21.76	21.73	22
15	16QAM	36	0	20.65	20.75	20.79	
15	16QAM	36	20	20.64	20.79	20.69	
15	16QAM	36	39	20.61	20.69	20.67	22
15	16QAM	75	0	20.72	20.84	20.73	
15	64QAM	1	0	21.05	21.19	21.12	
15	64QAM	1	37	21.06	21.06	21.03	22
15	64QAM	1	74	20.88	21.02	20.91	
15	64QAM	36	0	20.06	20.08	20.05	21
15	64QAM	36	20	19.91	20.00	20.03	
15	64QAM	36	39	19.85	19.91	19.93	
15	64QAM	75	0	19.90	20.02	19.88	24
Channel				20000	20175	20350	
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	22.85	22.75	22.70	24
10	QPSK	1	25	22.64	22.78	22.73	
10	QPSK	1	49	22.50	22.53	22.55	
10	QPSK	25	0	21.68	21.82	21.69	23
10	QPSK	25	12	21.75	21.68	21.62	
10	QPSK	25	25	21.69	21.74	21.72	
10	QPSK	50	0	21.77	21.73	21.76	23
10	16QAM	1	0	21.71	21.73	21.66	

3	QPSK	15	0	21.99	21.91	21.94	23
3	16QAM	1	0	22.19	22.30	22.20	
3	16QAM	1	8	22.09	22.16	22.07	
3	16QAM	1	14	22.02	22.13	22.05	22
3	16QAM	8	0	20.95	20.94	20.89	
3	16QAM	8	4	20.96	20.98	20.88	
3	16QAM	8	7	20.81	20.92	20.85	22
3	16QAM	15	0	20.86	20.90	20.81	
3	64QAM	1	0	21.22	21.20	21.09	
3	64QAM	1	8	21.18	21.17	21.16	22
3	64QAM	1	14	20.92	21.07	20.97	
3	64QAM	8	0	19.99	20.03	20.02	
3	64QAM	8	4	20.02	20.06	20.03	21
3	64QAM	8	7	19.97	20.01	20.02	
3	64QAM	15	0	19.98	20.09	19.97	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	22.79	22.85	22.80	24
1.4	QPSK	1	3	22.76	22.76	22.75	
1.4	QPSK	1	5	22.66	22.53	22.47	
1.4	QPSK	3	0	22.79	22.68	22.81	
1.4	QPSK	3	1	22.66	22.70	22.76	
1.4	QPSK	3	3	22.83	22.92	22.88	
1.4	QPSK	6	0	21.92	21.94	21.95	23
1.4	16QAM	1	0	22.20	22.30	22.07	23
1.4	16QAM	1	3	22.17	22.19	22.13	
1.4	16QAM	1	5	22.08	22.04	22.05	
1.4	16QAM	3	0	22.04	21.96	22.01	
1.4	16QAM	3	1	21.96	21.94	21.95	
1.4	16QAM	3	3	21.91	21.85	21.77	
1.4	16QAM	6	0	20.93	20.86	20.86	22
1.4	64QAM	1	0	21.31	21.31	21.17	22
1.4	64QAM	1	3	21.26	21.28	21.20	
1.4	64QAM	1	5	21.08	21.13	21.08	
1.4	64QAM	3	0	21.13	21.10	21.05	
1.4	64QAM	3	1	21.12	21.13	21.02	
1.4	64QAM	3	3	21.02	21.07	21.08	
1.4	64QAM	6	0	20.01	20.11	20.12	21

3	QPSK	15	0	21.76	21.78	21.72	23
3	16QAM	1	0	21.73	21.86	21.73	
3	16QAM	1	8	21.77	21.72	21.67	
3	16QAM	1	14	21.71	21.76	21.74	22
3	16QAM	8	0	20.75	20.78	20.78	
3	16QAM	8	4	20.66	20.72	20.73	
3	16QAM	8	7	20.70	20.66	20.67	22
3	16QAM	15	0	20.72	20.81	20.86	
3	64QAM	1	0	21.01	21.12	21.08	
3	64QAM	1	8	21.02	21.05	21.04	21
3	64QAM	1	14	20.81	20.96	20.93	
3	64QAM	8	0	20.01	20.05	19.93	
3	64QAM	8	4	19.91	19.95	19.89	21
3	64QAM	8	7	19.89	19.93	19.87	
3	64QAM	15	0	19.77	19.94	19.93	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	22.82	22.87	22.71	24
1.4	QPSK	1	3	22.63	22.79	22.65	
1.4	QPSK	1	5	22.48	22.55	22.59	
1.4	QPSK	3	0	22.60	22.64	22.58	
1.4	QPSK	3	1	22.48	22.62	22.55	
1.4	QPSK	3	3	22.49	22.54	22.45	
1.4	QPSK	6	0	21.76	21.70	21.65	23
1.4	16QAM	1	0	21.74	21.76	21.67	23
1.4	16QAM	1	3	21.70	21.78	21.75	
1.4	16QAM	1	5	21.61	21.63	21.64	
1.4	16QAM	3	0	21.47	21.53	21.52	
1.4	16QAM	3	1	21.55	21.51	21.45	
1.4	16QAM	3	3	21.51	21.58	21.51	
1.4	16QAM	6	0	20.72	20.78	20.74	22
1.4	64QAM	1	0	21.05	21.12	21.11	22
1.4	64QAM	1	3	20.92	20.98	21.06	
1.4	64QAM	1	5	20.89	20.91	20.99	
1.4	64QAM	3	0	20.78	20.88	20.78	
1.4	64QAM	3	1	20.80	20.81	20.73	
1.4	64QAM	3	3	20.63	20.69	20.77	
1.4	64QAM	6	0	19.89	20.00	19.90	21

Band 5 (Celluar Band) 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	
Frequency (MHz)				829	836.5	844	
10	QPSK	1	0	22.85	22.91	22.87	24
10	QPSK	1	25	22.81	22.88	22.84	
10	QPSK	1	49	22.78	22.84	22.82	
10	QPSK	25	0	21.93	21.99	21.95	23
10	QPSK	25	12	21.88	21.95	21.92	
10	QPSK	25	25	21.82	21.87	21.85	
10	QPSK	50	0	21.88	21.92	21.87	23
10	16QAM	1	0	21.89	21.96	21.93	
10	16QAM	1	25	21.85	21.92	21.87	
10	16QAM	1	49	21.86	21.90	21.84	22
10	16QAM	25	0	20.79	20.86	20.82	
10	16QAM	25	12	20.77	20.81	20.77	
10	16QAM	25	25	20.76	20.83	20.81	22
10	16QAM	50	0	20.86	20.88	20.83	
10	64QAM	1	0	21.03	21.05	21.01	
10	64QAM	1	25	20.98	21.01	21.03	22
10	64QAM	1	49	21.00	20.99	21.00	
10	64QAM	25	0	19.98	20.04	19.94	
10	64QAM	25	12	19.93	19.95	19.90	21
10	64QAM	25	25	19.90	19.96	19.92	
10	64QAM	50	0	19.87	19.91	19.87	
Channel				20425	20525	20625	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	QPSK	1	0	22.73	22.84	22.74	24
5	QPSK	1	12	22.68	22.74	22.70	
5	QPSK	1	24	22.66	22.73	22.69	
5	QPSK	12	0	21.88	21.88	21.86	23
5	QPSK	12	7	21.85	21.85	21.81	
5	QPSK	12	13	21.69	21.79	21.84	
5	QPSK	25	0	21.73	21.80	21.76	23
5	16QAM	1	0	21.87	21.87	21.81	
5	16QAM	1	12	21.74	21.86	21.84	
5	16QAM	1	24	21.85	21.86	21.80	22
5	16QAM	12	0	20.74	20.80	20.73	
5	16QAM	12	7	20.67	20.69	20.63	
5	16QAM	12	13	20.67	20.69	20.69	22
5	16QAM	25	0	20.81	20.82	20.81	
5	64QAM	1	0	21.05	20.99	21.08	
5	64QAM	1	12	21.03	21.02	20.99	22
5	64QAM	1	24	20.98	20.94	20.96	
5	64QAM	12	0	20.06	19.99	19.92	
5	64QAM	12	7	19.94	20.03	19.97	21
5	64QAM	12	13	19.84	20.00	19.98	
5	64QAM	25	0	19.86	19.89	19.83	
Channel				20415	20525	20635	Tune-up limit (dBm)
Frequency (MHz)				825.5	836.5	847.5	
3	QPSK	1	0	22.76	22.79	22.86	24
3	QPSK	1	8	22.80	22.79	22.69	
3	QPSK	1	14	22.68	22.75	22.69	
3	QPSK	8	0	21.88	21.94	21.89	23
3	QPSK	8	4	21.82	21.90	21.78	
3	QPSK	8	7	21.76	21.73	21.79	
3	QPSK	15	0	21.86	21.79	21.77	23
3	16QAM	1	0	21.76	21.88	21.84	
3	16QAM	1	8	21.84	21.90	21.76	
3	16QAM	1	14	21.76	21.77	21.82	22
3	16QAM	8	0	20.66	20.85	20.77	
3	16QAM	8	4	20.70	20.79	20.69	
3	16QAM	8	7	20.67	20.68	20.79	22
3	16QAM	15	0	20.82	20.80	20.77	
3	64QAM	1	0	21.10	21.07	21.08	
3	64QAM	1	8	20.93	21.03	21.09	22
3	64QAM	1	14	21.05	21.06	21.01	
3	64QAM	8	0	19.97	20.06	20.01	
3	64QAM	8	4	19.91	20.02	19.96	21
3	64QAM	8	7	19.89	20.01	19.88	
3	64QAM	15	0	19.94	19.92	19.90	
Channel				20407	20525	20643	Tune-up limit (dBm)
Frequency (MHz)				824.7	836.5	848.3	
1.4	QPSK	1	0	22.79	22.83	22.81	24
1.4	QPSK	1	3	22.80	22.78	22.77	
1.4	QPSK	1	5	22.68	22.72	22.79	
1.4	QPSK	3	0	22.65	22.78	22.61	23
1.4	QPSK	3	1	22.57	22.70	22.71	
1.4	QPSK	3	3	22.48	22.59	22.55	
1.4	QPSK	6	0	21.80	21.78	21.80	23
1.4	16QAM	1	0	21.88	21.91	21.85	
1.4	16QAM	1	3	21.81	21.78	21.75	
1.4	16QAM	1	5	21.84	21.82	21.83	23
1.4	16QAM	3	0	21.56	21.57	21.52	
1.4	16QAM	3	1	21.56	21.56	21.42	
1.4	16QAM	3	3	21.45	21.54	21.56	22
1.4	16QAM	6	0	20.85	20.77	20.81	
1.4	64QAM	1	0	21.14	21.04	21.00	
1.4	64QAM	1	3	21.08	21.06	21.13	22
1.4	64QAM	1	5	20.98	21.00	21.04	
1.4	64QAM	3	0	20.83	20.85	20.84	
1.4	64QAM	3	1	20.81	20.83	20.70	21
1.4	64QAM	3	3	20.69	20.82	20.70	
1.4	64QAM	6	0	19.85	19.88	19.86	

Band 7 (2600MHz Band) Part 27							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20850	21100	21350	
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	22.84	22.89	22.86	24
20	QPSK	1	49	22.82	22.86	22.83	
20	QPSK	1	99	22.74	22.80	22.78	
20	QPSK	50	0	21.80	21.85	21.82	23
20	QPSK	50	24	21.76	21.84	21.77	
20	QPSK	50	50	21.66	21.78	21.68	
20	QPSK	100	0	21.71	21.77	21.72	23
20	16QAM	1	0	21.86	21.98	21.89	
20	16QAM	1	49	21.84	21.95	21.91	
20	16QAM	1	99	21.81	21.91	21.84	22
20	16QAM	50	0	20.84	20.88	20.84	
20	16QAM	50	24	20.78	20.82	20.78	
20	16QAM	50	50	20.74	20.81	20.75	22
20	16QAM	100	0	20.85	20.89	20.87	
20	64QAM	1	0	21.11	21.15	21.10	
20	64QAM	1	49	21.05	21.06	21.03	22
20	64QAM	1	99	21.01	21.02	20.99	
20	64QAM	50	0	20.18	20.22	20.14	
20	64QAM	50	24	20.06	20.15	20.01	21
20	64QAM	50	50	20.08	20.10	20.04	
20	64QAM	100	0	20.10	20.15	19.99	
Channel				20825	21100	21375	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	22.71	22.78	22.73	24
15	QPSK	1	37	22.70	22.76	22.81	
15	QPSK	1	74	22.63	22.78	22.73	
15	QPSK	36	0	21.78	21.78	21.80	23
15	QPSK	36	20	21.67	21.69	21.73	
15	QPSK	36	39	21.52	21.76	21.63	
15	QPSK	75	0	21.64	21.73	21.70	23
15	16QAM	1	0	21.76	21.88	21.86	
15	16QAM	1	37	21.70	21.85	21.76	
15	16QAM	1	74	21.74	21.76	21.69	22
15	16QAM	36	0	20.70	20.77	20.69	
15	16QAM	36	20	20.68	20.81	20.76	
15	16QAM	36	39	20.60	20.68	20.61	22
15	16QAM	75	0	20.77	20.76	20.73	
15	64QAM	1	0	21.01	21.09	21.01	
15	64QAM	1	37	20.89	20.94	20.93	22
15	64QAM	1	74	20.89	20.95	20.85	
15	64QAM	36	0	20.08	20.19	20.11	
15	64QAM	36	20	19.92	20.06	19.88	21
15	64QAM	36	39	19.93	19.95	19.99	
15	64QAM	75	0	19.96	20.12	19.91	
Channel				20800	21100	21400	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	22.71	22.85	22.76	24
10	QPSK	1	25	22.76	22.76	22.78	
10	QPSK	1	49	22.69	22.75	22.70	
10	QPSK	25	0	21.76	21.74	21.75	23
10	QPSK	25	12	21.66	21.69	21.74	
10	QPSK	25	25	21.60	21.66	21.64	
10	QPSK	50	0	21.67	21.62	21.69	23
10	16QAM	1	0	21.85	21.96	21.85	
10	16QAM	1	25	21.80	21.91	21.76	
10	16QAM	1	49	21.71	21.81	21.70	22
10	16QAM	25	0	20.79	20.75	20.77	
10	16QAM	25	12	20.67	20.67	20.67	
10	16QAM	25	25	20.69	20.78	20.70	22
10	16QAM	50	0	20.77	20.85	20.78	
10	64QAM	1	0	21.06	21.14	20.96	
10	64QAM	1	25	20.97	21.03	20.95	22
10	64QAM	1	49	20.94	20.93	20.98	
10	64QAM	25	0	20.16	20.09	20.03	
10	64QAM	25	12	19.96	20.06	19.95	21
10	64QAM	25	25	20.00	20.00	19.93	
10	64QAM	50	0	20.01	20.13	19.98	
Channel				20775	21100	21425	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	22.77	22.85	22.77	24
5	QPSK	1	12	22.79	22.75	22.68	
5	QPSK	1	24	22.61	22.74	22.75	
5	QPSK	12	0	21.65	21.75	21.70	23
5	QPSK	12	7	21.61	21.72	21.62	
5	QPSK	12	13	21.56	21.75	21.67	
5	QPSK	25	0	21.57	21.62	21.66	23
5	16QAM	1	0	21.76	21.91	21.82	
5	16QAM	1	12	21.76	21.88	21.85	
5	16QAM	1	24	21.76	21.80	21.71	22
5	16QAM	12	0	20.73	20.80	20.77	
5	16QAM	12	7	20.76	20.79	20.65	
5	16QAM	12	13	20.71	20.69	20.67	22
5	16QAM	25	0	20.84	20.85	20.79	
5	64QAM	1	0	21.02	21.08	21.01	
5	64QAM	1	12	21.05	20.97	20.94	22
5	64QAM	1	24	20.91	20.90	20.96	
5	64QAM	12	0	20.11	20.15	20.03	
5	64QAM	12	7	20.03	20.04	19.92	21
5	64QAM	12	13	19.97	20.06	19.96	
5	64QAM	25	0	20.01	20.13	19.94	

Band 13(700MHz Band) Part 27F							
BW (MHz)	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				23230			24
Frequency (MHz)				782			
10	QPSK	1	0		22.92		24
10	QPSK	1	25		22.86		
10	QPSK	1	49		22.81		
10	QPSK	25	0		21.88		23
10	QPSK	25	12		21.83		
10	QPSK	25	25		21.80		
10	QPSK	50	0		21.77		23
10	16QAM	1	0		21.94		
10	16QAM	1	25		21.90		
10	16QAM	1	49		21.86		22
10	16QAM	25	0		20.78		
10	16QAM	25	12		20.75		
10	16QAM	25	25		20.72		22
10	16QAM	50	0		20.70		
10	64QAM	1	0		21.00		
10	64QAM	1	25		20.94		22
10	64QAM	1	49		20.96		
10	64QAM	25	0		19.99		
10	64QAM	25	12		19.95		21
10	64QAM	25	25		19.93		
10	64QAM	50	0		19.90		
Channel				23205	23230	23255	24
Frequency (MHz)				779.5	782	784.5	
5	QPSK	1	0	22.84	22.91	22.79	24
5	QPSK	1	12	22.77	22.71	22.75	
5	QPSK	1	24	22.76	22.74	22.72	
5	QPSK	12	0	21.78	21.76	21.76	23
5	QPSK	12	7	21.79	21.81	21.78	
5	QPSK	12	13	21.76	21.75	21.78	
5	QPSK	25	0	21.63	21.63	21.65	23
5	16QAM	1	0	21.79	21.93	21.86	
5	16QAM	1	12	21.88	21.81	21.82	
5	16QAM	1	24	21.79	21.75	21.85	22
5	16QAM	12	0	20.75	20.64	20.68	
5	16QAM	12	7	20.63	20.61	20.73	
5	16QAM	12	13	20.70	20.68	20.63	22
5	16QAM	25	0	20.56	20.61	20.59	
5	64QAM	1	0	20.94	20.90	20.97	
5	64QAM	1	12	20.94	20.88	20.91	22
5	64QAM	1	24	20.94	20.94	20.88	
5	64QAM	12	0	19.87	19.95	19.99	
5	64QAM	12	7	19.90	19.93	19.97	21
5	64QAM	12	13	19.84	19.82	19.82	
5	64QAM	25	0	19.92	19.79	19.86	

Band 26 for FCC (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)				821.5	831.5	841.5	
15	QPSK	1	0	22.93	22.97	22.95	24
15	QPSK	1	37	22.90	22.93	22.90	
15	QPSK	1	74	22.87	22.93	22.88	
15	QPSK	36	0	21.97	22.02	22.00	23
15	QPSK	36	20	21.95	21.97	21.94	
15	QPSK	36	39	21.88	21.94	21.91	
15	QPSK	75	0	21.85	21.96	21.89	23
15	16QAM	1	0	21.96	21.98	21.95	
15	16QAM	1	37	21.90	21.92	21.91	
15	16QAM	1	74	21.87	21.95	21.90	22
15	16QAM	36	0	20.94	20.95	20.85	
15	16QAM	36	20	20.92	20.93	20.86	
15	16QAM	36	39	20.88	20.90	20.88	22
15	16QAM	75	0	20.87	20.88	20.85	
15	64QAM	1	0	21.15	21.16	21.11	
15	64QAM	1	37	21.10	21.13	21.09	22
15	64QAM	1	74	21.01	21.07	21.06	
15	64QAM	36	0	20.14	20.15	20.12	
15	64QAM	36	20	20.09	20.13	20.10	21
15	64QAM	36	39	20.08	20.11	20.06	
15	64QAM	75	0	20.05	20.10	20.04	
Channel				26740	26865	26990	24
Frequency (MHz)				819	831.5	844	
10	QPSK	1	0	22.85	22.89	22.87	24
10	QPSK	1	25	22.79	22.85	22.84	
10	QPSK	1	49	22.76	22.82	22.77	
10	QPSK	25	0	21.86	21.91	21.89	23
10	QPSK	25	12	21.84	21.86	21.83	
10	QPSK	25	25	21.77	21.83	21.80	
10	QPSK	50	0	21.74	21.85	21.78	23
10	16QAM	1	0	21.85	21.87	21.84	
10	16QAM	1	25	21.79	21.81	21.80	
10	16QAM	1	49	21.76	21.84	21.79	22
10	16QAM	25	0	20.83	20.84	20.74	
10	16QAM	25	12	20.81	20.82	20.75	
10	16QAM	25	25	20.77	20.79	20.77	22
10	16QAM	50	0	20.76	20.77	20.74	
10	64QAM	1	0	21.06	21.07	21.02	
10	64QAM	1	25	21.01	21.04	21.00	22
10	64QAM	1	49	20.92	20.98	20.97	
10	64QAM	25	0	20.05	20.06	20.03	
10	64QAM	25	12	20.00	20.04	20.01	21
10	64QAM	25	25	19.99	20.02	19.97	
10	64QAM	50	0	19.96	20.01	19.95	
Channel				26715	26865	27015	24
Frequency (MHz)				816.5	831.5	846.5	
5	QPSK	1	0	22.77	22.81	22.79	24
5	QPSK	1	12	22.71	22.77	22.76	
5	QPSK	1	24	22.68	22.74	22.69	
5	QPSK	12	0	21.78	21.83	21.81	23
5	QPSK	12	7	21.76	21.78	21.75	
5	QPSK	12	13	21.69	21.75	21.72	
5	QPSK	25	0	21.66	21.77	21.70	23
5	16QAM	1	0	21.77	21.79	21.76	
5	16QAM	1	12	21.71	21.73	21.72	
5	16QAM	1	24	21.68	21.76	21.71	22
5	16QAM	12	0	20.75	20.76	20.66	
5	16QAM	12	7	20.73	20.74	20.67	
5	16QAM	12	13	20.69	20.71	20.69	22
5	16QAM	25	0	20.68	20.69	20.66	
5	64QAM	1	0	20.99	21.00	20.95	
5	64QAM	1	12	20.94	20.97	20.93	21
5	64QAM	1	24	20.85	20.91	20.90	
5	64QAM	12	0	19.98	19.99	19.96	
5	64QAM	12	7	19.93	19.97	19.94	21
5	64QAM	12	13	19.92	19.95	19.90	
5	64QAM	25	0	19.89	19.94	19.88	
Channel				26705	26865	27025	24
Frequency (MHz)				815.5	831.5	847.5	
3	QPSK	1	0	22.74	22.78	22.76	24
3	QPSK	1	8	22.68	22.74	22.73	
3	QPSK	1	14	22.65	22.71	22.66	
3	QPSK	8	0	21.75	21.80	21.78	23
3	QPSK	8	4	21.73	21.75	21.72	
3	QPSK	8	7	21.66	21.72	21.69	
3	QPSK	15	0	21.63	21.74	21.67	23
3	16QAM	1	0	21.74	21.76	21.73	
3	16QAM	1	8	21.68	21.70	21.69	
3	16QAM	1	14	21.65	21.73	21.68	22
3	16QAM	8	0	20.72	20.73	20.63	
3	16QAM	8	4	20.70	20.71	20.64	
3	16QAM	8	7	20.66	20.68	20.66	22
3	16QAM	15	0	20.65	20.66	20.63	
3	64QAM	1	0	20.99	21.00	20.95	
3	64QAM	1	8	20.94	20.97	20.93	21
3	64QAM	1	14	20.85	20.91	20.90	
3	64QAM	8	0	19.98	19.99	19.96	
3	64QAM	8	4	19.93	19.97	19.94	21
3	64QAM	8	7	19.92	19.95	19.90	
3	64QAM	15	0	19.89	19.94	19.88	
Channel				26697	26865	27033	24
Frequency (MHz)				814.7	831.5	848.3	
1.4	QPSK	1	0	22.72	22.76	22.74	24
1.4	QPSK	1	3	22.66	22.72	22.71	
1.4	QPSK	1	5	22.63	22.69	22.64	
1.4	QPSK	3	0	21.73	21.78	21.76	
1.4	QPSK	3	1	21.71	21.73	21.70	
1.4	QPSK	3	3	21.64	21.70	21.67	

1.4	QPSK	6	0	21.61	21.72	21.65	23
1.4	16QAM	1	0	21.72	21.74	21.71	23
1.4	16QAM	1	3	21.66	21.68	21.67	
1.4	16QAM	1	5	21.63	21.71	21.66	
1.4	16QAM	3	0	20.70	20.71	20.61	
1.4	16QAM	3	1	20.68	20.69	20.62	
1.4	16QAM	3	3	20.64	20.66	20.64	
1.4	16QAM	6	0	20.63	20.64	20.61	22
1.4	64QAM	1	0	20.96	20.97	20.92	22
1.4	64QAM	1	3	20.91	20.94	20.90	
1.4	64QAM	1	5	20.82	20.88	20.87	
1.4	64QAM	3	0	19.95	19.96	19.93	
1.4	64QAM	3	1	19.90	19.94	19.91	
1.4	64QAM	3	3	19.89	19.92	19.87	
1.4	64QAM	6	0	19.86	19.91	19.85	21

