



REPORT No.: SZ21110383S01

Annex E Conducted Power

Full Power

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		32.33	32.33	32.34	33.50	23.33	23.33	23.34	24.50	0.02
GPRS 1 Tx slot		32.33	32.35	32.33	33.50	23.33	23.35	23.33	24.50	
GPRS 2 Tx slots		30.54	30.56	30.49	31.50	24.54	24.56	24.49	25.50	0.07
GPRS 3 Tx slots		28.50	28.51	28.54	29.50	24.24	24.25	24.28	25.24	0.04
GPRS 4 Tx slots		26.53	26.57	26.52	27.50	23.53	23.57	23.52	24.50	0.05
EDGE 1 Tx slot		25.22	25.24	25.20	26.50	16.22	16.24	16.20	17.50	0.04
EDGE 2 Tx slots		24.61	24.63	24.57	25.50	18.61	18.63	18.57	19.50	0.06
EDGE 3 Tx slots		22.61	22.61	22.59	23.50	18.35	18.35	18.33	19.24	0.02
EDGE 4 Tx slots		20.19	20.21	20.22	21.50	17.19	17.21	17.22	18.50	0.03
Mode			Max.	32.35			Max.	24.56		
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		29.45	29.48	29.43	30.50	20.45	20.48	20.43	21.50	0.06
GPRS 1 Tx slot		29.46	29.49	29.44	30.50	20.46	20.49	20.44	21.50	
GPRS 2 Tx slots		26.80	26.81	26.79	27.50	20.80	20.81	20.79	21.50	0.02
GPRS 3 Tx slots		25.66	25.69	25.65	26.50	21.40	21.43	21.39	22.24	0.04
GPRS 4 Tx slots		23.26	23.31	23.27	24.50	20.26	20.31	20.27	21.50	0.05
EDGE 1 Tx slot		25.54	25.64	25.47	26.50	16.54	16.64	16.47	17.50	0.17
EDGE 2 Tx slots		24.56	24.63	24.46	25.50	18.56	18.63	18.46	19.50	0.17
EDGE 3 Tx slots		22.29	22.37	22.36	23.50	18.03	18.11	18.10	19.24	0.08
EDGE 4 Tx slots		20.58	20.62	20.51	21.50	17.58	17.62	17.51	18.50	0.11
Mode			Max.	29.49			Max.	21.43		
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	23.02	23.05	23.03	24.00	23.09	23.16	23.05	24.00	23.12	23.17	23.14	24.00
3GPP Rel 6	HSDPA Subtest-1	22.13	22.16	22.14	23.00	22.11	22.31	22.06	23.00	22.49	22.24	22.33	23.00
3GPP Rel 6	HSDPA Subtest-2	22.10	22.13	22.06	23.00	22.14	22.23	22.04	23.00	22.45	22.25	22.35	23.00
3GPP Rel 6	HSDPA Subtest-3	22.06	22.14	21.95	23.00	22.12	22.23	22.01	23.00	22.41	22.27	22.31	23.00
3GPP Rel 6	HSDPA Subtest-4	22.08	22.16	21.96	23.00	22.14	22.14	22.02	23.00	22.42	22.30	22.32	23.00
3GPP Rel 8	DC-HSDPA Subtest-1	22.18	22.14	22.29	23.00	22.09	22.15	22.20	23.00	22.68	22.65	22.70	23.50
3GPP Rel 8	DC-HSDPA Subtest-2	22.20	22.10	22.28	23.00	22.18	22.16	22.10	23.00	22.70	22.64	22.64	23.50
3GPP Rel 8	DC-HSDPA Subtest-3	22.28	22.25	22.30	23.00	22.18	22.13	22.19	23.00	22.69	22.65	22.67	23.50
3GPP Rel 8	DC-HSDPA Subtest-4	22.22	22.29	22.28	23.00	22.16	22.10	22.15	23.00	22.68	22.66	22.66	23.50
3GPP Rel 6	HSUPA Subtest-1	21.95	21.94	21.91	22.50	21.67	21.55	21.66	22.50	22.39	22.23	22.31	23.00
3GPP Rel 6	HSUPA Subtest-2	21.93	21.95	21.93	22.50	21.66	21.55	21.68	22.50	22.38	22.20	22.34	23.00
3GPP Rel 6	HSUPA Subtest-3	21.91	21.95	21.80	22.50	21.65	21.53	21.59	22.50	22.32	22.22	22.27	23.00
3GPP Rel 6	HSUPA Subtest-4	21.90	21.89	21.91	22.50	21.63	21.54	21.67	22.50	22.34	22.16	22.20	23.00
3GPP Rel 6	HSUPA Subtest-5	21.89	21.93	21.83	22.50	21.64	21.63	21.60	22.50	22.33	22.21	22.25	23.00
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	21.91	21.93	21.66	22.50	21.73	21.49	21.56	22.50	22.24	22.17	22.27	23.00
Attenuator			Cable Loss	0.8			Cable Loss	0.6			Cable Loss	0.6	
Mode			Max.	23.05			Max.	23.16			Max.	23.17	

Band 2 (1900MHz Band)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				18700	18900	19100	24
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	23.11	23.14	23.08	23
20	QPSK	1	49	23.09	23.03	22.96	
20	QPSK	1	99	23.03	22.99	22.97	
20	QPSK	50	0	22.19	22.28	22.21	
20	QPSK	50	24	22.20	22.25	22.25	23
20	QPSK	50	50	22.25	22.21	22.27	
20	QPSK	100	0	22.18	22.27	22.23	
20	16QAM	1	0	22.24	22.24	22.26	
20	16QAM	1	49	22.08	22.38	22.34	23
20	16QAM	1	99	22.33	22.18	22.58	
20	16QAM	50	0	22.26	22.23	22.21	
20	16QAM	50	24	22.22	22.27	22.28	
20	16QAM	50	50	22.30	22.27	22.34	23
20	16QAM	100	0	22.33	22.34	22.21	
20	64QAM	1	0	22.28	22.47	22.21	
20	64QAM	1	49	22.23	22.41	22.32	
20	64QAM	1	99	22.18	22.51	22.51	23
20	64QAM	50	0	22.28	22.20	22.25	
20	64QAM	50	24	22.31	22.25	22.30	
20	64QAM	50	50	22.30	22.31	22.25	
20	64QAM	100	0	22.18	22.15	22.16	24
Channel				18675	18900	19125	
Frequency (MHz)				1857.5	1880	1902.5	23
15	QPSK	1	0	22.92	22.95	22.86	
15	QPSK	1	37	22.71	23.07	22.95	23
15	QPSK	1	74	23.08	23.00	23.08	
15	QPSK	36	0	22.05	22.14	22.13	
15	QPSK	36	20	22.04	22.23	22.20	
15	QPSK	36	39	22.16	22.17	22.14	23
15	QPSK	75	0	22.08	22.14	22.10	
15	16QAM	1	0	22.17	22.25	22.19	
15	16QAM	1	37	22.30	22.33	22.19	
15	16QAM	1	74	22.25	22.37	22.37	23
15	16QAM	36	0	22.04	22.09	22.12	
15	16QAM	36	20	22.13	22.06	22.19	
15	16QAM	36	39	22.18	22.27	22.24	
15	16QAM	75	0	22.05	22.07	22.16	23
15	64QAM	1	0	22.25	22.01	22.07	
15	64QAM	1	37	22.24	22.05	22.47	
15	64QAM	1	74	22.13	22.17	22.32	
15	64QAM	36	0	21.98	22.15	22.03	23
15	64QAM	36	20	22.18	22.20	22.10	
15	64QAM	36	39	22.06	22.11	22.20	
15	64QAM	75	0	22.05	22.12	22.11	
Channel				18650	18900	19150	24
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	22.89	22.88	22.98	23
10	QPSK	1	25	23.00	23.10	22.98	
10	QPSK	1	49	22.89	22.97	22.89	
10	QPSK	25	0	22.16	22.17	22.13	
10	QPSK	25	12	22.12	22.24	22.17	23
10	QPSK	25	25	22.03	22.16	22.12	
10	QPSK	50	0	22.09	22.18	22.16	
10	16QAM	1	0	22.57	22.50	22.49	
10	16QAM	1	25	22.26	22.22	22.29	23
10	16QAM	1	49	22.21	22.29	22.08	
10	16QAM	25	0	22.11	22.10	22.07	
10	16QAM	25	12	22.27	22.07	22.07	
10	16QAM	25	25	22.07	22.27	22.37	23
10	16QAM	50	0	22.64	22.57	22.61	
10	64QAM	1	0	22.15	22.20	22.20	
10	64QAM	1	25	22.18	22.23	22.27	
10	64QAM	1	49	21.85	21.98	21.95	23
10	64QAM	25	0	22.15	22.19	22.20	
10	64QAM	25	12	22.18	22.16	22.17	
10	64QAM	25	25	22.11	21.89	22.11	
10	64QAM	50	0	22.12	22.12	22.09	24
Channel				18625	18900	19175	
Frequency (MHz)				1852.5	1880	1907.5	23
5	QPSK	1	0	23.03	23.08	23.02	
5	QPSK	1	12	23.02	22.97	23.00	23
5	QPSK	1	24	22.98	23.06	23.07	
5	QPSK	12	0	22.15	22.06	22.13	
5	QPSK	12	7	22.16	22.21	22.13	
5	QPSK	12	13	22.15	22.14	22.17	23
5	QPSK	25	0	22.14	22.12	22.14	
5	16QAM	1	0	22.27	22.17	22.55	
5	16QAM	1	12	22.25	22.18	22.55	
5	16QAM	1	24	22.28	22.15	22.54	23
5	16QAM	12	0	22.37	22.51	22.37	
5	16QAM	12	7	22.27	22.27	22.07	
5	16QAM	12	13	22.07	22.40	22.17	
5	16QAM	25	0	22.17	22.63	22.61	23
5	64QAM	1	0	22.37	22.09	22.14	
5	64QAM	1	12	22.53	22.19	22.30	
5	64QAM	1	24	22.54	22.18	22.20	
5	64QAM	12	0	22.19	22.12	22.11	23
5	64QAM	12	7	22.25	22.09	22.09	
5	64QAM	12	13	22.22	22.18	22.16	
5	64QAM	25	0	22.29	22.09	22.16	
Channel				18615	18900	19185	24
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	22.97	23.04	22.96	23
3	QPSK	1	8	23.07	23.10	22.93	
3	QPSK	1	14	23.08	22.95	22.95	
3	QPSK	8	0	22.03	21.98	22.00	
3	QPSK	8	4	22.09	22.03	22.04	23
3	QPSK	8	7	22.09	22.03	21.99	
3	QPSK	15	0	22.01	22.09	22.02	
3	16QAM	1	0	22.17	22.08	22.02	
3	16QAM	1	8	22.21	22.15	22.11	23
3	16QAM	1	14	22.14	22.11	21.99	

Band 4 (AWS Band)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dbm)
Channel				20050	20175	20300	24
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	23.00	23.08	23.07	24
20	QPSK	1	49	22.86	22.94	22.93	
20	QPSK	1	99	22.78	22.91	23.03	
20	QPSK	50	0	22.16	22.20	22.17	
20	QPSK	50	24	22.07	22.15	22.15	23
20	QPSK	50	50	21.96	22.07	22.08	
20	QPSK	100	0	22.06	22.10	22.17	
20	16QAM	1	0	21.93	22.23	22.10	
20	16QAM	1	49	22.08	21.85	21.99	23
20	16QAM	1	99	21.87	22.09	21.93	
20	16QAM	50	0	22.06	21.99	22.13	
20	16QAM	50	24	22.32	22.43	22.32	
20	16QAM	50	50	22.28	22.29	22.29	23
20	16QAM	100	0	22.30	22.38	22.39	
20	64QAM	1	0	22.04	22.15	22.37	
20	64QAM	1	49	22.08	22.01	21.89	
20	64QAM	1	99	22.35	21.92	22.39	23
20	64QAM	50	0	22.05	22.14	22.09	
20	64QAM	50	24	22.07	22.18	22.12	
20	64QAM	50	50	22.11	22.06	22.08	
20	64QAM	100	0	22.14	22.12	22.21	23
Channel				20025	20175	20325	
Frequency (MHz)				1717.5	1732.5	1747.5	Tune-up limit (dbm)
15	QPSK	1	0	22.87	22.91	23.01	24
15	QPSK	1	37	22.91	23.00	22.92	
15	QPSK	1	74	22.78	23.00	23.03	
15	QPSK	36	0	22.01	22.08	22.11	
15	QPSK	36	20	22.05	22.18	22.14	23
15	QPSK	36	39	22.10	22.09	22.18	
15	QPSK	75	0	22.05	22.07	22.08	
15	16QAM	1	0	21.99	22.21	21.93	
15	16QAM	1	37	22.07	22.07	21.91	23
15	16QAM	1	74	21.93	22.23	22.02	
15	16QAM	36	0	21.94	21.96	22.15	
15	16QAM	36	20	21.89	21.96	22.02	
15	16QAM	36	39	21.85	21.94	22.00	23
15	16QAM	75	0	21.96	21.97	22.06	
15	64QAM	1	0	21.91	22.22	22.27	
15	64QAM	1	37	22.33	22.09	22.15	
15	64QAM	1	74	22.37	22.08	22.12	23
15	64QAM	36	0	22.02	22.09	22.13	
15	64QAM	36	20	22.08	22.10	22.12	
15	64QAM	36	39	22.11	22.07	22.09	
15	64QAM	75	0	22.04	22.15	22.08	23
Channel				20000	20175	20350	
Frequency (MHz)				1715	1732.5	1750	Tune-up limit (dbm)
10	QPSK	1	0	22.99	22.98	22.81	24
10	QPSK	1	25	22.97	22.90	22.91	
10	QPSK	1	49	22.85	22.68	22.91	
10	QPSK	25	0	21.84	22.06	22.08	
10	QPSK	25	12	21.96	22.02	22.06	23
10	QPSK	25	25	21.85	21.96	22.03	
10	QPSK	50	0	21.91	22.01	21.93	
10	16QAM	1	0	21.90	22.05	21.81	
10	16QAM	1	25	22.17	21.91	22.23	23
10	16QAM	1	49	22.24	22.14	22.13	
10	16QAM	25	0	21.90	21.89	21.88	
10	16QAM	25	12	21.82	21.92	21.89	
10	16QAM	25	25	22.16	22.07	22.16	23
10	16QAM	50	0	22.10	22.14	22.26	
10	64QAM	1	0	21.96	22.04	21.94	
10	64QAM	1	25	22.03	22.32	22.41	
10	64QAM	1	49	22.01	22.05	22.00	23
10	64QAM	25	0	21.85	21.99	21.98	
10	64QAM	25	12	21.94	22.05	22.09	
10	64QAM	25	25	21.82	21.94	21.96	
10	64QAM	50	0	21.88	21.95	21.94	23
Channel				19975	20175	20375	
Frequency (MHz)				1712.5	1732.5	1752.5	Tune-up limit (dbm)
5	QPSK	1	0	22.96	22.91	22.96	24
5	QPSK	1	12	22.95	22.90	22.87	
5	QPSK	1	24	22.70	22.82	22.81	
5	QPSK	12	0	21.92	21.92	21.96	
5	QPSK	12	7	21.92	22.03	22.00	23
5	QPSK	12	13	21.87	22.04	21.96	
5	QPSK	25	0	21.90	21.94	22.00	
5	16QAM	1	0	21.80	22.21	21.89	
5	16QAM	1	12	21.91	22.26	21.85	23
5	16QAM	1	24	21.85	22.20	21.80	
5	16QAM	12	0	21.84	21.78	21.81	
5	16QAM	12	7	21.87	21.91	21.89	
5	16QAM	12	13	22.14	22.21	22.25	23
5	16QAM	25	0	22.15	22.26	22.19	
5	64QAM	1	0	21.92	22.36	22.34	
5	64QAM	1	12	22.30	22.06	22.33	
5	64QAM	1	24	22.26	21.96	22.03	23
5	64QAM	12	0	21.93	22.00	22.02	
5	64QAM	12	7	21.92	22.01	22.07	
5	64QAM	12	13	21.93	21.99	21.98	
5	64QAM	25	0	21.88	22.02	21.93	23
Channel				19985	20175	20385	
Frequency (MHz)				1711.5	1732.5	1753.5	Tune-up limit (dbm)
3	QPSK	1	0	22.81	22.82	22.94	24
3	QPSK	1	8	22.90	23.04	22.98	
3	QPSK	1	14	22.70	22.89	22.89	
3	QPSK	8	0	21.90	21.96	21.97	
3	QPSK	8	4	21.96	22.04	22.06	23
3	QPSK	8	7	21.92	22.02	22.02	
3	QPSK	15	0	21.92	21.98	21.92	
3	16QAM	1	0	22.00	22.09	22.13	
3	16QAM	1	8	22.22	22.22	21.96	23
3	16QAM	1	14	22.13	21.91	21.99	

3	16QAM	8	0	22.57	22.70	22.62	23
3	16QAM	8	4	22.64	22.61	22.67	
3	16QAM	8	7	22.54	22.59	22.62	
3	16QAM	15	0	22.57	22.61	22.56	
3	64QAM	1	0	22.10	22.03	22.06	23
3	64QAM	1	8	22.52	22.51	22.11	
3	64QAM	1	14	22.13	22.49	22.13	
3	64QAM	8	0	22.05	22.07	21.91	
3	64QAM	8	4	22.15	22.05	22.05	23
3	64QAM	8	7	22.25	22.14	22.00	
3	64QAM	15	0	22.10	22.10	22.08	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	23.03	23.06	23.01	24
1.4	QPSK	1	3	22.93	22.91	22.90	
1.4	QPSK	1	5	22.90	22.88	22.86	
1.4	QPSK	3	0	22.90	22.90	22.86	
1.4	QPSK	3	1	22.94	22.91	22.89	
1.4	QPSK	3	3	22.96	23.00	22.89	
1.4	QPSK	6	0	21.99	21.97	21.96	23
1.4	16QAM	1	0	22.02	22.02	21.96	23
1.4	16QAM	1	3	21.98	22.18	22.16	
1.4	16QAM	1	5	21.86	22.06	21.74	
1.4	16QAM	3	0	21.88	21.93	21.90	
1.4	16QAM	3	1	22.06	21.88	21.93	
1.4	16QAM	3	3	22.08	22.05	21.79	
1.4	16QAM	6	0	22.09	22.02	21.97	23
1.4	64QAM	1	0	21.97	21.89	21.92	23
1.4	64QAM	1	3	21.99	22.20	22.08	
1.4	64QAM	1	5	21.97	22.32	21.91	
1.4	64QAM	3	0	22.00	22.06	22.07	
1.4	64QAM	3	1	22.09	22.06	22.27	
1.4	64QAM	3	3	22.01	22.15	21.92	
1.4	64QAM	6	0	22.06	22.09	21.98	
1.4	64QAM	6	0	22.06	22.09	21.98	23

3	16QAM	8	0	21.92	21.93	22.02	23
3	16QAM	8	4	22.02	22.02	22.03	
3	16QAM	8	7	22.24	22.32	22.36	
3	16QAM	15	0	22.24	22.22	22.29	
3	64QAM	1	0	21.91	22.00	21.98	23
3	64QAM	1	8	22.10	21.98	22.14	
3	64QAM	1	14	21.91	21.98	21.81	
3	64QAM	8	0	21.89	21.93	21.87	
3	64QAM	8	4	22.01	21.99	22.03	23
3	64QAM	8	7	21.95	22.02	22.14	
3	64QAM	15	0	21.91	21.99	21.90	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	22.96	23.01	22.99	24
1.4	QPSK	1	3	22.90	22.90	22.94	
1.4	QPSK	1	5	22.76	22.85	22.87	
1.4	QPSK	3	0	22.84	22.81	22.80	
1.4	QPSK	3	1	22.80	22.90	22.95	
1.4	QPSK	3	3	22.79	22.86	22.85	
1.4	QPSK	6	0	21.95	21.97	21.93	23
1.4	16QAM	1	0	21.89	22.36	22.02	23
1.4	16QAM	1	3	22.02	22.10	22.14	
1.4	16QAM	1	5	22.08	22.24	22.04	
1.4	16QAM	3	0	22.11	22.15	22.06	
1.4	16QAM	3	1	22.12	22.15	22.17	
1.4	16QAM	3	3	22.11	22.23	22.12	
1.4	16QAM	6	0	22.02	22.03	21.94	23
1.4	64QAM	1	0	21.80	21.74	21.88	23
1.4	64QAM	1	3	22.06	22.04	22.16	
1.4	64QAM	1	5	21.97	21.93	21.77	
1.4	64QAM	3	0	21.88	21.86	22.05	
1.4	64QAM	3	1	21.79	21.94	21.91	
1.4	64QAM	3	3	21.85	22.02	21.90	
1.4	64QAM	6	0	21.84	21.85	21.92	
1.4	64QAM	6	0	21.84	21.85	21.92	23