Band 66							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				132072	132322	132572	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	22.91	22.96	22.93	24
20	QPSK	1	49	22.88	22.93	22.90	
20	QPSK	1	99	22.85	22.90	22.88	
20	QPSK	50	0	21.92	21.98	21.94	23
20	QPSK	50	24	21.86	21.94	21.90	
20	QPSK	50	50	21.83	21.89	21.85	
20	QPSK	100	0	21.92	21.94	21.90	23
20	16QAM	1	0	21.89	21.92	21.86	
20	16QAM	1	49	21.85	21.88	21.87	
20	16QAM	1	99	21.77	21.86	21.82	22
20	16QAM	50	0	20.99	21.06	21.04	
20	16QAM	50	24	20.95	21.02	20.97	
20	16QAM	50	50	20.84	20.99	20.88	22
20	16QAM	100	0	20.80	20.89	20.81	
20	64QAM	1	0	21.06	21.12	21.10	
20	64QAM	1	49	21.02	21.07	21.06	22
20	64QAM	1	99	21.05	21.09	21.03	
20	64QAM	50	0	20.11	20.18	20.16	21
20	64QAM	50	24	20.08	20.12	20.11	
20	64QAM	50	50	20.03	20.05	19.98	
20	64QAM	100	0	20.02	20.12	20.09	
Channel				132047	132322	132597	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	22.89	22.84	22.85	24
15	QPSK	1	37	22.76	22.82	22.82	
15	QPSK	1	74	22.77	22.79	22.77	
15	QPSK	36	0	21.78	21.84	21.86	23
15	QPSK	36	20	21.83	21.90	21.87	
15	QPSK	36	39	21.77	21.83	21.80	
15	QPSK	75	0	21.91	21.91	21.78	23
15	16QAM	1	0	21.79	21.80	21.84	
15	16QAM	1	37	21.80	21.83	21.74	
15	16QAM	1	74	21.66	21.86	21.71	22
15	16QAM	36	0	20.98	21.03	20.94	
15	16QAM	36	20	20.94	20.93	20.95	
15	16QAM	36	39	20.79	20.87	20.82	22
15	16QAM	75	0	20.80	20.77	20.71	
15	64QAM	1	0	21.06	21.12	21.10	
15	64QAM	1	37	20.92	21.01	20.96	22
15	64QAM	1	74	21.01	21.04	20.92	
15	64QAM	36	0	20.08	20.08	20.14	21
15	64QAM	36	20	20.10	20.13	20.10	
15	64QAM	36	39	20.05	20.06	19.94	
15	64QAM	75	0	20.03	20.13	20.10	
Channel				132022	132322	132622	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	22.90	22.82	22.85	24
10	QPSK	1	25	22.80	22.86	22.77	
10	QPSK	1	49	22.85	22.81	22.75	
10	QPSK	25	0	21.87	21.91	21.89	23
10	QPSK	25	12	21.84	21.83	21.76	
10	QPSK	25	25	21.76	21.78	21.74	
10	QPSK	50	0	21.88	21.89	21.84	23
10	16QAM	1	0	21.84	21.78	21.73	
10	16QAM	1	25	21.78	21.86	21.82	
10	16QAM	1	49	21.69	21.78	21.80	22
10	16QAM	25	0	20.98	20.99	20.98	
10	16QAM	25	12	20.88	20.88	20.86	
10	16QAM	25	25	20.82	20.99	20.88	22
10	16QAM	50	0	20.75	20.83	20.78	
10	64QAM	1	0	21.04	21.03	21.09	
10	64QAM	1	25	20.88	20.98	20.92	22
10	64QAM	1	49	21.05	20.96	20.91	
10	64QAM	25	0	19.99	20.15	20.06	21
10	64QAM	25	12	20.00	20.00	19.99	
10	64QAM	25	25	19.99	20.01	19.85	
10	64QAM	50	0	19.96	20.06	20.06	
Channel				131997	132322	132647	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	22.83	22.85	22.91	24
5	QPSK	1	12	22.82	22.82	22.77	
5	QPSK	1	24	22.77	22.88	22.79	
5	QPSK	12	0	21.85	21.86	21.87	23
5	QPSK	12	7	21.75	21.90	21.82	
5	QPSK	12	13	21.81	21.84	21.81	
5	QPSK	25	0	21.84	21.90	21.85	23
5	16QAM	1	0	21.78	21.88	21.76	
5	16QAM	1	12	21.73	21.87	21.83	
5	16QAM	1	24	21.76	21.74	21.71	22
5	16QAM	12	0	20.86	21.06	20.96	
5	16QAM	12	7	20.92	21.01	20.86	
5	16QAM	12	13	20.80	20.93	20.81	22
5	16QAM	25	0	20.72	20.84	20.76	
5	64QAM	1	0	20.93	21.05	21.00	
5	64QAM	1	12	20.99	21.01	21.01	22
5	64QAM	1	24	20.99	21.08	20.92	
5	64QAM	12	0	20.06	20.10	20.16	21
5	64QAM	12	7	19.97	20.10	20.12	
5	64QAM	12	13	19.92	20.06	19.88	
5	64QAM	25	0	20.00	20.07	20.05	
Channel				131987	132322	132657	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	22.79	22.83	22.68	24
3	QPSK	1	8	22.75	22.80	22.77	
3	QPSK	1	14	22.66	22.67	22.71	
3	QPSK	8	0	21.66	21.75	21.69	23
3	QPSK	8	4	21.74	21.74	21.69	
3	QPSK	8	7	21.62	21.63	21.66	

3	QPSK	15	0	21.73	21.81	21.78	23
3	16QAM	1	0	21.72	21.73	21.68	
3	16QAM	1	8	21.69	21.74	21.67	
3	16QAM	1	14	21.60	21.64	21.58	22
3	16QAM	8	0	20.74	20.82	20.84	
3	16QAM	8	4	20.76	20.89	20.75	
3	16QAM	8	7	20.69	20.85	20.66	22
3	16QAM	15	0	20.64	20.74	20.65	
3	64QAM	1	0	20.97	21.01	21.01	
3	64QAM	1	8	20.79	20.98	20.90	21
3	64QAM	1	14	20.83	20.89	20.82	
3	64QAM	8	0	19.98	19.95	20.02	
3	64QAM	8	4	19.86	20.01	20.00	21
3	64QAM	8	7	19.86	19.91	19.85	
3	64QAM	15	0	19.83	19.98	19.95	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	22.73	22.83	22.75	24
1.4	QPSK	1	3	22.71	22.73	22.75	
1.4	QPSK	1	5	22.60	22.77	22.68	
1.4	QPSK	3	0	22.52	22.62	22.51	
1.4	QPSK	3	1	22.47	22.58	22.59	
1.4	QPSK	3	3	22.53	22.57	22.54	
1.4	QPSK	6	0	21.70	21.74	21.73	23
1.4	16QAM	1	0	21.70	21.80	21.73	23
1.4	16QAM	1	3	21.63	21.66	21.61	
1.4	16QAM	1	5	21.54	21.65	21.67	
1.4	16QAM	3	0	21.66	21.68	21.62	
1.4	16QAM	3	1	21.65	21.69	21.64	
1.4	16QAM	3	3	21.55	21.62	21.51	
1.4	16QAM	6	0	21.47	21.46	21.41	22
1.4	64QAM	1	0	20.87	21.00	20.94	22
1.4	64QAM	1	3	20.94	20.92	20.93	
1.4	64QAM	1	5	20.91	20.92	20.85	
1.4	64QAM	3	0	20.86	20.90	20.85	
1.4	64QAM	3	1	20.82	20.85	20.78	
1.4	64QAM	3	3	20.75	20.74	20.67	
1.4	64QAM	6	0	19.81	19.96	19.99	21

Band 38(only on channel required)							
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	22.31	22.37	22.35	23.5
20	QPSK	1	49	22.29	22.33	22.30	
20	QPSK	1	99	22.17	22.28	22.19	
20	QPSK	50	0	21.25	21.28	21.23	22.5
20	QPSK	50	24	21.22	21.25	21.21	
20	QPSK	50	50	21.18	21.22	21.15	
20	QPSK	100	0	21.12	21.20	21.12	22.5
20	16QAM	1	0	21.34	21.40	21.37	
20	16QAM	1	49	21.33	21.36	21.35	
20	16QAM	1	99	21.28	21.31	21.26	21.5
20	16QAM	50	0	20.34	20.36	20.30	
20	16QAM	50	24	20.30	20.33	20.26	
20	16QAM	50	50	20.25	20.28	20.22	21.5
20	16QAM	100	0	20.17	20.24	20.16	
20	64QAM	1	0	20.56	20.57	20.53	
20	64QAM	1	49	20.53	20.54	20.51	21.5
20	64QAM	1	99	20.45	20.48	20.47	
20	64QAM	50	0	19.46	19.47	19.42	
20	64QAM	50	24	19.39	19.44	19.40	20.5
20	64QAM	50	50	19.35	19.40	19.36	
20	64QAM	100	0	19.51	19.53	19.50	
Channel				37825	38000	38175	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	22.23	22.30	22.26	
15	QPSK	1	37	22.28	22.23	22.19	23.5
15	QPSK	1	74	22.04	22.26	22.05	
15	QPSK	36	0	21.18	21.18	21.09	
15	QPSK	36	20	21.21	21.23	21.12	22.5
15	QPSK	36	39	21.12	21.14	21.05	
15	QPSK	75	0	21.01	21.14	21.01	
15	16QAM	1	0	21.25	21.36	21.26	22.5
15	16QAM	1	37	21.20	21.22	21.26	
15	16QAM	1	74	21.21	21.24	21.21	
15	16QAM	36	0	20.28	20.35	20.26	21.5
15	16QAM	36	20	20.20	20.19	20.13	
15	16QAM	36	39	20.12	20.15	20.18	
15	16QAM	75	0	20.03	20.23	20.12	21.5
15	64QAM	1	0	20.48	20.45	20.49	
15	64QAM	1	37	20.41	20.42	20.42	
15	64QAM	1	74	20.34	20.34	20.37	20.5
15	64QAM	36	0	19.38	19.34	19.38	
15	64QAM	36	20	19.32	19.32	19.28	
15	64QAM	36	39	19.26	19.27	19.35	20.5
15	64QAM	75	0	19.36	19.39	19.40	
Channel				37800	38000	38200	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	22.26	22.34	22.23	
10	QPSK	1	25	22.14	22.30	22.26	23.5
10	QPSK	1	49	22.05	22.17	22.07	
10	QPSK	25	0	21.23	21.25	21.10	
10	QPSK	25	12	21.20	21.23	21.16	22.5
10	QPSK	25	25	21.15	21.08	21.08	
10	QPSK	50	0	21.10	21.19	21.05	
10	16QAM	1	0	21.25	21.35	21.25	22.5
10	16QAM	1	25	21.26	21.35	21.27	
10	16QAM	1	49	21.22	21.27	21.17	
10	16QAM	25	0	20.21	20.22	20.28	21.5
10	16QAM	25	12	20.28	20.21	20.22	
10	16QAM	25	25	20.22	20.17	20.07	
10	16QAM	50	0	20.04	20.12	20.13	21.5
10	64QAM	1	0	20.41	20.50	20.40	
10	64QAM	1	25	20.44	20.48	20.40	
10	64QAM	1	49	20.37	20.34	20.32	20.5
10	64QAM	25	0	19.44	19.39	19.39	
10	64QAM	25	12	19.24	19.42	19.30	
10	64QAM	25	25	19.32	19.26	19.24	20.5
10	64QAM	50	0	19.46	19.40	19.48	
Channel				37775	38000	38225	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	22.28	22.22	22.21	
5	QPSK	1	12	22.19	22.28	22.18	23.5
5	QPSK	1	24	22.10	22.24	22.15	
5	QPSK	12	0	21.15	21.25	21.10	
5	QPSK	12	7	21.18	21.16	21.19	22.5
5	QPSK	12	13	21.05	21.20	21.07	
5	QPSK	25	0	20.97	21.15	21.07	
5	16QAM	1	0	21.29	21.26	21.27	22.5
5	16QAM	1	12	21.25	21.25	21.23	
5	16QAM	1	24	21.15	21.21	21.14	
5	16QAM	12	0	20.31	20.28	20.27	21.5
5	16QAM	12	7	20.23	20.27	20.15	
5	16QAM	12	13	20.23	20.14	20.13	
5	16QAM	25	0	20.03	20.18	20.02	21.5
5	64QAM	1	0	20.53	20.52	20.53	
5	64QAM	1	12	20.53	20.42	20.37	
5	64QAM	1	24	20.35	20.37	20.36	20.5
5	64QAM	12	0	19.35	19.47	19.39	
5	64QAM	12	7	19.28	19.41	19.37	
5	64QAM	12	13	19.34	19.39	19.30	20.5
5	64QAM	25	0	19.43	19.45	19.46	

Full Power for Aux ANT 1& Aux ANT 2

GSM850		Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)	Ch Delta > 0.5
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		33.50	33.53	33.45	34.00	24.50	24.53	24.45	25.00	0.10
GPRS 1 Tx slot		33.52	33.55	33.46	34.00	24.52	24.55	24.46	25.00	
GPRS 2 Tx slots		30.71	30.74	30.68	32.00	24.71	24.74	24.68	26.00	0.06
GPRS 3 Tx slots		28.85	28.70	28.52	30.00	24.59	24.44	24.26	25.74	0.33
GPRS 4 Tx slots		27.87	27.68	27.74	28.00	24.87	24.68	24.74	25.00	0.19
EDGE 1 Tx slot		26.97	27.02	26.90	28.00	17.97	18.02	17.90	19.00	0.12
EDGE 2 Tx slots		23.80	23.84	23.76	25.00	17.80	17.84	17.76	19.00	0.08
EDGE 3 Tx slots		21.78	21.82	21.78	23.00	17.52	17.56	17.52	18.74	0.04
EDGE 4 Tx slots		20.76	20.85	20.73	21.00	17.76	17.85	17.73	18.00	0.12
Mode			Max.	33.55			Max.	24.87		
Attenuator		Cable Loss : 0.6								

GSM1900		Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)	Ch Delta > 0.5
TX Channel		512	661	810		512	661	810		
Frequency (MHz)		1850.2	1880	1909.8		1850.2	1880	1909.8		
GSM 1 Tx slot		30.32	30.38	30.00	31.00	21.32	21.38	21.00	22.00	0.40
GPRS 1 Tx slot		30.36	30.40	30.03	31.00	21.36	21.40	21.03	22.00	
GPRS 2 Tx slots		28.02	28.07	27.98	29.00	22.02	22.07	21.98	23.00	0.09
GPRS 3 Tx slots		26.22	26.26	26.18	27.00	21.96	22.00	21.92	22.74	0.08
GPRS 4 Tx slots		24.33	24.38	24.29	25.00	21.33	21.38	21.29	22.00	0.09
EDGE 1 Tx slot		25.93	26.15	26.11	27.00	16.93	17.15	17.11	18.00	0.22
EDGE 2 Tx slots		23.32	23.47	23.42	24.00	17.32	17.47	17.42	18.00	0.15
EDGE 3 Tx slots		21.87	21.91	21.86	22.00	17.61	17.65	17.60	17.74	0.05
EDGE 4 Tx slots		20.78	20.85	20.83	21.00	17.78	17.85	17.83	18.00	0.07
Mode			Max.	30.40			Max.	22.07		
Attenuator		Cable Loss : 0.8								

Band	WCDMA Band II			Tune-up Limit (dBm)	WCDMA Band IV			Tune-up Limit (dBm)	WCDMA Band V			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	23.21	23.28	23.17	24.00	22.92	23.04	23.01	24.00	23.07	23.17	23.13	24.00
3GPP Rel 6 HSDPA Subtest-1	22.84	22.79	22.73	23.50	22.59	22.74	22.68	23.50	22.61	22.30	22.70	23.50
3GPP Rel 6 HSDPA Subtest-2	22.85	22.77	22.75	23.50	22.57	22.67	22.65	23.50	22.59	22.56	22.65	23.50
3GPP Rel 6 HSDPA Subtest-3	22.34	22.34	22.24	23.00	22.09	22.18	22.22	23.00	22.15	22.06	22.18	23.00
3GPP Rel 6 HSDPA Subtest-4	22.31	22.26	22.18	23.00	22.06	22.17	22.14	23.00	22.04	22.06	22.16	23.00
3GPP Rel 6 HSUPA Subtest-1	22.30	22.26	22.24	23.00	22.05	22.17	22.12	23.00	22.07	22.07	22.19	23.00
3GPP Rel 6 HSUPA Subtest-2	22.83	22.80	22.74	23.50	22.55	22.72	22.65	23.50	22.66	22.55	22.69	23.50
3GPP Rel 6 HSUPA Subtest-3	21.84	21.79	21.74	22.50	21.60	21.69	21.63	22.50	21.61	21.58	21.67	23.50
3GPP Rel 6 HSUPA Subtest-4	22.83	22.81	22.69	23.50	22.54	22.69	22.65	23.50	22.58	22.59	22.76	23.50
3GPP Rel 6 HSUPA Subtest-5	21.85	21.75	21.68	22.50	21.54	21.66	21.65	22.50	21.52	21.56	21.71	22.50
3GPP Rel 7 HSRA+ (16QAM) Subtest-1	21.82	21.78	21.69	22.50	21.54	21.70	21.68	22.50	21.53	21.58	21.63	22.50
Attenuator		Cable Loss	0.8			Cable Loss	0.8			Cable Loss	0.6	
Mode		Max.	23.28			Max.	23.04			Max.	23.17	

Band 2 (1900MHz Band) Part 24E							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				18700	18900	19100	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	22.88	22.93	22.86	24
20	QPSK	1	49	22.86	22.90	22.82	
20	QPSK	1	99	22.74	22.55	22.57	
20	QPSK	50	0	21.98	22.08	22.02	23
20	QPSK	50	24	21.96	22.04	22.00	
20	QPSK	50	50	21.95	22.01	21.95	
20	QPSK	100	0	22.02	22.06	21.98	23
20	16QAM	1	0	22.25	22.31	22.21	
20	16QAM	1	49	22.22	22.28	22.17	
20	16QAM	1	99	22.15	22.19	22.16	22
20	16QAM	50	0	21.05	21.08	21.03	
20	16QAM	50	24	21.03	21.04	21.01	
20	16QAM	50	50	20.96	20.97	20.88	22
20	16QAM	100	0	20.97	21.00	20.96	
20	64QAM	1	0	21.36	21.42	21.27	
20	64QAM	1	49	21.34	21.35	21.29	22
20	64QAM	1	99	21.14	21.18	21.13	
20	64QAM	50	0	20.22	20.27	20.24	
20	64QAM	50	24	20.20	20.23	20.20	21
20	64QAM	50	50	20.16	20.21	20.19	
20	64QAM	100	0	20.13	20.20	20.17	
Channel				18675	18900	19125	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	22.83	22.91	22.79	24
15	QPSK	1	37	22.75	22.77	22.70	
15	QPSK	1	74	22.63	22.54	22.43	
15	QPSK	36	0	21.89	22.01	21.93	23
15	QPSK	36	20	21.91	21.91	21.99	
15	QPSK	36	39	21.90	21.92	21.91	
15	QPSK	75	0	21.94	22.03	21.87	23
15	16QAM	1	0	22.19	22.16	22.13	
15	16QAM	1	37	22.08	22.21	22.03	
15	16QAM	1	74	22.02	22.07	22.07	22
15	16QAM	36	0	21.00	20.97	20.96	
15	16QAM	36	20	20.99	20.91	20.98	
15	16QAM	36	39	20.92	20.92	20.77	22
15	16QAM	75	0	20.90	20.94	20.84	
15	64QAM	1	0	21.47	21.45	21.36	
15	64QAM	1	37	21.37	21.34	21.40	22
15	64QAM	1	74	21.21	21.21	21.15	
15	64QAM	36	0	20.22	20.38	20.26	
15	64QAM	36	20	20.25	20.23	20.18	21
15	64QAM	36	39	20.17	20.20	20.20	
15	64QAM	75	0	20.12	20.26	20.24	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	22.80	22.79	22.75	24
10	QPSK	1	25	22.81	22.84	22.72	
10	QPSK	1	49	22.60	22.51	22.43	
10	QPSK	25	0	21.94	22.05	21.95	23
10	QPSK	25	12	21.93	21.90	21.86	
10	QPSK	25	25	21.88	21.88	21.81	
10	QPSK	50	0	21.92	22.03	21.89	23
10	16QAM	1	0	22.16	22.30	22.13	
10	16QAM	1	25	22.14	22.26	22.02	
10	16QAM	1	49	22.04	22.11	22.10	22
10	16QAM	25	0	20.93	20.94	20.88	
10	16QAM	25	12	20.95	20.97	20.98	
10	16QAM	25	25	20.86	20.85	20.86	22
10	16QAM	50	0	20.95	20.85	20.91	
10	64QAM	1	0	21.35	21.39	21.25	
10	64QAM	1	25	21.38	21.34	21.30	22
10	64QAM	1	49	21.18	21.15	21.12	
10	64QAM	25	0	20.31	20.25	20.33	
10	64QAM	25	12	20.17	20.28	20.27	21
10	64QAM	25	25	20.11	20.25	20.16	
10	64QAM	50	0	20.15	20.17	20.19	
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	22.78	22.81	22.85	24
5	QPSK	1	12	22.79	22.83	22.78	
5	QPSK	1	24	22.69	22.46	22.53	
5	QPSK	12	0	21.87	22.00	21.98	23
5	QPSK	12	7	21.83	22.02	21.88	
5	QPSK	12	13	21.83	22.00	21.80	
5	QPSK	25	0	21.97	21.97	21.92	23
5	16QAM	1	0	22.14	22.16	22.09	
5	16QAM	1	12	22.20	22.21	22.16	
5	16QAM	1	24	22.14	22.08	22.04	22
5	16QAM	12	0	20.95	21.04	20.93	
5	16QAM	12	7	20.96	21.01	20.86	
5	16QAM	12	13	20.95	20.93	20.73	22
5	16QAM	25	0	20.82	20.89	20.89	
5	64QAM	1	0	21.15	21.21	21.06	
5	64QAM	1	12	21.22	21.21	21.11	22
5	64QAM	1	24	20.98	21.08	20.95	
5	64QAM	12	0	20.12	20.12	20.03	
5	64QAM	12	7	20.10	19.99	20.09	21
5	64QAM	12	13	19.92	20.00	20.08	
5	64QAM	25	0	19.93	20.02	20.01	
Channel				18615	18900	19185	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	22.84	22.84	22.72	24
3	QPSK	1	8	22.76	22.85	22.75	
3	QPSK	1	14	22.63	22.50	22.48	
3	QPSK	8	0	21.86	21.94	21.89	23
3	QPSK	8	4	21.95	21.90	21.91	
3	QPSK	8	7	21.94	21.89	21.85	