Band 5 (Celluar Band)								
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	24.5	
10	QPSK	1	0	23.51	23.52	23.44		
10	QPSK	1	25	23.37	23.40	23.20		
10	QPSK	1	49	23.29	23.41	23.09		
10	QPSK	25	0	22.82	22.84	22.65	23.5	
10	QPSK	25	12	22.58	22.60	22.65		
10	QPSK	25	25	22.58	22.69	22.74		
10	QPSK	50	0	22.64	22.52	22.66		
10	16QAM	1	0	22.68	22.87	22.58	23.5	
10	16QAM	1	25	22.91	22.94	22.62		
10	16QAM	1	49	22.74	22.80	22.87		
10	16QAM	25	0	22.83	22.84	22.66		
10	16QAM	25	12	22.77	22.85	22.63	23.5	
10	16QAM	25	25	22.80	22.73	22.76		
10	16QAM	50	0	22.81	22.72	22.62		
10	64QAM	1	0	22.77	22.87	22.75		
10	64QAM	1	25	22.74	22.94	22.74	23.5	
10	64QAM	1	49	22.63	22.85	22.76		
10	64QAM	25	0	22.74	22.85	22.52		
10	64QAM	25	12	22.73	22.90	22.61		
10	64QAM	25	25	22.85	22.74	22.44	23.5	
10	64QAM	50	0	22.81	22.77	22.63		
Channel				20425	20525	20625	Tune-up limit (dBm)	
Frequency (MHz)				826.5	836.5	846.5		
5	QPSK	1	0	23.46	23.42	23.40	24.5	
5	QPSK	1	12	23.36	23.47	23.31		
5	QPSK	1	24	23.36	23.31	23.31		
5	QPSK	12	0	22.73	22.78	22.64		
5	QPSK	12	7	22.80	22.81	22.73	23.5	
5	QPSK	12	13	22.85	22.69	22.64		
5	QPSK	25	0	22.76	22.72	22.64		
5	16QAM	1	0	23.05	22.98	22.74		
5	16QAM	1	12	22.75	22.97	22.73	23.5	
5	16QAM	1	24	22.62	22.97	22.80		
5	16QAM	12	0	22.71	22.80	22.79		
5	16QAM	12	7	22.78	22.81	22.63		
5	16QAM	12	13	22.78	22.69	22.74	23.5	
5	16QAM	25	0	22.79	22.84	22.79		
5	64QAM	1	0	22.86	22.74	22.85		
5	64QAM	1	12	22.74	22.68	22.82		
5	64QAM	1	24	22.88	22.72	22.66	23.5	
5	64QAM	12	0	22.60	22.74	22.54		
5	64QAM	12	7	22.64	22.80	22.58		
5	64QAM	12	13	22.82	22.77	22.34		
5	64QAM	25	0	22.70	22.77	22.38	Tune-up limit (dBm)	
Channel				20415	20525	20635		
Frequency (MHz)				825.5	836.5	847.5	24.5	
3	QPSK	1	0	23.45	23.46	23.31		
3	QPSK	1	8	23.41	23.42	23.33		
3	QPSK	1	14	23.42	23.40	23.14		
3	QPSK	8	0	22.66	22.79	22.77	23.5	
3	QPSK	8	4	22.80	22.86	22.83		
3	QPSK	8	7	22.75	22.77	22.64		
3	QPSK	15	0	22.73	22.79	22.78		
3	16QAM	1	0	22.75	22.86	22.93	23.5	
3	16QAM	1	8	22.68	22.94	22.78		
3	16QAM	1	14	22.73	22.99	22.74		
3	16QAM	8	0	22.69	22.78	22.52		
3	16QAM	8	4	22.85	22.96	22.53	23.5	
3	16QAM	8	7	22.77	22.83	22.57		
3	16QAM	15	0	22.71	22.73	22.28		
3	64QAM	1	0	22.66	22.54	22.75		
3	64QAM	1	8	22.54	22.78	22.54	23.5	
3	64QAM	1	14	22.56	22.74	22.55		
3	64QAM	8	0	22.66	22.76	22.74		
3	64QAM	8	4	22.88	22.72	22.66		
3	64QAM	8	7	22.83	22.75	22.72	23.5	
3	64QAM	15	0	22.72	22.82	22.62		
Channel				20407	20525	20643	Tune-up limit (dBm)	
Frequency (MHz)				824.7	836.5	848.3		
1.4	QPSK	1	0	23.46	23.43	23.47	24.5	
1.4	QPSK	1	3	23.49	23.42	23.49		
1.4	QPSK	1	5	23.38	23.32	23.33		
1.4	QPSK	3	0	23.39	23.45	23.41		
1.4	QPSK	3	1	23.45	23.32	23.42	23.5	
1.4	QPSK	3	3	23.46	23.38	23.38		
1.4	QPSK	6	0	22.71	22.70	22.69		
1.4	16QAM	1	0	22.84	22.65	22.82		
1.4	16QAM	1	3	22.64	22.88	22.77	23.5	
1.4	16QAM	1	5	23.03	22.71	22.77		
1.4	16QAM	3	0	22.56	22.54	22.68		
1.4	16QAM	3	1	22.59	22.86	22.72		
1.4	16QAM	3	3	22.67	22.78	22.66	23.5	
1.4	16QAM	6	0	22.86	22.73	22.77		
1.4	64QAM	1	0	22.39	22.56	22.58		
1.4	64QAM	1	3	22.70	22.71	22.66		
1.4	64QAM	1	5	22.65	22.64	22.52	23.5	
1.4	64QAM	3	0	22.31	22.58	22.59		
1.4	64QAM	3	1	22.59	22.53	22.54		
1.4	64QAM	3	3	22.49	22.66	22.50		
1.4	64QAM	6	0	22.70	22.82	22.71	23.5	

Band 7 (2600MHz Band)							
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	23.10	23.11	23.03	24
20	QPSK	1	49	23.05	23.09	22.98	
20	QPSK	1	99	23.00	22.95	23.00	
20	QPSK	50	0	22.16	22.23	22.20	
20	QPSK	50	24	21.92	21.89	21.79	23
20	QPSK	50	50	22.02	22.05	22.02	
20	QPSK	100	0	21.97	21.99	21.96	
20	16QAM	1	0	21.78	21.88	22.06	
20	16QAM	1	49	21.93	21.79	22.07	23
20	16QAM	1	99	21.87	22.18	21.83	
20	16QAM	50	0	21.72	21.82	21.75	
20	16QAM	50	24	21.77	21.69	21.80	
20	16QAM	50	50	21.85	21.90	21.73	22
20	16QAM	100	0	21.73	21.85	21.83	
20	64QAM	1	0	21.61	21.45	21.18	
20	64QAM	1	49	21.55	21.52	21.57	
20	64QAM	1	99	21.53	21.58	21.49	22
20	64QAM	50	0	21.47	21.48	21.53	
20	64QAM	50	24	21.52	21.53	21.53	
20	64QAM	50	50	21.56	21.63	21.48	
20	64QAM	100	0	21.49	21.46	21.58	
Channel				20825	21100	21375	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	22.93	23.02	23.02	24
15	QPSK	1	37	23.03	23.00	23.04	
15	QPSK	1	74	22.97	23.04	23.04	
15	QPSK	36	0	21.75	21.84	21.86	
15	QPSK	36	20	21.83	21.90	21.85	23
15	QPSK	36	39	21.86	21.89	21.93	
15	QPSK	75	0	21.92	21.85	21.87	
15	16QAM	1	0	22.28	22.39	22.46	
15	16QAM	1	37	22.10	22.21	22.19	23
15	16QAM	1	74	22.14	22.14	22.36	
15	16QAM	36	0	21.73	21.84	21.86	
15	16QAM	36	20	21.80	21.83	21.82	
15	16QAM	36	39	21.86	21.84	21.73	22
15	16QAM	75	0	21.81	21.89	21.81	
15	64QAM	1	0	21.71	21.68	21.56	
15	64QAM	1	37	21.61	21.76	21.85	
15	64QAM	1	74	21.60	21.72	21.78	22
15	64QAM	36	0	21.45	21.53	21.52	
15	64QAM	36	20	21.56	21.55	21.62	
15	64QAM	36	39	21.60	21.51	21.53	
15	64QAM	75	0	21.45	21.55	21.50	
Channel				20800	21100	21400	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	22.92	22.79	22.82	24
10	QPSK	1	25	22.95	22.85	22.87	
10	QPSK	1	49	22.88	22.85	22.87	
10	QPSK	25	0	21.67	21.67	21.66	
10	QPSK	25	12	21.63	21.75	21.80	23
10	QPSK	25	25	21.58	21.74	21.74	
10	QPSK	50	0	21.65	21.77	21.76	
10	16QAM	1	0	21.90	22.08	21.93	
10	16QAM	1	25	21.89	21.91	21.96	23
10	16QAM	1	49	22.36	22.26	22.17	
10	16QAM	25	0	21.79	21.67	21.75	
10	16QAM	25	12	21.61	21.78	21.71	
10	16QAM	25	25	21.66	21.69	21.61	22
10	16QAM	50	0	21.69	21.78	21.63	
10	64QAM	1	0	21.71	21.67	21.65	
10	64QAM	1	25	21.40	21.65	21.48	
10	64QAM	1	49	21.51	21.75	21.56	22
10	64QAM	25	0	21.37	21.35	21.39	
10	64QAM	25	12	21.39	21.50	21.43	
10	64QAM	25	25	21.32	21.22	21.21	
10	64QAM	50	0	21.26	21.32	21.24	
Channel				20775	21100	21425	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	22.96	22.87	22.77	24
5	QPSK	1	12	22.83	22.76	22.84	
5	QPSK	1	24	22.77	22.83	22.87	
5	QPSK	12	0	21.47	21.55	21.47	
5	QPSK	12	7	21.54	21.69	21.61	23
5	QPSK	12	13	21.56	21.72	21.57	
5	QPSK	25	0	21.57	21.58	21.53	
5	16QAM	1	0	21.75	21.73	21.79	
5	16QAM	1	12	21.80	22.02	21.92	23
5	16QAM	1	24	21.86	22.05	21.87	
5	16QAM	12	0	21.77	21.83	21.74	
5	16QAM	12	7	21.66	21.68	21.64	
5	16QAM	12	13	21.66	21.72	21.85	22
5	16QAM	25	0	21.63	21.68	21.70	
5	64QAM	1	0	21.47	21.52	21.48	
5	64QAM	1	12	21.52	21.64	21.52	
5	64QAM	1	24	21.56	21.66	21.62	22
5	64QAM	12	0	21.27	21.24	21.29	
5	64QAM	12	7	21.36	21.41	21.20	
5	64QAM	12	13	21.31	21.40	21.26	
5	64QAM	25	0	21.26	21.25	21.30	

Band 12 (700MHz Low Band)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				23060	23095	23130	24.5
Frequency (MHz)				704	707.5	711	
10	QPSK	1	0	23.39	23.55	23.44	23.5
10	QPSK	1	25	23.25	23.38	23.41	
10	QPSK	1	49	23.35	23.36	23.35	
10	QPSK	25	0	22.64	22.74	22.65	
10	QPSK	25	12	22.61	22.55	22.34	23.5
10	QPSK	25	25	22.66	22.72	22.65	
10	QPSK	50	0	22.67	22.69	22.60	
10	16QAM	1	0	22.60	22.15	22.28	
10	16QAM	1	25	22.35	22.30	22.44	23.5
10	16QAM	1	49	22.44	22.49	22.38	
10	16QAM	25	0	22.33	22.35	22.29	
10	16QAM	25	12	22.37	22.41	22.30	
10	16QAM	25	25	22.42	22.43	22.37	23.5
10	16QAM	50	0	22.32	22.40	22.45	
10	64QAM	1	0	22.17	22.29	22.63	
10	64QAM	1	25	22.61	22.67	22.26	
10	64QAM	1	49	22.63	22.31	22.24	23.5
10	64QAM	25	0	22.14	22.08	22.05	
10	64QAM	25	12	22.19	22.22	22.14	
10	64QAM	25	25	22.24	22.21	22.21	
10	64QAM	50	0	22.16	22.09	22.20	23.5
Channel				23035	23095	23155	
Frequency (MHz)				701.5	707.5	713.5	Tune-up limit (dBm)
5	QPSK	1	0	23.14	23.47	23.25	24.5
5	QPSK	1	12	23.30	23.46	23.30	
5	QPSK	1	24	23.26	23.45	23.31	
5	QPSK	12	0	22.37	22.44	22.43	
5	QPSK	12	7	22.48	22.50	22.47	23.5
5	QPSK	12	13	22.43	22.46	22.43	
5	QPSK	25	0	22.39	22.51	22.47	
5	16QAM	1	0	22.40	22.42	22.44	
5	16QAM	1	12	22.57	22.52	22.53	23.5
5	16QAM	1	24	22.53	22.51	22.47	
5	16QAM	12	0	22.27	22.24	22.27	
5	16QAM	12	7	22.41	22.46	22.30	
5	16QAM	12	13	22.36	22.33	22.38	23.5
5	16QAM	25	0	22.37	22.33	22.35	
5	64QAM	1	0	22.15	22.16	22.21	
5	64QAM	1	12	22.60	22.30	22.23	
5	64QAM	1	24	22.58	22.27	22.32	23.5
5	64QAM	12	0	22.12	22.14	22.09	
5	64QAM	12	7	22.22	22.10	22.16	
5	64QAM	12	13	22.09	22.19	22.24	
5	64QAM	25	0	22.24	22.20	22.17	23.5
Channel				23025	23095	23165	
Frequency (MHz)				700.5	707.5	714.5	Tune-up limit (dBm)
3	QPSK	1	0	23.22	23.49	23.16	24.5
3	QPSK	1	8	23.40	23.39	23.29	
3	QPSK	1	14	23.34	23.45	23.40	
3	QPSK	8	0	22.45	22.43	22.43	
3	QPSK	8	4	22.48	22.51	22.52	23.5
3	QPSK	8	7	22.43	22.51	22.45	
3	QPSK	15	0	22.42	22.50	22.36	
3	16QAM	1	0	22.43	22.79	22.38	
3	16QAM	1	8	22.63	22.61	22.56	23.5
3	16QAM	1	14	22.46	22.51	22.37	
3	16QAM	8	0	22.43	22.32	22.35	
3	16QAM	8	4	22.48	22.45	22.56	
3	16QAM	8	7	22.32	22.35	22.41	23.5
3	16QAM	15	0	22.30	22.23	22.22	
3	64QAM	1	0	22.16	22.50	22.49	
3	64QAM	1	8	22.45	22.35	22.36	
3	64QAM	1	14	22.38	22.23	22.34	23.5
3	64QAM	8	0	22.05	22.13	22.04	
3	64QAM	8	4	22.14	22.18	22.17	
3	64QAM	8	7	22.13	22.05	22.20	
3	64QAM	15	0	22.12	22.14	22.06	23.5
Channel				23017	23095	23173	
Frequency (MHz)				699.7	707.5	715.3	Tune-up limit (dBm)
1.4	QPSK	1	0	23.25	23.42	23.22	24.5
1.4	QPSK	1	3	23.36	23.35	23.37	
1.4	QPSK	1	5	23.25	23.30	23.26	
1.4	QPSK	3	0	23.20	23.33	23.31	
1.4	QPSK	3	1	23.41	23.41	23.08	23.5
1.4	QPSK	3	3	23.36	23.38	23.34	
1.4	QPSK	6	0	22.42	22.39	22.37	
1.4	16QAM	1	0	22.46	22.40	22.25	
1.4	16QAM	1	3	22.27	22.70	22.37	23.5
1.4	16QAM	1	5	22.39	22.40	22.39	
1.4	16QAM	3	0	22.23	22.26	22.27	
1.4	16QAM	3	1	22.39	22.47	22.31	
1.4	16QAM	3	3	22.22	22.36	22.36	23.5
1.4	16QAM	6	0	22.15	22.35	22.25	
1.4	64QAM	1	0	22.00	22.15	21.99	
1.4	64QAM	1	3	22.12	22.05	22.10	
1.4	64QAM	1	5	22.28	22.31	22.27	23.5
1.4	64QAM	3	0	22.18	22.19	22.02	
1.4	64QAM	3	1	22.16	22.40	22.25	
1.4	64QAM	3	3	22.18	22.02	22.18	
1.4	64QAM	6	0	22.14	22.15	22.02	23.5

Band 17 (700MHz Band)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				23780	23790	23800	24.5
Frequency (MHz)				709	710	711	
10	QPSK	1	0	23.48	23.51	23.48	23.5
10	QPSK	1	25	23.36	23.32	23.38	
10	QPSK	1	49	23.29	23.32	23.27	
10	QPSK	25	0	22.59	22.65	22.57	
10	QPSK	25	12	22.44	22.38	22.52	23.5
10	QPSK	25	25	22.42	22.42	22.51	
10	QPSK	50	0	22.55	22.42	22.43	
10	16QAM	1	0	22.28	22.47	22.61	
10	16QAM	1	25	22.49	22.78	22.62	23.5
10	16QAM	1	49	22.45	22.70	22.75	
10	16QAM	25	0	22.39	22.63	22.62	
10	16QAM	25	12	22.45	22.60	22.58	
10	16QAM	25	25	22.28	22.54	22.59	23.5
10	16QAM	50	0	22.32	22.61	22.58	
10	64QAM	1	0	22.29	22.62	22.30	
10	64QAM	1	25	22.52	22.42	22.32	
10	64QAM	1	49	22.26	22.29	22.29	23.5
10	64QAM	25	0	22.44	22.61	22.59	
10	64QAM	25	12	22.36	22.44	22.61	
10	64QAM	25	25	22.30	22.51	22.67	
10	64QAM	50	0	22.37	22.60	22.61	23.5
Channel				23755	23790	23825	
Frequency (MHz)				706.5	710	713.5	Tune-up limit (dBm)
5	QPSK	1	0	23.42	23.38	23.34	24.5
5	QPSK	1	12	23.41	23.37	23.36	
5	QPSK	1	24	23.33	23.39	23.38	
5	QPSK	12	0	22.49	22.67	22.83	
5	QPSK	12	7	22.61	22.70	22.78	23.5
5	QPSK	12	13	22.44	22.72	22.78	
5	QPSK	25	0	22.47	22.64	22.77	
5	16QAM	1	0	22.95	23.00	22.72	
5	16QAM	1	12	23.12	22.68	23.05	23.5
5	16QAM	1	24	22.96	23.01	23.17	
5	16QAM	12	0	22.40	22.43	22.64	
5	16QAM	12	7	22.40	22.47	22.59	
5	16QAM	12	13	22.31	22.56	22.59	23.5
5	16QAM	25	0	22.41	22.53	22.57	
5	64QAM	1	0	22.21	22.22	22.22	
5	64QAM	1	12	22.25	22.22	22.30	
5	64QAM	1	24	22.30	22.30	22.22	23.5
5	64QAM	12	0	22.36	22.41	22.65	
5	64QAM	12	7	22.49	22.57	22.51	
5	64QAM	12	13	22.34	22.52	22.54	
5	64QAM	25	0	22.31	22.50	22.66	23.5

Band 26 for FCC								
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		
15	QPSK	1	0	23.50	23.54	23.51	24.5	
15	QPSK	1	37	23.48	23.45	23.51		
15	QPSK	1	74	23.46	23.44	23.46		
15	QPSK	36	0	22.82	22.90	22.78	23.5	
15	QPSK	36	20	22.71	22.65	22.50		
15	QPSK	36	39	22.73	22.52	22.58		
15	QPSK	75	0	22.79	22.53	22.60	23.5	
15	16QAM	1	0	22.51	22.66	22.94		
15	16QAM	1	37	22.47	22.58	22.72		
15	16QAM	1	74	22.62	22.51	22.52	23.5	
15	16QAM	36	0	22.62	22.48	22.51		
15	16QAM	36	20	22.57	22.37	22.52		
15	16QAM	36	39	22.64	22.44	22.52	22.5	
15	16QAM	75	0	22.52	22.54	22.54		
15	64QAM	1	0	21.94	21.81	21.63		
15	64QAM	1	37	21.59	21.63	21.73	22.5	
15	64QAM	1	74	21.63	21.59	21.91		
15	64QAM	36	0	21.99	21.80	21.79		
15	64QAM	36	20	22.08	21.80	21.71	22.5	
15	64QAM	36	39	22.06	21.86	21.62		
15	64QAM	75	0	22.00	21.83	21.76		
Channel				26740	26865	26990	Tune-up limit (dBm)	
Frequency (MHz)				819	831.5	844	24.5	
10	QPSK	1	0	23.42	23.46	23.43		
10	QPSK	1	25	23.45	23.44	23.37		
10	QPSK	1	49	23.31	23.44	23.36	23.5	
10	QPSK	25	0	22.84	22.65	22.51		
10	QPSK	25	12	22.80	22.62	22.41		
10	QPSK	25	25	22.79	22.63	22.48	23.5	
10	QPSK	50	0	22.80	22.68	22.50		
10	16QAM	1	0	22.52	22.84	22.61		
10	16QAM	1	25	22.61	22.70	22.75	23.5	
10	16QAM	1	49	22.55	22.54	22.52		
10	16QAM	25	0	22.56	22.70	22.99		
10	16QAM	25	12	22.57	22.73	22.81	23.5	
10	16QAM	25	25	22.74	22.62	22.68		
10	16QAM	50	0	22.91	22.78	22.80		
10	64QAM	1	0	21.89	21.89	21.71	22.5	
10	64QAM	1	25	21.99	21.71	21.73		
10	64QAM	1	49	21.71	21.70	21.70		
10	64QAM	25	0	22.06	21.83	21.78	22.5	
10	64QAM	25	12	21.82	21.84	21.77		
10	64QAM	25	25	21.72	21.85	21.60		
10	64QAM	50	0	22.02	21.81	21.74	Tune-up limit (dBm)	
Channel				26715	26865	27015	Tune-up limit (dBm)	
Frequency (MHz)				816.5	831.5	846.5	24.5	
5	QPSK	1	0	23.41	23.46	23.42		
5	QPSK	1	12	23.36	23.40	23.42		
5	QPSK	1	24	23.32	23.44	23.44	23.5	
5	QPSK	12	0	22.78	22.60	22.49		
5	QPSK	12	7	22.88	22.59	22.59		
5	QPSK	12	13	22.77	22.54	22.48	23.5	
5	QPSK	25	0	22.81	22.62	22.67		
5	16QAM	1	0	22.52	22.52	22.53		
5	16QAM	1	12	22.56	22.46	22.43	23.5	
5	16QAM	1	24	22.61	22.61	22.66		
5	16QAM	12	0	22.89	22.71	22.69		
5	16QAM	12	7	22.74	22.76	22.45	23.5	
5	16QAM	12	13	22.86	22.71	22.50		
5	16QAM	25	0	22.41	22.55	22.52		
5	64QAM	1	0	21.90	21.72	21.70	22.5	
5	64QAM	1	12	21.79	21.90	21.71		
5	64QAM	1	24	21.73	21.70	21.70		
5	64QAM	12	0	22.00	21.78	21.61	22.5	
5	64QAM	12	7	21.59	21.91	21.62		
5	64QAM	12	13	21.99	21.88	21.54		
5	64QAM	25	0	21.99	21.78	21.60	Tune-up limit (dBm)	
Channel				26705	26865	27025	Tune-up limit (dBm)	
Frequency (MHz)				815.5	831.5	847.5	24.5	
3	QPSK	1	0	23.45	23.42	23.47		
3	QPSK	1	8	23.36	23.44	23.36		
3	QPSK	1	14	23.41	23.37	23.43	23.5	
3	QPSK	8	0	22.68	22.52	22.71		
3	QPSK	8	4	22.85	22.59	22.48		
3	QPSK	8	7	22.85	22.58	22.69	23.5	
3	QPSK	15	0	22.70	22.50	22.60		
3	16QAM	1	0	22.81	22.75	22.76		
3	16QAM	1	8	22.80	22.69	22.72	23.5	
3	16QAM	1	14	22.78	22.63	22.63		
3	16QAM	8	0	22.87	22.50	22.57		
3	16QAM	8	4	22.81	22.48	22.52	23.5	
3	16QAM	8	7	22.57	22.54	22.48		
3	16QAM	15	0	22.64	22.51	22.61		
3	64QAM	1	0	21.59	22.03	21.82	22.5	
3	64QAM	1	8	21.89	21.99	21.73		
3	64QAM	1	14	21.83	21.99	21.89		
3	64QAM	8	0	21.72	21.77	21.67	22.5	
3	64QAM	8	4	21.72	21.81	21.67		
3	64QAM	8	7	21.99	21.87	21.66		
3	64QAM	15	0	21.99	21.85	21.64	Tune-up limit (dBm)	
Channel				26697	26865	27033	Tune-up limit (dBm)	
Frequency (MHz)				814.7	831.5	848.3	24.5	
1.4	QPSK	1	0	23.32	23.42	23.42		
1.4	QPSK	1	3	23.31	23.42	23.34		
1.4	QPSK	1	5	23.31	23.33	23.33	24.5	
1.4	QPSK	3	0	23.45	23.33	23.35		
1.4	QPSK	3	1	23.36	23.36	23.41		
1.4	QPSK	3	3	23.36	23.42	23.44	23.5	
1.4	QPSK	6	0	22.46	22.68	22.71		
1.4	16QAM	1	0	22.51	22.58	22.58		
1.4	16QAM	1	3	22.58	22.52	22.52	23.5	
1.4	16QAM	1	5	22.67	22.81	22.62		

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	22.98	23.04	23.02	24
20	QPSK	1	49	22.83	22.82	22.78	
20	QPSK	1	99	22.76	22.75	22.78	
20	QPSK	50	0	22.21	22.28	22.24	23
20	QPSK	50	24	22.02	22.04	22.17	
20	QPSK	50	50	22.06	22.14	22.02	
20	QPSK	100	0	22.04	22.04	21.96	23
20	16QAM	1	0	22.09	21.85	22.13	
20	16QAM	1	49	22.14	21.88	21.94	
20	16QAM	1	99	22.14	22.32	22.11	23
20	16QAM	50	0	22.26	22.23	22.20	
20	16QAM	50	24	22.15	22.15	22.16	
20	16QAM	50	50	22.12	22.04	22.00	23
20	16QAM	100	0	22.08	22.11	22.17	
20	64QAM	1	0	22.24	22.01	22.34	
20	64QAM	1	49	22.01	22.34	22.33	23
20	64QAM	1	99	22.24	22.36	22.44	
20	64QAM	50	0	22.20	22.10	22.23	
20	64QAM	50	24	22.14	22.08	22.20	23
20	64QAM	50	50	22.16	22.04	22.10	
20	64QAM	100	0	22.15	22.15	22.13	
Channel				132047	132322	132597	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	22.84	22.88	22.86	
15	QPSK	1	37	22.98	22.84	22.82	24
15	QPSK	1	74	22.82	22.78	22.76	
15	QPSK	36	0	22.03	22.00	22.04	
15	QPSK	36	20	22.03	21.95	22.05	23
15	QPSK	36	39	21.89	21.94	21.91	
15	QPSK	75	0	21.98	22.02	21.95	
15	16QAM	1	0	21.97	21.84	22.14	23
15	16QAM	1	37	21.84	22.14	22.07	
15	16QAM	1	74	21.94	21.84	21.84	
15	16QAM	36	0	22.15	22.15	22.06	23
15	16QAM	36	20	22.18	22.17	22.23	
15	16QAM	36	39	22.10	22.25	22.19	
15	16QAM	75	0	22.20	22.18	22.14	23
15	64QAM	1	0	22.34	22.24	22.34	
15	64QAM	1	37	22.36	22.14	22.24	
15	64QAM	1	74	22.01	22.27	22.34	23
15	64QAM	36	0	22.13	22.12	22.25	
15	64QAM	36	20	22.23	22.19	22.20	
15	64QAM	36	39	22.12	22.06	22.10	23
15	64QAM	75	0	22.14	22.16	22.13	
Channel				132022	132322	132622	
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	22.82	22.82	22.83	
10	QPSK	1	25	22.72	22.70	22.78	24
10	QPSK	1	49	22.86	22.74	22.64	
10	QPSK	25	0	22.29	22.22	22.29	
10	QPSK	25	12	22.26	22.45	22.23	23
10	QPSK	25	25	22.27	22.23	22.15	
10	QPSK	50	0	22.35	22.20	22.39	
10	16QAM	1	0	22.27	22.27	22.47	23
10	16QAM	1	25	22.27	22.36	22.48	
10	16QAM	1	49	22.10	22.30	22.18	
10	16QAM	25	0	22.11	22.28	22.16	23
10	16QAM	25	12	22.10	22.30	22.21	
10	16QAM	25	25	22.01	22.06	22.06	
10	16QAM	50	0	22.17	22.21	22.22	23
10	64QAM	1	0	22.17	22.17	21.84	
10	64QAM	1	25	21.84	21.97	21.87	
10	64QAM	1	49	21.84	21.84	21.84	23
10	64QAM	25	0	22.17	22.15	22.17	
10	64QAM	25	12	22.16	22.20	22.24	
10	64QAM	25	25	22.16	22.09	22.11	23
10	64QAM	50	0	22.06	22.16	22.17	
Channel				131997	132322	132647	
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	22.71	22.74	22.79	
5	QPSK	1	12	22.74	22.74	22.73	24
5	QPSK	1	24	22.82	22.72	22.78	
5	QPSK	12	0	21.98	22.00	21.98	
5	QPSK	12	7	22.00	22.08	22.01	23
5	QPSK	12	13	21.91	21.97	21.98	
5	QPSK	25	0	22.01	22.02	22.01	
5	16QAM	1	0	22.50	22.19	22.20	23
5	16QAM	1	12	22.13	22.42	22.37	
5	16QAM	1	24	22.25	22.14	22.49	
5	16QAM	12	0	22.14	22.25	22.21	23
5	16QAM	12	7	22.31	22.23	22.35	
5	16QAM	12	13	22.22	22.16	22.23	
5	16QAM	25	0	22.23	22.25	22.17	23
5	64QAM	1	0	21.84	22.24	22.04	
5	64QAM	1	12	22.14	22.14	22.14	
5	64QAM	1	24	21.97	22.01	21.97	23
5	64QAM	12	0	22.21	21.96	22.17	
5	64QAM	12	7	22.29	21.88	22.19	
5	64QAM	12	13	22.12	22.24	22.19	23
5	64QAM	25	0	22.19	22.27	22.14	
Channel				131987	132322	132657	
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	22.78	22.69	22.68	
3	QPSK	1	8	22.65	22.66	22.74	24
3	QPSK	1	14	22.56	22.37	22.67	
3	QPSK	8	0	22.24	22.21	22.25	
3	QPSK	8	4	22.24	22.16	22.26	23
3	QPSK	8	7	22.10	22.15	22.12	
3	QPSK	15	0	22.19	22.23	22.16	
3	16QAM	1	0	21.88	22.29	22.05	23
3	16QAM	1	8	22.21	22.15	22.14	
3	16QAM	1	14	22.25	22.14	21.84	

1.4	16QAM	3	0	22.68	22.44	22.69	22.5
1.4	16QAM	3	1	22.68	22.47	22.60	
1.4	16QAM	3	3	22.68	22.45	22.41	
1.4	16QAM	6	0	23.04	23.01	22.99	23.5
1.4	64QAM	1	0	21.93	21.90	21.95	22.5
1.4	64QAM	1	3	21.99	21.99	21.99	
1.4	64QAM	1	5	21.89	21.92	22.03	
1.4	64QAM	3	0	21.98	21.99	21.99	
1.4	64QAM	3	1	22.03	21.91	21.95	
1.4	64QAM	3	3	21.95	21.99	21.90	22.5
1.4	64QAM	6	0	22.02	21.95	21.66	

3	16QAM	8	0	22.06	22.06	21.97	23
3	16QAM	8	4	22.09	22.08	22.14	
3	16QAM	8	7	22.01	22.16	22.10	
3	16QAM	15	0	22.11	22.09	22.05	23
3	64QAM	1	0	22.25	22.15	22.25	
3	64QAM	1	8	22.27	22.05	22.15	
3	64QAM	1	14	21.92	22.18	22.25	23
3	64QAM	8	0	22.04	22.03	22.16	
3	64QAM	8	4	22.14	22.10	22.11	
3	64QAM	8	7	22.03	21.97	22.01	23
3	64QAM	15	0	22.05	22.07	22.04	
Channel				131979	132322	132865	Turn-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	22.72	22.63	22.64	24
1.4	QPSK	1	3	22.78	22.80	22.80	
1.4	QPSK	1	5	22.70	22.58	22.74	
1.4	QPSK	3	0	22.69	22.62	22.69	
1.4	QPSK	3	1	22.66	22.72	22.63	
1.4	QPSK	3	3	22.67	22.63	22.55	23
1.4	QPSK	6	0	22.27	22.12	22.31	
1.4	16QAM	1	0	22.19	22.19	22.39	
1.4	16QAM	1	3	22.19	22.28	22.40	
1.4	16QAM	1	5	22.02	22.22	22.10	
1.4	16QAM	3	0	21.97	21.94	22.20	23
1.4	16QAM	3	1	22.06	21.96	22.08	
1.4	16QAM	3	3	22.07	22.08	22.02	
1.4	16QAM	6	0	21.96	21.87	21.88	
1.4	64QAM	1	0	22.30	22.15	22.31	
1.4	64QAM	1	3	22.03	22.12	22.12	23
1.4	64QAM	1	5	22.00	22.00	22.11	
1.4	64QAM	3	0	22.09	22.07	22.09	
1.4	64QAM	3	1	22.08	22.12	22.16	
1.4	64QAM	3	3	22.08	22.01	22.03	
1.4	64QAM	6	0	21.98	22.08	22.09	23

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	23.00	23.07	23.04	24
20	QPSK	1	49	22.99	23.01	23.01	
20	QPSK	1	99	22.91	22.97	22.94	
20	QPSK	50	0	22.11	22.33	22.19	
20	QPSK	50	24	22.04	22.11	22.07	23
20	QPSK	50	50	22.08	22.13	22.07	
20	QPSK	100	0	21.96	22.07	22.10	
20	16QAM	1	0	22.08	22.08	22.01	
20	16QAM	1	49	22.07	21.67	22.07	23
20	16QAM	1	99	22.23	22.22	22.33	
20	16QAM	50	0	22.08	22.22	21.83	
20	16QAM	50	24	22.19	22.01	21.92	
20	16QAM	50	50	22.18	21.82	21.86	23
20	16QAM	100	0	22.19	22.22	21.88	
20	64QAM	1	0	22.00	22.28	22.31	
20	64QAM	1	49	22.00	22.19	22.29	
20	64QAM	1	99	22.02	22.29	22.33	23
20	64QAM	50	0	22.01	22.00	21.89	
20	64QAM	50	24	22.03	21.99	21.98	
20	64QAM	50	50	22.01	21.78	22.00	
20	64QAM	100	0	22.01	21.97	21.88	
Channel				37825	38000	38175	Tune-up limit (dbm)
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	22.91	22.91	22.92	24
15	QPSK	1	37	22.92	22.84	22.95	
15	QPSK	1	74	22.73	22.95	22.92	
15	QPSK	36	0	22.04	22.29	22.33	
15	QPSK	36	20	22.24	22.33	22.29	23
15	QPSK	36	39	22.31	22.29	22.22	
15	QPSK	75	0	22.19	22.19	22.20	
15	16QAM	1	0	22.27	22.29	22.19	
15	16QAM	1	37	22.29	22.33	22.01	23
15	16QAM	1	74	22.30	22.20	22.00	
15	16QAM	36	0	22.07	22.03	21.92	
15	16QAM	36	20	22.05	22.19	21.96	
15	16QAM	36	39	22.07	22.09	21.94	23
15	16QAM	75	0	22.03	21.98	21.92	
15	64QAM	1	0	22.14	22.03	22.19	
15	64QAM	1	37	22.02	22.03	22.01	
15	64QAM	1	74	21.97	22.05	22.22	23
15	64QAM	36	0	21.89	22.04	21.97	
15	64QAM	36	20	22.17	22.03	21.91	
15	64QAM	36	39	22.01	22.01	22.02	
15	64QAM	75	0	22.19	22.01	22.05	
Channel				37800	38000	38200	Tune-up limit (dbm)
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	22.94	22.95	22.95	24
10	QPSK	1	25	22.94	22.74	22.94	
10	QPSK	1	49	22.88	22.90	22.93	
10	QPSK	25	0	22.03	21.89	21.89	
10	QPSK	25	12	22.26	22.22	21.93	23
10	QPSK	25	25	22.27	22.29	21.89	
10	QPSK	50	0	22.25	22.17	21.89	
10	16QAM	1	0	22.11	21.88	22.19	
10	16QAM	1	25	21.99	21.89	22.29	23
10	16QAM	1	49	22.36	21.92	22.01	
10	16QAM	25	0	21.89	22.00	21.96	
10	16QAM	25	12	22.19	21.89	22.02	
10	16QAM	25	25	21.89	22.03	22.08	23
10	16QAM	50	0	22.01	22.05	21.97	
10	64QAM	1	0	22.01	22.04	21.97	
10	64QAM	1	25	21.92	22.17	22.07	
10	64QAM	1	49	22.28	22.02	22.07	23
10	64QAM	25	0	21.87	21.87	21.97	
10	64QAM	25	12	21.87	22.07	22.08	
10	64QAM	25	25	21.83	22.03	21.99	
10	64QAM	50	0	21.89	22.05	21.95	
Channel				37775	38000	38225	Tune-up limit (dbm)
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	22.80	22.90	22.74	24
5	QPSK	1	12	22.74	22.95	22.93	
5	QPSK	1	24	22.74	22.73	22.72	
5	QPSK	12	0	22.16	22.64	22.23	
5	QPSK	12	7	22.30	22.29	22.29	23
5	QPSK	12	13	22.18	22.20	22.22	
5	QPSK	25	0	22.22	22.23	21.89	
5	16QAM	1	0	22.40	22.51	22.41	
5	16QAM	1	12	22.01	22.19	21.89	23
5	16QAM	1	24	22.01	22.02	22.01	
5	16QAM	12	0	22.02	22.07	22.01	
5	16QAM	12	7	22.01	22.03	22.01	
5	16QAM	12	13	21.92	22.04	22.01	23
5	16QAM	25	0	22.19	21.91	22.09	
5	64QAM	1	0	21.95	22.28	21.89	
5	64QAM	1	12	22.22	22.22	22.29	
5	64QAM	1	24	22.22	22.22	22.19	23
5	64QAM	12	0	21.93	22.05	22.01	
5	64QAM	12	7	22.02	22.03	21.94	
5	64QAM	12	13	22.01	22.04	21.91	
5	64QAM	25	0	22.05	22.07	21.98	

Band 40 (2.3G Band-1)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				38750			
Frequency (MHz)				2310			
10	QPSK	1	0		22.84		24
10	QPSK	1	25		22.75		
10	QPSK	1	49		22.73		
10	QPSK	25	0		22.14		23
10	QPSK	25	12		22.01		
10	QPSK	25	25		22.06		
10	QPSK	50	0		21.84		23
10	16QAM	1	0		21.93		
10	16QAM	1	25		21.91		
10	16QAM	1	49		21.95		23
10	16QAM	25	0		21.84		
10	16QAM	25	12		21.91		
10	16QAM	25	25		21.88		23
10	16QAM	50	0		21.95		
10	64QAM	1	0		22.02		
10	64QAM	1	25		21.81		23
10	64QAM	1	49		22.07		
10	64QAM	25	0		21.64		
10	64QAM	25	12		21.84		23
10	64QAM	25	25		21.91		
10	64QAM	50	0		21.84		
Channel				38725	38750	38775	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	QPSK	1	0	22.78	22.73	22.64	24
5	QPSK	1	12	22.69	22.68	22.79	
5	QPSK	1	24	22.75	22.77	22.61	
5	QPSK	12	0	21.94	21.87	21.99	23
5	QPSK	12	7	21.99	21.85	21.95	
5	QPSK	12	13	21.87	21.83	21.86	
5	QPSK	25	0	21.90	21.76	21.97	23
5	16QAM	1	0	21.94	21.91	21.99	
5	16QAM	1	12	22.10	22.01	22.08	
5	16QAM	1	24	22.02	21.91	21.90	23
5	16QAM	12	0	21.86	21.76	21.92	
5	16QAM	12	7	21.88	21.82	21.85	
5	16QAM	12	13	21.95	21.73	21.92	23
5	16QAM	25	0	21.92	21.84	21.87	
5	64QAM	1	0	22.04	22.07	21.82	
5	64QAM	1	12	22.05	21.45	21.41	23
5	64QAM	1	24	22.08	21.69	21.45	
5	64QAM	12	0	21.83	21.89	21.99	
5	64QAM	12	7	21.88	21.92	21.95	23
5	64QAM	12	13	21.92	21.87	21.89	
5	64QAM	25	0	21.93	21.89	21.92	

Band 40 (2.3G Band-2)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				39200			
Frequency (MHz)				2355			
10	QPSK	1	0		22.83		24
10	QPSK	1	25		22.74		
10	QPSK	1	49		22.70		
10	QPSK	25	0		22.04		23
10	QPSK	25	12		21.96		
10	QPSK	25	25		21.97		
10	QPSK	50	0		21.94		23
10	16QAM	1	0		22.04		
10	16QAM	1	25		21.95		
10	16QAM	1	49		21.87		23
10	16QAM	25	0		21.99		
10	16QAM	25	12		22.02		
10	16QAM	25	25		22.01		23
10	16QAM	50	0		21.98		
10	64QAM	1	0		22.07		
10	64QAM	1	25		22.00		23
10	64QAM	1	49		21.84		
10	64QAM	25	0		21.96		
10	64QAM	25	12		21.95		23
10	64QAM	25	25		21.92		
10	64QAM	50	0		21.81		
Channel				39175	39200	39225	Tune-up limit (dBm)
Frequency (MHz)				2352.5	2355	2357.5	
5	QPSK	1	0	22.71	22.66	22.75	24
5	QPSK	1	12	22.66	22.70	22.73	
5	QPSK	1	24	22.59	22.78	22.78	
5	QPSK	12	0	21.94	21.93	21.99	23
5	QPSK	12	7	21.96	21.97	21.99	
5	QPSK	12	13	21.94	21.97	21.97	
5	QPSK	25	0	21.89	21.87	22.03	23
5	16QAM	1	0	22.00	22.06	22.04	
5	16QAM	1	12	21.95	21.93	21.99	
5	16QAM	1	24	21.84	21.75	21.82	23
5	16QAM	12	0	21.92	21.88	22.05	
5	16QAM	12	7	21.84	21.97	22.05	
5	16QAM	12	13	21.90	21.91	21.87	23
5	16QAM	25	0	21.97	21.92	22.01	
5	64QAM	1	0	22.05	21.70	21.74	
5	64QAM	1	12	22.16	21.54	21.66	23
5	64QAM	1	24	22.17	21.72	21.61	
5	64QAM	12	0	21.83	21.86	21.94	
5	64QAM	12	7	21.79	21.80	21.87	23
5	64QAM	12	13	21.84	21.85	21.88	
5	64QAM	25	0	21.92	21.86	21.93	