Band 4 (AWS Band) 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	22.86	22.88	22.82	24
20	QPSK	1	49	22.73	22.83	22.77	
20	QPSK	1	99	22.59	22.68	22.64	
20	QPSK	50	0	21.81	21.85	21.82	23
20	QPSK	50	24	21.80	21.83	21.77	
20	QPSK	50	50	21.75	21.78	21.76	
20	QPSK	100	0	21.80	21.82	21.78	23
20	16QAM	1	0	21.85	21.88	21.81	
20	16QAM	1	49	21.81	21.85	21.79	
20	16QAM	1	99	21.72	21.77	21.75	22
20	16QAM	50	0	20.79	20.87	20.84	
20	16QAM	50	24	20.76	20.84	20.80	
20	16QAM	50	50	20.74	20.80	20.77	22
20	16QAM	100	0	20.81	20.88	20.87	
20	64QAM	1	0	21.14	21.20	21.16	
20	64QAM	1	49	21.06	21.12	21.10	22
20	64QAM	1	99	20.97	21.04	21.02	
20	64QAM	50	0	20.07	20.12	20.09	
20	64QAM	50	24	20.01	20.07	20.05	21
20	64QAM	50	50	19.97	20.04	20.03	
20	64QAM	100	0	19.94	20.02	19.99	
Channel				20025	20175	20325	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	22.84	22.79	22.79	24
15	QPSK	1	37	22.72	22.71	22.67	
15	QPSK	1	74	22.48	22.54	22.61	
15	QPSK	36	0	21.68	21.72	21.74	23
15	QPSK	36	20	21.79	21.80	21.62	
15	QPSK	36	39	21.66	21.74	21.70	
15	QPSK	75	0	21.78	21.81	21.70	23
15	16QAM	1	0	21.77	21.74	21.71	
15	16QAM	1	37	21.80	21.78	21.74	
15	16QAM	1	74	21.62	21.76	21.73	22
15	16QAM	36	0	20.65	20.75	20.79	
15	16QAM	36	20	20.64	20.79	20.69	
15	16QAM	36	39	20.61	20.69	20.67	22
15	16QAM	75	0	20.72	20.84	20.73	
15	64QAM	1	0	21.05	21.19	21.12	
15	64QAM	1	37	21.06	21.06	21.03	22
15	64QAM	1	74	20.88	21.02	20.91	
15	64QAM	36	0	20.06	20.08	20.05	
15	64QAM	36	20	19.91	20.00	20.03	21
15	64QAM	36	39	19.85	19.91	19.93	
15	64QAM	75	0	19.90	20.02	19.88	
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	22.85	22.75	22.70	24
10	QPSK	1	25	22.64	22.78	22.73	
10	QPSK	1	49	22.50	22.53	22.55	
10	QPSK	25	0	21.68	21.82	21.69	23
10	QPSK	25	12	21.75	21.68	21.62	
10	QPSK	25	25	21.69	21.74	21.72	
10	QPSK	50	0	21.77	21.73	21.76	23
10	16QAM	1	0	21.71	21.73	21.66	
10	16QAM	1	25	21.75	21.83	21.76	
10	16QAM	1	49	21.68	21.68	21.64	22
10	16QAM	25	0	20.70	20.83	20.79	
10	16QAM	25	12	20.68	20.78	20.68	
10	16QAM	25	25	20.61	20.78	20.69	22
10	16QAM	50	0	20.72	20.85	20.76	
10	64QAM	1	0	21.16	21.21	21.13	
10	64QAM	1	25	21.05	21.05	21.01	22
10	64QAM	1	49	20.87	21.06	20.98	
10	64QAM	25	0	20.09	20.06	20.01	
10	64QAM	25	12	19.97	19.97	19.98	21
10	64QAM	25	25	19.85	20.04	19.92	
10	64QAM	50	0	19.93	19.94	19.95	
Channel				19975	20175	20375	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	22.71	22.83	22.74	24
5	QPSK	1	12	22.70	22.80	22.73	
5	QPSK	1	24	22.50	22.63	22.56	
5	QPSK	12	0	21.74	21.79	21.68	23
5	QPSK	12	7	21.74	21.70	21.73	
5	QPSK	12	13	21.66	21.70	21.69	
5	QPSK	25	0	21.73	21.73	21.68	23
5	16QAM	1	0	21.84	21.80	21.72	
5	16QAM	1	12	21.77	21.70	21.66	
5	16QAM	1	24	21.60	21.68	21.61	22
5	16QAM	12	0	20.78	20.82	20.81	
5	16QAM	12	7	20.61	20.74	20.76	
5	16QAM	12	13	20.70	20.74	20.72	22
5	16QAM	25	0	20.79	20.82	20.79	
5	64QAM	1	0	21.14	21.10	21.09	
5	64QAM	1	12	21.07	21.13	21.05	22
5	64QAM	1	24	20.95	20.97	20.95	
5	64QAM	12	0	19.97	20.05	20.05	
5	64QAM	12	7	19.98	20.01	20.01	21
5	64QAM	12	13	19.97	19.93	19.93	
5	64QAM	25	0	19.90	19.96	19.89	
Channel				19965	20175	20385	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1732.5	1753.5	
3	QPSK	1	0	22.82	22.83	22.71	24
3	QPSK	1	8	22.66	22.82	22.72	
3	QPSK	1	14	22.46	22.63	22.49	
3	QPSK	8	0	21.80	21.73	21.72	23
3	QPSK	8	4	21.78	21.77	21.74	
3	QPSK	8	7	21.62	21.76	21.69	

3	QPSK	15	0	21.99	21.91	21.94	23
3	16QAM	1	0	22.19	22.30	22.20	
3	16QAM	1	8	22.09	22.16	22.07	
3	16QAM	1	14	22.02	22.13	22.05	22
3	16QAM	8	0	20.95	20.94	20.89	
3	16QAM	8	4	20.96	20.98	20.88	
3	16QAM	8	7	20.81	20.92	20.85	22
3	16QAM	15	0	20.86	20.90	20.81	
3	64QAM	1	0	21.22	21.20	21.09	
3	64QAM	1	8	21.18	21.17	21.16	22
3	64QAM	1	14	20.92	21.07	20.97	
3	64QAM	8	0	19.99	20.03	20.02	
3	64QAM	8	4	20.02	20.06	20.03	21
3	64QAM	8	7	19.97	20.01	20.02	
3	64QAM	15	0	19.98	20.09	19.97	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	22.79	22.85	22.80	24
1.4	QPSK	1	3	22.76	22.76	22.75	
1.4	QPSK	1	5	22.66	22.53	22.47	
1.4	QPSK	3	0	22.79	22.68	22.81	
1.4	QPSK	3	1	22.66	22.70	22.76	
1.4	QPSK	3	3	22.83	22.92	22.88	
1.4	QPSK	6	0	21.92	21.94	21.95	23
1.4	16QAM	1	0	22.20	22.30	22.07	23
1.4	16QAM	1	3	22.17	22.19	22.13	
1.4	16QAM	1	5	22.08	22.04	22.05	
1.4	16QAM	3	0	22.04	21.96	22.01	
1.4	16QAM	3	1	21.96	21.94	21.95	
1.4	16QAM	3	3	21.91	21.85	21.77	
1.4	16QAM	6	0	20.93	20.86	20.86	22
1.4	64QAM	1	0	21.31	21.31	21.17	22
1.4	64QAM	1	3	21.26	21.28	21.20	
1.4	64QAM	1	5	21.08	21.13	21.08	
1.4	64QAM	3	0	21.13	21.10	21.05	
1.4	64QAM	3	1	21.12	21.13	21.02	
1.4	64QAM	3	3	21.02	21.07	21.08	
1.4	64QAM	6	0	20.01	20.11	20.12	21

3	QPSK	15	0	21.76	21.78	21.72	23
3	16QAM	1	0	21.73	21.86	21.73	
3	16QAM	1	8	21.77	21.72	21.67	
3	16QAM	1	14	21.71	21.76	21.74	22
3	16QAM	8	0	20.75	20.78	20.78	
3	16QAM	8	4	20.66	20.72	20.73	
3	16QAM	8	7	20.70	20.66	20.67	22
3	16QAM	15	0	20.72	20.81	20.86	
3	64QAM	1	0	21.01	21.12	21.08	
3	64QAM	1	8	21.02	21.05	21.04	21
3	64QAM	1	14	20.81	20.96	20.93	
3	64QAM	8	0	20.01	20.05	19.93	
3	64QAM	8	4	19.91	19.95	19.89	21
3	64QAM	8	7	19.89	19.93	19.87	
3	64QAM	15	0	19.77	19.94	19.93	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	22.82	22.87	22.71	24
1.4	QPSK	1	3	22.63	22.79	22.65	
1.4	QPSK	1	5	22.48	22.55	22.59	
1.4	QPSK	3	0	22.60	22.64	22.58	
1.4	QPSK	3	1	22.48	22.62	22.55	
1.4	QPSK	3	3	22.49	22.54	22.45	
1.4	QPSK	6	0	21.76	21.70	21.65	23
1.4	16QAM	1	0	21.74	21.76	21.67	23
1.4	16QAM	1	3	21.70	21.78	21.75	
1.4	16QAM	1	5	21.61	21.63	21.64	
1.4	16QAM	3	0	21.47	21.53	21.52	
1.4	16QAM	3	1	21.55	21.51	21.45	
1.4	16QAM	3	3	21.51	21.58	21.51	
1.4	16QAM	6	0	20.72	20.78	20.74	22
1.4	64QAM	1	0	21.05	21.12	21.11	22
1.4	64QAM	1	3	20.92	20.98	21.06	
1.4	64QAM	1	5	20.89	20.91	20.99	
1.4	64QAM	3	0	20.78	20.88	20.78	
1.4	64QAM	3	1	20.80	20.81	20.73	
1.4	64QAM	3	3	20.63	20.69	20.77	
1.4	64QAM	6	0	19.89	20.00	19.90	21

Band 5 (Celluar Band) 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	
Frequency (MHz)				829	836.5	844	
10	QPSK	1	0	22.85	22.91	22.87	24
10	QPSK	1	25	22.81	22.88	22.84	
10	QPSK	1	49	22.78	22.84	22.82	
10	QPSK	25	0	21.93	21.99	21.95	23
10	QPSK	25	12	21.88	21.95	21.92	
10	QPSK	25	25	21.82	21.87	21.85	
10	QPSK	50	0	21.88	21.92	21.87	23
10	16QAM	1	0	21.89	21.96	21.93	
10	16QAM	1	25	21.85	21.92	21.87	
10	16QAM	1	49	21.86	21.90	21.84	22
10	16QAM	25	0	20.79	20.86	20.82	
10	16QAM	25	12	20.77	20.81	20.77	
10	16QAM	25	25	20.76	20.83	20.81	22
10	16QAM	50	0	20.86	20.88	20.83	
10	64QAM	1	0	21.03	21.05	21.01	
10	64QAM	1	25	20.98	21.01	21.03	22
10	64QAM	1	49	21.00	20.99	21.00	
10	64QAM	25	0	19.98	20.04	19.94	
10	64QAM	25	12	19.93	19.95	19.90	21
10	64QAM	25	25	19.90	19.96	19.92	
10	64QAM	50	0	19.87	19.91	19.87	
Channel				20425	20525	20625	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	24
5	QPSK	1	0	22.73	22.84	22.74	
5	QPSK	1	12	22.68	22.74	22.70	
5	QPSK	1	24	22.66	22.73	22.69	23
5	QPSK	12	0	21.88	21.88	21.86	
5	QPSK	12	7	21.85	21.85	21.81	
5	QPSK	12	13	21.69	21.79	21.84	23
5	QPSK	25	0	21.73	21.80	21.76	
5	16QAM	1	0	21.87	21.87	21.81	
5	16QAM	1	12	21.74	21.86	21.84	22
5	16QAM	1	24	21.85	21.86	21.80	
5	16QAM	12	0	20.74	20.80	20.73	
5	16QAM	12	7	20.67	20.69	20.63	22
5	16QAM	12	13	20.67	20.69	20.69	
5	16QAM	25	0	20.81	20.82	20.81	
5	64QAM	1	0	21.05	20.99	21.08	22
5	64QAM	1	12	21.03	21.02	20.99	
5	64QAM	1	24	20.98	20.94	20.96	
5	64QAM	12	0	20.06	19.99	19.92	21
5	64QAM	12	7	19.94	20.03	19.97	
5	64QAM	12	13	19.84	20.00	19.98	
5	64QAM	25	0	19.86	19.89	19.83	21
Channel				20415	20525	20635	Tune-up limit (dBm)
Frequency (MHz)				825.5	836.5	847.5	24
3	QPSK	1	0	22.76	22.79	22.86	
3	QPSK	1	8	22.80	22.79	22.69	
3	QPSK	1	14	22.68	22.75	22.69	23
3	QPSK	8	0	21.88	21.94	21.89	
3	QPSK	8	4	21.82	21.90	21.78	
3	QPSK	8	7	21.76	21.73	21.79	23
3	QPSK	15	0	21.86	21.79	21.77	
3	16QAM	1	0	21.76	21.88	21.84	
3	16QAM	1	8	21.84	21.90	21.76	22
3	16QAM	1	14	21.76	21.77	21.82	
3	16QAM	8	0	20.66	20.85	20.77	
3	16QAM	8	4	20.70	20.79	20.69	22
3	16QAM	8	7	20.67	20.68	20.79	
3	16QAM	15	0	20.82	20.80	20.77	
3	64QAM	1	0	21.10	21.07	21.08	22
3	64QAM	1	8	20.93	21.03	21.09	
3	64QAM	1	14	21.05	21.06	21.01	
3	64QAM	8	0	19.97	20.06	20.01	21
3	64QAM	8	4	19.91	20.02	19.96	
3	64QAM	8	7	19.89	20.01	19.88	
3	64QAM	15	0	19.94	19.92	19.90	21
Channel				20407	20525	20643	Tune-up limit (dBm)
Frequency (MHz)				824.7	836.5	848.3	24
1.4	QPSK	1	0	22.79	22.83	22.81	
1.4	QPSK	1	3	22.80	22.78	22.77	
1.4	QPSK	1	5	22.68	22.72	22.79	23
1.4	QPSK	3	0	22.65	22.78	22.61	
1.4	QPSK	3	1	22.57	22.70	22.71	
1.4	QPSK	3	3	22.48	22.59	22.55	23
1.4	QPSK	6	0	21.80	21.78	21.80	
1.4	16QAM	1	0	21.88	21.91	21.85	
1.4	16QAM	1	3	21.81	21.78	21.75	23
1.4	16QAM	1	5	21.84	21.82	21.83	
1.4	16QAM	3	0	21.56	21.57	21.52	
1.4	16QAM	3	1	21.56	21.56	21.42	22
1.4	16QAM	3	3	21.45	21.54	21.56	
1.4	16QAM	6	0	20.85	20.77	20.81	
1.4	64QAM	1	0	21.14	21.04	21.00	22
1.4	64QAM	1	3	21.08	21.06	21.13	
1.4	64QAM	1	5	20.98	21.00	21.04	
1.4	64QAM	3	0	20.83	20.85	20.84	22
1.4	64QAM	3	1	20.81	20.83	20.70	
1.4	64QAM	3	3	20.69	20.82	20.70	
1.4	64QAM	6	0	19.85	19.88	19.86	21

Band 7 (2600MHz Band) Part 27							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20850	21100	21350	
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	22.84	22.89	22.86	24
20	QPSK	1	49	22.82	22.86	22.83	
20	QPSK	1	99	22.74	22.80	22.78	
20	QPSK	50	0	21.80	21.85	21.82	23
20	QPSK	50	24	21.76	21.84	21.77	
20	QPSK	50	50	21.66	21.78	21.68	
20	QPSK	100	0	21.71	21.77	21.72	23
20	16QAM	1	0	21.86	21.98	21.89	
20	16QAM	1	49	21.84	21.95	21.91	
20	16QAM	1	99	21.81	21.91	21.84	22
20	16QAM	50	0	20.84	20.88	20.84	
20	16QAM	50	24	20.78	20.82	20.78	
20	16QAM	50	50	20.74	20.81	20.75	22
20	16QAM	100	0	20.85	20.89	20.87	
20	64QAM	1	0	21.11	21.15	21.10	
20	64QAM	1	49	21.05	21.06	21.03	22
20	64QAM	1	99	21.01	21.02	20.99	
20	64QAM	50	0	20.18	20.22	20.14	
20	64QAM	50	24	20.06	20.15	20.01	21
20	64QAM	50	50	20.08	20.10	20.04	
20	64QAM	100	0	20.10	20.15	19.99	
Channel				20825	21100	21375	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	24
15	QPSK	1	0	22.71	22.78	22.73	
15	QPSK	1	37	22.70	22.76	22.81	
15	QPSK	1	74	22.63	22.78	22.73	23
15	QPSK	36	0	21.78	21.78	21.80	
15	QPSK	36	20	21.67	21.69	21.73	
15	QPSK	36	39	21.52	21.76	21.63	23
15	QPSK	75	0	21.64	21.73	21.70	
15	16QAM	1	0	21.76	21.88	21.86	
15	16QAM	1	37	21.70	21.85	21.76	23
15	16QAM	1	74	21.74	21.76	21.69	
15	16QAM	36	0	20.70	20.77	20.69	
15	16QAM	36	20	20.68	20.81	20.76	22
15	16QAM	36	39	20.60	20.68	20.61	
15	16QAM	75	0	20.77	20.76	20.73	
15	64QAM	1	0	21.01	21.09	21.01	22
15	64QAM	1	37	20.89	20.94	20.93	
15	64QAM	1	74	20.89	20.95	20.85	
15	64QAM	36	0	20.08	20.19	20.11	21
15	64QAM	36	20	19.92	20.06	19.88	
15	64QAM	36	39	19.93	19.95	19.99	
15	64QAM	75	0	19.96	20.12	19.91	
Channel				20800	21100	21400	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	24
10	QPSK	1	0	22.71	22.85	22.76	
10	QPSK	1	25	22.76	22.76	22.78	
10	QPSK	1	49	22.69	22.75	22.70	23
10	QPSK	25	0	21.76	21.74	21.75	
10	QPSK	25	12	21.66	21.69	21.74	
10	QPSK	25	25	21.60	21.66	21.64	23
10	QPSK	50	0	21.67	21.62	21.69	
10	16QAM	1	0	21.85	21.96	21.85	
10	16QAM	1	25	21.80	21.91	21.76	23
10	16QAM	1	49	21.71	21.81	21.70	
10	16QAM	25	0	20.79	20.75	20.77	
10	16QAM	25	12	20.67	20.67	20.67	22
10	16QAM	25	25	20.69	20.78	20.70	
10	16QAM	50	0	20.77	20.85	20.78	
10	64QAM	1	0	21.06	21.14	20.96	22
10	64QAM	1	25	20.97	21.03	20.95	
10	64QAM	1	49	20.94	20.93	20.98	
10	64QAM	25	0	20.16	20.09	20.03	21
10	64QAM	25	12	19.96	20.06	19.95	
10	64QAM	25	25	20.00	20.00	19.93	
10	64QAM	50	0	20.01	20.13	19.98	
Channel				20775	21100	21425	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	24
5	QPSK	1	0	22.77	22.85	22.77	
5	QPSK	1	12	22.79	22.75	22.68	
5	QPSK	1	24	22.61	22.74	22.75	23
5	QPSK	12	0	21.65	21.75	21.70	
5	QPSK	12	7	21.61	21.72	21.62	
5	QPSK	12	13	21.56	21.75	21.67	23
5	QPSK	25	0	21.57	21.62	21.66	
5	16QAM	1	0	21.76	21.91	21.82	
5	16QAM	1	12	21.76	21.88	21.85	23
5	16QAM	1	24	21.76	21.80	21.71	
5	16QAM	12	0	20.73	20.80	20.77	
5	16QAM	12	7	20.76	20.79	20.65	22
5	16QAM	12	13	20.71	20.69	20.67	
5	16QAM	25	0	20.84	20.85	20.79	
5	64QAM	1	0	21.02	21.08	21.01	22
5	64QAM	1	12	21.05	20.97	20.94	
5	64QAM	1	24	20.91	20.90	20.96	
5	64QAM	12	0	20.11	20.15	20.03	21
5	64QAM	12	7	20.03	20.04	19.92	
5	64QAM	12	13	19.97	20.06	19.96	
5	64QAM	25	0	20.01	20.13	19.94	

Band 13(700MHz Band) Part 27F							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				23230			24
Frequency (MHz)				782			
10	QPSK	1	0		22.92		24
10	QPSK	1	25		22.86		
10	QPSK	1	49		22.81		
10	QPSK	25	0		21.88		23
10	QPSK	25	12		21.83		
10	QPSK	25	25		21.80		
10	QPSK	50	0		21.77		23
10	16QAM	1	0		21.94		
10	16QAM	1	25		21.90		
10	16QAM	1	49		21.86		22
10	16QAM	25	0		20.78		
10	16QAM	25	12		20.75		
10	16QAM	25	25		20.72		22
10	16QAM	50	0		20.70		
10	64QAM	1	0		21.00		
10	64QAM	1	25		20.94		22
10	64QAM	1	49		20.96		
10	64QAM	25	0		19.99		
10	64QAM	25	12		19.95		21
10	64QAM	25	25		19.93		
10	64QAM	50	0		19.90		
Channel				23205	23230	23255	24
Frequency (MHz)				779.5	782	784.5	
5	QPSK	1	0	22.84	22.91	22.79	24
5	QPSK	1	12	22.77	22.71	22.75	
5	QPSK	1	24	22.76	22.74	22.72	
5	QPSK	12	0	21.78	21.76	21.76	23
5	QPSK	12	7	21.79	21.81	21.78	
5	QPSK	12	13	21.76	21.75	21.78	
5	QPSK	25	0	21.63	21.63	21.65	23
5	16QAM	1	0	21.79	21.93	21.86	
5	16QAM	1	12	21.88	21.81	21.82	
5	16QAM	1	24	21.79	21.75	21.85	22
5	16QAM	12	0	20.75	20.64	20.68	
5	16QAM	12	7	20.63	20.61	20.73	
5	16QAM	12	13	20.70	20.68	20.63	22
5	16QAM	25	0	20.56	20.61	20.59	
5	64QAM	1	0	20.94	20.90	20.97	
5	64QAM	1	12	20.94	20.88	20.91	22
5	64QAM	1	24	20.94	20.94	20.88	
5	64QAM	12	0	19.87	19.95	19.99	
5	64QAM	12	7	19.90	19.93	19.97	21
5	64QAM	12	13	19.84	19.82	19.82	
5	64QAM	25	0	19.92	19.79	19.86	

Band 26 for FCC (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)				821.5	831.5	841.5	
15	QPSK	1	0	22.93	22.97	22.95	24
15	QPSK	1	37	22.90	22.93	22.90	
15	QPSK	1	74	22.87	22.93	22.88	
15	QPSK	36	0	21.97	22.02	22.00	23
15	QPSK	36	20	21.95	21.97	21.94	
15	QPSK	36	39	21.88	21.94	21.91	
15	QPSK	75	0	21.85	21.96	21.89	23
15	16QAM	1	0	21.96	21.98	21.95	
15	16QAM	1	37	21.90	21.92	21.91	
15	16QAM	1	74	21.87	21.95	21.90	22
15	16QAM	36	0	20.94	20.95	20.85	
15	16QAM	36	20	20.92	20.93	20.86	
15	16QAM	36	39	20.88	20.90	20.88	22
15	16QAM	75	0	20.87	20.88	20.85	
15	64QAM	1	0	21.15	21.16	21.11	
15	64QAM	1	37	21.10	21.13	21.09	22
15	64QAM	1	74	21.01	21.07	21.06	
15	64QAM	36	0	20.14	20.15	20.12	
15	64QAM	36	20	20.09	20.13	20.10	21
15	64QAM	36	39	20.08	20.11	20.06	
15	64QAM	75	0	20.05	20.10	20.04	
Channel				26740	26865	26990	24
Frequency (MHz)				819	831.5	844	
10	QPSK	1	0	22.85	22.89	22.87	24
10	QPSK	1	25	22.79	22.85	22.84	
10	QPSK	1	49	22.76	22.82	22.77	
10	QPSK	25	0	21.86	21.91	21.89	23
10	QPSK	25	12	21.84	21.86	21.83	
10	QPSK	25	25	21.77	21.83	21.80	
10	QPSK	50	0	21.74	21.85	21.78	23
10	16QAM	1	0	21.85	21.87	21.84	
10	16QAM	1	25	21.79	21.81	21.80	
10	16QAM	1	49	21.76	21.84	21.79	22
10	16QAM	25	0	20.83	20.84	20.74	
10	16QAM	25	12	20.81	20.82	20.75	
10	16QAM	25	25	20.77	20.79	20.77	22
10	16QAM	50	0	20.76	20.77	20.74	
10	64QAM	1	0	21.06	21.07	21.02	
10	64QAM	1	25	21.01	21.04	21.00	22
10	64QAM	1	49	20.92	20.98	20.97	
10	64QAM	25	0	20.05	20.06	20.03	
10	64QAM	25	12	20.00	20.04	20.01	21
10	64QAM	25	25	19.99	20.02	19.97	
10	64QAM	50	0	19.96	20.01	19.95	
Channel				26715	26865	27015	24
Frequency (MHz)				816.5	831.5	846.5	
5	QPSK	1	0	22.77	22.81	22.79	24
5	QPSK	1	12	22.71	22.77	22.76	
5	QPSK	1	24	22.68	22.74	22.69	
5	QPSK	12	0	21.78	21.83	21.81	23
5	QPSK	12	7	21.76	21.78	21.75	
5	QPSK	12	13	21.69	21.75	21.72	
5	QPSK	25	0	21.66	21.77	21.70	23
5	16QAM	1	0	21.77	21.79	21.76	
5	16QAM	1	12	21.71	21.73	21.72	
5	16QAM	1	24	21.68	21.76	21.71	22
5	16QAM	12	0	20.75	20.76	20.66	
5	16QAM	12	7	20.73	20.74	20.67	
5	16QAM	12	13	20.69	20.71	20.69	22
5	16QAM	25	0	20.68	20.69	20.66	
5	64QAM	1	0	20.99	21.00	20.95	
5	64QAM	1	12	20.94	20.97	20.93	21
5	64QAM	1	24	20.85	20.91	20.90	
5	64QAM	12	0	19.98	19.99	19.96	
5	64QAM	12	7	19.93	19.97	19.94	21
5	64QAM	12	13	19.92	19.95	19.90	
5	64QAM	25	0	19.89	19.94	19.88	
Channel				26705	26865	27025	24
Frequency (MHz)				815.5	831.5	847.5	
3	QPSK	1	0	22.74	22.78	22.76	24
3	QPSK	1	8	22.68	22.74	22.73	
3	QPSK	1	14	22.65	22.71	22.66	
3	QPSK	8	0	21.75	21.80	21.78	23
3	QPSK	8	4	21.73	21.75	21.72	
3	QPSK	8	7	21.66	21.72	21.69	
3	QPSK	15	0	21.63	21.74	21.67	23
3	16QAM	1	0	21.74	21.76	21.73	
3	16QAM	1	8	21.68	21.70	21.69	
3	16QAM	1	14	21.65	21.73	21.68	22
3	16QAM	8	0	20.72	20.73	20.63	
3	16QAM	8	4	20.70	20.71	20.64	
3	16QAM	8	7	20.66	20.68	20.66	22
3	16QAM	15	0	20.65	20.66	20.63	
3	64QAM	1	0	20.99	21.00	20.95	
3	64QAM	1	8	20.94	20.97	20.93	21
3	64QAM	1	14	20.85	20.91	20.90	
3	64QAM	8	0	19.98	19.99	19.96	
3	64QAM	8	4	19.93	19.97	19.94	21
3	64QAM	8	7	19.92	19.95	19.90	
3	64QAM	15	0	19.89	19.94	19.88	
Channel				26697	26865	27033	24
Frequency (MHz)				814.7	831.5	848.3	
1.4	QPSK	1	0	22.72	22.76	22.74	24
1.4	QPSK	1	3	22.66	22.72	22.71	
1.4	QPSK	1	5	22.63	22.69	22.64	
1.4	QPSK	3	0	21.73	21.78	21.76	
1.4	QPSK	3	1	21.71	21.73	21.70	
1.4	QPSK	3	3	21.64	21.70	21.67	

1.4	QPSK	6	0	21.61	21.72	21.65	23
1.4	16QAM	1	0	21.72	21.74	21.71	23
1.4	16QAM	1	3	21.66	21.68	21.67	
1.4	16QAM	1	5	21.63	21.71	21.66	
1.4	16QAM	3	0	20.70	20.71	20.61	
1.4	16QAM	3	1	20.68	20.69	20.62	
1.4	16QAM	3	3	20.64	20.66	20.64	
1.4	16QAM	6	0	20.63	20.64	20.61	22
1.4	64QAM	1	0	20.96	20.97	20.92	22
1.4	64QAM	1	3	20.91	20.94	20.90	
1.4	64QAM	1	5	20.82	20.88	20.87	
1.4	64QAM	3	0	19.95	19.96	19.93	
1.4	64QAM	3	1	19.90	19.94	19.91	
1.4	64QAM	3	3	19.89	19.92	19.87	
1.4	64QAM	6	0	19.86	19.91	19.85	21

Band 66							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				132072	132322	132572	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	22.91	22.96	22.93	24
20	QPSK	1	49	22.88	22.93	22.90	
20	QPSK	1	99	22.85	22.90	22.88	
20	QPSK	50	0	21.92	21.98	21.94	23
20	QPSK	50	24	21.86	21.94	21.90	
20	QPSK	50	50	21.83	21.89	21.85	
20	QPSK	100	0	21.92	21.94	21.90	23
20	16QAM	1	0	21.89	21.92	21.86	
20	16QAM	1	49	21.85	21.88	21.87	
20	16QAM	1	99	21.77	21.86	21.82	22
20	16QAM	50	0	20.99	21.06	21.04	
20	16QAM	50	24	20.95	21.02	20.97	
20	16QAM	50	50	20.84	20.99	20.88	22
20	16QAM	100	0	20.80	20.89	20.81	
20	64QAM	1	0	21.06	21.12	21.10	
20	64QAM	1	49	21.02	21.07	21.06	22
20	64QAM	1	99	21.05	21.09	21.03	
20	64QAM	50	0	20.11	20.18	20.16	21
20	64QAM	50	24	20.08	20.12	20.11	
20	64QAM	50	50	20.03	20.05	19.98	
20	64QAM	100	0	20.02	20.12	20.09	
Channel				132047	132322	132597	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	22.89	22.84	22.85	24
15	QPSK	1	37	22.76	22.82	22.82	
15	QPSK	1	74	22.77	22.79	22.77	
15	QPSK	36	0	21.78	21.84	21.86	23
15	QPSK	36	20	21.83	21.90	21.87	
15	QPSK	36	39	21.77	21.83	21.80	
15	QPSK	75	0	21.91	21.91	21.78	23
15	16QAM	1	0	21.79	21.80	21.84	
15	16QAM	1	37	21.80	21.83	21.74	
15	16QAM	1	74	21.66	21.86	21.71	22
15	16QAM	36	0	20.98	21.03	20.94	
15	16QAM	36	20	20.94	20.93	20.95	
15	16QAM	36	39	20.79	20.87	20.82	22
15	16QAM	75	0	20.80	20.77	20.71	
15	64QAM	1	0	21.06	21.12	21.10	
15	64QAM	1	37	20.92	21.01	20.96	22
15	64QAM	1	74	21.01	21.04	20.92	
15	64QAM	36	0	20.08	20.08	20.14	21
15	64QAM	36	20	20.10	20.13	20.10	
15	64QAM	36	39	20.05	20.06	19.94	
15	64QAM	75	0	20.03	20.13	20.10	
Channel				132022	132322	132622	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	22.90	22.82	22.85	24
10	QPSK	1	25	22.80	22.86	22.77	
10	QPSK	1	49	22.85	22.81	22.75	
10	QPSK	25	0	21.87	21.91	21.89	23
10	QPSK	25	12	21.84	21.83	21.76	
10	QPSK	25	25	21.76	21.78	21.74	
10	QPSK	50	0	21.88	21.89	21.84	23
10	16QAM	1	0	21.84	21.78	21.73	
10	16QAM	1	25	21.78	21.86	21.82	
10	16QAM	1	49	21.69	21.78	21.80	22
10	16QAM	25	0	20.98	20.99	20.98	
10	16QAM	25	12	20.88	20.88	20.86	
10	16QAM	25	25	20.82	20.99	20.88	22
10	16QAM	50	0	20.75	20.83	20.78	
10	64QAM	1	0	21.04	21.03	21.09	
10	64QAM	1	25	20.88	20.98	20.92	22
10	64QAM	1	49	21.05	20.96	20.91	
10	64QAM	25	0	19.99	20.15	20.06	
10	64QAM	25	12	20.00	20.00	19.99	21
10	64QAM	25	25	19.99	20.01	19.85	
10	64QAM	50	0	19.96	20.06	20.06	
Channel				131997	132322	132647	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	22.83	22.85	22.91	24
5	QPSK	1	12	22.82	22.82	22.77	
5	QPSK	1	24	22.77	22.88	22.79	
5	QPSK	12	0	21.85	21.86	21.87	23
5	QPSK	12	7	21.75	21.90	21.82	
5	QPSK	12	13	21.81	21.84	21.81	
5	QPSK	25	0	21.84	21.90	21.85	23
5	16QAM	1	0	21.78	21.88	21.76	
5	16QAM	1	12	21.73	21.87	21.83	
5	16QAM	1	24	21.76	21.74	21.71	22
5	16QAM	12	0	20.86	21.06	20.96	
5	16QAM	12	7	20.92	21.01	20.86	
5	16QAM	12	13	20.80	20.93	20.81	22
5	16QAM	25	0	20.72	20.84	20.76	
5	64QAM	1	0	20.93	21.05	21.00	
5	64QAM	1	12	20.99	21.01	21.01	22
5	64QAM	1	24	20.99	21.08	20.92	
5	64QAM	12	0	20.06	20.10	20.16	21
5	64QAM	12	7	19.97	20.10	20.12	
5	64QAM	12	13	19.92	20.06	19.88	
5	64QAM	25	0	20.00	20.07	20.05	
Channel				131987	132322	132657	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	22.79	22.83	22.68	24
3	QPSK	1	8	22.75	22.80	22.77	
3	QPSK	1	14	22.66	22.67	22.71	
3	QPSK	8	0	21.66	21.75	21.69	23
3	QPSK	8	4	21.74	21.74	21.69	
3	QPSK	8	7	21.62	21.63	21.66	

3	QPSK	15	0	21.73	21.81	21.78	23
3	16QAM	1	0	21.72	21.73	21.68	
3	16QAM	1	8	21.69	21.74	21.67	
3	16QAM	1	14	21.60	21.64	21.58	22
3	16QAM	8	0	20.74	20.82	20.84	
3	16QAM	8	4	20.76	20.89	20.75	
3	16QAM	8	7	20.69	20.85	20.66	22
3	16QAM	15	0	20.64	20.74	20.65	
3	64QAM	1	0	20.97	21.01	21.01	
3	64QAM	1	8	20.79	20.98	20.90	21
3	64QAM	1	14	20.83	20.89	20.82	
3	64QAM	8	0	19.98	19.95	20.02	
3	64QAM	8	4	19.86	20.01	20.00	21
3	64QAM	8	7	19.86	19.91	19.85	
3	64QAM	15	0	19.83	19.98	19.95	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	22.73	22.83	22.75	24
1.4	QPSK	1	3	22.71	22.73	22.75	
1.4	QPSK	1	5	22.60	22.77	22.68	
1.4	QPSK	3	0	22.52	22.62	22.51	
1.4	QPSK	3	1	22.47	22.58	22.59	
1.4	QPSK	3	3	22.53	22.57	22.54	
1.4	QPSK	6	0	21.70	21.74	21.73	23
1.4	16QAM	1	0	21.70	21.80	21.73	23
1.4	16QAM	1	3	21.63	21.66	21.61	
1.4	16QAM	1	5	21.54	21.65	21.67	
1.4	16QAM	3	0	21.66	21.68	21.62	
1.4	16QAM	3	1	21.65	21.69	21.64	
1.4	16QAM	3	3	21.55	21.62	21.51	
1.4	16QAM	6	0	21.47	21.46	21.41	22
1.4	64QAM	1	0	20.87	21.00	20.94	22
1.4	64QAM	1	3	20.94	20.92	20.93	
1.4	64QAM	1	5	20.91	20.92	20.85	
1.4	64QAM	3	0	20.86	20.90	20.85	
1.4	64QAM	3	1	20.82	20.85	20.78	
1.4	64QAM	3	3	20.75	20.74	20.67	
1.4	64QAM	6	0	19.81	19.96	19.99	21

Band 38(only on channel required)							
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	22.31	22.37	22.35	23.5
20	QPSK	1	49	22.29	22.33	22.30	
20	QPSK	1	99	22.17	22.28	22.19	
20	QPSK	50	0	21.25	21.28	21.23	22.5
20	QPSK	50	24	21.22	21.25	21.21	
20	QPSK	50	50	21.18	21.22	21.15	
20	QPSK	100	0	21.12	21.20	21.12	22.5
20	16QAM	1	0	21.34	21.40	21.37	
20	16QAM	1	49	21.33	21.36	21.35	
20	16QAM	1	99	21.28	21.31	21.26	21.5
20	16QAM	50	0	20.34	20.36	20.30	
20	16QAM	50	24	20.30	20.33	20.26	
20	16QAM	50	50	20.25	20.28	20.22	21.5
20	16QAM	100	0	20.17	20.24	20.16	
20	64QAM	1	0	20.56	20.57	20.53	
20	64QAM	1	49	20.53	20.54	20.51	21.5
20	64QAM	1	99	20.45	20.48	20.47	
20	64QAM	50	0	19.46	19.47	19.42	
20	64QAM	50	24	19.39	19.44	19.40	20.5
20	64QAM	50	50	19.35	19.40	19.36	
20	64QAM	100	0	19.51	19.53	19.50	
Channel				37825	38000	38175	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	22.23	22.30	22.26	23.5
15	QPSK	1	37	22.28	22.23	22.19	
15	QPSK	1	74	22.04	22.26	22.05	
15	QPSK	36	0	21.18	21.18	21.09	22.5
15	QPSK	36	20	21.21	21.23	21.12	
15	QPSK	36	39	21.12	21.14	21.05	
15	QPSK	75	0	21.01	21.14	21.01	22.5
15	16QAM	1	0	21.25	21.36	21.26	
15	16QAM	1	37	21.20	21.22	21.26	
15	16QAM	1	74	21.21	21.24	21.21	21.5
15	16QAM	36	0	20.28	20.35	20.26	
15	16QAM	36	20	20.20	20.19	20.13	
15	16QAM	36	39	20.12	20.15	20.18	21.5
15	16QAM	75	0	20.03	20.23	20.12	
15	64QAM	1	0	20.48	20.45	20.49	
15	64QAM	1	37	20.41	20.42	20.42	21.5
15	64QAM	1	74	20.34	20.34	20.37	
15	64QAM	36	0	19.38	19.34	19.38	
15	64QAM	36	20	19.32	19.32	19.28	20.5
15	64QAM	36	39	19.26	19.27	19.35	
15	64QAM	75	0	19.36	19.39	19.40	
Channel				37800	38000	38200	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	22.26	22.34	22.23	23.5
10	QPSK	1	25	22.14	22.30	22.26	
10	QPSK	1	49	22.05	22.17	22.07	
10	QPSK	25	0	21.23	21.25	21.10	22.5
10	QPSK	25	12	21.20	21.23	21.16	
10	QPSK	25	25	21.15	21.08	21.08	
10	QPSK	50	0	21.10	21.19	21.05	22.5
10	16QAM	1	0	21.25	21.35	21.25	
10	16QAM	1	25	21.26	21.35	21.27	
10	16QAM	1	49	21.22	21.27	21.17	21.5
10	16QAM	25	0	20.21	20.22	20.28	
10	16QAM	25	12	20.28	20.21	20.22	
10	16QAM	25	25	20.22	20.17	20.07	21.5
10	16QAM	50	0	20.04	20.12	20.13	
10	64QAM	1	0	20.41	20.50	20.40	
10	64QAM	1	25	20.44	20.48	20.40	21.5
10	64QAM	1	49	20.37	20.34	20.32	
10	64QAM	25	0	19.44	19.39	19.39	20.5
10	64QAM	25	12	19.24	19.42	19.30	
10	64QAM	25	25	19.32	19.26	19.24	
10	64QAM	50	0	19.46	19.40	19.48	
Channel				37775	38000	38225	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	22.28	22.22	22.21	23.5
5	QPSK	1	12	22.19	22.28	22.18	
5	QPSK	1	24	22.10	22.24	22.15	
5	QPSK	12	0	21.15	21.25	21.10	22.5
5	QPSK	12	7	21.18	21.16	21.19	
5	QPSK	12	13	21.05	21.20	21.07	
5	QPSK	25	0	20.97	21.15	21.07	22.5
5	16QAM	1	0	21.29	21.26	21.27	
5	16QAM	1	12	21.25	21.25	21.23	
5	16QAM	1	24	21.15	21.21	21.14	21.5
5	16QAM	12	0	20.31	20.28	20.27	
5	16QAM	12	7	20.23	20.27	20.15	
5	16QAM	12	13	20.23	20.14	20.13	21.5
5	16QAM	25	0	20.03	20.18	20.02	
5	64QAM	1	0	20.53	20.52	20.53	
5	64QAM	1	12	20.53	20.42	20.37	21.5
5	64QAM	1	24	20.35	20.37	20.36	
5	64QAM	12	0	19.35	19.47	19.39	
5	64QAM	12	7	19.28	19.41	19.37	20.5
5	64QAM	12	13	19.34	19.39	19.30	
5	64QAM	25	0	19.43	19.45	19.46	

2.4GHz WLAN ANT 1

2.4GHz WLAN ANT 1	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
	802.11b 1Mbps	CH 1	2412	18.52	20.00	18.00	99.52
		CH 6	2437	18.35	20.00	18.00	
		CH 11	2462	18.10	20.00	18.00	
	802.11g 6Mbps	CH 1	2412	18.01	19.50	18.00	96.88
		CH 6	2437	18.02	19.50	18.00	
		CH 11	2462	17.56	19.00	18.00	
	802.11n-HT20 MCS0	CH 1	2412	17.04	18.50	17.00	96.65
		CH 6	2437	16.94	18.50	17.00	
		CH 11	2462	16.56	18.00	17.00	

5.2GHz WLAN ANT 1

5.2GHz WLAN ANT 1	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
	802.11a 6Mbps	CH 36	5180	18.11	20.00	17.00	96.88
		CH 44	5220	18.24	20.00	17.00	
		CH 48	5240	17.96	19.50	17.00	
	802.11n-HT20 MCS0	CH 36	5180	16.88	18.50	16.00	96.65
		CH 44	5220	16.89	18.50	16.00	
		CH 48	5240	16.86	18.50	16.00	
	802.11n-HT40 MCS0	CH 38	5190	16.54	18.00	16.00	93.53
		CH 46	5230	16.59	18.00	16.00	
		CH 36	5180	16.83	18.50	16.00	
	802.11ac-VHT20 MCS0	CH 44	5220	16.93	18.50	16.00	96.68
		CH 46	5240	17.02	18.50	16.00	
		CH 38	5190	15.98	17.50	15.50	
	802.11ac-VHT40 MCS0	CH 46	5230	16.05	17.50	15.50	93.57
		CH 42	5210	13.49	15.00	13.50	

5.3GHz WLAN ANT 1

5.3GHz WLAN ANT 1	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
	802.11a 6Mbps	CH 52	5260	16.65	19.50	17.00	96.88
		CH 60	5300	17.80	19.50	17.00	
		CH 64	5320	17.87	19.50	17.00	
	802.11n-HT20 MCS0	CH 52	5260	16.66	18.50	16.00	96.65
		CH 60	5300	16.68	18.50	16.00	
		CH 64	5320	16.63	18.50	16.00	
	802.11n-HT40 MCS0	CH 54	5270	16.42	18.00	16.00	93.53
		CH 62	5310	16.36	18.00	16.00	
	802.11ac-VHT20 MCS0	CH 52	5260	16.90	18.50	16.00	96.68
		CH 60	5300	16.65	18.50	16.00	
		CH 64	5320	16.68	18.50	16.00	
	802.11ac-VHT40 MCS0	CH 54	5270	15.91	17.50	15.50	93.57
		CH 62	5310	15.90	17.50	15.50	
	802.11ac-VHT80 MCS0	CH 58	5290	13.32	15.00	13.50	87.67

5.5GHz WLAN ANT 1

5.5GHz WLAN ANT 1	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
	802.11a 6Mbps	CH 100	5500	17.44	19.00	17.00	96.88
		CH 120	5600	17.27	19.00	17.00	
		CH 144	5720	16.70	18.50	17.00	
	802.11n-HT20 MCS0	CH 100	5500	16.38	18.00	16.00	96.65
		CH 120	5600	16.10	18.00	16.00	
		CH 144	5720	15.69	17.50	16.00	
	802.11n-HT40 MCS0	CH 102	5510	15.98	17.50	16.00	93.53
		CH 126	5630	15.76	17.50	16.00	
		CH 142	5710	15.38	17.00	16.00	
	802.11ac-VHT20 MCS0	CH 100	5500	16.32	18.00	16.00	96.68
		CH 120	5600	16.17	18.00	16.00	
		CH 144	5720	15.71	17.50	16.00	
	802.11ac-VHT40 MCS0	CH 102	5510	15.57	17.00	15.50	93.57
		CH 126	5630	15.25	17.00	15.50	
		CH 142	5710	14.81	16.50	15.50	
	802.11ac-VHT80 MCS0	CH 106	5530	13.22	15.00	13.50	87.67
		CH 122	5610	12.91	14.50	13.50	
		CH 138	5690	12.46	14.00	13.50	

5.6GHz WLAN ANT 1

5.6GHz WLAN ANT 1	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
	802.11a MCS0	CH 149	5745	17.31	19.00	17.00	96.88
		CH 157	5785	16.88	18.50	17.00	
		CH 165	5825	16.70	18.50	17.00	
	802.11n-HT20 MCS0	CH 149	5745	16.13	18.00	16.00	96.65
		CH 157	5785	15.71	17.50	16.00	
		CH 165	5825	15.49	17.00	16.00	
	802.11n-HT40 MCS0	CH 151	5755	15.69	17.50	16.00	93.53
		CH 159	5795	15.35	17.00	16.00	
	802.11ac-VHT20 MCS0	CH 149	5745	16.12	18.00	16.00	96.68
		CH 157	5785	15.69	17.50	16.00	
		CH 165	5825	15.41	17.00	16.00	
	802.11ac-VHT40 MCS0	CH 151	5755	15.12	17.00	15.50	93.57
		CH 159	5795	14.71	16.50	15.50	
	802.11ac-VHT80 MCS0	CH 155	5775	12.46	14.00	13.50	87.67

Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
BR / EDR	CH 00	2402	7.62	4.28	4.28
	CH 39	2441	8.13	4.49	4.53
	CH 76	2480	8.27	4.43	4.82
Tune-up Limit			10	6	6.5
Duty Cycle %			76.8	76.8	76.8

Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
LE	CH 00	2402	-5.32	-8.39	N/A
	CH 19	2440	-4.14	-7.25	N/A
	CH 39	2480	-5.57	-8.83	N/A
Tune-up Limit			0.5	0.5	N/A
Duty Cycle %			61.6	32	N/A

Reduced Power Level 1 for head

GSM850	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)	Ch Delta > 0.5
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	31.49	31.50	31.44	32.00	22.49	22.50	22.44	23.00	0.16
GPRS 1 Tx slot	31.51	31.54	31.38	32.00	22.51	22.54	22.38	23.00	
GPRS 2 Tx slots	28.67	28.69	28.64	30.00	22.67	22.69	22.64	24.00	0.05
GPRS 3 Tx slots	26.81	26.64	26.51	28.00	22.55	22.38	22.25	23.74	0.30
GPRS 4 Tx slots	25.84	25.64	25.71	26.00	22.84	22.64	22.71	23.00	0.20
EDGE 1 Tx slot	24.88	24.94	24.82	26.00	15.88	15.94	15.82	17.00	0.12
EDGE 2 Tx slots	21.76	21.78	21.73	23.00	15.76	15.78	15.73	17.00	0.05
EDGE 3 Tx slots	19.74	19.74	19.73	21.00	15.48	15.48	15.47	16.74	0.01
EDGE 4 Tx slots	18.68	18.75	18.69	19.00	15.68	15.75	15.69	16.00	0.07
Mode		Max.	31.54			Max.	22.84		
Attenuator	Cable Loss : 0.6								

GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)	Ch Delta > 0.5
TX Channel	512	661	810		512	661	810		
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8		
GSM 1 Tx slot	26.30	26.37	25.99	27.00	17.30	17.37	16.99	18.00	0.39
GPRS 1 Tx slot	26.35	26.38	26.00	27.00	17.35	17.38	17.00	18.00	
GPRS 2 Tx slots	24.04	24.09	24.01	25.00	18.04	18.09	18.01	19.00	0.08
GPRS 3 Tx slots	22.21	22.24	22.15	23.00	17.95	17.98	17.89	18.74	0.09
GPRS 4 Tx slots	20.28	20.34	20.25	21.00	17.28	17.34	17.25	18.00	0.09
EDGE 1 Tx slot	21.84	22.05	22.02	23.00	12.84	13.05	13.02	14.00	0.21
EDGE 2 Tx slots	19.28	19.37	19.36	20.00	13.28	13.37	13.36	14.00	0.09
EDGE 3 Tx slots	17.82	17.87	17.85	18.00	13.56	13.61	13.59	13.74	0.05
EDGE 4 Tx slots	16.74	16.82	16.73	17.00	13.74	13.82	13.73	14.00	0.09
Mode		Max.	26.38			Max.	18.09		
Attenuator	Cable Loss : 0.8								

Band		WCDMA Band II			Tune-up Limit (dBm)	WCDMA Band IV			Tune-up Limit (dBm)	WCDMA Band V			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	17.19	17.31	17.21	18.00	16.85	17.03	16.98	18.00	20.97	21.21	21.11	22.00
3GPP Rel 6	HSDPA Subtest-1	16.75	16.76	16.64	17.50	16.50	16.70	16.62	17.50	20.59	20.27	20.62	21.50
3GPP Rel 6	HSDPA Subtest-2	16.75	16.76	16.67	17.50	16.51	16.65	16.59	17.50	20.51	20.48	20.58	21.50
3GPP Rel 6	HSDPA Subtest-3	16.28	16.29	16.21	17.00	16.01	16.08	16.16	17.00	20.06	20.03	20.11	21.00
3GPP Rel 6	HSDPA Subtest-4	16.22	16.18	16.13	17.00	15.99	16.15	16.05	17.00	19.98	19.98	20.13	21.00
3GPP Rel 6	HSUPA Subtest-1	16.22	16.18	16.18	17.00	16.01	16.07	16.08	17.00	20.02	20.04	20.09	21.00
3GPP Rel 6	HSUPA Subtest-2	16.79	16.72	16.66	17.50	16.52	16.70	16.64	17.50	20.64	20.51	20.64	21.50
3GPP Rel 6	HSUPA Subtest-3	15.75	15.72	15.68	16.50	15.56	15.63	15.59	16.50	19.52	19.57	19.61	21.50
3GPP Rel 6	HSUPA Subtest-4	16.75	16.73	16.61	17.50	16.44	16.65	16.56	17.50	20.53	20.50	20.69	21.50
3GPP Rel 6	HSUPA Subtest-5	15.81	15.66	15.59	16.50	15.48	15.65	15.57	16.50	19.46	19.52	19.62	20.50
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	15.76	15.71	15.67	16.50	15.53	15.63	15.60	16.50	19.49	19.56	19.61	20.50
Attenuator			Cable Loss	0.8		Cable Loss			0.8		Cable Loss	0.6	
Mode			Max.	17.31		Max.			17.03		Max.	21.21	