Band 41 (2535~2655MHz)									
BW [MHz]	Modulation	RB Size	RB Offset	Low channel	Middle Low Channel	Middle Channel	Middle High Channel	High Channel	Tune-up limit (dBm)
Channel				40140	40390	40640	40890	41140	
Frequency (MHz)				2545	2570	2595	2620	2645	
20	QPSK	1	0	22.98	23.08	23.10	23.03	23.04	24
20	QPSK	1	49	22.94	23.03	23.03	23.04	23.04	
20	QPSK	1	99	22.88	23.04	22.99	23.09	22.84	
20	QPSK	50	0	22.14	22.16	22.20	22.18	22.13	
20	QPSK	50	24	22.14	22.12	21.97	21.94	21.94	23
20	QPSK	50	50	22.17	22.10	21.98	21.97	22.04	
20	QPSK	100	0	22.14	22.17	22.04	21.98	21.94	
20	16QAM	1	0	22.18	22.34	21.97	22.04	21.94	
20	16QAM	1	49	22.17	22.22	21.97	21.92	21.94	23
20	16QAM	1	99	22.24	22.14	22.04	22.02	22.04	
20	16QAM	50	0	22.15	22.24	21.97	22.27	21.94	
20	16QAM	50	24	22.13	22.45	21.94	22.04	21.94	
20	16QAM	50	50	22.19	22.51	22.40	22.01	22.04	23
20	16QAM	100	0	22.13	22.44	22.39	22.08	21.97	
20	64QAM	1	0	22.28	22.19	22.19	22.02	21.98	
20	64QAM	1	49	22.21	22.31	22.01	22.30	21.98	
20	64QAM	1	99	22.11	22.06	21.97	22.06	21.94	23
20	64QAM	50	0	22.07	22.03	22.00	21.95	22.04	
20	64QAM	50	24	21.92	22.19	22.07	22.04	21.97	
20	64QAM	50	50	22.02	22.18	22.21	22.10	22.03	
20	64QAM	100	0	22.00	22.28	22.24	21.92	22.04	
Channel				40115	40378	40640	40903	41165	Tune-up limit (dBm)
Frequency (MHz)				2542.5	2568.8	2595	2621.3	2647.5	
15	QPSK	1	0	22.64	22.80	23.00	22.87	22.86	24
15	QPSK	1	37	22.63	22.98	23.04	22.87	22.97	
15	QPSK	1	74	22.63	22.96	22.97	22.80	22.77	
15	QPSK	36	0	21.80	22.14	21.99	22.19	22.80	
15	QPSK	36	20	22.05	22.19	21.95	22.15	22.87	23
15	QPSK	36	39	22.21	22.22	21.94	22.18	22.82	
15	QPSK	75	0	21.99	22.24	21.97	22.21	22.79	
15	16QAM	1	0	21.93	22.05	22.34	21.99	21.79	
15	16QAM	1	37	22.14	22.22	21.91	22.05	21.88	23
15	16QAM	1	74	22.10	22.14	21.48	21.89	21.81	
15	16QAM	36	0	21.97	22.21	21.88	22.08	22.26	
15	16QAM	36	20	22.02	22.15	21.84	22.04	22.28	
15	16QAM	36	39	22.09	22.28	22.38	22.08	22.04	23
15	16QAM	75	0	22.00	22.29	21.86	22.08	21.64	
15	64QAM	1	0	22.10	22.00	22.24	21.88	22.38	
15	64QAM	1	37	22.38	22.14	22.38	22.01	21.50	
15	64QAM	1	74	22.35	22.07	22.17	22.35	21.23	23
15	64QAM	36	0	21.79	22.13	21.95	22.09	21.87	
15	64QAM	36	20	21.94	22.24	22.39	22.02	21.76	
15	64QAM	36	39	21.89	22.23	22.36	22.08	21.68	
15	64QAM	75	0	21.87	22.24	22.36	22.12	21.76	
Channel				40090	40365	40640	40915	41190	Tune-up limit (dBm)
Frequency (MHz)				2540	2567.5	2595	2622.5	2650	
10	QPSK	1	0	22.68	22.89	22.97	22.85	22.84	24
10	QPSK	1	25	22.88	22.94	22.84	22.80	22.79	
10	QPSK	1	49	22.65	22.81	23.04	23.04	22.80	
10	QPSK	25	0	21.98	22.39	22.27	22.23	22.04	
10	QPSK	25	12	22.04	22.38	22.16	22.23	22.04	23
10	QPSK	25	25	22.08	22.47	22.11	22.27	22.40	
10	QPSK	50	0	22.13	22.51	22.19	22.25	21.64	
10	16QAM	1	0	21.99	21.86	22.01	22.26	21.84	
10	16QAM	1	25	22.17	21.95	22.16	22.09	21.88	23
10	16QAM	1	49	22.03	21.91	22.08	22.22	22.03	
10	16QAM	25	0	22.03	21.94	22.22	22.40	21.69	
10	16QAM	25	12	22.16	21.91	22.08	22.34	21.45	
10	16QAM	25	25	22.13	21.98	22.20	22.47	21.98	23
10	16QAM	50	0	22.11	21.94	22.18	22.36	21.72	
10	64QAM	1	0	21.73	22.09	21.69	22.03	22.09	
10	64QAM	1	25	21.76	22.21	21.86	22.08	22.04	
10	64QAM	1	49	21.74	22.10	21.73	21.99	21.85	23
10	64QAM	25	0	21.81	22.24	21.94	22.12	22.01	
10	64QAM	25	12	21.84	22.21	21.83	22.12	21.76	
10	64QAM	25	25	21.93	22.25	21.92	22.09	21.99	
10	64QAM	50	0	21.89	22.22	21.97	22.18	22.05	
Channel				40065	40353	40640	40928	41215	Tune-up limit (dBm)
Frequency (MHz)				2537.5	2566.3	2595	2623.80	2652.5	
5	QPSK	1	0	22.65	22.74	22.97	22.94	22.75	24
5	QPSK	1	12	22.64	22.89	22.84	22.97	22.79	
5	QPSK	1	24	22.77	22.80	22.94	22.67	22.80	
5	QPSK	12	0	21.98	22.12	22.16	22.25	21.96	
5	QPSK	12	7	22.06	22.25	22.01	22.31	22.18	23
5	QPSK	12	13	22.00	22.25	22.23	22.37	22.24	
5	QPSK	25	0	22.03	22.26	22.24	22.39	22.17	
5	16QAM	1	0	22.27	22.09	22.25	21.94	22.08	
5	16QAM	1	12	21.88	22.26	22.42	22.10	21.98	23
5	16QAM	1	24	21.74	22.12	22.23	21.95	22.24	
5	16QAM	12	0	21.92	21.87	22.09	22.07	22.04	
5	16QAM	12	7	22.04	21.82	22.19	22.18	22.17	
5	16QAM	12	13	22.10	21.95	22.09	22.11	21.96	23
5	16QAM	25	0	22.02	21.83	22.17	22.18	21.94	
5	64QAM	1	0	22.29	22.14	22.41	21.96	21.99	
5	64QAM	1	12	22.29	22.15	22.34	22.05	21.95	
5	64QAM	1	24	22.14	22.00	22.27	21.91	22.28	23
5	64QAM	12	0	22.09	22.18	21.87	21.99	21.95	
5	64QAM	12	7	22.10	21.66	21.95	22.17	22.03	
5	64QAM	12	13	22.08	21.65	21.74	22.05	21.94	
5	64QAM	25	0	21.82	21.65	21.80	22.14	21.76	

2.4GHz WLAN ANT 2

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
2.4GHz WLAN ANT 2	802.11b 1Mbps	CH 1	2412	18.69	20.00	18	98.78
		CH 6	2437	17.71	19.00	18	
		CH 11	2462	17.47	19.00	18	
	802.11g 6Mbps	CH 1	2412	18.09	20.00	17	91.13
		CH 6	2437	17.10	19.00	17	
		CH 11	2462	16.75	18.00	17	
	802.11n-HT20 MCS0	CH 1	2412	18.27	20.00	17	90.76
		CH 6	2437	17.66	19.00	17	
		CH 11	2462	17.29	19.00	17	
	802.11n-HT40 MCS0	CH 3	2422	16.49	18.00	17	79.85
		CH 6	2437	16.58	18.00	17	
		CH 9	2452	17.53	19.00	17	

5GHz WLAN ANT 2

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
5.2GHz WLAN ANT 2	802.11a 6Mbps	CH 36	5180	16.35	18.00	17	91.10
		CH 44	5220	16.39	18.00	17	
		CH 48	5240	16.80	18.00	17	
	802.11n-HT20 MCS0	CH 36	5180	15.34	17.00	17	91.21
		CH 44	5220	15.77	17.00	17	
		CH 48	5240	16.52	18.00	17	
	802.11n-HT40 MCS0	CH 38	5190	16.31	18.00	17	88.77
		CH 46	5230	16.78	18.00	17	
		CH 36	5180	16.19	18.00	17	90.91
	802.11ac-VHT20 MCS0	CH 44	5220	16.25	18.00	17	
		CH 48	5240	16.66	18.00	17	
	802.11ac-VHT40 MCS0	CH 38	5190	15.92	17.00	17	80.00
		CH 46	5230	16.18	18.00	17	
		CH 42	5210	15.66	17.00	17	70.76

5GHz WLAN ANT 2

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
5.3GHz WLAN ANT 2	802.11a 6Mbps	CH 52	5260	16.86	18.00	17	91.10
		CH 60	5300	17.03	19.00	17	
		CH 64	5320	16.88	18.00	17	
	802.11n-HT20 MCS0	CH 52	5260	16.47	18.00	17	91.21
		CH 60	5300	16.10	18.00	17	
		CH 64	5320	16.37	18.00	17	
	802.11n-HT40 MCS0	CH 54	5270	17.02	19.00	17	88.77
		CH 62	5310	16.70	18.00	17	
		CH 52	5260	16.60	18.00	17	90.91
	802.11ac-VHT20 MCS0	CH 60	5300	16.64	18.00	17	
		CH 64	5320	16.57	18.00	17	
	802.11ac-VHT40 MCS0	CH 54	5270	16.37	18.00	17	80.00
		CH 62	5310	16.04	18.00	17	
		CH 58	5290	15.68	17.00	17	70.76

5GHz WLAN ANT 2

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
5.5GHz WLAN ANT 2	802.11a 6Mbps	CH 100	5500	15.96	17.50	17	91.10
		CH 120	5600	16.66	18.00	17	
		CH 140	5700	16.27	18.00	17	
	802.11n-HT20 MCS0	CH 100	5500	15.55	17.00	17	91.21
		CH 120	5600	15.74	17.00	17	
		CH 140	5700	15.49	17.00	17	
	802.11n-HT40 MCS0	CH 102	5510	15.93	17.50	17	88.77
		CH 126	5630	16.90	18.50	17	
		CH 134	5670	16.28	18.00	17	
	802.11ac-VHT20 MCS0	CH 100	5500	15.71	17.00	17	90.91
		CH 120	5600	16.27	18.00	17	

	802.11ac-VHT40 MCS0	CH 140	5700	16.02	18.00	17	80.00
		CH 102	5510	15.23	17.00	17	
		CH 126	5630	16.02	18.00	17	
		CH 134	5670	15.58	17.00	17	
	802.11ac-VHT80 MCS0	CH 106	5530	15.24	17.00	17	70.76
		CH 122	5610	15.48	17.00	17	
		CH 138	5690	15.06	17.00	17	

5GHz WLAN ANT 2

Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
5.8GHz WLAN ANT 2	802.11a MCS0	CH 149	5745	15.28	17.00	91.10
		CH 157	5785	16.12	18.00	
		CH 165	5825	16.17	18.00	
	802.11n-HT20 MCS0	CH 149	5745	15.34	17.00	91.21
		CH 157	5785	15.40	17.00	
		CH 165	5825	15.48	17.00	
	802.11n-HT40 MCS0	CH 151	5755	16.21	18.00	88.77
		CH 159	5795	15.86	17.00	
	802.11ac-VHT20 MCS0	CH 149	5745	15.83	17.00	90.91
		CH 157	5785	15.79	17.00	
		CH 165	5825	15.98	17.50	
	802.11ac-VHT40 MCS0	CH 151	5755	15.56	17.00	80.00
		CH 159	5795	15.28	17.00	
	802.11ac-VHT80 MCS0	CH 155	5775	15.21	17.00	70.76

Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
BR / EDR	CH 00	2402	7.39	6.38	6.17
	CH 39	2441	7.13	6.02	6.12
	CH 78	2480	8.26	7.10	6.99
Tune-up Limit			10	9	8.5
Duty Cycle %			77.6	77.07	77.07

Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
LE	CH 00	2402	-2.68	-2.46	N/A
	CH 19	2440	-4.40	-4.17	N/A
	CH 39	2480	-4.04	-3.77	N/A
Tune-up Limit			0.5	0.5	N/A
Duty Cycle %			31.65	32.54	N/A

Reduced Power Level 1

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		28.33	28.33	28.34	29.50	19.33	19.33	19.34	20.50	0.02
GPRS 1 Tx slot		28.33	28.35	28.33	29.50	19.33	19.35	19.33	20.50	
GPRS 2 Tx slots		26.54	26.56	26.49	27.50	20.54	20.56	20.49	21.50	0.07
GPRS 3 Tx slots		24.50	24.51	24.54	25.50	20.24	20.25	20.28	21.24	0.04
GPRS 4 Tx slots		22.53	22.57	22.52	23.50	19.53	19.57	19.52	20.50	0.05
EDGE 1 Tx slot		21.22	21.24	21.20	22.50	12.22	12.24	12.20	13.50	0.04
EDGE 2 Tx slots		20.61	20.63	20.57	21.50	14.61	14.63	14.57	15.50	0.06
EDGE 3 Tx slots		18.61	18.61	18.59	19.50	14.35	14.35	14.33	15.24	0.02
EDGE 4 Tx slots		16.19	16.21	16.22	17.50	13.19	13.21	13.22	14.50	0.03
Mode			Max.	28.35			Max.	20.56		
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		24.45	24.48	24.43	25.50	15.45	15.48	15.43	16.50	0.06
GPRS 1 Tx slot		24.46	24.49	24.44	25.50	15.46	15.49	15.44	16.50	
GPRS 2 Tx slots		21.80	21.81	21.79	22.50	15.80	15.81	15.79	16.50	0.02
GPRS 3 Tx slots		20.66	20.69	20.65	21.50	16.40	16.43	16.39	17.24	0.04
GPRS 4 Tx slots		18.26	18.31	18.27	19.50	15.26	15.31	15.27	16.50	0.05
EDGE 1 Tx slot		20.54	20.64	20.47	21.50	11.54	11.64	11.47	12.50	0.17
EDGE 2 Tx slots		19.56	19.63	19.46	20.50	13.56	13.63	13.46	14.50	0.17
EDGE 3 Tx slots		17.29	17.37	17.36	18.50	13.03	13.11	13.10	14.24	0.08
EDGE 4 Tx slots		15.58	15.62	15.51	16.50	12.58	12.62	12.51	13.50	0.11
Mode			Max.	24.49			Max.	16.43		
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		15.02	15.05	15.03	16.00	16.09	16.16	16.05	17.00	20.12	20.17	20.14	21.00
3GPP Rel 6 HSDPA Subtest-1		14.13	14.16	14.14	15.00	15.11	15.31	15.06	16.00	19.49	19.24	19.33	20.00
3GPP Rel 6 HSDPA Subtest-2		14.10	14.13	14.06	15.00	15.14	15.23	15.04	16.00	19.45	19.25	19.35	20.00
3GPP Rel 6 HSDPA Subtest-3		14.06	14.14	13.95	15.00	15.12	15.23	15.01	16.00	19.41	19.27	19.31	20.00
3GPP Rel 6 HSDPA Subtest-4		14.08	14.16	13.96	15.00	15.14	15.14	15.02	16.00	19.42	19.30	19.32	20.00
3GPP Rel 8 DC-HSDPA Subtest-1		14.18	14.14	14.29	15.00	15.09	15.15	15.20	16.00	19.68	19.65	19.70	20.50
3GPP Rel 8 DC-HSDPA Subtest-2		14.20	14.10	14.28	15.00	15.18	15.16	15.10	16.00	19.70	19.64	19.64	20.50
3GPP Rel 8 DC-HSDPA Subtest-3		14.28	14.25	14.30	15.00	15.18	15.13	15.19	16.00	19.69	19.65	19.67	20.50
3GPP Rel 8 DC-HSDPA Subtest-4		14.22	14.29	14.28	15.00	15.16	15.10	15.15	16.00	19.68	19.66	19.66	20.50
3GPP Rel 6 HSUPA Subtest-1		13.95	13.94	13.91	14.50	14.67	14.55	14.66	15.50	19.39	19.23	19.31	20.00
3GPP Rel 6 HSUPA Subtest-2		13.93	13.95	13.93	14.50	14.66	14.55	14.68	15.50	19.38	19.20	19.34	20.00
3GPP Rel 6 HSUPA Subtest-3		13.91	13.95	13.80	14.50	14.65	14.53	14.59	15.50	19.32	19.22	19.27	20.00
3GPP Rel 6 HSUPA Subtest-4		13.90	13.89	13.91	14.50	14.63	14.54	14.67	15.50	19.34	19.16	19.20	20.00
3GPP Rel 6 HSUPA Subtest-5		13.89	13.93	13.83	14.50	14.64	14.63	14.60	15.50	19.33	19.21	19.25	20.00
3GPP Rel 7 HSPA+ (16QAM) Subtest-1		13.91	13.93	13.66	14.50	14.73	14.49	14.56	15.50	19.24	19.17	19.27	20.00
Attenuator			Cable Loss	0.8			Cable Loss	0.6			Cable Loss	0.6	
Mode			Max.	15.05			Max.	16.16			Max.	20.17	

Band 2 (1900MHz Band)								
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	15.11	15.14	15.08	16	
20	QPSK	1	49	15.09	15.03	14.96		
20	QPSK	1	99	15.03	14.99	14.97		
20	QPSK	50	0	14.19	14.28	14.21	15	
20	QPSK	50	24	14.20	14.25	14.25		
20	QPSK	50	50	14.25	14.21	14.27		
20	QPSK	100	0	14.18	14.27	14.23	15	
20	16QAM	1	0	14.24	14.24	14.26		
20	16QAM	1	49	14.08	14.38	14.34		
20	16QAM	1	99	14.33	14.18	14.58	15	
20	16QAM	50	0	14.26	14.23	14.21		
20	16QAM	50	24	14.22	14.27	14.28		
20	16QAM	50	50	14.30	14.27	14.34	15	
20	16QAM	100	0	14.33	14.34	14.21		
20	64QAM	1	0	14.28	14.47	14.21	15	
20	64QAM	1	49	14.23	14.41	14.32		
20	64QAM	1	99	14.18	14.51	14.51		
20	64QAM	50	0	14.28	14.20	14.25	15	
20	64QAM	50	24	14.31	14.25	14.30		
20	64QAM	50	50	14.30	14.31	14.25		
20	64QAM	100	0	14.18	14.15	14.16	Tune-up limit (dBm)	
Channel				18675	18900	19125		
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	0	14.92	14.95	14.86	16	
15	QPSK	1	37	14.71	15.07	14.95		
15	QPSK	1	74	15.08	15.00	15.08		
15	QPSK	36	0	14.05	14.14	14.13	15	
15	QPSK	36	20	14.04	14.23	14.20		
15	QPSK	36	39	14.16	14.17	14.14		
15	QPSK	75	0	14.08	14.14	14.10	15	
15	16QAM	1	0	14.17	14.25	14.19		
15	16QAM	1	37	14.30	14.33	14.19		
15	16QAM	1	74	14.25	14.37	14.37	15	
15	16QAM	36	0	14.04	14.09	14.12		
15	16QAM	36	20	14.13	14.06	14.19		
15	16QAM	36	39	14.18	14.27	14.24	15	
15	16QAM	75	0	14.05	14.07	14.16		
15	64QAM	1	0	14.25	14.01	14.07	15	
15	64QAM	1	37	14.24	14.05	14.47		
15	64QAM	1	74	14.13	14.17	14.32		
15	64QAM	36	0	13.98	14.15	14.03	15	
15	64QAM	36	20	14.18	14.20	14.10		
15	64QAM	36	39	14.06	14.11	14.20		
15	64QAM	75	0	14.05	14.12	14.11	Tune-up limit (dBm)	
Channel				18650	18900	19150		
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	0	14.89	14.88	14.98	16	
10	QPSK	1	25	15.00	15.10	14.98		
10	QPSK	1	49	14.89	14.97	14.89		
10	QPSK	25	0	14.16	14.17	14.13	15	
10	QPSK	25	12	14.12	14.24	14.17		
10	QPSK	25	25	14.03	14.16	14.12		
10	QPSK	50	0	14.09	14.18	14.16	15	
10	16QAM	1	0	14.57	14.50	14.49		
10	16QAM	1	25	14.26	14.22	14.29		
10	16QAM	1	49	14.21	14.29	14.08	15	
10	16QAM	25	0	14.11	14.10	14.07		
10	16QAM	25	12	14.27	14.07	14.07		
10	16QAM	25	25	14.07	14.27	14.37	15	
10	16QAM	50	0	14.64	14.57	14.61		
10	64QAM	1	0	14.15	14.20	14.20		
10	64QAM	1	25	14.18	14.23	14.27	15	
10	64QAM	1	49	13.85	13.98	13.95		
10	64QAM	25	0	14.15	14.19	14.20	15	
10	64QAM	25	12	14.18	14.16	14.17		
10	64QAM	25	25	14.11	13.89	14.11		
10	64QAM	50	0	14.12	14.12	14.09	Tune-up limit (dBm)	
Channel				18625	18900	19175		
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	0	15.03	15.08	15.02	16	
5	QPSK	1	12	15.02	14.97	15.00		
5	QPSK	1	24	14.98	15.06	15.07		
5	QPSK	12	0	14.15	14.06	14.13	15	
5	QPSK	12	7	14.16	14.21	14.13		
5	QPSK	12	13	14.15	14.14	14.17		
5	QPSK	25	0	14.14	14.12	14.14	15	
5	16QAM	1	0	14.27	14.17	14.55		
5	16QAM	1	12	14.25	14.18	14.55		
5	16QAM	1	24	14.28	14.15	14.54	15	
5	16QAM	12	0	14.37	14.51	14.37		
5	16QAM	12	7	14.27	14.27	14.07		
5	16QAM	12	13	14.07	14.40	14.17	15	
5	16QAM	25	0	14.17	14.63	14.61		
5	64QAM	1	0	14.37	14.09	14.14		
5	64QAM	1	12	14.53	14.19	14.30	15	
5	64QAM	1	24	14.54	14.18	14.20		
5	64QAM	12	0	14.19	14.12	14.11		
5	64QAM	12	7	14.25	14.09	14.09	15	
5	64QAM	12	13	14.22	14.18	14.16		
5	64QAM	25	0	14.29	14.09	14.16		
Channel				18615	18900	19185	Tune-up limit (dBm)	
Frequency (MHz)				1851.5	1880	1908.5		
3	QPSK	1	0	14.97	15.04	14.96		
3	QPSK	1	8	15.07	15.10	14.93	16	
3	QPSK	1	14	15.08	14.95	14.95		
3	QPSK	8	0	14.03	13.98	14.00	15	
3	QPSK	8	4	14.09	14.03	14.04		
3	QPSK	8	7	14.09	14.03	13.99		
3	QPSK	15	0	14.01	14.09	14.02	15	
3	16QAM	1	0	14.17	14.08	14.02		
3	16QAM	1	8	14.21	14.15	14.11		
3	16QAM	1	14	14.14	14.11	13.99	Tune-up limit (dBm)	

Band 4 (AWS Band)							
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	15.00	15.08	15.07	16
20	QPSK	1	49	14.86	14.94	14.93	
20	QPSK	1	99	14.78	14.91	15.03	
20	QPSK	50	0	14.16	14.20	14.17	15
20	QPSK	50	24	14.07	14.15	14.15	
20	QPSK	50	50	13.96	14.07	14.08	
20	QPSK	100	0	14.06	14.10	14.17	15
20	16QAM	1	0	13.93	14.23	14.10	
20	16QAM	1	49	14.08	13.85	13.99	
20	16QAM	1	99	13.87	14.09	13.93	15
20	16QAM	50	0	14.06	13.99	14.13	
20	16QAM	50	24	14.32	14.43	14.32	
20	16QAM	50	50	14.28	14.29	14.29	15
20	16QAM	100	0	14.30	14.38	14.39	
20	64QAM	1	0	14.04	14.15	14.37	
20	64QAM	1	49	14.08	14.01	13.89	15
20	64QAM	1	99	14.35	13.92	14.39	
20	64QAM	50	0	14.05	14.14	14.09	
20	64QAM	50	24	14.07	14.18	14.12	15
20	64QAM	50	50	14.11	14.06	14.08	
20	64QAM	100	0	14.14	14.12	14.21	
Channel				20025	20175	20325	Tune-up limit (dbm)
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	14.87	14.91	15.01	16
15	QPSK	1	37	14.91	15.00	14.92	
15	QPSK	1	74	14.78	15.00	15.03	
15	QPSK	36	0	14.01	14.08	14.11	15
15	QPSK	36	20	14.05	14.18	14.14	
15	QPSK	36	39	14.10	14.09	14.18	
15	QPSK	75	0	14.05	14.07	14.08	15
15	16QAM	1	0	13.99	14.21	13.93	
15	16QAM	1	37	14.07	14.07	13.91	
15	16QAM	1	74	13.93	14.23	14.02	15
15	16QAM	36	0	13.94	13.96	14.15	
15	16QAM	36	20	13.89	13.96	14.02	
15	16QAM	36	39	13.85	13.94	14.00	15
15	16QAM	75	0	13.96	13.97	14.06	
15	64QAM	1	0	13.91	14.22	14.27	
15	64QAM	1	37	14.33	14.09	14.15	15
15	64QAM	1	74	14.37	14.08	14.12	
15	64QAM	36	0	14.02	14.09	14.13	
15	64QAM	36	20	14.08	14.10	14.12	15
15	64QAM	36	39	14.11	14.07	14.09	
15	64QAM	75	0	14.04	14.15	14.08	
Channel				20000	20175	20350	Tune-up limit (dbm)
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	14.99	14.98	14.81	16
10	QPSK	1	25	14.97	14.90	14.91	
10	QPSK	1	49	14.85	14.68	14.91	
10	QPSK	25	0	13.84	14.06	14.08	15
10	QPSK	25	12	13.96	14.02	14.06	
10	QPSK	25	25	13.85	13.96	14.03	
10	QPSK	50	0	13.91	14.01	13.93	15
10	16QAM	1	0	13.90	14.05	13.81	
10	16QAM	1	25	14.17	13.91	14.23	
10	16QAM	1	49	14.24	14.14	14.13	15
10	16QAM	25	0	13.90	13.89	13.88	
10	16QAM	25	12	13.82	13.92	13.89	
10	16QAM	25	25	14.16	14.07	14.16	15
10	16QAM	50	0	14.10	14.14	14.26	
10	64QAM	1	0	13.96	14.04	13.94	
10	64QAM	1	25	14.03	14.32	14.41	15
10	64QAM	1	49	14.01	14.05	14.00	
10	64QAM	25	0	13.85	13.99	13.98	
10	64QAM	25	12	13.94	14.05	14.09	15
10	64QAM	25	25	13.82	13.94	13.96	
10	64QAM	50	0	13.88	13.95	13.94	
Channel				19975	20175	20375	Tune-up limit (dbm)
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	14.96	14.91	14.96	16
5	QPSK	1	12	14.95	14.90	14.87	
5	QPSK	1	24	14.70	14.82	14.81	
5	QPSK	12	0	13.92	13.92	13.96	15
5	QPSK	12	7	13.92	14.03	14.00	
5	QPSK	12	13	13.87	14.04	13.96	
5	QPSK	25	0	13.90	13.94	14.00	15
5	16QAM	1	0	13.80	14.21	13.89	
5	16QAM	1	12	13.91	14.26	13.85	
5	16QAM	1	24	13.85	14.20	13.80	15
5	16QAM	12	0	13.84	13.78	13.81	
5	16QAM	12	7	13.87	13.91	13.89	
5	16QAM	12	13	14.14	14.21	14.25	15
5	16QAM	25	0	14.15	14.26	14.19	
5	64QAM	1	0	13.92	14.36	14.34	
5	64QAM	1	12	14.30	14.06	14.33	15
5	64QAM	1	24	14.26	13.96	14.03	
5	64QAM	12	0	13.93	14.00	14.02	
5	64QAM	12	7	13.92	14.01	14.07	15
5	64QAM	12	13	13.93	13.99	13.98	
5	64QAM	25	0	13.88	14.02	13.93	
Channel				19995	20175	20385	Tune-up limit (dbm)
Frequency (MHz)				1711.5	1732.5	1753.5	
3	QPSK	1	0	14.81	14.82	14.94	16
3	QPSK	1	8	14.90	15.04	14.98	
3	QPSK	1	14	14.70	14.89	14.89	
3	QPSK	8	0	13.90	13.96	13.97	15
3	QPSK	8	4	13.96	14.04	14.06	
3	QPSK	8	7	13.92	14.02	14.02	
3	QPSK	15	0	13.92	13.98	13.92	15
3	16QAM	1	0	14.00	14.09	14.13	
3	16QAM	1	8	14.22	14.22	13.96	
3	16QAM	1	14	14.13	13.91	13.99	

3	16QAM	8	0	14.57	14.70	14.62	15
3	16QAM	8	4	14.64	14.61	14.67	
3	16QAM	8	7	14.54	14.59	14.62	
3	16QAM	15	0	14.57	14.61	14.56	
3	64QAM	1	0	14.10	14.03	14.06	15
3	64QAM	1	8	14.52	14.51	14.11	
3	64QAM	1	14	14.13	14.49	14.13	
3	64QAM	8	0	14.05	14.07	13.91	
3	64QAM	8	4	14.15	14.05	14.05	15
3	64QAM	8	7	14.25	14.14	14.00	
3	64QAM	15	0	14.10	14.10	14.08	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	15.03	15.06	15.01	16
1.4	QPSK	1	3	14.93	14.91	14.90	
1.4	QPSK	1	5	14.90	14.88	14.86	
1.4	QPSK	3	0	14.90	14.90	14.86	
1.4	QPSK	3	1	14.94	14.91	14.89	
1.4	QPSK	3	3	14.96	15.00	14.89	
1.4	QPSK	6	0	13.99	13.97	13.96	15
1.4	16QAM	1	0	14.02	14.02	13.96	15
1.4	16QAM	1	3	13.98	14.18	14.16	
1.4	16QAM	1	5	13.86	14.06	13.74	
1.4	16QAM	3	0	13.88	13.93	13.90	
1.4	16QAM	3	1	14.06	13.88	13.93	
1.4	16QAM	3	3	14.08	14.05	13.79	
1.4	16QAM	6	0	14.09	14.02	13.97	15
1.4	64QAM	1	0	13.97	13.89	13.92	15
1.4	64QAM	1	3	13.99	14.20	14.08	
1.4	64QAM	1	5	13.97	14.32	13.91	
1.4	64QAM	3	0	14.00	14.06	14.07	
1.4	64QAM	3	1	14.09	14.06	14.27	
1.4	64QAM	3	3	14.01	14.15	13.92	
1.4	64QAM	6	0	14.06	14.09	13.98	15

3	16QAM	8	0	13.92	13.93	14.02	15
3	16QAM	8	4	14.02	14.02	14.03	
3	16QAM	8	7	14.24	14.32	14.36	
3	16QAM	15	0	14.24	14.22	14.29	
3	64QAM	1	0	13.91	14.00	13.98	15
3	64QAM	1	8	14.10	13.98	14.14	
3	64QAM	1	14	13.91	13.98	13.81	
3	64QAM	8	0	13.89	13.93	13.87	
3	64QAM	8	4	14.01	13.99	14.03	15
3	64QAM	8	7	13.95	14.02	14.14	
3	64QAM	15	0	13.91	13.99	13.90	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	14.96	15.01	14.99	16
1.4	QPSK	1	3	14.90	14.90	14.94	
1.4	QPSK	1	5	14.76	14.85	14.87	
1.4	QPSK	3	0	14.84	14.81	14.80	
1.4	QPSK	3	1	14.80	14.90	14.95	
1.4	QPSK	3	3	14.79	14.86	14.85	
1.4	QPSK	6	0	13.95	13.97	13.93	15
1.4	16QAM	1	0	13.89	14.36	14.02	15
1.4	16QAM	1	3	14.02	14.10	14.14	
1.4	16QAM	1	5	14.08	14.24	14.04	
1.4	16QAM	3	0	14.11	14.15	14.06	
1.4	16QAM	3	1	14.12	14.15	14.17	
1.4	16QAM	3	3	14.11	14.23	14.12	
1.4	16QAM	6	0	14.02	14.03	13.94	15
1.4	64QAM	1	0	13.80	13.74	13.88	15
1.4	64QAM	1	3	14.06	14.04	14.16	
1.4	64QAM	1	5	13.97	13.93	13.77	
1.4	64QAM	3	0	13.88	13.86	14.05	
1.4	64QAM	3	1	13.79	13.94	13.91	
1.4	64QAM	3	3	13.85	14.02	13.90	
1.4	64QAM	6	0	13.84	13.85	13.92	15

Band 5 (Celluar Band)									
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	20.51	20.52	20.44	21.5		
10	QPSK	1	25	20.37	20.40	20.20			
10	QPSK	1	49	20.29	20.41	20.09			
10	QPSK	25	0	19.82	19.84	19.65	20.5		
10	QPSK	25	12	19.58	19.60	19.65			
10	QPSK	25	25	19.58	19.69	19.74			
10	QPSK	50	0	19.64	19.52	19.66	20.5		
10	16QAM	1	0	19.68	19.87	19.58			
10	16QAM	1	25	19.91	19.94	19.62			
10	16QAM	1	49	19.74	19.80	19.87	20.5		
10	16QAM	25	0	19.83	19.84	19.66			
10	16QAM	25	12	19.77	19.85	19.63			
10	16QAM	25	25	19.80	19.73	19.76	20.5		
10	16QAM	50	0	19.81	19.72	19.62			
10	64QAM	1	0	19.77	19.87	19.75			
10	64QAM	1	25	19.74	19.94	19.74	20.5		
10	64QAM	1	49	19.63	19.85	19.76			
10	64QAM	25	0	19.74	19.85	19.52			
10	64QAM	25	12	19.73	19.90	19.61	20.5		
10	64QAM	25	25	19.85	19.74	19.44			
10	64QAM	50	0	19.81	19.77	19.63			
Channel				20425	20525	20625	Tune-up limit (dBm)		
Frequency (MHz)				826.5	836.5	846.5			
5	QPSK	1	0	20.46	20.42	20.40			
5	QPSK	1	12	20.36	20.47	20.31	21.5		
5	QPSK	1	24	20.36	20.31	20.31			
5	QPSK	12	0	19.73	19.78	19.64			
5	QPSK	12	7	19.80	19.81	19.73	20.5		
5	QPSK	12	13	19.85	19.69	19.64			
5	QPSK	25	0	19.76	19.72	19.64			
5	16QAM	1	0	20.05	19.98	19.74	20.5		
5	16QAM	1	12	19.75	19.97	19.73			
5	16QAM	1	24	19.62	19.97	19.80			
5	16QAM	12	0	19.71	19.80	19.79	20.5		
5	16QAM	12	7	19.78	19.81	19.63			
5	16QAM	12	13	19.78	19.69	19.74			
5	16QAM	25	0	19.79	19.84	19.79	20.5		
5	64QAM	1	0	19.86	19.74	19.85			
5	64QAM	1	12	19.74	19.68	19.82			
5	64QAM	1	24	19.88	19.72	19.66	20.5		
5	64QAM	12	0	19.60	19.74	19.54			
5	64QAM	12	7	19.64	19.80	19.58			
5	64QAM	12	13	19.82	19.77	19.34	20.5		
5	64QAM	25	0	19.70	19.77	19.38			
Channel				20415	20525	20635	Tune-up limit (dBm)		
Frequency (MHz)				825.5	836.5	847.5			
3	QPSK	1	0	20.45	20.46	20.31			
3	QPSK	1	8	20.41	20.42	20.33	21.5		
3	QPSK	1	14	20.42	20.40	20.14			
3	QPSK	8	0	19.66	19.79	19.77			
3	QPSK	8	4	19.80	19.86	19.83	20.5		
3	QPSK	8	7	19.75	19.77	19.64			
3	QPSK	15	0	19.73	19.79	19.78			
3	16QAM	1	0	19.75	19.86	19.93	20.5		
3	16QAM	1	8	19.68	19.94	19.78			
3	16QAM	1	14	19.73	19.99	19.74			
3	16QAM	8	0	19.69	19.78	19.52	20.5		
3	16QAM	8	4	19.85	19.96	19.53			
3	16QAM	8	7	19.77	19.83	19.57			
3	16QAM	15	0	19.71	19.73	19.28	20.5		
3	64QAM	1	0	19.66	19.54	19.75			
3	64QAM	1	8	19.54	19.78	19.54			
3	64QAM	1	14	19.56	19.74	19.55	20.5		
3	64QAM	8	0	19.66	19.76	19.74			
3	64QAM	8	4	19.88	19.72	19.66			
3	64QAM	8	7	19.83	19.75	19.72	20.5		
3	64QAM	15	0	19.72	19.82	19.62			
Channel				20407	20525	20643	Tune-up limit (dBm)		
Frequency (MHz)				824.7	836.5	848.3			
1.4	QPSK	1	0	20.46	20.43	20.47			
1.4	QPSK	1	3	20.49	20.42	20.49	21.5		
1.4	QPSK	1	5	20.38	20.32	20.33			
1.4	QPSK	3	0	20.39	20.45	20.41			
1.4	QPSK	3	1	20.45	20.32	20.42	20.5		
1.4	QPSK	3	3	20.46	20.38	20.38			
1.4	QPSK	6	0	19.71	19.70	19.69			
1.4	16QAM	1	0	19.84	19.65	19.82	20.5		
1.4	16QAM	1	3	19.64	19.88	19.77			
1.4	16QAM	1	5	20.03	19.71	19.77			
1.4	16QAM	3	0	19.56	19.54	19.68	20.5		
1.4	16QAM	3	1	19.59	19.86	19.72			
1.4	16QAM	3	3	19.67	19.78	19.66			
1.4	16QAM	6	0	19.86	19.73	19.77	20.5		
1.4	64QAM	1	0	19.39	19.56	19.58			
1.4	64QAM	1	3	19.70	19.71	19.66			
1.4	64QAM	1	5	19.65	19.64	19.52	20.5		
1.4	64QAM	3	0	19.31	19.58	19.59			
1.4	64QAM	3	1	19.59	19.53	19.54			
1.4	64QAM	3	3	19.49	19.66	19.70	20.5		
1.4	64QAM	6	0	19.70	19.82	19.71			

Band 7 (2600MHz Band)									
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	14.10	14.11	14.03	15		
20	QPSK	1	49	14.05	14.09	13.98			
20	QPSK	1	99	14.00	13.95	14.00			
20	QPSK	50	0	13.16	13.23	13.20	14		
20	QPSK	50	24	12.92	12.89	12.79			
20	QPSK	50	50	13.02	13.05	13.02			
20	QPSK	100	0	12.97	12.99	12.96	14		
20	16QAM	1	0	12.78	12.88	13.06			
20	16QAM	1	49	12.93	12.79	13.07			
20	16QAM	1	99	12.87	13.18	12.83	14		
20	16QAM	50	0	12.72	12.82	12.75			
20	16QAM	50	24	12.77	12.69	12.80			
20	16QAM	50	50	12.85	12.90	12.73	14		
20	16QAM	100	0	12.73	12.85	12.83			
20	64QAM	1	0	12.61	12.45	12.18			
20	64QAM	1	49	12.55	12.52	12.57	14		
20	64QAM	1	99	12.53	12.58	12.49			
20	64QAM	50	0	12.47	12.48	12.53			
20	64QAM	50	24	12.52	12.53	12.53	14		
20	64QAM	50	50	12.56	12.63	12.48			
20	64QAM	100	0	12.49	12.46	12.58			
Channel				20825	21100	21375	Tune-up limit (dBm)		
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	0	13.93	14.02	14.02			
15	QPSK	1	37	14.03	14.00	14.04	15		
15	QPSK	1	74	13.97	14.04	14.04			
15	QPSK	36	0	12.75	12.84	12.86			
15	QPSK	36	20	12.83	12.90	12.85	14		
15	QPSK	36	39	12.86	12.89	12.93			

Band 26 for FCC							
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	
15	QPSK	1	0	21.50	21.54	21.51	22.5
15	QPSK	1	37	21.48	21.45	21.51	
15	QPSK	1	74	21.46	21.44	21.46	
15	QPSK	36	0	20.82	20.90	20.78	21.5
15	QPSK	36	20	20.71	20.65	20.50	
15	QPSK	36	39	20.73	20.52	20.58	
15	QPSK	75	0	20.79	20.53	20.60	21.5
15	16QAM	1	0	20.51	20.66	20.94	
15	16QAM	1	37	20.47	20.58	20.72	
15	16QAM	1	74	20.62	20.51	20.52	21.5
15	16QAM	36	0	20.62	20.48	20.51	
15	16QAM	36	20	20.57	20.37	20.52	
15	16QAM	36	39	20.64	20.44	20.52	21.5
15	16QAM	75	0	20.52	20.54	20.54	
15	64QAM	1	0	19.94	19.81	19.63	
15	64QAM	1	37	19.59	19.63	19.73	21.5
15	64QAM	1	74	19.63	19.59	19.91	
15	64QAM	36	0	19.99	19.80	19.79	
15	64QAM	36	20	20.08	19.80	19.71	21.5
15	64QAM	36	39	20.06	19.86	19.62	
15	64QAM	75	0	20.00	19.83	19.76	
Channel				26740	26865	26990	
Frequency (MHz)				819	831.5	844	
10	QPSK	1	0	21.42	21.46	21.43	22.5
10	QPSK	1	25	21.45	21.44	21.37	
10	QPSK	1	49	21.31	21.44	21.36	
10	QPSK	25	0	20.84	20.65	20.51	21.5
10	QPSK	25	12	20.80	20.62	20.41	
10	QPSK	25	25	20.79	20.63	20.48	
10	QPSK	50	0	20.80	20.68	20.50	21.5
10	16QAM	1	0	20.52	20.84	20.61	
10	16QAM	1	25	20.61	20.70	20.75	
10	16QAM	1	49	20.55	20.54	20.52	21.5
10	16QAM	25	0	20.56	20.70	20.99	
10	16QAM	25	12	20.57	20.73	20.81	
10	16QAM	25	25	20.74	20.62	20.68	21.5
10	16QAM	50	0	20.91	20.78	20.80	
10	64QAM	1	0	19.89	19.89	19.71	
10	64QAM	1	25	19.99	19.71	19.73	21.5
10	64QAM	1	49	19.71	19.70	19.70	
10	64QAM	25	0	20.06	19.83	19.78	
10	64QAM	25	12	19.82	19.84	19.77	21.5
10	64QAM	25	25	19.72	19.85	19.60	
10	64QAM	50	0	20.02	19.81	19.74	
Channel				26715	26865	27015	
Frequency (MHz)				816.5	831.5	846.5	
5	QPSK	1	0	21.41	21.46	21.42	22.5
5	QPSK	1	12	21.36	21.40	21.42	
5	QPSK	1	24	21.32	21.44	21.44	
5	QPSK	12	0	20.78	20.60	20.49	21.5
5	QPSK	12	7	20.88	20.59	20.59	
5	QPSK	12	13	20.77	20.54	20.48	
5	QPSK	25	0	20.81	20.62	20.67	21.5
5	16QAM	1	0	20.52	20.52	20.53	
5	16QAM	1	12	20.56	20.46	20.43	
5	16QAM	1	24	20.61	20.61	20.66	21.5
5	16QAM	12	0	20.89	20.71	20.69	
5	16QAM	12	7	20.74	20.76	20.45	
5	16QAM	12	13	20.86	20.71	20.50	21.5
5	16QAM	25	0	20.41	20.55	20.52	
5	64QAM	1	0	19.90	19.72	19.70	
5	64QAM	1	12	19.79	19.90	19.71	21.5
5	64QAM	1	24	19.73	19.70	19.70	
5	64QAM	12	0	20.00	19.78	19.61	
5	64QAM	12	7	19.59	19.91	19.62	21.5
5	64QAM	12	13	19.99	19.88	19.54	
5	64QAM	25	0	19.99	19.78	19.60	
Channel				26705	26865	27025	
Frequency (MHz)				815.5	831.5	847.5	
3	QPSK	1	0	21.45	21.42	21.47	22.5
3	QPSK	1	8	21.36	21.44	21.36	
3	QPSK	1	14	21.41	21.37	21.43	
3	QPSK	8	0	20.68	20.52	20.71	21.5
3	QPSK	8	4	20.85	20.59	20.48	
3	QPSK	8	7	20.85	20.58	20.69	
3	QPSK	15	0	20.70	20.50	20.60	21.5
3	16QAM	1	0	20.81	20.75	20.76	
3	16QAM	1	8	20.80	20.69	20.72	
3	16QAM	1	14	20.78	20.63	20.63	21.5
3	16QAM	8	0	20.87	20.50	20.57	
3	16QAM	8	4	20.81	20.48	20.52	
3	16QAM	8	7	20.57	20.54	20.48	21.5
3	16QAM	15	0	20.64	20.51	20.61	
3	64QAM	1	0	19.59	20.03	19.82	
3	64QAM	1	8	19.89	19.99	19.73	21.5
3	64QAM	1	14	19.83	19.99	19.89	
3	64QAM	8	0	19.72	19.77	19.67	
3	64QAM	8	4	19.72	19.81	19.67	21.5
3	64QAM	8	7	19.99	19.87	19.66	
3	64QAM	15	0	19.99	19.85	19.64	
Channel				26697	26865	27033	
Frequency (MHz)				814.7	831.5	848.3	
1.4	QPSK	1	0	21.32	21.42	21.42	22.5
1.4	QPSK	1	3	21.31	21.42	21.34	
1.4	QPSK	1	5	21.31	21.33	21.33	
1.4	QPSK	3	0	21.45	21.33	21.35	21.5
1.4	QPSK	3	1	21.36	21.36	21.41	
1.4	QPSK	3	3	21.36	21.42	21.44	
1.4	QPSK	6	0	20.46	20.68	20.71	21.5
1.4	16QAM	1	0	20.51	20.58	20.58	
1.4	16QAM	1	3	20.58	20.52	20.52	
1.4	16QAM	1	5	20.67	20.81	20.62	21.5