Band 2 (1900MHz Band) Part 24E							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				18700	18900	19100	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	17.36	17.42	17.37	18.5
20	QPSK	1	49	17.28	17.34	17.27	
20	QPSK	1	99	17.18	16.96	16.97	
20	QPSK	50	0	16.47	16.54	16.49	
20	QPSK	50	24	16.38	16.52	16.42	17.5
20	QPSK	50	50	16.36	16.44	16.36	
20	QPSK	100	0	16.44	16.48	16.42	
20	16QAM	1	0	16.65	16.73	16.65	
20	16QAM	1	49	16.62	16.71	16.60	17.5
20	16QAM	1	99	16.62	16.60	16.60	
20	16QAM	50	0	15.45	15.52	15.47	
20	16QAM	50	24	15.44	15.51	15.49	
20	16QAM	50	50	15.36	15.39	15.34	16.5
20	16QAM	100	0	15.45	15.41	15.41	
20	64QAM	1	0	15.77	15.87	15.76	
20	64QAM	1	49	15.79	15.81	15.69	
20	64QAM	1	99	15.63	15.63	15.58	16.5
20	64QAM	50	0	14.66	14.67	14.69	
20	64QAM	50	24	14.62	14.71	14.69	
20	64QAM	50	50	14.63	14.69	14.67	
20	64QAM	100	0	14.57	14.62	14.66	
Channel				18675	18900	19125	
Frequency (MHz)				1857.5	1880	1902.5	Tune-up limit (dBm)
15	QPSK	1	0	17.32	17.35	17.34	18.5
15	QPSK	1	37	17.26	17.37	17.22	
15	QPSK	1	74	17.18	17.03	17.01	
15	QPSK	36	0	16.45	16.53	16.48	
15	QPSK	36	20	16.43	16.50	16.48	17.5
15	QPSK	36	39	16.42	16.48	16.42	
15	QPSK	75	0	16.51	16.48	16.44	
15	16QAM	1	0	16.67	16.79	16.61	
15	16QAM	1	37	16.70	16.69	16.61	17.5
15	16QAM	1	74	16.58	16.60	16.59	
15	16QAM	36	0	15.54	15.54	15.45	
15	16QAM	36	20	15.52	15.46	15.48	
15	16QAM	36	39	15.42	15.38	15.30	16.5
15	16QAM	75	0	15.45	15.41	15.36	
15	64QAM	1	0	15.82	15.86	15.71	
15	64QAM	1	37	15.78	15.77	15.76	
15	64QAM	1	74	15.56	15.59	15.62	16.5
15	64QAM	36	0	14.63	14.75	14.70	
15	64QAM	36	20	14.62	14.69	14.66	
15	64QAM	36	39	14.59	14.67	14.65	
15	64QAM	75	0	14.55	14.60	14.66	
Channel				18650	18900	19150	
Frequency (MHz)				1855	1880	1905	Tune-up limit (dBm)
10	QPSK	1	0	17.37	17.34	17.34	18.5
10	QPSK	1	25	17.35	17.38	17.30	
10	QPSK	1	49	17.23	17.01	16.98	
10	QPSK	25	0	16.43	16.57	16.45	
10	QPSK	25	12	16.40	16.46	16.49	17.5
10	QPSK	25	25	16.41	16.49	16.35	
10	QPSK	50	0	16.43	16.46	16.47	
10	16QAM	1	0	16.68	16.79	16.62	
10	16QAM	1	25	16.67	16.69	16.61	17.5
10	16QAM	1	49	16.60	16.65	16.57	
10	16QAM	25	0	15.49	15.57	15.50	
10	16QAM	25	12	15.52	15.45	15.48	
10	16QAM	25	25	15.41	15.38	15.31	16.5
10	16QAM	50	0	15.44	15.46	15.43	
10	64QAM	1	0	15.85	15.85	15.72	
10	64QAM	1	25	15.83	15.77	15.73	
10	64QAM	1	49	15.54	15.60	15.53	16.5
10	64QAM	25	0	14.63	14.67	14.69	
10	64QAM	25	12	14.61	14.65	14.62	
10	64QAM	25	25	14.65	14.64	14.65	
10	64QAM	50	0	14.55	14.63	14.58	
Channel				18625	18900	19175	
Frequency (MHz)				1852.5	1880	1907.5	Tune-up limit (dBm)
5	QPSK	1	0	17.32	17.37	17.27	18.5
5	QPSK	1	12	17.29	17.30	17.26	
5	QPSK	1	24	17.15	16.97	16.97	
5	QPSK	12	0	16.46	16.56	16.49	
5	QPSK	12	7	16.39	16.49	16.45	17.5
5	QPSK	12	13	16.37	16.47	16.35	
5	QPSK	25	0	16.45	16.47	16.40	
5	16QAM	1	0	16.73	16.73	16.65	
5	16QAM	1	12	16.67	16.68	16.59	17.5
5	16QAM	1	24	16.61	16.66	16.60	
5	16QAM	12	0	15.47	15.57	15.46	
5	16QAM	12	7	15.51	15.52	15.43	
5	16QAM	12	13	15.37	15.43	15.35	16.5
5	16QAM	25	0	15.39	15.44	15.41	
5	64QAM	1	0	15.85	15.90	15.75	
5	64QAM	1	12	15.76	15.78	15.78	
5	64QAM	1	24	15.60	15.67	15.62	16.5
5	64QAM	12	0	14.63	14.76	14.68	
5	64QAM	12	7	14.65	14.63	14.67	
5	64QAM	12	13	14.60	14.67	14.59	
5	64QAM	25	0	14.60	14.65	14.60	
Channel				18615	18900	19185	
Frequency (MHz)				1851.5	1880	1908.5	Tune-up limit (dBm)
3	QPSK	1	0	17.36	17.40	17.31	18.5
3	QPSK	1	8	17.34	17.35	17.24	
3	QPSK	1	14	17.15	17.00	17.02	
3	QPSK	8	0	16.38	16.54	16.47	
3	QPSK	8	4	16.42	16.47	16.45	17.5
3	QPSK	8	7	16.41	16.45	16.36	

Band 4 (AWS Band) 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	18.33	18.35	18.26	19.5
20	QPSK	1	49	18.20	18.27	18.23	
20	QPSK	1	99	18.02	18.12	18.09	
20	QPSK	50	0	17.22	17.29	17.26	
20	QPSK	50	24	17.25	17.32	17.17	18.5
20	QPSK	50	50	17.19	17.18	17.18	
20	QPSK	100	0	17.20	17.29	17.26	
20	16QAM	1	0	17.32	17.36	17.30	
20	16QAM	1	49	17.25	17.29	17.21	18.5
20	16QAM	1	99	17.19	17.24	17.16	
20	16QAM	50	0	16.23	16.36	16.32	
20	16QAM	50	24	16.18	16.24	16.24	
20	16QAM	50	50	16.16	16.29	16.18	17.5
20	16QAM	100	0	16.22	16.31	16.30	
20	64QAM	1	0	16.63	16.61	16.59	
20	64QAM	1	49	16.55	16.58	16.58	
20	64QAM	1	99	16.44	16.50	16.49	17.5
20	64QAM	50	0	15.48	15.55	15.53	
20	64QAM	50	24	15.45	15.49	15.54	
20	64QAM	50	50	15.44	15.49	15.46	
20	64QAM	100	0	15.39	15.43	15.45	16.5
Channel				20025	20175	20325	
Frequency (MHz)				1717.5	1732.5	1747.5	Tune-up limit (dBm)
15	QPSK	1	0	18.34	18.34	18.26	19.5
15	QPSK	1	37	18.22	18.26	18.25	
15	QPSK	1	74	18.08	18.13	18.09	
15	QPSK	36	0	17.25	17.28	17.28	
15	QPSK	36	20	17.25	17.28	17.19	18.5
15	QPSK	36	39	17.16	17.25	17.16	
15	QPSK	75	0	17.25	17.25	17.25	
15	16QAM	1	0	17.34	17.34	17.28	
15	16QAM	1	37	17.23	17.32	17.27	18.5
15	16QAM	1	74	17.12	17.18	17.23	
15	16QAM	36	0	16.25	16.36	16.33	
15	16QAM	36	20	16.18	16.32	16.20	
15	16QAM	36	39	16.15	16.21	16.17	17.5
15	16QAM	75	0	16.24	16.32	16.30	
15	64QAM	1	0	16.61	16.66	16.64	
15	64QAM	1	37	16.51	16.54	16.58	
15	64QAM	1	74	16.40	16.46	16.42	17.5
15	64QAM	36	0	15.53	15.52	15.54	
15	64QAM	36	20	15.44	15.48	15.47	
15	64QAM	36	39	15.40	15.45	15.52	
15	64QAM	75	0	15.37	15.42	15.46	16.5
Channel				20000	20175	20350	
Frequency (MHz)				1715	1732.5	1750	Tune-up limit (dBm)
10	QPSK	1	0	18.32	18.22	18.24	19.5
10	QPSK	1	25	18.16	18.26	18.17	
10	QPSK	1	49	18.04	18.14	18.06	
10	QPSK	25	0	17.24	17.28	17.31	
10	QPSK	25	12	17.27	17.31	17.23	18.5
10	QPSK	25	25	17.21	17.24	17.16	
10	QPSK	50	0	17.27	17.27	17.22	
10	16QAM	1	0	17.28	17.34	17.22	
10	16QAM	1	25	17.28	17.33	17.26	18.5
10	16QAM	1	49	17.14	17.23	17.21	
10	16QAM	25	0	16.26	16.35	16.32	
10	16QAM	25	12	16.22	16.33	16.28	
10	16QAM	25	25	16.15	16.23	16.17	17.5
10	16QAM	50	0	16.21	16.29	16.28	
10	64QAM	1	0	16.59	16.67	16.56	
10	64QAM	1	25	16.49	16.52	16.59	
10	64QAM	1	49	16.42	16.52	16.49	17.5
10	64QAM	25	0	15.52	15.58	15.57	
10	64QAM	25	12	15.43	15.49	15.53	
10	64QAM	25	25	15.44	15.46	15.43	
10	64QAM	50	0	15.38	15.50	15.42	16.5
Channel				19975	20175	20375	
Frequency (MHz)				1712.5	1732.5	1752.5	Tune-up limit (dBm)
5	QPSK	1	0	18.31	18.33	18.23	19.5
5	QPSK	1	12	18.22	18.32	18.18	
5	QPSK	1	24	18.08	18.13	18.12	
5	QPSK	12	0	17.21	17.29	17.27	
5	QPSK	12	7	17.29	17.31	17.18	18.5
5	QPSK	12	13	17.18	17.27	17.20	
5	QPSK	25	0	17.23	17.24	17.27	
5	16QAM	1	0	17.27	17.36	17.21	
5	16QAM	1	12	17.27	17.34	17.24	18.5
5	16QAM	1	24	17.17	17.17	17.20	
5	16QAM	12	0	16.27	16.36	16.27	
5	16QAM	12	7	16.23	16.27	16.24	
5	16QAM	12	13	16.16	16.22	16.26	17.5
5	16QAM	25	0	16.27	16.32	16.27	
5	64QAM	1	0	16.59	16.65	16.59	
5	64QAM	1	12	16.54	16.52	16.58	
5	64QAM	1	24	16.42	16.53	16.50	17.5
5	64QAM	12	0	15.55	15.58	15.57	
5	64QAM	12	7	15.46	15.48	15.52	
5	64QAM	12	13	15.42	15.46	15.46	
5	64QAM	25	0	15.34	15.44	15.39	16.5
Channel				19965	20175	20385	
Frequency (MHz)				1711.5	1732.5	1753.5	Tune-up limit (dBm)
3	QPSK	1	0	18.27	18.27	18.28	19.5
3	QPSK	1	8	18.15	18.28	18.19	
3	QPSK	1	14	18.01	18.16	18.11	
3	QPSK	8	0	17.25	17.25	17.24	
3	QPSK	8	4	17.21	17.27	17.26	18.5
3	QPSK	8	7	17.23	17.19	17.23	

3	QPSK	15	0	16.43	16.52	16.39	17.5
3	16QAM	1	0	16.65	16.75	16.66	
3	16QAM	1	8	16.63	16.69	16.59	
3	16QAM	1	14	16.60	16.60	16.63	16.5
3	16QAM	8	0	15.46	15.57	15.44	
3	16QAM	8	4	15.50	15.45	15.45	
3	16QAM	8	7	15.40	15.45	15.34	16.5
3	16QAM	15	0	15.37	15.40	15.45	
3	64QAM	1	0	15.85	15.84	15.68	
3	64QAM	1	8	15.80	15.75	15.70	15.5
3	64QAM	1	14	15.56	15.64	15.60	
3	64QAM	8	0	14.71	14.72	14.72	
3	64QAM	8	4	14.60	14.68	14.62	15.5
3	64QAM	8	7	14.56	14.65	14.59	
3	64QAM	15	0	14.57	14.65	14.59	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	17.29	17.35	17.30	18.5
1.4	QPSK	1	3	17.26	17.26	17.25	
1.4	QPSK	1	5	17.16	17.03	16.97	
1.4	QPSK	3	0	17.29	17.18	17.31	
1.4	QPSK	3	1	17.16	17.20	17.26	
1.4	QPSK	3	3	17.33	17.32	17.38	
1.4	QPSK	6	0	16.42	16.44	16.45	17.5
1.4	16QAM	1	0	16.70	16.80	16.57	17.5
1.4	16QAM	1	3	16.67	16.69	16.63	
1.4	16QAM	1	5	16.58	16.54	16.55	
1.4	16QAM	3	0	16.54	16.46	16.51	
1.4	16QAM	3	1	16.46	16.44	16.45	
1.4	16QAM	3	3	16.41	16.35	16.27	
1.4	16QAM	6	0	15.43	15.36	15.36	16.5
1.4	64QAM	1	0	15.81	15.81	15.67	16.5
1.4	64QAM	1	3	15.76	15.78	15.70	
1.4	64QAM	1	5	15.58	15.63	15.58	
1.4	64QAM	3	0	15.63	15.60	15.55	
1.4	64QAM	3	1	15.62	15.63	15.52	
1.4	64QAM	3	3	15.52	15.57	15.58	
1.4	64QAM	6	0	14.51	14.61	14.62	15.5

3	QPSK	15	0	17.21	17.24	17.26	18.5
3	16QAM	1	0	17.31	17.35	17.23	
3	16QAM	1	8	17.21	17.32	17.27	
3	16QAM	1	14	17.12	17.20	17.18	17.5
3	16QAM	8	0	16.25	16.28	16.26	
3	16QAM	8	4	16.24	16.32	16.28	
3	16QAM	8	7	16.18	16.22	16.24	17.5
3	16QAM	15	0	16.23	16.30	16.35	
3	64QAM	1	0	16.57	16.68	16.61	
3	64QAM	1	8	16.53	16.56	16.56	16.5
3	64QAM	1	14	16.40	16.49	16.42	
3	64QAM	8	0	15.46	15.54	15.58	
3	64QAM	8	4	15.45	15.48	15.49	16.5
3	64QAM	8	7	15.46	15.45	15.46	
3	64QAM	15	0	15.43	15.44	15.46	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	18.29	18.35	18.19	19.5
1.4	QPSK	1	3	18.11	18.25	18.14	
1.4	QPSK	1	5	17.94	17.96	18.04	
1.4	QPSK	3	0	18.04	18.06	18.03	
1.4	QPSK	3	1	17.93	18.04	17.96	
1.4	QPSK	3	3	17.89	17.98	17.88	
1.4	QPSK	6	0	17.24	17.14	17.13	18.5
1.4	16QAM	1	0	17.20	17.21	17.11	18.5
1.4	16QAM	1	3	17.14	17.27	17.23	
1.4	16QAM	1	5	17.05	17.09	17.07	
1.4	16QAM	3	0	16.89	16.99	16.98	
1.4	16QAM	3	1	16.99	16.99	16.87	
1.4	16QAM	3	3	16.93	17.05	16.94	
1.4	16QAM	6	0	16.18	16.26	16.14	17.5
1.4	64QAM	1	0	16.51	16.54	16.56	17.5
1.4	64QAM	1	3	16.40	16.41	16.47	
1.4	64QAM	1	5	16.34	16.36	16.39	
1.4	64QAM	3	0	16.26	16.32	16.19	
1.4	64QAM	3	1	16.26	16.23	16.18	
1.4	64QAM	3	3	16.03	16.17	16.22	
1.4	64QAM	6	0	15.38	15.48	15.39	16.5

Band 5 (Celluar Band) 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	
Frequency (MHz)				829	836.5	844	22
10	QPSK	1	0	20.84	20.88	20.85	
10	QPSK	1	25	20.77	20.80	20.82	
10	QPSK	1	49	20.73	20.76	20.75	
10	QPSK	25	0	19.88	19.96	19.92	21
10	QPSK	25	12	19.79	19.90	19.91	
10	QPSK	25	25	19.72	19.77	19.84	
10	QPSK	50	0	19.85	19.84	19.79	
10	16QAM	1	0	19.85	19.91	19.88	21
10	16QAM	1	25	19.84	19.91	19.81	
10	16QAM	1	49	19.81	19.83	19.78	
10	16QAM	25	0	18.70	18.77	18.74	
10	16QAM	25	12	18.75	18.77	18.70	20
10	16QAM	25	25	18.67	18.74	18.74	
10	16QAM	50	0	18.85	18.85	18.77	
10	64QAM	1	0	18.93	18.97	18.96	
10	64QAM	1	25	18.90	18.95	18.96	20
10	64QAM	1	49	18.98	18.91	18.95	
10	64QAM	25	0	17.93	17.95	17.90	
10	64QAM	25	12	17.90	17.85	17.85	
10	64QAM	25	25	17.87	17.88	17.89	19
10	64QAM	50	0	17.83	17.82	17.78	
Channel				20425	20525	20625	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	QPSK	1	0	20.83	20.82	20.86	22
5	QPSK	1	12	20.72	20.84	20.80	
5	QPSK	1	24	20.68	20.81	20.75	
5	QPSK	12	0	19.85	19.94	19.92	
5	QPSK	12	7	19.82	19.86	19.88	21
5	QPSK	12	13	19.80	19.82	19.78	
5	QPSK	25	0	19.79	19.89	19.77	
5	16QAM	1	0	19.85	19.88	19.85	
5	16QAM	1	12	19.80	19.85	19.84	21
5	16QAM	1	24	19.77	19.80	19.77	
5	16QAM	12	0	18.71	18.76	18.75	
5	16QAM	12	7	18.72	18.79	18.71	
5	16QAM	12	13	18.71	18.81	18.75	20
5	16QAM	25	0	18.81	18.82	18.76	
5	64QAM	1	0	19.01	18.97	18.98	
5	64QAM	1	12	18.95	18.94	18.94	
5	64QAM	1	24	18.99	18.94	18.94	20
5	64QAM	12	0	17.89	17.99	17.87	
5	64QAM	12	7	17.84	17.89	17.85	
5	64QAM	12	13	17.80	17.90	17.87	
5	64QAM	25	0	17.85	17.89	17.83	19
Channel				20415	20525	20635	
Frequency (MHz)				825.5	836.5	847.5	Tune-up limit (dBm)
3	QPSK	1	0	20.82	20.81	20.79	
3	QPSK	1	8	20.79	20.77	20.81	22
3	QPSK	1	14	20.76	20.79	20.76	
3	QPSK	8	0	19.90	19.98	19.91	
3	QPSK	8	4	19.80	19.91	19.83	
3	QPSK	8	7	19.78	19.78	19.76	21
3	QPSK	15	0	19.86	19.83	19.84	
3	16QAM	1	0	19.79	19.91	19.85	
3	16QAM	1	8	19.84	19.90	19.85	
3	16QAM	1	14	19.76	19.87	19.76	21
3	16QAM	8	0	18.72	18.78	18.74	
3	16QAM	8	4	18.68	18.80	18.67	
3	16QAM	8	7	18.75	18.74	18.74	
3	16QAM	15	0	18.76	18.86	18.73	20
3	64QAM	1	0	18.94	18.98	18.94	
3	64QAM	1	8	18.96	18.98	19.01	
3	64QAM	1	14	18.96	18.96	18.91	
3	64QAM	8	0	17.89	17.94	17.91	19
3	64QAM	8	4	17.85	17.86	17.88	
3	64QAM	8	7	17.85	17.88	17.85	
3	64QAM	15	0	17.78	17.82	17.83	
Channel				20407	20525	20643	Tune-up limit (dBm)
Frequency (MHz)				824.7	836.5	848.3	
1.4	QPSK	1	0	20.78	20.75	20.74	22
1.4	QPSK	1	3	20.75	20.73	20.71	
1.4	QPSK	1	5	20.59	20.63	20.77	
1.4	QPSK	3	0	20.61	20.71	20.58	
1.4	QPSK	3	1	20.54	20.64	20.70	21
1.4	QPSK	3	3	20.44	20.49	20.52	
1.4	QPSK	6	0	19.72	19.73	19.72	
1.4	16QAM	1	0	19.79	19.90	19.75	
1.4	16QAM	1	3	19.80	19.72	19.69	21
1.4	16QAM	1	5	19.83	19.75	19.74	
1.4	16QAM	3	0	19.50	19.54	19.49	
1.4	16QAM	3	1	19.53	19.50	19.41	
1.4	16QAM	3	3	19.35	19.53	19.46	20
1.4	16QAM	6	0	18.77	18.74	18.72	
1.4	64QAM	1	0	19.11	19.02	18.91	
1.4	64QAM	1	3	19.03	18.99	19.07	
1.4	64QAM	1	5	18.89	18.92	18.96	20
1.4	64QAM	3	0	18.78	18.76	18.82	
1.4	64QAM	3	1	18.76	18.76	18.61	
1.4	64QAM	3	3	18.62	18.75	18.66	
1.4	64QAM	6	0	17.78	17.87	17.84	19