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	14.98	15.04	15.02	16
20	QPSK	1	49	14.83	14.82	14.78	
20	QPSK	1	99	14.76	14.75	14.78	
20	QPSK	50	0	14.21	14.28	14.24	15
20	QPSK	50	24	14.02	14.04	14.17	
20	QPSK	50	50	14.06	14.14	14.02	
20	QPSK	100	0	14.04	14.04	13.96	15
20	16QAM	1	0	14.09	13.85	14.13	
20	16QAM	1	49	14.14	13.88	13.94	
20	16QAM	1	99	14.14	14.32	14.11	15
20	16QAM	50	0	14.26	14.23	14.20	
20	16QAM	50	24	14.15	14.15	14.16	
20	16QAM	50	50	14.12	14.04	14.00	15
20	16QAM	100	0	14.08	14.11	14.17	
20	64QAM	1	0	14.24	14.01	14.34	15
20	64QAM	1	49	14.01	14.34	14.33	
20	64QAM	1	99	14.24	14.36	14.44	
20	64QAM	50	0	14.20	14.10	14.23	15
20	64QAM	50	24	14.14	14.08	14.20	
20	64QAM	50	50	14.16	14.04	14.10	
20	64QAM	100	0	14.15	14.15	14.13	
Channel				132047	132322	132597	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	14.84	14.88	14.86	16
15	QPSK	1	37	14.98	14.84	14.82	
15	QPSK	1	74	14.82	14.78	14.76	
15	QPSK	36	0	14.03	14.00	14.04	15
15	QPSK	36	20	14.03	13.95	14.05	
15	QPSK	36	39	13.89	13.94	13.91	
15	QPSK	75	0	13.98	14.02	13.95	15
15	16QAM	1	0	13.97	13.84	14.14	
15	16QAM	1	37	13.84	14.14	14.07	
15	16QAM	1	74	13.94	13.84	13.84	15
15	16QAM	36	0	14.15	14.15	14.06	
15	16QAM	36	20	14.18	14.17	14.23	
15	16QAM	36	39	14.10	14.25	14.19	15
15	16QAM	75	0	14.20	14.18	14.14	
15	64QAM	1	0	14.34	14.24	14.34	
15	64QAM	1	37	14.36	14.14	14.24	15
15	64QAM	1	74	14.01	14.27	14.34	
15	64QAM	36	0	14.13	14.12	14.25	
15	64QAM	36	20	14.23	14.19	14.20	15
15	64QAM	36	39	14.12	14.06	14.10	
15	64QAM	75	0	14.14	14.16	14.13	
Channel				132022	132322	132622	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	14.82	14.82	14.83	16
10	QPSK	1	25	14.72	14.70	14.78	
10	QPSK	1	49	14.86	14.74	14.64	
10	QPSK	25	0	14.29	14.22	14.29	15
10	QPSK	25	12	14.26	14.45	14.23	
10	QPSK	25	25	14.27	14.23	14.15	
10	QPSK	50	0	14.35	14.20	14.39	15
10	16QAM	1	0	14.27	14.27	14.47	
10	16QAM	1	25	14.27	14.36	14.48	
10	16QAM	1	49	14.10	14.30	14.18	15
10	16QAM	25	0	14.11	14.28	14.16	
10	16QAM	25	12	14.10	14.30	14.21	
10	16QAM	25	25	14.01	14.06	14.06	15
10	16QAM	50	0	14.17	14.21	14.22	
10	64QAM	1	0	14.17	14.17	13.84	
10	64QAM	1	25	13.84	13.97	13.87	15
10	64QAM	1	49	13.84	13.84	13.84	
10	64QAM	25	0	14.17	14.15	14.17	
10	64QAM	25	12	14.16	14.20	14.24	15
10	64QAM	25	25	14.16	14.09	14.11	
10	64QAM	50	0	14.06	14.16	14.17	
Channel				131997	132322	132647	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	14.71	14.74	14.79	16
5	QPSK	1	12	14.74	14.74	14.73	
5	QPSK	1	24	14.82	14.72	14.78	
5	QPSK	12	0	13.98	14.00	13.96	15
5	QPSK	12	7	14.00	14.08	14.01	
5	QPSK	12	13	13.91	13.97	13.98	
5	QPSK	25	0	14.01	14.02	14.01	15
5	16QAM	1	0	14.50	14.19	14.20	
5	16QAM	1	12	14.13	14.42	14.37	
5	16QAM	1	24	14.25	14.14	14.49	15
5	16QAM	12	0	14.14	14.25	14.21	
5	16QAM	12	7	14.31	14.23	14.35	
5	16QAM	12	13	14.22	14.16	14.23	15
5	16QAM	25	0	14.23	14.25	14.17	
5	64QAM	1	0	13.84	14.24	14.04	
5	64QAM	1	12	14.14	14.14	14.14	15
5	64QAM	1	24	13.97	14.01	13.97	
5	64QAM	12	0	14.21	13.96	14.17	
5	64QAM	12	7	14.29	13.88	14.19	15
5	64QAM	12	13	14.12	14.24	14.19	
5	64QAM	25	0	14.19	14.27	14.14	
Channel				131987	132322	132657	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	14.78	14.69	14.68	16
3	QPSK	1	8	14.65	14.66	14.74	
3	QPSK	1	14	14.56	14.37	14.67	
3	QPSK	8	0	14.24	14.21	14.25	15
3	QPSK	8	4	14.24	14.16	14.26	
3	QPSK	8	7	14.10	14.15	14.12	
3	QPSK	15	0	14.19	14.23	14.16	15
3	16QAM	1	0	13.88	14.29	14.05	
3	16QAM	1	8	14.21	14.15	14.14	
3	16QAM	1	14	14.25	14.14	13.84	

1.4	16QAM	3	0	20.68	20.44	20.69	21.5
1.4	16QAM	3	1	20.68	20.47	20.60	
1.4	16QAM	3	3	20.68	20.45	20.41	
1.4	16QAM	6	0	21.04	21.01	20.99	21.5
1.4	64QAM	1	0	19.93	19.90	19.95	21.5
1.4	64QAM	1	3	19.99	19.99	19.99	
1.4	64QAM	1	5	19.89	19.92	20.03	
1.4	64QAM	3	0	19.98	19.99	19.99	
1.4	64QAM	3	1	20.03	19.91	19.95	
1.4	64QAM	3	3	19.95	19.99	19.90	
1.4	64QAM	6	0	20.02	19.95	19.66	21.5

3	16QAM	8	0	14.06	14.06	13.97	15
3	16QAM	8	4	14.09	14.08	14.14	
3	16QAM	8	7	14.01	14.16	14.10	
3	16QAM	15	0	14.11	14.09	14.05	15
3	64QAM	1	0	14.25	14.15	14.25	
3	64QAM	1	8	14.27	14.05	14.15	
3	64QAM	1	14	13.92	14.18	14.25	15
3	64QAM	8	0	14.04	14.03	14.16	
3	64QAM	8	4	14.14	14.10	14.11	
3	64QAM	8	7	14.03	13.97	14.01	15
3	64QAM	15	0	14.05	14.07	14.04	
Channel				131979	132322	132865	Turn-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	14.72	14.63	14.64	16
1.4	QPSK	1	3	14.78	14.80	14.80	
1.4	QPSK	1	5	14.70	14.58	14.74	
1.4	QPSK	3	0	14.69	14.62	14.69	
1.4	QPSK	3	1	14.66	14.72	14.63	
1.4	QPSK	3	3	14.67	14.63	14.55	
1.4	QPSK	6	0	14.27	14.12	14.31	15
1.4	16QAM	1	0	14.19	14.19	14.39	15
1.4	16QAM	1	3	14.19	14.28	14.40	
1.4	16QAM	1	5	14.02	14.22	14.10	
1.4	16QAM	3	0	13.97	13.94	14.20	
1.4	16QAM	3	1	14.06	13.96	14.08	15
1.4	16QAM	3	3	14.07	14.08	14.02	
1.4	16QAM	6	0	13.96	13.87	13.88	
1.4	64QAM	1	0	14.30	14.15	14.31	
1.4	64QAM	1	3	14.03	14.12	14.12	15
1.4	64QAM	1	5	14.00	14.00	14.11	
1.4	64QAM	3	0	14.09	14.07	14.09	
1.4	64QAM	3	1	14.08	14.12	14.16	
1.4	64QAM	3	3	14.08	14.01	14.03	15
1.4	64QAM	6	0	13.98	14.08	14.09	

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	18.00	18.07	18.04	19	
20	QPSK	1	49	17.99	18.01	18.01		
20	QPSK	1	99	17.91	17.97	17.94		
20	QPSK	50	0	17.11	17.33	17.19		
20	QPSK	50	24	17.04	17.11	17.07	18	
20	QPSK	50	50	17.08	17.13	17.07		
20	QPSK	100	0	16.96	17.07	17.10		
20	16QAM	1	0	17.08	17.08	17.01		
20	16QAM	1	49	17.07	16.67	17.07	18	
20	16QAM	1	99	17.23	17.22	17.33		
20	16QAM	50	0	17.08	17.22	16.83		
20	16QAM	50	24	17.19	17.01	16.92		
20	16QAM	50	50	17.18	16.82	16.86	18	
20	16QAM	100	0	17.19	17.22	16.88		
20	64QAM	1	0	17.00	17.28	17.31		
20	64QAM	1	49	17.00	17.19	17.29		
20	64QAM	1	99	17.02	17.29	17.33	18	
20	64QAM	50	0	17.01	17.00	16.89		
20	64QAM	50	24	17.03	16.99	16.98		
20	64QAM	50	50	17.01	16.78	17.00		
20	64QAM	100	0	17.01	16.97	16.88		
Channel				37825	38000	38175	Tune-up limit (dBm)	
Frequency (MHz)				2577.5	2595	2612.5		
15	QPSK	1	0	17.91	17.91	17.92	19	
15	QPSK	1	37	17.92	17.84	17.95		
15	QPSK	1	74	17.73	17.95	17.92		
15	QPSK	36	0	17.04	17.29	17.33		
15	QPSK	36	20	17.24	17.33	17.29	18	
15	QPSK	36	39	17.31	17.29	17.22		
15	QPSK	75	0	17.19	17.19	17.20		
15	16QAM	1	0	17.27	17.29	17.19		
15	16QAM	1	37	17.29	17.33	17.01	18	
15	16QAM	1	74	17.30	17.20	17.00		
15	16QAM	36	0	17.07	17.03	16.92		
15	16QAM	36	20	17.05	17.19	16.96		
15	16QAM	36	39	17.07	17.09	16.94	18	
15	16QAM	75	0	17.03	16.98	16.92		
15	64QAM	1	0	17.14	17.03	17.19		
15	64QAM	1	37	17.02	17.03	17.01		
15	64QAM	1	74	16.97	17.05	17.22	18	
15	64QAM	36	0	16.89	17.04	16.97		
15	64QAM	36	20	17.17	17.03	16.91		
15	64QAM	36	39	17.01	17.01	17.02		
15	64QAM	75	0	17.19	17.01	17.05		
Channel				37800	38000	38200	Tune-up limit (dBm)	
Frequency (MHz)				2575	2595	2615		
10	QPSK	1	0	17.94	17.95	17.95	19	
10	QPSK	1	25	17.94	17.74	17.94		
10	QPSK	1	49	17.88	17.90	17.93		
10	QPSK	25	0	17.03	16.89	16.89		
10	QPSK	25	12	17.26	17.22	16.93	18	
10	QPSK	25	25	17.27	17.29	16.89		
10	QPSK	50	0	17.25	17.17	16.89		
10	16QAM	1	0	17.11	16.88	17.19		
10	16QAM	1	25	16.99	16.89	17.29	18	
10	16QAM	1	49	17.36	16.92	17.01		
10	16QAM	25	0	16.89	17.00	16.96		
10	16QAM	25	12	17.19	16.89	17.02		
10	16QAM	25	25	16.89	17.03	17.08	18	
10	16QAM	50	0	17.01	17.05	16.97		
10	64QAM	1	0	17.01	17.04	16.97		
10	64QAM	1	25	16.92	17.17	17.07		
10	64QAM	1	49	17.28	17.02	17.07	18	
10	64QAM	25	0	16.87	16.87	16.97		
10	64QAM	25	12	16.87	17.07	17.08		
10	64QAM	25	25	16.83	17.03	16.99		
10	64QAM	50	0	16.89	17.05	16.95		
Channel				37775	38000	38225	Tune-up limit (dBm)	
Frequency (MHz)				2572.5	2595	2617.5		
5	QPSK	1	0	17.80	17.90	17.74	19	
5	QPSK	1	12	17.74	17.95	17.93		
5	QPSK	1	24	17.74	17.73	17.72		
5	QPSK	12	0	17.16	17.64	17.23		
5	QPSK	12	7	17.30	17.29	17.29	18	
5	QPSK	12	13	17.18	17.20	17.22		
5	QPSK	25	0	17.22	17.23	16.89		
5	16QAM	1	0	17.40	17.51	17.41		
5	16QAM	1	12	17.01	17.19	16.89	18	
5	16QAM	1	24	17.01	17.02	17.01		
5	16QAM	12	0	17.02	17.07	17.01		
5	16QAM	12	7	17.01	17.03	17.01		
5	16QAM	12	13	16.92	17.04	17.01	18	
5	16QAM	25	0	17.19	16.91	17.09		
5	64QAM	1	0	16.95	17.28	16.89		
5	64QAM	1	12	17.22	17.22	17.29		
5	64QAM	1	24	17.22	17.22	17.19	18	
5	64QAM	12	0	16.93	17.05	17.01		
5	64QAM	12	7	17.02	17.03	16.94		
5	64QAM	12	13	17.01	17.04	16.91		
5	64QAM	25	0	17.05	17.07	16.98		

Band 40 (2.3G Band-1)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				38750			
Frequency (MHz)				2310			
10	QPSK	1	0		18.04		19
10	QPSK	1	25		17.95		
10	QPSK	1	49		17.93		
10	QPSK	25	0		17.34		
10	QPSK	25	12		17.21		18
10	QPSK	25	25		17.26		
10	QPSK	50	0		17.04		
10	16QAM	1	0		17.13		
10	16QAM	1	25		17.11		18
10	16QAM	1	49		17.15		
10	16QAM	25	0		17.04		
10	16QAM	25	12		17.11		
10	16QAM	25	25		17.08		18
10	16QAM	50	0		17.15		
10	64QAM	1	0		17.22		
10	64QAM	1	25		17.01		
10	64QAM	1	49		17.27		18
10	64QAM	25	0		16.84		
10	64QAM	25	12		17.04		
10	64QAM	25	25		17.11		
10	64QAM	50	0		17.04		
Channel				38725	38750	38775	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	QPSK	1	0	17.98	17.93	17.84	19
5	QPSK	1	12	17.89	17.88	17.99	
5	QPSK	1	24	17.95	17.97	17.81	
5	QPSK	12	0	17.14	17.07	17.19	
5	QPSK	12	7	17.19	17.05	17.15	18
5	QPSK	12	13	17.07	17.03	17.06	
5	QPSK	25	0	17.10	16.96	17.17	
5	16QAM	1	0	17.14	17.11	17.19	
5	16QAM	1	12	17.30	17.21	17.28	18
5	16QAM	1	24	17.22	17.11	17.10	
5	16QAM	12	0	17.06	16.96	17.12	
5	16QAM	12	7	17.08	17.02	17.05	
5	16QAM	12	13	17.15	16.93	17.12	18
5	16QAM	25	0	17.12	17.04	17.07	
5	64QAM	1	0	17.24	17.27	17.02	
5	64QAM	1	12	17.25	16.85	16.61	
5	64QAM	1	24	17.28	16.89	16.65	18
5	64QAM	12	0	17.03	17.09	17.19	
5	64QAM	12	7	17.08	17.12	17.15	
5	64QAM	12	13	17.12	17.07	17.09	
5	64QAM	25	0	17.13	17.09	17.12	

Band 40 (2.3G Band-2)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				39200			
Frequency (MHz)				2355			
10	QPSK	1	0		18.03		19
10	QPSK	1	25		17.94		
10	QPSK	1	49		17.90		
10	QPSK	25	0		17.24		18
10	QPSK	25	12		17.16		
10	QPSK	25	25		17.17		
10	QPSK	50	0		17.14		18
10	16QAM	1	0		17.24		
10	16QAM	1	25		17.15		
10	16QAM	1	49		17.07		18
10	16QAM	25	0		17.19		
10	16QAM	25	12		17.22		
10	16QAM	25	25		17.21		18
10	16QAM	50	0		17.18		
10	64QAM	1	0		17.27		
10	64QAM	1	25		17.20		18
10	64QAM	1	49		17.04		
10	64QAM	25	0		17.16		
10	64QAM	25	12		17.15		18
10	64QAM	25	25		17.12		
10	64QAM	50	0		17.01		
Channel				39175	39200	39225	Tune-up limit (dBm)
Frequency (MHz)				2352.5	2355	2357.5	
5	QPSK	1	0	17.91	17.86	17.95	
5	QPSK	1	12	17.86	17.90	17.93	19
5	QPSK	1	24	17.79	17.98	17.98	
5	QPSK	12	0	17.14	17.13	17.19	
5	QPSK	12	7	17.16	17.17	17.19	18
5	QPSK	12	13	17.14	17.17	17.17	
5	QPSK	25	0	17.09	17.07	17.23	
5	16QAM	1	0	17.20	17.26	17.24	18
5	16QAM	1	12	17.15	17.13	17.19	
5	16QAM	1	24	17.04	16.95	17.02	
5	16QAM	12	0	17.12	17.08	17.25	18
5	16QAM	12	7	17.04	17.17	17.25	
5	16QAM	12	13	17.10	17.11	17.07	
5	16QAM	25	0	17.17	17.12	17.21	18
5	64QAM	1	0	17.25	16.90	16.94	
5	64QAM	1	12	17.36	16.74	16.86	
5	64QAM	1	24	17.37	16.92	16.81	18
5	64QAM	12	0	17.03	17.06	17.14	
5	64QAM	12	7	16.99	17.00	17.07	
5	64QAM	12	13	17.04	17.05	17.08	18
5	64QAM	25	0	17.12	17.06	17.13	

Band 41 (2535~2655MHz)										
BW [MHz]	Modulation	RB Size	RB Offset	Low channel	Middle Low Channel	Middle Channel	Middle High Channel	High Channel	Tune-up limit (dBm)	
Channel				40140	40390	40640	40890	41140	Tune-up limit (dBm)	
Frequency (MHz)				2545	2570	2595	2620	2645		
20	QPSK	1	0	17.98	18.08	18.10	18.03	18.04	24	
20	QPSK	1	49	17.94	18.03	18.03	18.04	18.04		
20	QPSK	1	99	17.88	18.04	17.99	18.09	17.84		
20	QPSK	50	0	17.14	17.16	17.20	17.18	17.13		
20	QPSK	50	24	17.14	17.12	16.97	16.94	16.94	23	
20	QPSK	50	50	17.17	17.10	16.98	16.97	17.04		
20	QPSK	100	0	17.14	17.17	17.04	16.98	16.94		
20	16QAM	1	0	17.18	17.34	16.97	17.04	16.94		
20	16QAM	1	49	17.17	17.22	16.97	16.92	16.94	23	
20	16QAM	1	99	17.24	17.14	17.04	17.02	17.04		
20	16QAM	50	0	17.15	17.24	16.97	17.27	16.94		
20	16QAM	50	24	17.13	17.45	16.94	17.04	16.94		
20	16QAM	50	50	17.19	17.51	17.40	17.01	17.04	23	
20	16QAM	100	0	17.13	17.44	17.39	17.08	16.97		
20	64QAM	1	0	17.28	17.19	17.19	17.02	16.98		
20	64QAM	1	49	17.21	17.31	17.01	17.30	16.98		
20	64QAM	1	99	17.11	17.06	16.97	17.06	16.94	23	
20	64QAM	50	0	17.07	17.03	17.00	16.95	17.04		
20	64QAM	50	24	16.92	17.19	17.07	17.04	16.97		
20	64QAM	50	50	17.02	17.18	17.21	17.10	17.03		
20	64QAM	100	0	17.00	17.28	17.24	16.92	17.04		
Channel				40115	40378	40640	40903	41165	Tune-up limit (dBm)	
Frequency (MHz)				2542.5	2568.8	2595	2621.3	2647.5		
15	QPSK	1	0	17.64	17.80	18.00	17.87	17.86	24	
15	QPSK	1	37	17.63	17.98	18.04	17.87	17.97		
15	QPSK	1	74	17.63	17.96	17.97	17.80	17.77		
15	QPSK	36	0	16.80	17.14	16.99	17.19	17.80		
15	QPSK	36	20	17.05	17.19	16.95	17.15	17.87	23	
15	QPSK	36	39	17.21	17.22	16.94	17.18	17.82		
15	QPSK	75	0	16.99	17.24	16.97	17.21	17.79		
15	16QAM	1	0	16.93	17.05	17.34	16.99	16.79		
15	16QAM	1	37	17.14	17.22	16.91	17.05	16.88	23	
15	16QAM	1	74	17.10	17.14	16.48	16.89	16.81		
15	16QAM	36	0	16.97	17.21	16.88	17.08	17.26		
15	16QAM	36	20	17.02	17.15	16.84	17.04	17.28		
15	16QAM	36	39	17.09	17.28	17.38	17.08	17.04	23	
15	16QAM	75	0	17.00	17.29	16.86	17.08	16.64		
15	64QAM	1	0	17.10	17.00	17.24	16.88	17.38		
15	64QAM	1	37	17.38	17.14	17.38	17.01	16.50		
15	64QAM	1	74	17.35	17.07	17.17	17.35	16.23	23	
15	64QAM	36	0	16.79	17.13	16.95	17.09	16.87		
15	64QAM	36	20	16.94	17.24	17.39	17.02	16.76		
15	64QAM	36	39	16.89	17.23	17.36	17.08	16.68		
15	64QAM	75	0	16.87	17.24	17.36	17.12	16.76		
Channel				40090	40365	40640	40915	41190	Tune-up limit (dBm)	
Frequency (MHz)				2540	2567.5	2595	2622.5	2650		
10	QPSK	1	0	17.68	17.89	17.97	17.85	17.84	24	
10	QPSK	1	25	17.88	17.94	17.84	17.80	17.79		
10	QPSK	1	49	17.65	17.81	18.04	18.04	17.80		
10	QPSK	25	0	16.96	17.39	17.27	17.23	17.04		
10	QPSK	25	12	17.04	17.38	17.16	17.23	17.04	23	
10	QPSK	25	25	17.08	17.47	17.11	17.27	17.40		
10	QPSK	50	0	17.13	17.51	17.19	17.25	16.64		
10	16QAM	1	0	16.99	16.86	17.01	17.26	16.84		
10	16QAM	1	25	17.17	16.95	17.16	17.09	16.88	23	
10	16QAM	1	49	17.03	16.91	17.08	17.22	17.03		
10	16QAM	25	0	17.03	16.94	17.22	17.40	16.69		
10	16QAM	25	12	17.16	16.91	17.08	17.34	16.45		
10	16QAM	25	25	17.13	16.98	17.20	17.47	16.96	23	
10	16QAM	50	0	17.11	16.94	17.18	17.36	16.72		
10	64QAM	1	0	16.73	17.09	16.69	17.03	17.09		
10	64QAM	1	25	16.76	17.21	16.86	17.08	17.04		
10	64QAM	1	49	16.74	17.10	16.73	16.99	16.85	23	
10	64QAM	25	0	16.81	17.24	16.94	17.12	17.01		
10	64QAM	25	12	16.84	17.21	16.83	17.12	16.76		
10	64QAM	25	25	16.93	17.25	16.92	17.09	16.99		
10	64QAM	50	0	16.89	17.22	16.97	17.18	17.05		
Channel				40065	40353	40640	40928	41215	Tune-up limit (dBm)	
Frequency (MHz)				2537.5	2566.3	2595	2623.80	2652.5		
5	QPSK	1	0	17.65	17.74	17.97	17.94	17.75	24	
5	QPSK	1	12	17.64	17.89	17.84	17.97	17.79		
5	QPSK	1	24	17.77	17.80	17.94	17.67	17.80		
5	QPSK	12	0	16.98	17.12	17.16	17.25	16.96		
5	QPSK	12	7	17.06	17.25	17.01	17.31	17.18	23	
5	QPSK	12	13	17.00	17.25	17.23	17.37	17.24		
5	QPSK	25	0	17.03	17.26	17.24	17.39	17.17		
5	16QAM	1	0	17.27	17.09	17.25	16.94	17.08		
5	16QAM	1	12	16.88	17.26	17.42	17.10	16.98	23	
5	16QAM	1	24	16.74	17.12	17.23	16.95	17.24		
5	16QAM	12	0	16.92	16.87	17.09	17.07	17.04		
5	16QAM	12	7	17.04	16.82	17.19	17.18	17.17		
5	16QAM	12	13	17.10	16.95	17.09	17.11	16.96	23	
5	16QAM	25	0	17.02	16.83	17.17	17.18	16.94		
5	64QAM	1	0	17.29	17.14	17.41	16.96	16.99		
5	64QAM	1	12	17.29	17.15	17.34	17.05	16.95		
5	64QAM	1	24	17.14	17.00	17.27	16.91	17.28	23	
5	64QAM	12	0	17.09	17.18	16.87	16.99	16.95		
5	64QAM	12	7	17.10	16.66	16.95	17.17	17.03		
5	64QAM	12	13	17.08	16.65	16.74	17.05	16.94		
5	64QAM	25	0	16.82	16.65	16.80	17.14	16.76		