Band 7 (2600MHz Band) Part 27							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20850	21100	21350	
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	18.85	18.89	18.87	20
20	QPSK	1	49	18.73	18.79	18.80	
20	QPSK	1	99	18.70	18.79	18.71	
20	QPSK	50	0	17.82	17.87	17.84	
20	QPSK	50	24	17.66	17.78	17.70	19
20	QPSK	50	50	17.58	17.70	17.61	
20	QPSK	100	0	17.66	17.76	17.63	
20	16QAM	1	0	17.76	17.92	17.79	
20	16QAM	1	49	17.74	17.88	17.86	19
20	16QAM	1	99	17.74	17.81	17.80	
20	16QAM	50	0	16.81	16.86	16.81	
20	16QAM	50	24	16.74	16.79	16.77	
20	16QAM	50	50	16.70	16.76	16.65	18
20	16QAM	100	0	16.78	16.83	16.77	
20	64QAM	1	0	17.04	17.08	17.05	
20	64QAM	1	49	16.96	17.01	16.94	
20	64QAM	1	99	17.00	16.95	16.94	18
20	64QAM	50	0	16.11	16.20	16.07	
20	64QAM	50	24	15.98	16.12	15.94	
20	64QAM	50	50	15.96	16.00	15.96	
20	64QAM	100	0	16.09	16.07	15.97	17
Channel				20825	21100	21375	
Frequency (MHz)				2507.5	2535	2562.5	Tune-up limit (dBm)
15	QPSK	1	0	18.78	18.82	18.83	20
15	QPSK	1	37	18.76	18.82	18.73	
15	QPSK	1	74	18.66	18.79	18.75	
15	QPSK	36	0	17.76	17.81	17.77	
15	QPSK	36	20	17.70	17.79	17.75	19
15	QPSK	36	39	17.65	17.72	17.67	
15	QPSK	75	0	17.67	17.70	17.66	
15	16QAM	1	0	17.78	17.88	17.82	
15	16QAM	1	37	17.74	17.93	17.85	19
15	16QAM	1	74	17.76	17.90	17.82	
15	16QAM	36	0	16.76	16.84	16.79	
15	16QAM	36	20	16.72	16.75	16.68	
15	16QAM	36	39	16.72	16.79	16.69	18
15	16QAM	75	0	16.84	16.80	16.82	
15	64QAM	1	0	17.09	17.06	17.03	
15	64QAM	1	37	17.02	16.96	16.93	
15	64QAM	1	74	16.94	16.96	16.92	17
15	64QAM	36	0	16.13	16.12	16.04	
15	64QAM	36	20	16.02	16.05	15.96	
15	64QAM	36	39	15.99	16.00	16.03	
15	64QAM	75	0	16.01	16.06	15.92	17
Channel				20800	21100	21400	
Frequency (MHz)				2505	2535	2565	Tune-up limit (dBm)
10	QPSK	1	0	18.78	18.85	18.76	20
10	QPSK	1	25	18.79	18.77	18.80	
10	QPSK	1	49	18.68	18.74	18.74	
10	QPSK	25	0	17.79	17.77	17.76	
10	QPSK	25	12	17.75	17.78	17.76	19
10	QPSK	25	25	17.65	17.72	17.66	
10	QPSK	50	0	17.65	17.75	17.71	
10	16QAM	1	0	17.81	17.95	17.88	
10	16QAM	1	25	17.82	17.92	17.87	19
10	16QAM	1	49	17.75	17.90	17.77	
10	16QAM	25	0	16.74	16.84	16.76	
10	16QAM	25	12	16.73	16.74	16.74	
10	16QAM	25	25	16.65	16.73	16.73	18
10	16QAM	50	0	16.84	16.86	16.86	
10	64QAM	1	0	17.09	17.11	17.08	
10	64QAM	1	25	17.04	16.96	16.93	
10	64QAM	1	49	16.97	16.99	16.92	18
10	64QAM	25	0	16.09	16.15	16.12	
10	64QAM	25	12	16.02	16.05	15.92	
10	64QAM	25	25	16.03	16.09	16.01	
10	64QAM	50	0	16.00	16.10	15.89	17
Channel				20775	21100	21425	
Frequency (MHz)				2502.5	2535	2567.5	Tune-up limit (dBm)
5	QPSK	1	0	18.69	18.77	18.68	20
5	QPSK	1	12	18.75	18.66	18.65	
5	QPSK	1	24	18.60	18.72	18.69	
5	QPSK	12	0	17.64	17.67	17.68	
5	QPSK	12	7	17.55	17.68	17.53	19
5	QPSK	12	13	17.52	17.73	17.63	
5	QPSK	25	0	17.48	17.52	17.63	
5	16QAM	1	0	17.73	17.90	17.73	
5	16QAM	1	12	17.74	17.85	17.80	19
5	16QAM	1	24	17.72	17.79	17.63	
5	16QAM	12	0	16.72	16.73	16.68	
5	16QAM	12	7	16.73	16.72	16.58	
5	16QAM	12	13	16.62	16.68	16.60	18
5	16QAM	25	0	16.74	16.84	16.72	
5	64QAM	1	0	16.93	17.06	16.91	
5	64QAM	1	12	17.01	16.87	16.92	
5	64QAM	1	24	16.81	16.80	16.93	17
5	64QAM	12	0	16.03	16.07	15.93	
5	64QAM	12	7	15.97	16.01	15.85	
5	64QAM	12	13	15.96	16.05	15.95	
5	64QAM	25	0	15.98	16.09	15.84	

Band 13(700MHz Band) Part 27F							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				23230			
Frequency (MHz)				782			
10	QPSK	1	0		21.48		22.5
10	QPSK	1	25		21.33		
10	QPSK	1	49		21.26		
10	QPSK	25	0		20.44		21.5
10	QPSK	25	12		20.25		
10	QPSK	25	25		20.22		
10	QPSK	50	0		20.25		21.5
10	16QAM	1	0		20.35		
10	16QAM	1	25		20.34		
10	16QAM	1	49		20.26		20.5
10	16QAM	25	0		19.23		
10	16QAM	25	12		19.20		
10	16QAM	25	25		19.21		20.5
10	16QAM	50	0		19.16		
10	64QAM	1	0		19.42		
10	64QAM	1	25		19.40		20.5
10	64QAM	1	49		19.44		
10	64QAM	25	0		18.45		
10	64QAM	25	12		18.36		19.5
10	64QAM	25	25		18.36		
10	64QAM	50	0		18.36		
Channel				23205	23230	23255	Tune-up limit (dBm)
Frequency (MHz)				779.5	782	784.5	
5	QPSK	1	0	21.28	21.35	21.21	22.5
5	QPSK	1	12	21.18	21.13	21.24	
5	QPSK	1	24	21.19	21.19	21.12	
5	QPSK	12	0	20.18	20.18	20.18	21.5
5	QPSK	12	7	20.25	20.25	20.23	
5	QPSK	12	13	20.25	20.20	20.20	
5	QPSK	25	0	20.07	20.10	20.09	21.5
5	16QAM	1	0	20.26	20.39	20.26	
5	16QAM	1	12	20.35	20.28	20.22	
5	16QAM	1	24	20.25	20.24	20.25	20.5
5	16QAM	12	0	19.15	19.09	19.10	
5	16QAM	12	7	19.07	19.01	19.16	
5	16QAM	12	13	19.13	19.16	19.04	20.5
5	16QAM	25	0	18.99	19.06	19.04	
5	64QAM	1	0	19.34	19.37	19.38	
5	64QAM	1	12	19.39	19.32	19.33	20.5
5	64QAM	1	24	19.43	19.42	19.29	
5	64QAM	12	0	18.30	18.42	18.41	
5	64QAM	12	7	18.31	18.40	18.41	19.5
5	64QAM	12	13	18.31	18.23	18.27	
5	64QAM	25	0	18.33	18.22	18.29	

Band 26 for FCC (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	
Frequency (MHz)				821.5	831.5	841.5	22
15	QPSK	1	0	20.89	20.96	20.93	
15	QPSK	1	37	20.88	20.90	20.81	21
15	QPSK	1	74	20.85	20.91	20.83	
15	QPSK	36	0	19.95	20.00	19.97	21
15	QPSK	36	20	19.87	19.94	19.85	
15	QPSK	36	39	19.86	19.84	19.84	21
15	QPSK	75	0	19.78	19.90	19.87	
15	16QAM	1	0	19.90	19.88	19.88	21
15	16QAM	1	37	19.83	19.89	19.84	
15	16QAM	1	74	19.85	19.94	19.86	20
15	16QAM	36	0	18.86	18.88	18.84	
15	16QAM	36	20	18.90	18.85	18.77	20
15	16QAM	36	39	18.84	18.82	18.81	
15	16QAM	75	0	18.82	18.80	18.83	20
15	64QAM	1	0	19.14	19.12	19.01	
15	64QAM	1	37	19.05	19.03	19.06	20
15	64QAM	1	74	18.94	18.97	18.98	
15	64QAM	36	0	18.11	18.06	18.09	19
15	64QAM	36	20	17.99	18.08	18.05	
15	64QAM	36	39	18.07	18.08	17.97	19
15	64QAM	75	0	17.99	18.06	17.95	
Channel				26740	26865	26990	Tune-up limit (dBm)
Frequency (MHz)				819	831.5	844	
10	QPSK	1	0	20.84	20.91	20.88	22
10	QPSK	1	25	20.80	20.92	20.87	
10	QPSK	1	49	20.79	20.88	20.81	21
10	QPSK	25	0	19.96	20.00	19.95	
10	QPSK	25	12	19.87	19.93	19.91	21
10	QPSK	25	25	19.84	19.84	19.90	
10	QPSK	50	0	19.82	19.90	19.79	21
10	16QAM	1	0	19.87	19.95	19.91	
10	16QAM	1	25	19.80	19.85	19.85	20
10	16QAM	1	49	19.84	19.86	19.82	
10	16QAM	25	0	18.91	18.90	18.76	20
10	16QAM	25	12	18.85	18.87	18.81	
10	16QAM	25	25	18.86	18.81	18.83	20
10	16QAM	50	0	18.79	18.85	18.84	
10	64QAM	1	0	19.08	19.15	19.06	20
10	64QAM	1	25	19.06	19.11	19.03	
10	64QAM	1	49	19.00	18.99	18.98	19
10	64QAM	25	0	18.04	18.08	18.09	
10	64QAM	25	12	18.05	18.03	18.00	19
10	64QAM	25	25	18.03	18.05	17.97	
10	64QAM	50	0	17.97	18.05	18.00	22
Channel				26715	26865	27015	
Frequency (MHz)				816.5	831.5	846.5	22
5	QPSK	1	0	20.90	20.94	20.94	
5	QPSK	1	12	20.86	20.85	20.84	21
5	QPSK	1	24	20.84	20.87	20.85	
5	QPSK	12	0	19.96	19.93	19.91	21
5	QPSK	12	7	19.93	19.91	19.87	
5	QPSK	12	13	19.84	19.93	19.88	21
5	QPSK	25	0	19.82	19.95	19.86	
5	16QAM	1	0	19.86	19.96	19.94	20
5	16QAM	1	12	19.89	19.88	19.83	
5	16QAM	1	24	19.80	19.93	19.87	20
5	16QAM	12	0	18.84	18.91	18.75	
5	16QAM	12	7	18.89	18.89	18.76	20
5	16QAM	12	13	18.82	18.82	18.81	
5	16QAM	25	0	18.77	18.83	18.81	20
5	64QAM	1	0	19.10	19.15	19.06	
5	64QAM	1	12	19.03	19.12	19.00	19
5	64QAM	1	24	18.98	19.06	19.05	
5	64QAM	12	0	18.10	18.07	18.05	19
5	64QAM	12	7	18.03	18.09	18.02	
5	64QAM	12	13	18.00	18.01	17.98	22
5	64QAM	25	0	17.99	18.00	17.95	
Channel				26705	26865	27025	Tune-up limit (dBm)
Frequency (MHz)				815.5	831.5	847.5	
3	QPSK	1	0	20.92	20.88	20.90	22
3	QPSK	1	8	20.84	20.90	20.80	
3	QPSK	1	14	20.78	20.83	20.81	21
3	QPSK	8	0	19.89	19.98	19.98	
3	QPSK	8	4	19.91	19.91	19.89	21
3	QPSK	8	7	19.87	19.93	19.84	
3	QPSK	15	0	19.76	19.87	19.85	21
3	16QAM	1	0	19.88	19.90	19.94	
3	16QAM	1	8	19.89	19.84	19.87	20
3	16QAM	1	14	19.80	19.85	19.81	
3	16QAM	8	0	18.92	18.87	18.84	20
3	16QAM	8	4	18.88	18.84	18.79	
3	16QAM	8	7	18.82	18.85	18.82	20
3	16QAM	15	0	18.83	18.87	18.82	
3	64QAM	1	0	19.05	19.13	19.09	20
3	64QAM	1	8	19.03	19.11	19.02	
3	64QAM	1	14	19.00	19.04	19.03	19
3	64QAM	8	0	18.11	18.14	18.07	
3	64QAM	8	4	17.99	18.05	18.05	22
3	64QAM	8	7	18.04	18.09	17.97	
3	64QAM	15	0	17.96	18.06	18.03	22
Channel				26697	26865	27033	
Frequency (MHz)				814.7	831.5	848.3	
1.4	QPSK	1	0	20.68	20.66	20.72	22
1.4	QPSK	1	3	20.64	20.67	20.68	
1.4	QPSK	1	5	20.55	20.59	20.61	22
1.4	QPSK	3	0	19.69	19.75	19.66	
1.4	QPSK	3	1	19.66	19.68	19.60	22
1.4	QPSK	3	3	19.60	19.62	19.63	

1.4	QPSK	6	0	19.54	19.70	19.61	21
1.4	16QAM	1	0	19.62	19.72	19.61	21
1.4	16QAM	1	3	19.63	19.63	19.59	
1.4	16QAM	1	5	19.58	19.66	19.59	
1.4	16QAM	3	0	18.62	18.64	18.60	
1.4	16QAM	3	1	18.61	18.60	18.54	
1.4	16QAM	3	3	18.63	18.61	18.58	
1.4	16QAM	6	0	18.53	18.59	18.57	20
1.4	64QAM	1	0	18.94	18.95	18.89	20
1.4	64QAM	1	3	18.85	18.91	18.85	
1.4	64QAM	1	5	18.72	18.80	18.82	
1.4	64QAM	3	0	17.87	17.92	17.91	
1.4	64QAM	3	1	17.86	17.91	17.84	
1.4	64QAM	3	3	17.88	17.87	17.80	
1.4	64QAM	6	0	17.76	17.90	17.83	19

Band 66

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				132072	132322	132572	19
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	17.92	17.95	17.88	19
20	QPSK	1	49	17.78	17.84	17.85	
20	QPSK	1	99	17.79	17.85	17.87	
20	QPSK	50	0	16.93	16.96	16.92	
20	QPSK	50	24	16.79	16.91	16.80	18
20	QPSK	50	50	16.77	16.82	16.78	
20	QPSK	100	0	16.90	16.86	16.84	
20	16QAM	1	0	16.83	16.85	16.81	
20	16QAM	1	49	16.78	16.81	16.79	18
20	16QAM	1	99	16.68	16.78	16.80	
20	16QAM	50	0	15.97	16.00	15.95	
20	16QAM	50	24	15.89	15.99	15.90	
20	16QAM	50	50	15.74	15.89	15.78	17
20	16QAM	100	0	15.70	15.87	15.76	
20	64QAM	1	0	16.03	16.05	16.07	
20	64QAM	1	49	15.92	16.01	16.05	
20	64QAM	1	99	16.04	16.06	16.02	17
20	64QAM	50	0	15.03	15.14	15.11	
20	64QAM	50	24	15.03	15.06	15.06	
20	64QAM	50	50	15.00	14.96	14.91	
20	64QAM	100	0	15.01	15.05	15.04	16
Channel				132047	132322	132597	
Frequency (MHz)				1717.5	1745	1772.5	19
15	QPSK	1	0	17.86	17.90	17.84	
15	QPSK	1	37	17.76	17.82	17.84	18
15	QPSK	1	74	17.72	17.79	17.82	
15	QPSK	36	0	16.84	16.89	16.85	
15	QPSK	36	20	16.76	16.88	16.71	
15	QPSK	36	39	16.75	16.79	16.71	18
15	QPSK	75	0	16.85	16.81	16.79	
15	16QAM	1	0	16.80	16.76	16.74	
15	16QAM	1	37	16.76	16.80	16.75	
15	16QAM	1	74	16.62	16.76	16.70	17
15	16QAM	36	0	15.94	15.95	15.88	
15	16QAM	36	20	15.86	15.93	15.89	
15	16QAM	36	39	15.70	15.79	15.74	
15	16QAM	75	0	15.67	15.80	15.66	17
15	64QAM	1	0	15.94	15.95	16.03	
15	64QAM	1	37	15.87	15.96	16.04	
15	64QAM	1	74	16.02	16.01	15.95	
15	64QAM	36	0	14.98	15.09	15.08	16
15	64QAM	36	20	14.95	15.01	15.01	
15	64QAM	36	39	14.98	14.92	14.87	
15	64QAM	75	0	14.96	15.04	15.03	
Channel				132022	132322	132622	19
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	17.87	17.94	17.83	19
10	QPSK	1	25	17.70	17.81	17.75	
10	QPSK	1	49	17.74	17.78	17.85	
10	QPSK	25	0	16.86	16.86	16.84	
10	QPSK	25	12	16.77	16.81	16.79	18
10	QPSK	25	25	16.74	16.77	16.68	
10	QPSK	50	0	16.80	16.81	16.76	
10	16QAM	1	0	16.82	16.84	16.79	
10	16QAM	1	25	16.74	16.71	16.71	18
10	16QAM	1	49	16.61	16.76	16.77	
10	16QAM	25	0	15.88	15.90	15.87	
10	16QAM	25	12	15.83	15.89	15.80	
10	16QAM	25	25	15.66	15.86	15.68	17
10	16QAM	50	0	15.69	15.82	15.75	
10	64QAM	1	0	15.95	15.99	16.01	
10	64QAM	1	25	15.84	15.97	15.98	
10	64QAM	1	49	15.94	15.96	15.94	17
10	64QAM	25	0	14.96	15.05	15.01	
10	64QAM	25	12	14.95	14.96	14.97	
10	64QAM	25	25	14.91	14.89	14.90	
10	64QAM	50	0	14.97	15.03	15.02	16
Channel				131997	132322	132647	
Frequency (MHz)				1712.5	1745	1777.5	19
5	QPSK	1	0	17.82	17.88	17.85	
5	QPSK	1	12	17.72	17.82	17.75	18
5	QPSK	1	24	17.75	17.81	17.80	
5	QPSK	12	0	16.91	16.90	16.88	
5	QPSK	12	7	16.72	16.88	16.75	
5	QPSK	12	13	16.68	16.74	16.75	18
5	QPSK	25	0	16.80	16.83	16.76	
5	16QAM	1	0	16.82	16.77	16.71	
5	16QAM	1	12	16.72	16.74	16.70	
5	16QAM	1	24	16.65	16.72	16.73	17
5	16QAM	12	0	15.91	15.90	15.85	
5	16QAM	12	7	15.79	15.97	15.87	
5	16QAM	12	13	15.69	15.83	15.73	
5	16QAM	25	0	15.60	15.85	15.71	17
5	64QAM	1	0	15.98	15.97	16.01	
5	64QAM	1	12	15.85	16.00	16.01	
5	64QAM	1	24	16.03	16.01	15.98	
5	64QAM	12	0	15.02	15.05	15.04	16
5	64QAM	12	7	15.01	15.00	14.96	
5	64QAM	12	13	14.96	14.87	14.89	
5	64QAM	25	0	14.96	14.96	14.95	
Channel				131987	132322	132657	19
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	17.86	17.87	17.84	19
3	QPSK	1	8	17.69	17.76	17.81	
3	QPSK	1	14	17.69	17.83	17.83	
3	QPSK	8	0	16.84	16.86	16.86	
3	QPSK	8	4	16.73	16.83	16.77	18
3	QPSK	8	7	16.73	16.78	16.70	

3	QPSK	15	0	16.84	16.79	16.77	18
3	16QAM	1	0	16.82	16.76	16.79	
3	16QAM	1	8	16.73	16.77	16.71	
3	16QAM	1	14	16.66	16.71	16.78	17
3	16QAM	8	0	15.90	15.95	15.91	
3	16QAM	8	4	15.82	15.92	15.82	
3	16QAM	8	7	15.67	15.85	15.68	17
3	16QAM	15	0	15.65	15.83	15.67	
3	64QAM	1	0	16.00	16.01	15.99	
3	64QAM	1	8	15.86	15.95	16.00	16
3	64QAM	1	14	15.99	15.99	16.00	
3	64QAM	8	0	14.99	15.04	15.03	
3	64QAM	8	4	15.02	15.01	15.04	16
3	64QAM	8	7	14.91	14.90	14.87	
3	64QAM	15	0	14.92	15.01	14.95	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	17.71	17.75	17.73	19
1.4	QPSK	1	3	17.69	17.72	17.70	
1.4	QPSK	1	5	17.55	17.74	17.65	
1.4	QPSK	3	0	17.42	17.60	17.44	
1.4	QPSK	3	1	17.37	17.49	17.55	
1.4	QPSK	3	3	17.47	17.56	17.48	
1.4	QPSK	6	0	16.63	16.69	16.68	18
1.4	16QAM	1	0	16.67	16.72	16.68	18
1.4	16QAM	1	3	16.59	16.63	16.57	
1.4	16QAM	1	5	16.45	16.59	16.60	
1.4	16QAM	3	0	16.62	16.61	16.60	
1.4	16QAM	3	1	16.55	16.67	16.60	
1.4	16QAM	3	3	16.48	16.52	16.50	
1.4	16QAM	6	0	16.44	16.39	16.33	17
1.4	64QAM	1	0	15.79	15.91	15.91	17
1.4	64QAM	1	3	15.86	15.83	15.90	
1.4	64QAM	1	5	15.81	15.91	15.79	
1.4	64QAM	3	0	15.82	15.81	15.81	
1.4	64QAM	3	1	15.73	15.81	15.70	
1.4	64QAM	3	3	15.71	15.73	15.57	
1.4	64QAM	6	0	14.78	14.92	14.92	16

Band 38(only on channel required)							
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	22.5
20	QPSK	1	0	21.29	21.35	21.32	
20	QPSK	1	49	21.19	21.32	21.23	21.5
20	QPSK	1	99	21.12	21.24	21.14	
20	QPSK	50	0	20.27	20.31	20.29	21.5
20	QPSK	50	24	20.20	20.24	20.11	
20	QPSK	50	50	20.11	20.20	20.05	21.5
20	QPSK	100	0	20.07	20.11	20.08	
20	16QAM	1	0	20.33	20.30	20.33	20.5
20	16QAM	1	49	20.24	20.29	20.27	
20	16QAM	1	99	20.18	20.23	20.22	20.5
20	16QAM	50	0	19.31	19.34	19.28	
20	16QAM	50	24	19.22	19.27	19.19	20.5
20	16QAM	50	50	19.23	19.27	19.17	
20	16QAM	100	0	19.07	19.21	19.09	20.5
20	64QAM	1	0	19.52	19.54	19.50	
20	64QAM	1	49	19.46	19.51	19.48	19.5
20	64QAM	1	99	19.42	19.38	19.43	
20	64QAM	50	0	18.44	18.39	18.35	19.5
20	64QAM	50	24	18.36	18.36	18.37	
20	64QAM	50	50	18.28	18.35	18.26	19.5
20	64QAM	100	0	18.50	18.47	18.41	
Channel				37825	38000	38175	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	21.25	21.34	21.25	22.5
15	QPSK	1	37	21.25	21.26	21.23	
15	QPSK	1	74	21.15	21.24	21.12	21.5
15	QPSK	36	0	20.21	20.19	20.22	
15	QPSK	36	20	20.14	20.23	20.18	21.5
15	QPSK	36	39	20.12	20.21	20.05	
15	QPSK	75	0	20.04	20.15	20.02	21.5
15	16QAM	1	0	20.28	20.31	20.28	
15	16QAM	1	37	20.25	20.29	20.29	20.5
15	16QAM	1	74	20.18	20.22	20.19	
15	16QAM	36	0	19.29	19.31	19.22	20.5
15	16QAM	36	20	19.23	19.24	19.21	
15	16QAM	36	39	19.17	19.22	19.21	20.5
15	16QAM	75	0	19.13	19.14	19.13	
15	64QAM	1	0	19.47	19.50	19.52	19.5
15	64QAM	1	37	19.52	19.47	19.48	
15	64QAM	1	74	19.44	19.42	19.38	19.5
15	64QAM	36	0	18.41	18.45	18.37	
15	64QAM	36	20	18.38	18.41	18.36	19.5
15	64QAM	36	39	18.32	18.38	18.27	
15	64QAM	75	0	18.46	18.51	18.42	Tune-up limit (dBm)
Channel				37800	38000	38200	
Frequency (MHz)				2575	2595	2615	22.5
10	QPSK	1	0	21.26	21.30	21.33	
10	QPSK	1	25	21.19	21.23	21.27	21.5
10	QPSK	1	49	21.08	21.24	21.13	
10	QPSK	25	0	20.21	20.26	20.13	21.5
10	QPSK	25	12	20.19	20.21	20.19	
10	QPSK	25	25	20.16	20.20	20.12	21.5
10	QPSK	50	0	20.09	20.12	20.07	
10	16QAM	1	0	20.32	20.32	20.32	20.5
10	16QAM	1	25	20.26	20.35	20.29	
10	16QAM	1	49	20.22	20.21	20.19	20.5
10	16QAM	25	0	19.30	19.28	19.23	
10	16QAM	25	12	19.27	19.28	19.18	20.5
10	16QAM	25	25	19.17	19.20	19.20	
10	16QAM	50	0	19.16	19.15	19.07	20.5
10	64QAM	1	0	19.55	19.48	19.43	
10	64QAM	1	25	19.47	19.45	19.49	19.5
10	64QAM	1	49	19.41	19.42	19.38	
10	64QAM	25	0	18.39	18.38	18.41	19.5
10	64QAM	25	12	18.30	18.34	18.32	
10	64QAM	25	25	18.25	18.35	18.31	Tune-up limit (dBm)
10	64QAM	50	0	18.49	18.49	18.41	
Channel				37775	38000	38225	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	21.25	21.28	21.29	22.5
5	QPSK	1	12	21.20	21.31	21.24	
5	QPSK	1	24	21.09	21.26	21.17	21.5
5	QPSK	12	0	20.18	20.20	20.19	
5	QPSK	12	7	20.12	20.22	20.11	21.5
5	QPSK	12	13	20.10	20.13	20.11	
5	QPSK	25	0	20.07	20.12	20.03	21.5
5	16QAM	1	0	20.24	20.39	20.27	
5	16QAM	1	12	20.26	20.28	20.27	20.5
5	16QAM	1	24	20.21	20.27	20.16	
5	16QAM	12	0	19.28	19.35	19.20	20.5
5	16QAM	12	7	19.20	19.25	19.16	
5	16QAM	12	13	19.22	19.27	19.13	19.5
5	16QAM	25	0	19.15	19.16	19.08	
5	64QAM	1	0	19.46	19.49	19.51	20.5
5	64QAM	1	12	19.48	19.52	19.43	
5	64QAM	1	24	19.43	19.39	19.42	19.5
5	64QAM	12	0	18.37	18.46	18.34	
5	64QAM	12	7	18.33	18.43	18.36	19.5
5	64QAM	12	13	18.29	18.37	18.32	
5	64QAM	25	0	18.47	18.47	18.41	19.5
5	64QAM	25	0	18.47	18.47	18.41	

2.4GHz WLAN ANT 1

2.4GHz WLAN ANT 1	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
	802.11b 1Mbps	CH 1	2412	15.66	17.00	15.00	99.52
		CH 6	2437	15.51	17.00	15.00	
		CH 11	2462	15.10	16.50	15.00	
	802.11g 6Mbps	CH 1	2412	15.10	16.50	15.00	96.88
		CH 6	2437	15.04	16.50	15.00	
		CH 11	2462	14.73	16.00	15.00	
	802.11n-HT20 MCS0	CH 1	2412	14.04	15.50	14.00	96.65
		CH 6	2437	13.93	15.50	14.00	
		CH 11	2462	13.53	15.00	14.00	

5.2GHz WLAN ANT 1

5.2GHz WLAN ANT 1	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
	802.11a 6Mbps	CH 36	5180	9.57	11.00	9.00	96.88
		CH 44	5220	9.62	11.00	9.00	
		CH 48	5240	9.58	11.00	9.00	
	802.11n-HT20 MCS0	CH 36	5180	8.40	10.00	8.00	96.65
		CH 44	5220	8.42	10.00	8.00	
		CH 48	5240	9.02	10.50	8.00	
	802.11n-HT40 MCS0	CH 38	5190	8.25	9.50	8.00	93.53
		CH 46	5230	8.89	10.50	8.00	
		CH 36	5180	8.40	10.00	8.00	
	802.11ac-VHT20 MCS0	CH 44	5220	7.44	9.00	8.00	96.68
		CH 48	5240	8.49	10.00	8.00	
		CH 38	5190	7.84	9.50	7.50	
	802.11ac-VHT40 MCS0	CH 46	5230	8.79	10.50	7.50	93.57
		CH 42	5210	5.72	7.00	5.50	
	802.11ac-VHT80 MCS0	CH 42	5210	5.72	7.00	5.50	87.67

5.3GHz WLAN ANT 1

5.3GHz WLAN ANT 1	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
	802.11a 6Mbps	CH 52	5260	9.13	10.50	8.50	96.88
		CH 60	5300	8.98	19.50	8.50	
		CH 64	5320	9.09	19.50	8.50	
	802.11n-HT20 MCS0	CH 52	5260	7.42	9.00	7.50	96.65
		CH 60	5300	7.34	9.00	7.50	
		CH 64	5320	7.37	9.00	7.50	
	802.11n-HT40 MCS0	CH 54	5270	7.84	9.50	7.50	93.53
		CH 62	5310	7.72	9.50	7.50	
		CH 52	5260	7.92	8.50	7.50	
	802.11ac-VHT20 MCS0	CH 60	5300	8.89	10.20	7.50	96.68
		CH 64	5320	7.89	9.50	7.50	
		CH 54	5270	7.32	9.00	7.00	
	802.11ac-VHT40 MCS0	CH 62	5310	7.28	9.00	7.00	93.57
		CH 58	5290	6.71	8.00	5.00	
	802.11ac-VHT80 MCS0	CH 58	5290	6.71	8.00	5.00	87.67

5.5GHz WLAN ANT 1

5.5GHz WLAN ANT 1	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
	802.11a 6Mbps	CH 100	5500	7.62	9.00	7.50	96.88
		CH 120	5600	7.56	9.00	7.50	
		CH 144	5720	6.92	8.50	7.50	
	802.11n-HT20 MCS0	CH 100	5500	6.65	8.00	6.50	96.65
		CH 120	5600	7.20	9.00	6.50	
		CH 144	5720	5.87	7.50	6.50	
	802.11n-HT40 MCS0	CH 102	5510	6.53	8.00	6.50	93.53
		CH 126	5630	6.19	7.50	6.50	
		CH 142	5710	5.73	7.00	6.50	
	802.11ac-VHT20 MCS0	CH 100	5500	6.67	8.00	6.50	96.68
		CH 120	5600	7.23	9.00	6.50	
		CH 144	5720	5.90	7.50	6.50	
	802.11ac-VHT40 MCS0	CH 102	5510	7.15	8.50	6.00	93.57
		CH 126	5630	5.81	7.50	6.00	
		CH 142	5710	5.23	7.00	6.00	
	802.11ac-VHT80 MCS0	CH 106	5530	4.09	5.50	4.00	87.67
		CH 122	5610	5.21	6.50	4.00	
		CH 138	5690	3.50	5.00	4.00	

5.8GHz WLAN ANT 1

5.8GHz WLAN ANT 1	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
	802.11a MCS0	CH 149	5745	5.87	7.50	6.00	96.88
		CH 157	5785	5.43	7.00	6.00	
		CH 165	5825	5.22	7.00	6.00	
	802.11n-HT20 MCS0	CH 149	5745	4.79	6.00	5.00	96.65
		CH 157	5785	4.33	6.00	5.00	
		CH 165	5825	4.20	6.00	5.00	
	802.11n-HT40 MCS0	CH 151	5755	4.59	6.00	5.00	93.53
		CH 159	5795	4.20	6.00	5.00	
		CH 149	5745	4.84	6.00	5.00	
	802.11ac-VHT20 MCS0	CH 157	5785	4.40	6.00	5.00	96.68
		CH 165	5825	4.17	6.00	5.00	
		CH 151	5755	4.12	6.00	4.50	
	802.11ac-VHT40 MCS0	CH 159	5795	4.77	6.00	4.50	93.57
		CH 155	5775	2.21	4.00	2.50	
	802.11ac-VHT80 MCS0	CH 155	5775	2.21	4.00	2.50	87.67

Reduced Power Level 2 for body

Band		WCDMA Band II			Tune-up Limit (dBm)	WCDMA Band IV			Tune-up Limit (dBm)
TX Channel		9262	9400	9538		1312	1413	1513	
Rx Channel		9662	9800	9938		1537	1638	1738	
Frequency (MHz)		1852.4	1880	1907.6		1712.4	1732.6	1752.6	
3GPP Rel 99	RMC 12.2Kbps	21.14	21.18	21.13	22.00	20.94	20.95	20.91	22.00
3GPP Rel 6	HSDPA Subtest-1	20.69	20.74	20.60	21.50	20.44	20.62	20.57	21.50
3GPP Rel 6	HSDPA Subtest-2	20.68	20.71	20.60	21.50	20.49	20.55	20.49	21.50
3GPP Rel 6	HSDPA Subtest-3	20.22	20.25	20.20	21.00	19.91	20.07	20.14	21.00
3GPP Rel 6	HSDPA Subtest-4	20.17	20.11	20.09	21.00	19.89	20.10	20.01	21.00
3GPP Rel 6	HSUPA Subtest-1	20.19	20.08	20.09	21.00	19.96	20.02	19.99	21.00
3GPP Rel 6	HSUPA Subtest-2	20.71	20.67	20.61	21.50	20.47	20.61	20.57	21.50
3GPP Rel 6	HSUPA Subtest-3	19.66	19.64	19.59	20.50	19.55	19.59	19.53	20.50
3GPP Rel 6	HSUPA Subtest-4	20.73	20.72	20.59	21.50	20.38	20.57	20.50	21.50
3GPP Rel 6	HSUPA Subtest-5	19.77	19.58	19.53	20.50	19.46	19.56	19.56	20.50
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	19.72	19.66	19.60	20.50	19.53	19.63	19.60	20.50
Attenuator			Cable Loss	0.8			Cable Loss	0.8	
Mode			Max.	21.18			Max.	20.95	

Band 2 (1900MHz Band) Part 24E							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				18700	18900	19100	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	20.90	20.92	20.89	22
20	QPSK	1	49	20.89	20.88	20.85	
20	QPSK	1	99	20.71	20.52	20.54	
20	QPSK	50	0	19.96	20.06	19.99	
20	QPSK	50	24	19.93	20.00	20.03	21
20	QPSK	50	50	19.98	20.01	19.94	
20	QPSK	100	0	19.97	20.07	19.96	
20	16QAM	1	0	20.20	20.27	20.18	
20	16QAM	1	49	20.23	20.29	20.14	21
20	16QAM	1	99	20.19	20.22	20.13	
20	16QAM	50	0	19.05	19.12	19.05	
20	16QAM	50	24	19.01	19.03	18.98	
20	16QAM	50	50	18.97	18.96	18.85	20
20	16QAM	100	0	18.97	18.96	18.93	
20	64QAM	1	0	19.36	19.38	19.27	
20	64QAM	1	49	19.29	19.34	19.24	
20	64QAM	1	99	19.15	19.16	19.14	22
20	64QAM	50	0	18.19	18.29	18.27	
20	64QAM	50	24	18.18	18.20	18.20	
20	64QAM	50	50	18.15	18.19	18.15	
20	64QAM	100	0	18.14	18.24	18.13	21
Channel				18675	18900	19125	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	20.79	20.90	20.77	22
15	QPSK	1	37	20.78	20.84	20.79	
15	QPSK	1	74	20.68	20.51	20.48	
15	QPSK	36	0	19.88	20.05	19.96	
15	QPSK	36	20	19.95	19.99	19.93	21
15	QPSK	36	39	19.87	19.91	19.92	
15	QPSK	75	0	19.97	20.05	19.93	
15	16QAM	1	0	20.21	20.26	20.15	
15	16QAM	1	37	20.19	20.24	20.08	21
15	16QAM	1	74	20.12	20.11	20.10	
15	16QAM	36	0	19.04	18.98	18.94	
15	16QAM	36	20	18.96	19.03	18.91	
15	16QAM	36	39	18.94	18.87	18.86	20
15	16QAM	75	0	18.96	18.90	18.90	
15	64QAM	1	0	19.32	19.34	19.22	
15	64QAM	1	37	19.26	19.33	19.26	
15	64QAM	1	74	19.05	19.14	19.06	20
15	64QAM	36	0	18.20	18.25	18.21	
15	64QAM	36	20	18.14	18.21	18.11	
15	64QAM	36	39	18.07	18.20	18.14	
15	64QAM	75	0	18.08	18.10	18.16	19
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	20.79	20.85	20.80	22
10	QPSK	1	25	20.76	20.88	20.72	
10	QPSK	1	49	20.65	20.48	20.50	
10	QPSK	25	0	19.89	19.98	19.93	
10	QPSK	25	12	19.91	20.01	19.98	21
10	QPSK	25	25	19.86	19.92	19.91	
10	QPSK	50	0	20.00	19.98	19.89	
10	16QAM	1	0	20.17	20.22	20.17	
10	16QAM	1	25	20.18	20.20	20.08	21
10	16QAM	1	49	20.05	20.13	20.15	
10	16QAM	25	0	19.03	19.00	19.02	
10	16QAM	25	12	18.93	19.01	18.97	
10	16QAM	25	25	18.89	18.92	18.78	20
10	16QAM	50	0	18.87	18.98	18.89	
10	64QAM	1	0	19.28	19.41	19.20	
10	64QAM	1	25	19.24	19.32	19.19	
10	64QAM	1	49	19.05	19.14	19.11	20
10	64QAM	25	0	18.16	18.26	18.18	
10	64QAM	25	12	18.12	18.17	18.15	
10	64QAM	25	25	18.11	18.14	18.16	
10	64QAM	50	0	18.06	18.19	18.07	19
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	20.81	20.89	20.79	22
5	QPSK	1	12	20.79	20.83	20.77	
5	QPSK	1	24	20.64	20.50	20.51	
5	QPSK	12	0	19.88	20.02	19.95	
5	QPSK	12	7	19.89	20.01	19.97	21
5	QPSK	12	13	19.90	19.98	19.94	
5	QPSK	25	0	19.93	20.00	19.89	
5	16QAM	1	0	20.15	20.23	20.18	
5	16QAM	1	12	20.20	20.23	20.12	21
5	16QAM	1	24	20.14	20.12	20.13	
5	16QAM	12	0	19.00	19.00	18.97	
5	16QAM	12	7	19.02	18.96	18.92	
5	16QAM	12	13	18.91	18.88	18.82	20
5	16QAM	25	0	18.89	18.95	18.87	
5	64QAM	1	0	19.27	19.38	19.22	
5	64QAM	1	12	19.28	19.30	19.27	
5	64QAM	1	24	19.10	19.17	19.06	20
5	64QAM	12	0	18.14	18.23	18.23	
5	64QAM	12	7	18.11	18.22	18.11	
5	64QAM	12	13	18.15	18.13	18.16	
5	64QAM	25	0	18.08	18.14	18.11	19
Channel				18615	18900	19185	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	20.79	20.91	20.78	22
3	QPSK	1	8	20.84	20.85	20.81	
3	QPSK	1	14	20.71	20.54	20.51	
3	QPSK	8	0	19.94	20.01	19.98	
3	QPSK	8	4	19.91	20.02	19.99	21

Band 4 (AWS Band) 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	21.85	21.87	21.84	23
20	QPSK	1	49	21.65	21.74	21.67	
20	QPSK	1	99	21.47	21.61	21.53	
20	QPSK	50	0	20.77	20.79	20.76	
20	QPSK	50	24	20.70	20.71	20.64	22
20	QPSK	50	50	20.66	20.68	20.66	
20	QPSK	100	0	20.65	20.76	20.71	
20	16QAM	1	0	20.73	20.76	20.67	
20	16QAM	1	49	20.67	20.75	20.71	22
20	16QAM	1	99	20.63	20.64	20.68	
20	16QAM	50	0	19.65	19.74	19.70	
20	16QAM	50	24	19.70	19.76	19.73	
20	16QAM	50	50	19.66	19.71	19.71	21
20	16QAM	100	0	19.68	19.75	19.77	
20	64QAM	1	0	20.04	20.06	20.05	
20	64QAM	1	49	19.97	20.01	19.95	
20	64QAM	1	99	19.91	19.98	19.91	21
20	64QAM	50	0	18.95	18.98	18.94	
20	64QAM	50	24	18.86	18.98	18.90	
20	64QAM	50	50	18.84	18.95	18.96	
20	64QAM	100	0	18.80	18.94	18.89	20
Channel				20025	20175	20325	
Frequency (MHz)				1717.5	1732.5	1747.5	Tune-up limit (dBm)
15	QPSK	1	0	21.85	21.81	21.77	23
15	QPSK	1	37	21.68	21.74	21.68	
15	QPSK	1	74	21.49	21.63	21.61	
15	QPSK	36	0	20.73	20.79	20.77	
15	QPSK	36	20	20.77	20.80	20.70	22
15	QPSK	36	39	20.67	20.69	20.74	
15	QPSK	75	0	20.76	20.78	20.74	
15	16QAM	1	0	20.75	20.85	20.71	
15	16QAM	1	37	20.73	20.79	20.73	22
15	16QAM	1	74	20.65	20.76	20.69	
15	16QAM	36	0	19.78	19.77	19.81	
15	16QAM	36	20	19.73	19.74	19.75	
15	16QAM	36	39	19.73	19.77	19.70	21
15	16QAM	75	0	19.78	19.80	19.83	
15	64QAM	1	0	20.08	20.12	20.08	
15	64QAM	1	37	20.05	20.05	20.00	
15	64QAM	1	74	19.91	19.96	19.99	21
15	64QAM	36	0	19.96	19.94	19.97	
15	64QAM	36	20	18.95	19.02	18.97	
15	64QAM	36	39	18.89	18.98	18.97	
15	64QAM	75	0	18.91	18.98	18.91	20
Channel				20000	20175	20350	
Frequency (MHz)				1715	1732.5	1750	Tune-up limit (dBm)
10	QPSK	1	0	21.78	21.80	21.72	23
10	QPSK	1	25	21.67	21.80	21.72	
10	QPSK	1	49	21.50	21.62	21.60	
10	QPSK	25	0	20.71	20.81	20.73	
10	QPSK	25	12	20.76	20.80	20.71	22
10	QPSK	25	25	20.71	20.76	20.68	
10	QPSK	50	0	20.71	20.79	20.68	
10	16QAM	1	0	20.79	20.80	20.78	
10	16QAM	1	25	20.73	20.84	20.75	22
10	16QAM	1	49	20.63	20.70	20.67	
10	16QAM	25	0	19.71	19.86	19.80	
10	16QAM	25	12	19.66	19.78	19.76	
10	16QAM	25	25	19.70	19.73	19.75	21
10	16QAM	50	0	19.77	19.87	19.84	
10	64QAM	1	0	20.13	20.16	20.06	21
10	64QAM	1	25	19.99	20.07	20.03	
10	64QAM	1	49	19.89	19.96	19.92	
10	64QAM	25	0	19.06	19.05	19.00	
10	64QAM	25	12	18.94	18.98	19.04	20
10	64QAM	25	25	18.96	19.03	18.97	
10	64QAM	50	0	18.93	18.93	18.96	
Channel				19975	20175	20375	
Frequency (MHz)				1712.5	1732.5	1752.5	Tune-up limit (dBm)
5	QPSK	1	0	21.82	21.87	21.73	23
5	QPSK	1	12	21.67	21.75	21.73	
5	QPSK	1	24	21.56	21.60	21.60	
5	QPSK	12	0	20.79	20.75	20.79	
5	QPSK	12	7	20.76	20.78	20.76	22
5	QPSK	12	13	20.71	20.74	20.71	
5	QPSK	25	0	20.70	20.72	20.76	
5	16QAM	1	0	20.80	20.80	20.74	
5	16QAM	1	12	20.74	20.84	20.71	22
5	16QAM	1	24	20.63	20.75	20.69	
5	16QAM	12	0	19.71	19.77	19.75	
5	16QAM	12	7	19.66	19.77	19.79	
5	16QAM	12	13	19.67	19.76	19.72	21
5	16QAM	25	0	19.71	19.79	19.86	
5	64QAM	1	0	20.12	20.13	20.08	
5	64QAM	1	12	20.04	20.07	20.02	
5	64QAM	1	24	19.94	19.99	19.95	21
5	64QAM	12	0	19.02	19.02	19.03	
5	64QAM	12	7	18.99	19.01	19.01	
5	64QAM	12	13	18.96	18.97	19.00	
5	64QAM	25	0	18.87	18.99	18.89	20
Channel				19965	20175	20385	
Frequency (MHz)				1711.5	1732.5	1753.5	Tune-up limit (dBm)
3	QPSK	1	0	21.84	21.78	21.81	23
3	QPSK	1	8	21.63	21.76	21.76	
3	QPSK	1	14	21.50	21.65	21.58	
3	QPSK	8	0	20.78	20.81	20.72	
3	QPSK	8	4	20.70	20.82	20.75	23

3	QPSK	8	7	19.92	19.98	19.94	4.1
3	QPSK	15	0	19.98	20.05	19.94	
3	16QAM	1	0	20.22	20.23	20.17	21
3	16QAM	1	8	20.19	20.27	20.14	
3	16QAM	1	14	20.11	20.17	20.09	20
3	16QAM	8	0	19.00	19.03	18.95	
3	16QAM	8	4	19.01	19.01	18.94	20
3	16QAM	8	7	18.93	18.90	18.86	
3	16QAM	15	0	18.90	18.95	18.93	20
3	64QAM	1	0	19.30	19.37	19.26	
3	64QAM	1	8	19.33	19.27	19.22	19
3	64QAM	1	14	19.13	19.15	19.11	
3	64QAM	8	0	18.17	18.25	18.19	19
3	64QAM	8	4	18.16	18.20	18.14	
3	64QAM	8	7	18.12	18.16	18.16	19
3	64QAM	15	0	18.12	18.15	18.15	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	20.69	20.75	20.70	22
1.4	QPSK	1	3	20.66	20.66	20.65	
1.4	QPSK	1	5	20.56	20.43	20.37	21
1.4	QPSK	3	0	20.69	20.58	20.71	
1.4	QPSK	3	1	20.56	20.60	20.66	21
1.4	QPSK	3	3	20.73	20.82	20.78	
1.4	QPSK	6	0	19.82	19.84	19.85	20
1.4	16QAM	1	0	20.10	20.20	19.97	
1.4	16QAM	1	3	20.07	20.09	20.03	20
1.4	16QAM	1	5	19.98	19.94	19.95	
1.4	16QAM	3	0	19.94	19.86	19.91	20
1.4	16QAM	3	1	19.86	19.84	19.85	
1.4	16QAM	3	3	19.81	19.75	19.67	20
1.4	16QAM	6	0	18.83	18.76	18.76	
1.4	64QAM	1	0	19.21	19.21	19.07	20
1.4	64QAM	1	3	19.16	19.18	19.10	
1.4	64QAM	1	5	18.98	19.03	18.98	19
1.4	64QAM	3	0	19.03	19.00	18.95	
1.4	64QAM	3	1	19.02	19.03	18.92	19
1.4	64QAM	3	3	18.92	18.97	18.98	
1.4	64QAM	6	0	17.91	18.01	18.02	19

3	QPSK	8	7	20.74	20.76	20.74	4.4
3	QPSK	15	0	20.79	20.76	20.69	
3	16QAM	1	0	20.81	20.80	20.76	22
3	16QAM	1	8	20.80	20.84	20.73	
3	16QAM	1	14	20.62	20.74	20.69	21
3	16QAM	8	0	19.78	19.78	19.78	
3	16QAM	8	4	19.66	19.78	19.72	21
3	16QAM	8	7	19.69	19.75	19.72	
3	16QAM	15	0	19.80	19.79	19.82	21
3	64QAM	1	0	20.05	20.18	20.15	
3	64QAM	1	8	19.96	20.10	20.05	20
3	64QAM	1	14	19.94	19.95	19.97	
3	64QAM	8	0	19.00	19.09	19.08	20
3	64QAM	8	4	18.99	19.05	19.04	
3	64QAM	8	7	18.95	19.02	18.95	20
3	64QAM	15	0	18.84	18.94	18.91	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	21.80	21.83	21.64	23
1.4	QPSK	1	3	21.56	21.77	21.64	
1.4	QPSK	1	5	21.46	21.53	21.49	22
1.4	QPSK	3	0	21.56	21.54	21.49	
1.4	QPSK	3	1	21.47	21.58	21.51	22
1.4	QPSK	3	3	21.45	21.48	21.40	
1.4	QPSK	6	0	20.71	20.67	20.62	22
1.4	16QAM	1	0	20.67	20.75	20.60	
1.4	16QAM	1	3	20.66	20.71	20.71	22
1.4	16QAM	1	5	20.59	20.61	20.59	
1.4	16QAM	3	0	20.40	20.48	20.48	21
1.4	16QAM	3	1	20.51	20.44	20.36	
1.4	16QAM	3	3	20.47	20.52	20.50	21
1.4	16QAM	6	0	19.68	19.75	19.72	
1.4	64QAM	1	0	19.99	20.02	20.04	21
1.4	64QAM	1	3	19.89	19.92	20.00	
1.4	64QAM	1	5	19.87	19.90	19.93	20
1.4	64QAM	3	0	19.69	19.82	19.75	
1.4	64QAM	3	1	19.75	19.71	19.67	20
1.4	64QAM	3	3	19.56	19.66	19.75	
1.4	64QAM	6	0	18.79	18.97	18.85	20