2.4GHz WLAN ANT 2

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
2.4GHz WLAN ANT 2	802.11b 1Mbps	CH 1	2412	16.65	18.00	16	98.78
		CH 6	2437	15.67	17.00	16	
		CH 11	2462	15.43	17.00	16	
	802.11g 6Mbps	CH 1	2412	16.05	18.00	15	91.13
		CH 6	2437	15.06	17.00	15	
		CH 11	2462	14.71	16.00	15	
	802.11n-HT20 MCS0	CH 1	2412	16.23	18.00	15	90.76
		CH 6	2437	15.62	17.00	15	
		CH 11	2462	15.25	17.00	15	
	802.11n-HT40 MCS0	CH 3	2422	14.45	16.00	15	79.85
		CH 6	2437	14.54	16.00	15	
		CH 9	2452	15.49	17.00	15	

5GHz WLAN ANT 2

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
5.2GHz WLAN ANT 2	802.11a 6Mbps	CH 36	5180	13.31	15.00	14	91.10
		CH 44	5220	13.35	15.00	14	
		CH 48	5240	13.76	15.00	14	
	802.11n-HT20 MCS0	CH 36	5180	12.30	14.00	14	91.21
		CH 44	5220	12.73	14.00	14	
		CH 48	5240	13.48	15.00	14	
	802.11n-HT40 MCS0	CH 38	5190	13.27	15.00	14	88.77
		CH 46	5230	13.74	15.00	14	
		CH 36	5180	13.15	15.00	14	90.91
	802.11ac-VHT20 MCS0	CH 44	5220	13.21	15.00	14	
		CH 48	5240	13.62	15.00	14	
	802.11ac-VHT40 MCS0	CH 38	5190	12.88	14.00	14	80.00
		CH 46	5230	13.14	15.00	14	
		CH 42	5210	12.62	14.00	14	70.76

5GHz WLAN ANT 2

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
5.3GHz WLAN ANT 2	802.11a 6Mbps	CH 52	5260	11.86	13.00	12	91.10
		CH 60	5300	12.03	14.00	12	
		CH 64	5320	11.88	13.00	12	
	802.11n-HT20 MCS0	CH 52	5260	11.47	13.00	12	91.21
		CH 60	5300	11.10	13.00	12	
		CH 64	5320	11.37	13.00	12	
	802.11n-HT40 MCS0	CH 54	5270	12.02	14.00	12	88.77
		CH 62	5310	11.70	13.00	12	
		CH 52	5260	11.60	13.00	12	90.91
	802.11ac-VHT20 MCS0	CH 60	5300	11.64	13.00	12	
		CH 64	5320	11.57	13.00	12	
	802.11ac-VHT40 MCS0	CH 54	5270	11.37	13.00	12	80.00
		CH 62	5310	11.04	13.00	12	
		CH 58	5290	10.68	12.00	12	70.76

5GHz WLAN ANT 2

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
5.5GHz WLAN ANT 2	802.11a 6Mbps	CH 100	5500	12.89	14.50	14	91.10
		CH 120	5600	13.59	15.00	14	
		CH 140	5700	13.20	15.00	14	
	802.11n-HT20 MCS0	CH 100	5500	12.48	14.00	14	91.21
		CH 120	5600	12.67	14.00	14	
		CH 140	5700	12.42	14.00	14	
	802.11n-HT40 MCS0	CH 102	5510	12.86	14.50	14	88.77
		CH 126	5630	13.83	15.50	14	
		CH 134	5670	13.21	15.00	14	
	802.11ac-VHT20 MCS0	CH 100	5500	12.64	14.00	14	90.91
		CH 120	5600	13.20	15.00	14	

	802.11ac-VHT40 MCS0	CH 140	5700	12.95	14.50	14	80.00
		CH 102	5510	12.16	14.00	14	
		CH 126	5630	12.95	14.50	14	
		CH 134	5670	12.51	14.00	14	
	802.11ac-VHT80 MCS0	CH 106	5530	12.17	14.00	14	70.76
		CH 122	5610	12.41	14.00	14	
		CH 138	5690	11.99	13.00	14	

5GHz WLAN ANT 2

5.8GHz WLAN ANT 2	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
	802.11a MCS0	CH 149	5745	12.24	14.00	14	91.10
		CH 157	5785	13.08	15.00	14	
		CH 165	5825	13.13	15.00	14	
	802.11n-HT20 MCS0	CH 149	5745	12.30	14.00	14	91.21
		CH 157	5785	12.36	14.00	14	
		CH 165	5825	12.44	14.00	14	
	802.11n-HT40 MCS0	CH 151	5755	13.17	15.00	14	88.77
		CH 159	5795	12.82	14.00	14	
	802.11ac-VHT20 MCS0	CH 149	5745	12.79	14.00	14	90.91
		CH 157	5785	12.75	14.00	14	
		CH 165	5825	12.94	14.50	14	
	802.11ac-VHT40 MCS0	CH 151	5755	12.52	14.00	14	80.00
		CH 159	5795	12.24	14.00	14	
	802.11ac-VHT80 MCS0	CH 155	5775	12.17	14.00	14	70.76

Reduced Power Level 2

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	27.45	27.48	27.43	28.50	18.45	18.48	18.43	19.50	0.06
GPRS 1 Tx slot	27.46	27.49	27.44	28.50	18.46	18.49	18.44	19.50	
GPRS 2 Tx slots	24.80	24.81	24.79	25.50	18.80	18.81	18.79	19.50	0.02
GPRS 3 Tx slots	23.66	23.69	23.65	24.50	19.40	19.43	19.39	20.24	0.04
GPRS 4 Tx slots	21.26	21.31	21.27	22.50	18.26	18.31	18.27	19.50	0.05
EDGE 1 Tx slot	23.54	23.64	23.47	24.50	14.54	14.64	14.47	15.50	0.17
EDGE 2 Tx slots	22.56	22.63	22.46	23.50	16.56	16.63	16.46	17.50	0.17
EDGE 3 Tx slots	20.29	20.37	20.36	21.50	16.03	16.11	16.10	17.24	0.08
EDGE 4 Tx slots	18.58	18.62	18.51	19.50	15.58	15.62	15.51	16.50	0.11
Mode		Max.	27.49			Max.	19.43		
Attenuator	Cable Loss : 0.8								

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	19.02	19.05	19.03	20.00	20.09	20.16	20.05	21.00
3GPP Rel 6 HSDPA Subtest-1	18.13	18.16	18.14	19.00	19.11	19.31	19.06	20.00
3GPP Rel 6 HSDPA Subtest-2	18.10	18.13	18.06	19.00	19.14	19.23	19.04	20.00
3GPP Rel 6 HSDPA Subtest-3	18.06	18.14	17.95	19.00	19.12	19.23	19.01	20.00
3GPP Rel 6 HSDPA Subtest-4	18.08	18.16	17.96	19.00	19.14	19.14	19.02	20.00
3GPP Rel 8 DC-HSDPA Subtest-1	18.18	18.14	18.29	19.00	19.09	19.15	19.20	20.00
3GPP Rel 8 DC-HSDPA Subtest-2	18.20	18.10	18.28	19.00	19.18	19.16	19.10	20.00
3GPP Rel 8 DC-HSDPA Subtest-3	18.28	18.25	18.30	19.00	19.18	19.13	19.19	20.00
3GPP Rel 8 DC-HSDPA Subtest-4	18.22	18.29	18.28	19.00	19.16	19.10	19.15	20.00
3GPP Rel 6 HSUPA Subtest-1	17.95	17.94	17.91	18.50	18.67	18.55	18.66	19.50
3GPP Rel 6 HSUPA Subtest-2	17.93	17.95	17.93	18.50	18.66	18.55	18.68	19.50
3GPP Rel 6 HSUPA Subtest-3	17.91	17.95	17.80	18.50	18.65	18.53	18.59	19.50
3GPP Rel 6 HSUPA Subtest-4	17.90	17.89	17.91	18.50	18.63	18.54	18.67	19.50
3GPP Rel 6 HSUPA Subtest-5	17.89	17.93	17.83	18.50	18.64	18.63	18.60	19.50
3GPP Rel 7 HSPA+ (16QAM) Subtest-1	17.91	17.93	17.66	18.50	18.73	18.49	18.56	19.50
Attenuator		Cable Loss	0.8			Cable Loss	0.6	
Mode		Max.	19.05			Max.	20.16	

Band 2 (1900MHz Band)							
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	19.11	19.14	19.08	20
20	QPSK	1	49	19.09	19.03	18.96	
20	QPSK	1	99	19.03	18.99	18.97	
20	QPSK	50	0	18.19	18.28	18.21	
20	QPSK	50	24	18.20	18.25	18.25	19
20	QPSK	50	50	18.25	18.21	18.27	
20	QPSK	100	0	18.18	18.27	18.23	
20	16QAM	1	0	18.24	18.24	18.26	
20	16QAM	1	49	18.08	18.38	18.34	19
20	16QAM	1	99	18.33	18.18	18.58	
20	16QAM	50	0	18.26	18.23	18.21	
20	16QAM	50	24	18.22	18.27	18.28	
20	16QAM	50	50	18.30	18.27	18.34	19
20	16QAM	100	0	18.33	18.34	18.21	
20	64QAM	1	0	18.28	18.47	18.21	
20	64QAM	1	49	18.23	18.41	18.32	
20	64QAM	1	99	18.18	18.51	18.51	19
20	64QAM	50	0	18.28	18.20	18.25	
20	64QAM	50	24	18.31	18.25	18.30	
20	64QAM	50	50	18.30	18.31	18.25	
20	64QAM	100	0	18.18	18.15	18.16	
Channel				18675	18900	19125	
Frequency (MHz)				1857.5	1880	1902.5	Tune-up limit (dBm)
15	QPSK	1	0	18.92	18.95	18.86	20
15	QPSK	1	37	18.71	19.07	18.95	
15	QPSK	1	74	19.08	19.00	19.08	
15	QPSK	36	0	18.05	18.14	18.13	
15	QPSK	36	20	18.04	18.23	18.20	19
15	QPSK	36	39	18.16	18.17	18.14	
15	QPSK	75	0	18.08	18.14	18.10	
15	16QAM	1	0	18.17	18.25	18.19	
15	16QAM	1	37	18.30	18.33	18.19	19
15	16QAM	1	74	18.25	18.37	18.37	
15	16QAM	36	0	18.04	18.09	18.12	
15	16QAM	36	20	18.13	18.06	18.19	
15	16QAM	36	39	18.18	18.27	18.24	19
15	16QAM	75	0	18.05	18.07	18.16	
15	64QAM	1	0	18.25	18.01	18.07	
15	64QAM	1	37	18.24	18.05	18.47	
15	64QAM	1	74	18.13	18.17	18.32	19
15	64QAM	36	0	17.98	18.15	18.03	
15	64QAM	36	20	18.18	18.20	18.10	
15	64QAM	36	39	18.06	18.11	18.20	
15	64QAM	75	0	18.05	18.12	18.11	
Channel				18650	18900	19150	
Frequency (MHz)				1855	1880	1905	Tune-up limit (dBm)
10	QPSK	1	0	18.89	18.88	18.98	20
10	QPSK	1	25	19.00	19.10	18.98	
10	QPSK	1	49	18.89	18.97	18.89	
10	QPSK	25	0	18.16	18.17	18.13	
10	QPSK	25	12	18.12	18.24	18.17	19
10	QPSK	25	25	18.03	18.16	18.12	
10	QPSK	50	0	18.09	18.18	18.16	
10	16QAM	1	0	18.57	18.50	18.49	
10	16QAM	1	25	18.26	18.22	18.29	19
10	16QAM	1	49	18.21	18.29	18.08	
10	16QAM	25	0	18.11	18.10	18.07	
10	16QAM	25	12	18.27	18.07	18.07	
10	16QAM	25	25	18.07	18.27	18.37	19
10	16QAM	50	0	18.64	18.57	18.61	
10	64QAM	1	0	18.15	18.20	18.20	
10	64QAM	1	25	18.18	18.23	18.27	
10	64QAM	1	49	17.85	17.98	17.95	19
10	64QAM	25	0	18.15	18.19	18.20	
10	64QAM	25	12	18.18	18.16	18.17	
10	64QAM	25	25	18.11	17.89	18.11	
10	64QAM	50	0	18.12	18.12	18.09	
Channel				18625	18900	19175	
Frequency (MHz)				1852.5	1880	1907.5	Tune-up limit (dBm)
5	QPSK	1	0	19.03	19.08	19.02	20
5	QPSK	1	12	19.02	18.97	19.00	
5	QPSK	1	24	18.98	19.06	19.07	
5	QPSK	12	0	18.15	18.06	18.13	
5	QPSK	12	7	18.16	18.21	18.13	19
5	QPSK	12	13	18.15	18.14	18.17	
5	QPSK	25	0	18.14	18.12	18.14	
5	16QAM	1	0	18.27	18.17	18.55	
5	16QAM	1	12	18.25	18.18	18.55	19
5	16QAM	1	24	18.28	18.15	18.54	
5	16QAM	12	0	18.37	18.51	18.37	
5	16QAM	12	7	18.27	18.27	18.07	
5	16QAM	12	13	18.07	18.40	18.17	19
5	16QAM	25	0	18.17	18.63	18.61	
5	64QAM	1	0	18.37	18.09	18.14	
5	64QAM	1	12	18.53	18.19	18.30	
5	64QAM	1	24	18.54	18.18	18.20	19
5	64QAM	12	0	18.19	18.12	18.11	
5	64QAM	12	7	18.25	18.09	18.09	
5	64QAM	12	13	18.22	18.18	18.16	
5	64QAM	25	0	18.29	18.09	18.16	
Channel				18615	18900	19185	
Frequency (MHz)				1851.5	1880	1908.5	Tune-up limit (dBm)
3	QPSK	1	0	18.97	19.04	18.96	20
3	QPSK	1	8	19.07	19.10	18.93	
3	QPSK	1	14	19.08	18.95	18.95	
3	QPSK	8	0	18.03	17.98	18.00	
3	QPSK	8	4	18.09	18.03	18.04	19
3	QPSK	8	7	18.09	18.03	17.99	
3	QPSK	15	0	18.01	18.09	18.02	
3	16QAM	1	0	18.17	18.08	18.02	
3	16QAM	1	8	18.21	18.15	18.11	19
3	16QAM	1	14	18.14	18.11	17.99	

Band 4 (AWS Band)							
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	20.00	20.08	20.07	21
20	QPSK	1	49	19.86	19.94	19.93	
20	QPSK	1	99	19.78	19.91	20.03	
20	QPSK	50	0	19.16	19.20	19.17	
20	QPSK	50	24	19.07	19.15	19.15	20
20	QPSK	50	50	18.96	19.07	19.08	
20	QPSK	100	0	19.06	19.10	19.17	
20	16QAM	1	0	18.93	19.23	19.10	
20	16QAM	1	49	19.08	18.85	18.99	20
20	16QAM	1	99	18.87	19.09	18.93	
20	16QAM	50	0	19.06	18.99	19.13	
20	16QAM	50	24	19.32	19.43	19.32	
20	16QAM	50	50	19.28	19.29	19.29	20
20	16QAM	100	0	19.30	19.38	19.39	
20	64QAM	1	0	19.04	19.15	19.37	
20	64QAM	1	49	19.08	19.01	18.89	
20	64QAM	1	99	19.35	18.92	19.39	20
20	64QAM	50	0	19.05	19.14	19.09	
20	64QAM	50	24	19.07	19.18	19.12	
20	64QAM	50	50	19.11	19.06	19.08	
20	64QAM	100	0	19.14	19.12	19.21	
Channel				20025	20175	20325	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	19.87	19.91	20.01	21
15	QPSK	1	37	19.91	20.00	19.92	
15	QPSK	1	74	19.78	20.00	20.03	
15	QPSK	36	0	19.01	19.08	19.11	
15	QPSK	36	20	19.05	19.18	19.14	20
15	QPSK	36	39	19.10	19.09	19.18	
15	QPSK	75	0	19.05	19.07	19.08	
15	16QAM	1	0	18.99	19.21	18.93	
15	16QAM	1	37	19.07	19.07	18.91	20
15	16QAM	1	74	18.93	19.23	19.02	
15	16QAM	36	0	18.94	18.96	19.15	
15	16QAM	36	20	18.89	18.96	19.02	
15	16QAM	36	39	18.85	18.94	19.00	20
15	16QAM	75	0	18.96	18.97	19.06	
15	64QAM	1	0	18.91	19.22	19.27	
15	64QAM	1	37	19.33	19.09	19.15	
15	64QAM	1	74	19.37	19.08	19.12	20
15	64QAM	36	0	19.02	19.09	19.13	
15	64QAM	36	20	19.08	19.10	19.12	
15	64QAM	36	39	19.11	19.07	19.09	
15	64QAM	75	0	19.04	19.15	19.08	
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	19.99	19.98	19.81	21
10	QPSK	1	25	19.97	19.90	19.91	
10	QPSK	1	49	19.85	19.68	19.91	
10	QPSK	25	0	18.84	19.06	19.08	
10	QPSK	25	12	18.96	19.02	19.06	20
10	QPSK	25	25	18.85	18.96	19.03	
10	QPSK	50	0	18.91	19.01	18.93	
10	16QAM	1	0	18.90	19.05	18.81	
10	16QAM	1	25	19.17	18.91	19.23	20
10	16QAM	1	49	19.24	19.14	19.13	
10	16QAM	25	0	18.90	18.89	18.88	
10	16QAM	25	12	18.82	18.92	18.89	
10	16QAM	25	25	19.16	19.07	19.16	20
10	16QAM	50	0	19.10	19.14	19.26	
10	64QAM	1	0	18.96	19.04	18.94	
10	64QAM	1	25	19.03	19.32	19.41	
10	64QAM	1	49	19.01	19.05	19.00	20
10	64QAM	25	0	18.85	18.99	18.98	
10	64QAM	25	12	18.94	19.05	19.09	
10	64QAM	25	25	18.82	18.94	18.96	
10	64QAM	50	0	18.88	18.95	18.94	
Channel				19975	20175	20375	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	19.96	19.91	19.96	21
5	QPSK	1	12	19.95	19.90	19.87	
5	QPSK	1	24	19.70	19.82	19.81	
5	QPSK	12	0	18.92	18.92	18.96	
5	QPSK	12	7	18.92	19.03	19.00	20
5	QPSK	12	13	18.87	19.04	18.96	
5	QPSK	25	0	18.90	18.94	19.00	
5	16QAM	1	0	18.80	19.21	18.89	
5	16QAM	1	12	18.91	19.26	18.85	20
5	16QAM	1	24	18.85	19.20	18.80	
5	16QAM	12	0	18.84	18.78	18.81	
5	16QAM	12	7	18.87	18.91	18.89	
5	16QAM	12	13	19.14	19.21	19.25	20
5	16QAM	25	0	19.15	19.26	19.19	
5	64QAM	1	0	18.92	19.36	19.34	
5	64QAM	1	12	19.30	19.06	19.33	
5	64QAM	1	24	19.26	18.96	19.03	20
5	64QAM	12	0	18.93	19.00	19.02	
5	64QAM	12	7	18.92	19.01	19.07	
5	64QAM	12	13	18.93	18.99	18.98	
5	64QAM	25	0	18.88	19.02	18.93	
Channel				19995	20175	20385	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1732.5	1753.5	
3	QPSK	1	0	19.81	19.82	19.94	21
3	QPSK	1	8	19.90	20.04	19.98	
3	QPSK	1	14	19.70	19.89	19.89	
3	QPSK	8	0	18.90	18.96	18.97	
3	QPSK	8	4	18.96	19.04	19.06	20
3	QPSK	8	7	18.92	19.02	19.02	
3	QPSK	16	0	18.92	18.98	18.92	
3	16QAM	1	0	19.00	19.09	19.13	
3	16QAM	1	8	19.22	19.22	18.96	20
3	16QAM	1	14	19.13	18.91	18.99	

3	16QAM	8	0	18.57	18.70	18.62	19
3	16QAM	8	4	18.64	18.61	18.67	
3	16QAM	8	7	18.54	18.59	18.62	
3	16QAM	15	0	18.57	18.61	18.56	
3	64QAM	1	0	18.10	18.03	18.06	19
3	64QAM	1	8	18.52	18.51	18.11	
3	64QAM	1	14	18.13	18.49	18.13	
3	64QAM	8	0	18.05	18.07	17.91	
3	64QAM	8	4	18.15	18.05	18.05	19
3	64QAM	8	7	18.25	18.14	18.00	
3	64QAM	15	0	18.10	18.10	18.08	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	19.03	19.06	19.01	20
1.4	QPSK	1	3	18.93	18.91	18.90	
1.4	QPSK	1	5	18.90	18.88	18.86	
1.4	QPSK	3	0	18.90	18.90	18.86	
1.4	QPSK	3	1	18.94	18.91	18.89	
1.4	QPSK	3	3	18.96	19.00	18.89	
1.4	QPSK	6	0	17.99	17.97	17.96	19
1.4	16QAM	1	0	18.02	18.02	17.96	19
1.4	16QAM	1	3	17.98	18.18	18.16	
1.4	16QAM	1	5	17.86	18.06	17.74	
1.4	16QAM	3	0	17.88	17.93	17.90	
1.4	16QAM	3	1	18.06	17.88	17.93	
1.4	16QAM	3	3	18.08	18.05	17.79	
1.4	16QAM	6	0	18.09	18.02	17.97	19
1.4	64QAM	1	0	17.97	17.89	17.92	19
1.4	64QAM	1	3	17.99	18.20	18.08	
1.4	64QAM	1	5	17.97	18.32	17.91	
1.4	64QAM	3	0	18.00	18.06	18.07	
1.4	64QAM	3	1	18.09	18.06	18.27	
1.4	64QAM	3	3	18.01	18.15	17.92	
1.4	64QAM	6	0	18.06	18.09	17.98	19