Band 7 (2600MHz Band) Part 27							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20850	21100	21350	
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	2130	2135	2133	22.5
20	QPSK	1	49	2123	2135	2126	
20	QPSK	1	99	2116	2123	2119	
20	QPSK	50	0	2028	2034	2030	
20	QPSK	50	24	2022	2032	2022	21.5
20	QPSK	50	50	2010	2019	2010	
20	QPSK	100	0	2013	2019	2015	
20	16QAM	1	0	2027	2042	2031	
20	16QAM	1	49	2032	2044	2031	21.5
20	16QAM	1	99	2024	2037	2029	
20	16QAM	50	0	1928	1929	1926	
20	16QAM	50	24	1922	1924	1923	
20	16QAM	50	50	1921	1929	1920	20.5
20	16QAM	100	0	1927	1936	1932	
20	64QAM	1	0	1957	1959	1958	
20	64QAM	1	49	1954	1954	1952	
20	64QAM	1	99	1944	1944	1939	20.5
20	64QAM	50	0	1858	1863	1858	
20	64QAM	50	24	1848	1857	1846	
20	64QAM	50	50	1854	1851	1849	
20	64QAM	100	0	1859	1864	1839	19.5
Channel				20825	21100	21375	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	2125	2130	2131	22.5
15	QPSK	1	37	2125	2126	2125	
15	QPSK	1	74	2115	2127	2119	
15	QPSK	36	0	2022	2034	2027	
15	QPSK	36	20	2016	2032	2022	21.5
15	QPSK	36	39	2012	2019	2014	
15	QPSK	75	0	2016	2025	2013	
15	16QAM	1	0	2034	2043	2034	
15	16QAM	1	37	2033	2037	2031	21.5
15	16QAM	1	74	2027	2037	2030	
15	16QAM	36	0	1926	1937	1933	
15	16QAM	36	20	1918	1927	1921	
15	16QAM	36	39	1922	1927	1918	20.5
15	16QAM	75	0	1932	1934	1936	
15	64QAM	1	0	1956	1962	1950	
15	64QAM	1	37	1951	1953	1947	
15	64QAM	1	74	1942	1942	1939	20.5
15	64QAM	36	0	1863	1865	1860	
15	64QAM	36	20	1846	1855	1844	
15	64QAM	36	39	1848	1852	1850	
15	64QAM	75	0	1852	1858	1840	19.5
Channel				20800	21100	21400	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	2129	2130	2126	22.5
10	QPSK	1	25	2129	2129	2125	
10	QPSK	1	49	2123	2125	2121	
10	QPSK	25	0	2025	2027	2030	
10	QPSK	25	12	2016	2027	2026	21.5
10	QPSK	25	25	2013	2019	2014	
10	QPSK	50	0	2019	2024	2016	
10	16QAM	1	0	2029	2046	2034	
10	16QAM	1	25	2024	2043	2033	21.5
10	16QAM	1	49	2028	2036	2033	
10	16QAM	25	0	1924	1937	1928	
10	16QAM	25	12	1919	1923	1922	
10	16QAM	25	25	1922	1930	1915	20.5
10	16QAM	50	0	1925	1933	1936	
10	64QAM	1	0	1953	1964	1954	
10	64QAM	1	25	1951	1949	1952	
10	64QAM	1	49	1943	1945	1944	20.5
10	64QAM	25	0	1858	1864	1855	
10	64QAM	25	12	1855	1863	1844	
10	64QAM	25	25	1852	1852	1848	
10	64QAM	50	0	1855	1855	1842	19.5
Channel				20775	21100	21425	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	2124	2132	2126	22.5
5	QPSK	1	12	2125	2126	2128	
5	QPSK	1	24	2116	2129	2125	
5	QPSK	12	0	2021	2028	2023	
5	QPSK	12	7	2021	2033	2022	21.5
5	QPSK	12	13	2008	2022	2012	
5	QPSK	25	0	2014	2020	2021	
5	16QAM	1	0	2029	2043	2035	
5	16QAM	1	12	2030	2040	2031	21.5
5	16QAM	1	24	2021	2038	2026	
5	16QAM	12	0	1931	1936	1930	
5	16QAM	12	7	1919	1930	1927	
5	16QAM	12	13	1918	1925	1915	20.5
5	16QAM	25	0	1926	1937	1934	
5	64QAM	1	0	1960	1963	1955	
5	64QAM	1	12	1953	1948	1948	
5	64QAM	1	24	1950	1949	1944	20.5
5	64QAM	12	0	1861	1863	1856	
5	64QAM	12	7	1852	1862	1849	
5	64QAM	12	13	1853	1859	1852	
5	64QAM	25	0	1855	1864	1845	19.5

Band 66							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				132072	132322	132572	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	21.38	21.42	21.38	22.5
20	QPSK	1	49	21.34	21.37	21.39	
20	QPSK	1	99	21.30	21.37	21.29	
20	QPSK	50	0	20.35	20.39	20.36	
20	QPSK	50	24	20.35	20.37	20.34	21.5
20	QPSK	50	50	20.27	20.29	20.25	
20	QPSK	100	0	20.32	20.39	20.35	
20	16QAM	1	0	20.35	20.36	20.29	
20	16QAM	1	49	20.25	20.29	20.35	21.5
20	16QAM	1	99	20.21	20.33	20.26	
20	16QAM	50	0	19.47	19.54	19.44	
20	16QAM	50	24	19.35	19.45	19.44	
20	16QAM	50	50	19.30	19.42	19.31	20.5
20	16QAM	100	0	19.27	19.34	19.24	
20	64QAM	1	0	19.46	19.58	19.53	
20	64QAM	1	49	19.42	19.54	19.47	
20	64QAM	1	99	19.54	19.50	19.50	20.5
20	64QAM	50	0	18.59	18.61	18.65	
20	64QAM	50	24	18.56	18.52	18.57	
20	64QAM	50	50	18.45	18.45	18.40	
20	64QAM	100	0	18.50	18.57	18.56	19.5
Channel				132047	132322	132597	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	21.34	21.39	21.33	22.5
15	QPSK	1	37	21.31	21.37	21.37	
15	QPSK	1	74	21.33	21.32	21.31	
15	QPSK	36	0	20.34	20.43	20.36	
15	QPSK	36	20	20.29	20.35	20.33	21.5
15	QPSK	36	39	20.24	20.37	20.32	
15	QPSK	75	0	20.32	20.35	20.30	
15	16QAM	1	0	20.37	20.40	20.34	
15	16QAM	1	37	20.29	20.34	20.35	21.5
15	16QAM	1	74	20.20	20.27	20.26	
15	16QAM	36	0	19.47	19.52	19.47	
15	16QAM	36	20	19.36	19.44	19.37	
15	16QAM	36	39	19.29	19.44	19.29	20.5
15	16QAM	75	0	19.20	19.30	19.24	
15	64QAM	1	0	19.53	19.55	19.54	
15	64QAM	1	37	19.43	19.52	19.50	
15	64QAM	1	74	19.50	19.55	19.48	20.5
15	64QAM	36	0	18.56	18.61	18.65	
15	64QAM	36	20	18.49	18.53	18.53	
15	64QAM	36	39	18.50	18.50	18.38	
15	64QAM	75	0	18.42	18.57	18.50	19.5
Channel				132022	132322	132622	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	21.33	21.36	21.36	22.5
10	QPSK	1	25	21.29	21.40	21.34	
10	QPSK	1	49	21.29	21.35	21.34	
10	QPSK	25	0	20.38	20.47	20.39	
10	QPSK	25	12	20.31	20.39	20.34	21.5
10	QPSK	25	25	20.27	20.32	20.32	
10	QPSK	50	0	20.41	20.36	20.31	
10	16QAM	1	0	20.38	20.32	20.29	
10	16QAM	1	25	20.29	20.28	20.34	21.5
10	16QAM	1	49	20.20	20.31	20.30	
10	16QAM	25	0	19.40	19.50	19.44	
10	16QAM	25	12	19.42	19.47	19.39	
10	16QAM	25	25	19.24	19.42	19.33	20.5
10	16QAM	50	0	19.26	19.35	19.22	
10	64QAM	1	0	19.51	19.56	19.58	
10	64QAM	1	25	19.47	19.47	19.51	
10	64QAM	1	49	19.48	19.50	19.45	20.5
10	64QAM	25	0	18.57	18.64	18.57	
10	64QAM	25	12	18.48	18.53	18.59	
10	64QAM	25	25	18.45	18.50	18.47	
10	64QAM	50	0	18.43	18.60	18.56	19.5
Channel				131997	132322	132647	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	21.32	21.41	21.36	22.5
5	QPSK	1	12	21.30	21.38	21.30	
5	QPSK	1	24	21.27	21.34	21.30	
5	QPSK	12	0	20.39	20.39	20.34	
5	QPSK	12	7	20.26	20.34	20.35	21.5
5	QPSK	12	13	20.24	20.32	20.25	
5	QPSK	25	0	20.36	20.39	20.36	
5	16QAM	1	0	20.35	20.41	20.29	
5	16QAM	1	12	20.31	20.34	20.31	21.5
5	16QAM	1	24	20.21	20.33	20.27	
5	16QAM	12	0	19.43	19.55	19.51	
5	16QAM	12	7	19.37	19.42	19.37	
5	16QAM	12	13	19.31	19.41	19.34	20.5
5	16QAM	25	0	19.25	19.37	19.27	
5	64QAM	1	0	19.55	19.55	19.50	
5	64QAM	1	12	19.51	19.51	19.46	
5	64QAM	1	24	19.49	19.52	19.45	20.5
5	64QAM	12	0	18.55	18.64	18.57	
5	64QAM	12	7	18.54	18.53	18.54	
5	64QAM	12	13	18.52	18.52	18.39	
5	64QAM	25	0	18.47	18.58	18.53	19.5
Channel				131987	132322	132657	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	21.33	21.38	21.39	22.5
3	QPSK	1	8	21.28	21.38	21.31	
3	QPSK	1	14	21.27	21.33	21.36	
3	QPSK	8	0	20.35	20.45	20.37	
3	QPSK	8	4	20.28	20.35	20.38	21.5

3	QPSK	8	7	20.26	20.36	20.34	21.5
3	QPSK	15	0	20.34	20.35	20.39	
3	16QAM	1	0	20.36	20.35	20.29	
3	16QAM	1	8	20.26	20.33	20.29	21.5
3	16QAM	1	14	20.25	20.35	20.25	
3	16QAM	8	0	19.39	19.54	19.44	
3	16QAM	8	4	19.36	19.48	19.46	20.5
3	16QAM	8	7	19.32	19.48	19.33	
3	16QAM	15	0	19.29	19.31	19.26	
3	64QAM	1	0	19.50	19.60	19.50	20.5
3	64QAM	1	8	19.49	19.50	19.54	
3	64QAM	1	14	19.46	19.50	19.52	
3	64QAM	8	0	18.54	18.63	18.64	19.5
3	64QAM	8	4	18.48	18.52	18.53	
3	64QAM	8	7	18.48	18.49	18.42	
3	64QAM	15	0	18.46	18.53	18.53	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	21.13	21.33	21.15	22.5
1.4	QPSK	1	3	21.11	21.13	21.15	
1.4	QPSK	1	5	21.00	21.17	21.08	
1.4	QPSK	3	0	20.92	21.02	20.91	
1.4	QPSK	3	1	20.87	20.98	20.99	
1.4	QPSK	3	3	20.93	20.97	20.94	
1.4	QPSK	6	0	20.10	20.14	20.13	21.5
1.4	16QAM	1	0	20.10	20.20	20.13	21.5
1.4	16QAM	1	3	20.03	20.06	20.01	
1.4	16QAM	1	5	19.94	20.05	20.07	
1.4	16QAM	3	0	20.06	20.08	20.02	
1.4	16QAM	3	1	20.05	20.09	20.04	
1.4	16QAM	3	3	19.95	20.02	19.91	
1.4	16QAM	6	0	19.87	19.86	19.81	20.5
1.4	64QAM	1	0	19.27	19.40	19.34	20.5
1.4	64QAM	1	3	19.34	19.32	19.33	
1.4	64QAM	1	5	19.31	19.32	19.25	
1.4	64QAM	3	0	19.26	19.30	19.25	
1.4	64QAM	3	1	19.22	19.25	19.18	
1.4	64QAM	3	3	19.15	19.14	19.07	
1.4	64QAM	6	0	18.21	18.36	18.39	19.5

Hz 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	15.66	17.00	15.00	99.92
		CH 6	2437	15.51	17.00	15.00	
		CH 11	2462	15.10	16.50	15.00	
	802.11g 6Mbps	CH 1	2412	15.10	16.50	15.00	96.88
		CH 6	2437	15.04	16.50	15.00	
		CH 11	2462	14.73	16.00	15.00	
	802.11n-HT20 MCS0	CH 1	2412	14.04	15.50	14.00	96.65
		CH 6	2437	13.93	15.50	14.00	
		CH 11	2462	13.53	15.00	14.00	

Hz 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	12.43	14.00	11.50	96.88
		CH 44	5220	12.52	14.00	11.50	
		CH 48	5240	12.39	14.00	11.50	
	802.11n-HT20 MCS0	CH 36	5180	11.23	13.00	10.50	96.65
		CH 44	5220	11.45	13.00	10.50	
		CH 48	5240	11.10	12.50	10.50	
	802.11n-HT40 MCS0	CH 38	5190	10.87	12.50	10.50	93.53
		CH 46	5230	10.94	12.50	10.50	
	802.11ac-VHT20 MCS0	CH 36	5180	11.02	12.50	10.50	96.68
		CH 44	5220	11.03	12.50	10.50	
		CH 48	5240	11.10	12.50	10.50	
	802.11ac-VHT40 MCS0	CH 38	5190	10.37	12.00	10.00	93.57
		CH 46	5230	10.42	12.00	10.00	
	802.11ac-VHT80 MCS0	CH 42	5210	8.08	9.50	8.00	87.67

Hz 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	11.89	13.50	11.00	96.88
		CH 60	5300	11.70	13.00	11.00	
		CH 64	5320	11.82	13.50	11.00	
	802.11n-HT20 MCS0	CH 52	5260	10.64	12.00	10.00	96.65
		CH 60	5300	10.51	12.00	10.00	
		CH 64	5320	10.63	12.00	10.00	
	802.11n-HT40 MCS0	CH 54	5270	10.28	12.00	10.00	93.53
		CH 62	5310	10.24	12.00	10.00	
	802.11ac-VHT20 MCS0	CH 52	5260	10.57	12.00	10.00	96.68
		CH 60	5300	10.45	12.00	10.00	
		CH 64	5320	10.49	12.00	10.00	
	802.11ac-VHT40 MCS0	CH 54	5270	9.83	11.50	9.50	93.57
		CH 62	5310	9.74	11.50	9.50	
	802.11ac-VHT80 MCS0	CH 58	5290	7.57	9.00	7.50	87.67

Hz 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	11.38	13.00	11.00	96.88
		CH 120	5600	11.34	13.00	11.00	
		CH 144	5720	10.72	12.00	11.00	
	802.11n-HT20 MCS0	CH 100	5500	10.42	12.00	10.00	96.65
		CH 120	5600	9.95	11.50	10.00	
		CH 144	5720	9.41	11.00	10.00	
	802.11n-HT40 MCS0	CH 102	5510	10.02	11.50	10.00	93.53
		CH 126	5630	9.64	11.00	10.00	
		CH 142	5710	9.25	11.00	10.00	
	802.11ac-VHT20 MCS0	CH 100	5500	10.05	11.50	10.00	96.68
		CH 120	5600	10.01	11.50	10.00	
		CH 144	5720	9.69	11.00	10.00	
	802.11ac-VHT40 MCS0	CH 102	5510	9.88	11.50	9.50	93.57
		CH 126	5630	9.68	11.00	9.50	
		CH 142	5710	8.62	11.00	9.50	
	802.11ac-VHT80 MCS0	CH 106	5530	8.10	9.50	7.50	87.67
		CH 122	5610	7.11	8.50	7.50	
		CH 138	5690	6.95	8.50	7.50	

Hz WLAN ANT 1

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
5.8GHz WLAN ANT 1	802.11a MCS0	CH 149	5745	10.21	12.00	10.00	96.88
		CH 157	5785	9.66	11.00	10.00	
		CH 165	5825	9.45	11.00	10.00	
	802.11n-HT20 MCS0	CH 149	5745	8.71	10.00	9.00	96.65
		CH 157	5785	8.40	10.00	9.00	
		CH 165	5825	8.15	9.50	9.00	
	802.11n-HT40 MCS0	CH 151	5755	8.44	10.00	9.00	93.53
		CH 159	5795	8.04	9.50	9.00	
		CH 149	5745	8.79	10.00	9.00	
	802.11ac-VHT20 MCS0	CH 157	5785	8.40	10.00	9.00	96.68
		CH 165	5825	8.09	9.50	9.00	
	802.11ac-VHT40 MCS0	CH 151	5755	8.28	10.00	8.50	93.57
		CH 159	5795	7.55	9.00	8.50	
	802.11ac-VHT80 MCS0	CH 155	5775	7.72	9.50	6.50	87.67

Reduced Power Level 3

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	13.07	14.50	12.50	99.52
		CH 6	2437	12.88	14.50	12.50	
		CH 11	2462	12.48	14.00	12.50	
	802.11g 6Mbps	CH 1	2412	12.74	14.50	12.50	96.88
		CH 6	2437	12.54	14.00	12.50	
		CH 11	2462	12.30	14.00	12.50	
	802.11n-HT20 MCS0	CH 1	2412	11.68	13.00	11.50	96.65
		CH 6	2437	11.43	13.00	11.50	
		CH 11	2462	10.55	12.00	11.50	

5.2GHz 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	7.56	9.00	7.00	96.88
		CH 44	5220	7.69	9.00	7.00	
		CH 48	5240	7.61	9.00	7.00	
	802.11n-HT20 MCS0	CH 36	5180	6.47	8.00	6.00	96.65
		CH 44	5220	7.41	9.00	6.00	
		CH 48	5240	7.40	9.00	6.00	
	802.11n-HT40 MCS0	CH 38	5190	6.40	8.00	6.00	93.53
		CH 46	5230	6.45	8.00	6.00	
		CH 36	5180	7.41	9.00	6.00	
	802.11ac-VHT20 MCS0	CH 44	5220	6.51	8.00	6.00	96.68
		CH 48	5240	6.57	8.00	6.00	
		CH 38	5190	6.07	7.50	5.50	
	802.11ac-VHT40 MCS0	CH 46	5230	6.08	7.50	5.50	93.57
		CH 42	5210	4.20	5.50	3.50	
	802.11ac-VHT80 MCS0	CH 42	5210	4.20	5.50	3.50	87.67

5.3GHz 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	6.83	8.50	6.00	96.88
		CH 60	5300	6.70	8.50	6.00	
		CH 64	5320	6.70	8.50	6.00	
	802.11n-HT20 MCS0	CH 52	5260	5.62	7.00	5.00	96.65
		CH 60	5300	5.55	7.00	5.00	
		CH 64	5320	5.58	7.00	5.00	
	802.11n-HT40 MCS0	CH 54	5270	5.47	7.00	5.00	93.53
		CH 62	5310	5.42	7.00	5.00	
		CH 52	5260	5.63	7.00	5.00	
	802.11ac-VHT20 MCS0	CH 60	5300	5.57	7.00	5.00	96.68
		CH 64	5320	6.76	8.50	5.00	
		CH 54	5270	5.08	6.50	4.50	
	802.11ac-VHT40 MCS0	CH 62	5310	5.01	6.50	4.50	93.57
		CH 58	5290	3.40	5.00	2.50	
	802.11ac-VHT80 MCS0	CH 58	5290	3.40	5.00	2.50	87.67

5.5GHz 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	6.37	8.00	6.00	96.88
		CH 120	5600	6.22	8.00	6.00	
		CH 144	5720	6.31	8.00	6.00	
	802.11n-HT20 MCS0	CH 100	5500	6.17	7.50	5.00	96.65
		CH 120	5600	5.08	6.50	5.00	
		CH 144	5720	4.50	6.00	5.00	
	802.11n-HT40 MCS0	CH 102	5510	5.60	7.00	5.00	93.53
		CH 126	5630	4.84	6.50	5.00	
		CH 142	5710	5.50	7.00	5.00	
	802.11ac-VHT20 MCS0	CH 100	5500	6.20	8.00	5.00	96.68
		CH 120	5600	5.18	6.50	5.00	
		CH 144	5720	5.35	7.00	5.00	
	802.11ac-VHT40 MCS0	CH 102	5510	4.72	6.50	4.50	93.57
		CH 126	5630	4.48	6.00	4.50	
		CH 142	5710	5.03	6.50	4.50	
	802.11ac-VHT80 MCS0	CH 106	5530	2.97	4.50	2.50	87.67
		CH 122	5610	2.88	4.50	2.50	
		CH 138	5690	2.44	4.00	2.50	

5.8GHz WLAN ANT 1

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
5.8GHz WLAN ANT 1	802.11a MCS0	CH 149	5745	5.01	6.50	4.50	96.88
		CH 157	5785	4.55	6.00	4.50	
		CH 165	5825	4.76	6.00	4.50	
	802.11n-HT20 MCS0	CH 149	5745	3.58	5.00	3.50	96.65
		CH 157	5785	3.38	5.00	3.50	
		CH 165	5825	4.03	5.50	3.50	
	802.11n-HT40 MCS0	CH 151	5755	3.48	5.00	3.50	93.53
		CH 159	5795	3.07	4.50	3.50	
		CH 149	5745	3.62	5.00	3.50	
	802.11ac-VHT20 MCS0	CH 157	5785	3.21	4.50	3.50	96.68
		CH 165	5825	2.91	4.50	3.50	
		CH 151	5755	2.88	4.50	3.00	
	802.11ac-VHT40 MCS0	CH 159	5795	2.48	4.00	3.00	93.57
		CH 155	5775	1.00	2.50	1.00	
	802.11ac-VHT80 MCS0	CH 155	5775	1.00	2.50	1.00	87.67

Reduced Power Level 4

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	14.45	16.00	14.00	99.52
		CH 6	2437	14.30	16.00	14.00	
		CH 11	2462	13.95	15.50	14.00	
	802.11g 6Mbps	CH 1	2412	14.15	15.50	14.00	96.88
		CH 6	2437	14.12	15.50	14.00	
		CH 11	2462	13.68	15.00	14.00	
	802.11n-HT20 MCS0	CH 1	2412	13.06	14.50	13.00	96.65
		CH 6	2437	12.84	14.50	13.00	
		CH 11	2462	12.68	14.00	13.00	

5.2GHz 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	10.73	12.00	10.00	96.88
		CH 44	5220	10.98	12.50	10.00	
		CH 48	5240	10.80	12.00	10.00	
	802.11n-HT20 MCS0	CH 36	5180	9.37	11.00	9.00	96.65
		CH 44	5220	9.77	11.50	9.00	
		CH 48	5240	9.45	11.00	9.00	
	802.11n-HT40 MCS0	CH 38	5190	9.92	11.50	9.00	93.53
		CH 46	5230	9.28	11.00	9.00	
	802.11ac-VHT20 MCS0	CH 36	5180	9.10	10.50	9.00	96.68
		CH 44	5220	9.02	10.50	9.00	
		CH 48	5240	8.91	10.50	9.00	
	802.11ac-VHT40 MCS0	CH 38	5190	8.44	10.00	8.50	93.57
		CH 46	5230	8.11	9.50	8.50	
	802.11ac-VHT80 MCS0	CH 42	5210	6.42	8.00	6.50	87.67

5.3GHz 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	10.35	12.00	9.50	96.88
		CH 60	5300	10.12	11.50	9.50	
		CH 64	5320	10.05	11.50	9.50	
	802.11n-HT20 MCS0	CH 52	5260	9.00	10.50	8.50	96.65
		CH 60	5300	9.26	11.00	8.50	
		CH 64	5320	8.85	10.50	8.50	
	802.11n-HT40 MCS0	CH 54	5270	8.69	10.00	8.50	93.53
		CH 62	5310	9.23	10.50	8.50	
	802.11ac-VHT20 MCS0	CH 52	5260	8.60	10.00	8.50	96.68
		CH 60	5300	8.55	10.00	8.50	
		CH 64	5320	8.71	10.00	8.50	
	802.11ac-VHT40 MCS0	CH 54	5270	7.66	9.00	8.00	93.57
		CH 62	5310	7.76	9.00	8.00	
	802.11ac-VHT80 MCS0	CH 58	5290	5.95	7.50	6.00	87.67

5.5GHz 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	8.60	10.00	8.50	96.88
		CH 120	5600	8.47	10.00	8.50	
		CH 144	5720	7.97	9.50	8.50	
	802.11n-HT20 MCS0	CH 100	5500	8.33	10.00	7.50	96.65
		CH 120	5600	7.30	9.00	7.50	
		CH 144	5720	7.05	8.50	7.50	
	802.11n-HT40 MCS0	CH 102	5510	8.03	9.50	7.50	93.53
		CH 126	5630	7.20	9.00	7.50	
		CH 142	5710	6.68	8.00	7.50	
	802.11ac-VHT20 MCS0	CH 100	5500	7.48	9.00	7.50	96.68
		CH 120	5600	7.86	9.50	7.50	
		CH 144	5720	7.30	9.00	7.50	
	802.11ac-VHT40 MCS0	CH 102	5510	6.46	8.00	7.00	93.57
		CH 126	5630	6.16	7.50	7.00	
		CH 142	5710	5.66	7.00	7.00	
	802.11ac-VHT80 MCS0	CH 106	5530	4.85	6.50	5.00	87.67
		CH 122	5610	4.48	6.00	5.00	
		CH 138	5690	4.16	5.50	5.00	

5.8GHz WLAN ANT 1

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
5.8GHz WLAN ANT 1	802.11a MCS0	CH 149	5745	7.53	9.00	7.50	96.88
		CH 157	5785	6.85	8.50	7.50	
		CH 165	5825	6.69	8.00	7.50	
	802.11n-HT20 MCS0	CH 149	5745	6.00	7.50	6.50	96.65
		CH 157	5785	5.63	7.00	6.50	
		CH 165	5825	5.51	7.00	6.50	
	802.11n-HT40 MCS0	CH 151	5755	5.97	7.50	6.50	93.53
		CH 159	5795	6.34	8.00	6.50	
	802.11ac-VHT20 MCS0	CH 149	5745	6.21	8.00	6.50	96.68
		CH 157	5785	5.90	6.50	6.50	
		CH 165	5825	5.74	7.00	6.50	
	802.11ac-VHT40 MCS0	CH 151	5755	4.97	6.50	6.00	93.57
		CH 159	5795	4.52	6.00	6.00	
	802.11ac-VHT80 MCS0	CH 155	5775	3.17	4.50	4.00	87.67