3	16QAM	8	0	18.92	18.93	19.02	20
3	16QAM	8	4	19.02	19.02	19.03	
3	16QAM	8	7	19.24	19.32	19.36	
3	16QAM	15	0	19.24	19.22	19.29	
3	64QAM	1	0	18.91	19.00	18.98	20
3	64QAM	1	8	19.10	18.98	19.14	
3	64QAM	1	14	18.91	18.98	18.81	
3	64QAM	8	0	18.89	18.93	18.87	
3	64QAM	8	4	19.01	18.99	19.03	20
3	64QAM	8	7	18.95	19.02	19.14	
3	64QAM	15	0	18.91	18.99	18.90	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	19.96	20.01	19.99	21
1.4	QPSK	1	3	19.90	19.90	19.94	
1.4	QPSK	1	5	19.76	19.85	19.87	
1.4	QPSK	3	0	19.84	19.81	19.80	
1.4	QPSK	3	1	19.80	19.90	19.95	
1.4	QPSK	3	3	19.79	19.86	19.85	
1.4	QPSK	6	0	18.95	18.97	18.93	20
1.4	16QAM	1	0	18.89	19.36	19.02	20
1.4	16QAM	1	3	19.02	19.10	19.14	
1.4	16QAM	1	5	19.08	19.24	19.04	
1.4	16QAM	3	0	19.11	19.15	19.06	
1.4	16QAM	3	1	19.12	19.15	19.17	
1.4	16QAM	3	3	19.11	19.23	19.12	
1.4	16QAM	6	0	19.02	19.03	18.94	20
1.4	64QAM	1	0	18.80	18.74	18.88	20
1.4	64QAM	1	3	19.06	19.04	19.16	
1.4	64QAM	1	5	18.97	18.93	18.77	
1.4	64QAM	3	0	18.88	18.86	19.05	
1.4	64QAM	3	1	18.79	18.94	18.91	
1.4	64QAM	3	3	18.85	19.02	18.90	
1.4	64QAM	6	0	18.84	18.85	18.92	20

Band 7 (2600MHz Band)							
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	17.10	17.11	17.03	18
20	QPSK	1	49	17.05	17.09	16.98	
20	QPSK	1	99	17.00	16.95	17.00	
20	QPSK	50	0	16.16	16.23	16.20	17
20	QPSK	50	24	15.92	15.89	15.79	
20	QPSK	50	50	16.02	16.05	16.02	
20	QPSK	100	0	15.97	15.99	15.96	17
20	16QAM	1	0	15.78	15.88	16.06	
20	16QAM	1	49	15.93	15.79	16.07	
20	16QAM	1	99	15.87	16.18	15.83	17
20	16QAM	50	0	15.72	15.82	15.75	
20	16QAM	50	24	15.77	15.69	15.80	
20	16QAM	50	50	15.85	15.90	15.73	17
20	16QAM	100	0	15.73	15.85	15.83	
20	64QAM	1	0	15.61	15.45	15.18	
20	64QAM	1	49	15.55	15.52	15.57	17
20	64QAM	1	99	15.53	15.58	15.49	
20	64QAM	50	0	15.47	15.48	15.53	
20	64QAM	50	24	15.52	15.53	15.53	17
20	64QAM	50	50	15.56	15.63	15.48	
20	64QAM	100	0	15.49	15.46	15.58	
Channel				20825	21100	21375	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	16.93	17.02	17.02	18
15	QPSK	1	37	17.03	17.00	17.04	
15	QPSK	1	74	16.97	17.04	17.04	
15	QPSK	36	0	15.75	15.84	15.86	17
15	QPSK	36	20	15.83	15.90	15.85	
15	QPSK	36	39	15.86	15.89	15.93	
15	QPSK	75	0	15.92	15.85	15.87	17
15	16QAM	1	0	16.28	16.39	16.46	
15	16QAM	1	37	16.10	16.21	16.19	
15	16QAM	1	74	16.14	16.14	16.36	17
15	16QAM	36	0	15.73	15.84	15.86	
15	16QAM	36	20	15.80	15.83	15.82	
15	16QAM	36	39	15.86	15.84	15.73	17
15	16QAM	75	0	15.81	15.89	15.81	
15	64QAM	1	0	15.71	15.68	15.56	
15	64QAM	1	37	15.61	15.76	15.85	17
15	64QAM	1	74	15.60	15.72	15.78	
15	64QAM	36	0	15.45	15.53	15.52	
15	64QAM	36	20	15.56	15.55	15.62	17
15	64QAM	36	39	15.60	15.51	15.53	
15	64QAM	75	0	15.45	15.55	15.50	
Channel				20800	21100	21400	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	16.92	16.79	16.82	18
10	QPSK	1	25	16.95	16.85	16.87	
10	QPSK	1	49	16.88	16.85	16.87	
10	QPSK	25	0	15.67	15.67	15.66	17
10	QPSK	25	12	15.63	15.75	15.80	
10	QPSK	25	25	15.56	15.74	15.74	
10	QPSK	50	0	15.65	15.77	15.76	17
10	16QAM	1	0	15.90	16.08	15.93	
10	16QAM	1	25	15.89	15.91	15.96	
10	16QAM	1	49	16.36	16.26	16.17	17
10	16QAM	25	0	15.79	15.67	15.75	
10	16QAM	25	12	15.61	15.78	15.71	
10	16QAM	25	25	15.66	15.69	15.61	17
10	16QAM	50	0	15.69	15.78	15.63	
10	64QAM	1	0	15.71	15.67	15.65	
10	64QAM	1	25	15.40	15.65	15.48	17
10	64QAM	1	49	15.51	15.75	15.56	
10	64QAM	25	0	15.37	15.35	15.39	
10	64QAM	25	12	15.39	15.50	15.43	17
10	64QAM	25	25	15.32	15.22	15.21	
10	64QAM	50	0	15.26	15.32	15.24	
Channel				20775	21100	21425	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	16.96	16.87	16.77	18
5	QPSK	1	12	16.83	16.76	16.84	
5	QPSK	1	24	16.77	16.83	16.87	
5	QPSK	12	0	15.47	15.55	15.47	17
5	QPSK	12	7	15.54	15.69	15.61	
5	QPSK	12	13	15.56	15.72	15.57	
5	QPSK	25	0	15.57	15.58	15.53	17
5	16QAM	1	0	15.75	15.73	15.79	
5	16QAM	1	12	15.80	16.02	15.92	
5	16QAM	1	24	15.86	16.05	15.87	17
5	16QAM	12	0	15.77	15.83	15.74	
5	16QAM	12	7	15.66	15.68	15.64	
5	16QAM	12	13	15.66	15.72	15.85	17
5	16QAM	25	0	15.63	15.68	15.70	
5	64QAM	1	0	15.47	15.52	15.48	
5	64QAM	1	12	15.52	15.64	15.52	17
5	64QAM	1	24	15.56	15.66	15.62	
5	64QAM	12	0	15.27	15.24	15.29	
5	64QAM	12	7	15.36	15.41	15.20	17
5	64QAM	12	13	15.31	15.40	15.26	
5	64QAM	25	0	15.26	15.25	15.30	

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	19.98	20.04	20.02	21
20	QPSK	1	49	19.83	19.82	19.78	
20	QPSK	1	99	19.76	19.75	19.78	
20	QPSK	50	0	19.21	19.28	19.24	20
20	QPSK	50	24	19.02	19.04	19.17	
20	QPSK	50	50	19.06	19.14	19.02	
20	QPSK	100	0	19.04	19.04	18.96	20
20	16QAM	1	0	19.09	18.85	19.13	
20	16QAM	1	49	19.14	18.88	18.94	
20	16QAM	1	99	19.14	19.32	19.11	20
20	16QAM	50	0	19.26	19.23	19.20	
20	16QAM	50	24	19.15	19.15	19.16	
20	16QAM	50	50	19.12	19.04	19.00	20
20	16QAM	100	0	19.08	19.11	19.17	
20	64QAM	1	0	19.24	19.01	19.34	
20	64QAM	1	49	19.01	19.34	19.33	20
20	64QAM	1	99	19.24	19.36	19.44	
20	64QAM	50	0	19.20	19.10	19.23	
20	64QAM	50	24	19.14	19.08	19.20	20
20	64QAM	50	50	19.16	19.04	19.10	
20	64QAM	100	0	19.15	19.15	19.13	
Channel				132047	132322	132597	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	19.84	19.88	19.86	21
15	QPSK	1	37	19.96	19.84	19.82	
15	QPSK	1	74	19.82	19.78	19.76	
15	QPSK	36	0	19.03	19.00	19.04	20
15	QPSK	36	20	19.03	18.95	19.05	
15	QPSK	36	39	18.99	18.94	18.91	
15	QPSK	75	0	18.98	19.02	18.95	20
15	16QAM	1	0	18.97	18.84	19.14	
15	16QAM	1	37	18.84	19.14	19.07	
15	16QAM	1	74	18.94	18.84	18.84	20
15	16QAM	36	0	19.15	19.15	19.06	
15	16QAM	36	20	19.18	19.17	19.23	
15	16QAM	36	39	19.10	19.25	19.19	20
15	16QAM	75	0	19.20	19.18	19.14	
15	64QAM	1	0	19.34	19.24	19.34	
15	64QAM	1	37	19.36	19.14	19.24	20
15	64QAM	1	74	19.01	19.27	19.34	
15	64QAM	36	0	19.13	19.12	19.25	
15	64QAM	36	20	19.23	19.19	19.20	20
15	64QAM	36	39	19.12	19.06	19.10	
15	64QAM	75	0	19.14	19.16	19.13	
Channel				132022	132322	132622	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	19.82	19.82	19.83	21
10	QPSK	1	25	19.72	19.70	19.78	
10	QPSK	1	49	19.86	19.74	19.64	
10	QPSK	25	0	19.29	19.22	19.29	20
10	QPSK	25	12	19.26	19.45	19.23	
10	QPSK	25	25	19.27	19.23	19.15	
10	QPSK	50	0	19.35	19.20	19.39	20
10	16QAM	1	0	19.27	19.27	19.47	
10	16QAM	1	25	19.27	19.36	19.48	
10	16QAM	1	49	19.10	19.30	19.18	20
10	16QAM	25	0	19.11	19.28	19.16	
10	16QAM	25	12	19.10	19.30	19.21	
10	16QAM	25	25	19.01	19.06	19.06	20
10	16QAM	50	0	19.17	19.21	19.22	
10	64QAM	1	0	19.17	19.17	18.84	
10	64QAM	1	25	18.84	18.97	18.87	20</

3	16QAM	8	0	19.06	19.06	18.97	20
3	16QAM	8	4	19.09	19.08	19.14	
3	16QAM	8	7	19.01	19.16	19.10	
3	16QAM	15	0	19.11	19.09	19.05	20
3	64QAM	1	0	19.25	19.15	19.25	
3	64QAM	1	8	19.27	19.05	19.15	
3	64QAM	1	14	18.92	19.18	19.25	20
3	64QAM	8	0	19.04	19.03	19.16	
3	64QAM	8	4	19.14	19.10	19.11	
3	64QAM	8	7	19.03	18.97	19.01	20
3	64QAM	15	0	19.05	19.07	19.04	
Channel				131979	132322	132665	Turn-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	19.72	19.63	19.64	21
1.4	QPSK	1	3	19.78	19.80	19.80	
1.4	QPSK	1	5	19.70	19.58	19.74	
1.4	QPSK	3	0	19.69	19.62	19.69	
1.4	QPSK	3	1	19.66	19.72	19.63	
1.4	QPSK	3	3	19.67	19.63	19.55	
1.4	QPSK	6	0	19.27	19.12	19.31	20
1.4	16QAM	1	0	19.19	19.19	19.39	20
1.4	16QAM	1	3	19.19	19.28	19.40	
1.4	16QAM	1	5	19.02	19.22	19.10	
1.4	16QAM	3	0	18.97	18.94	19.20	
1.4	16QAM	3	1	19.06	18.96	19.08	
1.4	16QAM	3	3	19.07	19.08	19.02	
1.4	16QAM	6	0	18.96	18.87	18.88	20
1.4	64QAM	1	0	19.30	19.15	19.31	20
1.4	64QAM	1	3	19.03	19.12	19.12	
1.4	64QAM	1	5	19.00	19.00	19.11	
1.4	64QAM	3	0	19.09	19.07	19.09	
1.4	64QAM	3	1	19.08	19.12	19.16	
1.4	64QAM	3	3	19.08	19.01	19.03	
1.4	64QAM	6	0	18.98	19.08	19.09	20

Band 40 (2.3G Band-1)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				38750			
Frequency (MHz)				2310			
10	QPSK	1	0		20.04		21
10	QPSK	1	25		19.95		
10	QPSK	1	49		19.93		
10	QPSK	25	0		19.34		20
10	QPSK	25	12		19.21		
10	QPSK	25	25		19.26		
10	QPSK	50	0		19.04		20
10	16QAM	1	0		19.13		
10	16QAM	1	25		19.11		
10	16QAM	1	49		19.15		20
10	16QAM	25	0		19.04		
10	16QAM	25	12		19.11		
10	16QAM	25	25		19.08		20
10	16QAM	50	0		19.15		
10	64QAM	1	0		19.22		
10	64QAM	1	25		19.01		20
10	64QAM	1	49		19.27		
10	64QAM	25	0		18.84		
10	64QAM	25	12		19.04		20
10	64QAM	25	25		19.11		
10	64QAM	50	0		19.04		
Channel				38725	38750	38775	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	QPSK	1	0	19.98	19.93	19.84	21
5	QPSK	1	12	19.89	19.88	19.99	
5	QPSK	1	24	19.95	19.97	19.81	
5	QPSK	12	0	19.14	19.07	19.19	20
5	QPSK	12	7	19.19	19.05	19.15	
5	QPSK	12	13	19.07	19.03	19.06	
5	QPSK	25	0	19.10	18.96	19.17	20
5	16QAM	1	0	19.14	19.11	19.19	
5	16QAM	1	12	19.30	19.21	19.28	
5	16QAM	1	24	19.22	19.11	19.10	20
5	16QAM	12	0	19.06	18.96	19.12	
5	16QAM	12	7	19.08	19.02	19.05	
5	16QAM	12	13	19.15	18.93	19.12	20
5	16QAM	25	0	19.12	19.04	19.07	
5	64QAM	1	0	19.24	19.27	19.02	
5	64QAM	1	12	19.25	18.65	18.61	20
5	64QAM	1	24	19.28	18.89	18.65	
5	64QAM	12	0	19.03	19.09	19.19	
5	64QAM	12	7	19.08	19.12	19.15	20
5	64QAM	12	13	19.12	19.07	19.09	
5	64QAM	25	0	19.13	19.09	19.12	

Band 40 (2.3G Band-2)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				39200			
Frequency (MHz)				2355			
10	QPSK	1	0		20.03		21
10	QPSK	1	25		19.94		
10	QPSK	1	49		19.90		
10	QPSK	25	0		19.24		20
10	QPSK	25	12		19.16		
10	QPSK	25	25		19.17		
10	QPSK	50	0		19.14		20
10	16QAM	1	0		19.24		
10	16QAM	1	25		19.15		
10	16QAM	1	49		19.07		20
10	16QAM	25	0		19.19		
10	16QAM	25	12		19.22		
10	16QAM	25	25		19.21		20
10	16QAM	50	0		19.18		
10	64QAM	1	0		19.27		
10	64QAM	1	25		19.20		20
10	64QAM	1	49		19.04		
10	64QAM	25	0		19.16		
10	64QAM	25	12		19.15		20
10	64QAM	25	25		19.12		
10	64QAM	50	0		19.01		
Channel				39175	39200	39225	Tune-up limit (dBm)
Frequency (MHz)				2352.5	2355	2357.5	
5	QPSK	1	0	19.91	19.86	19.95	21
5	QPSK	1	12	19.86	19.90	19.93	
5	QPSK	1	24	19.79	19.98	19.98	
5	QPSK	12	0	19.14	19.13	19.19	20
5	QPSK	12	7	19.16	19.17	19.19	
5	QPSK	12	13	19.14	19.17	19.17	
5	QPSK	25	0	19.09	19.07	19.23	20
5	16QAM	1	0	19.20	19.26	19.24	
5	16QAM	1	12	19.15	19.13	19.19	
5	16QAM	1	24	19.04	18.95	19.02	20
5	16QAM	12	0	19.12	19.08	19.25	
5	16QAM	12	7	19.04	19.17	19.25	
5	16QAM	12	13	19.10	19.11	19.07	20
5	16QAM	25	0	19.17	19.12	19.21	
5	64QAM	1	0	19.25	18.90	18.94	
5	64QAM	1	12	19.36	18.74	18.86	20
5	64QAM	1	24	19.37	18.92	18.81	
5	64QAM	12	0	19.03	19.06	19.14	
5	64QAM	12	7	18.99	19.00	19.07	20
5	64QAM	12	13	19.04	19.05	19.08	
5	64QAM	25	0	19.12	19.06	19.13	

Reduced Power Level 3

GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
TX Channel	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	25.45	25.48	25.43	26.50	16.45	16.48	16.43	17.50
GPRS 1 Tx slot	25.46	25.49	25.44	26.50	16.46	16.49	16.44	17.50
GPRS 2 Tx slots	22.80	22.81	22.79	23.50	16.80	16.81	16.79	17.50
GPRS 3 Tx slots	21.66	21.69	21.65	22.50	17.40	17.43	17.39	18.24
GPRS 4 Tx slots	19.26	19.31	19.27	20.50	16.26	16.31	16.27	17.50
EDGE 1 Tx slot	21.54	21.64	21.47	22.50	12.54	12.64	12.47	13.50
EDGE 2 Tx slots	20.56	20.63	20.46	21.50	14.56	14.63	14.46	15.50
EDGE 3 Tx slots	18.29	18.37	18.36	19.50	14.03	14.11	14.10	15.24
EDGE 4 Tx slots	16.58	16.62	16.51	17.50	13.58	13.62	13.51	14.50
Mode		Max.	25.49			Max.	17.43	
Attenuator	Cable Loss : 0.8							

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	19.02	19.05	19.03	20.00	19.09	19.16	19.05	20.00
3GPP Rel 6	HSDPA Subtest-1	18.13	18.16	18.14	19.00	18.11	18.31	18.06	19.00
3GPP Rel 6	HSDPA Subtest-2	18.10	18.13	18.06	19.00	18.14	18.23	18.04	19.00
3GPP Rel 6	HSDPA Subtest-3	18.06	18.14	17.95	19.00	18.12	18.23	18.01	19.00
3GPP Rel 6	HSDPA Subtest-4	18.08	18.16	17.96	19.00	18.14	18.14	18.02	19.00
3GPP Rel 8	DC-HSDPA Subtest-1	18.18	18.14	18.29	19.00	18.09	18.15	18.20	19.00
3GPP Rel 8	DC-HSDPA Subtest-2	18.20	18.10	18.28	19.00	18.18	18.16	18.10	19.00
3GPP Rel 8	DC-HSDPA Subtest-3	18.28	18.25	18.30	19.00	18.18	18.13	18.19	19.00
3GPP Rel 8	DC-HSDPA Subtest-4	18.22	18.29	18.28	19.00	18.16	18.10	18.15	19.00
3GPP Rel 6	HSUPA Subtest-1	17.95	17.94	17.91	18.50	17.67	17.55	17.66	18.50
3GPP Rel 6	HSUPA Subtest-2	17.93	17.95	17.93	18.50	17.66	17.55	17.68	18.50
3GPP Rel 6	HSUPA Subtest-3	17.91	17.95	17.80	18.50	17.65	17.53	17.59	18.50
3GPP Rel 6	HSUPA Subtest-4	17.90	17.89	17.91	18.50	17.63	17.54	17.67	18.50
3GPP Rel 6	HSUPA Subtest-5	17.89	17.93	17.83	18.50	17.64	17.63	17.60	18.50
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	17.91	17.93	17.66	18.50	17.73	17.49	17.56	18.50
Attenuator			Cable Loss	0.8			Cable Loss	0.6	
Mode			Max.	19.05			Max.	19.16	

Band 2 (1900MHz Band)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				18700	18900	19100	20
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	19.11	19.14	19.08	19
20	QPSK	1	49	19.09	19.03	18.96	
20	QPSK	1	99	19.03	18.99	18.97	
20	QPSK	50	0	18.19	18.28	18.21	
20	QPSK	50	24	18.20	18.25	18.25	
20	QPSK	50	50	18.25	18.21	18.27	19
20	QPSK	100	0	18.18	18.27	18.23	
20	16QAM	1	0	18.24	18.24	18.26	
20	16QAM	1	49	18.08	18.38	18.34	
20	16QAM	1	99	18.33	18.18	18.58	
20	16QAM	50	0	18.26	18.23	18.21	19
20	16QAM	50	24	18.22	18.27	18.28	
20	16QAM	50	50	18.30	18.27	18.34	
20	16QAM	100	0	18.33	18.34	18.21	
20	64QAM	1	0	18.28	18.47	18.21	
20	64QAM	1	49	18.23	18.41	18.32	19
20	64QAM	1	99	18.18	18.51	18.51	
20	64QAM	50	0	18.28	18.20	18.25	
20	64QAM	50	24	18.31	18.25	18.30	
20	64QAM	50	50	18.30	18.31	18.25	
20	64QAM	100	0	18.18	18.15	18.16	19
Channel				18675	18900	19125	
Frequency (MHz)				1857.5	1880	1902.5	20
15	QPSK	1	0	18.92	18.95	18.86	
15	QPSK	1	37	18.71	19.07	18.95	19
15	QPSK	1	74	19.08	19.00	19.08	
15	QPSK	36	0	18.05	18.14	18.13	
15	QPSK	36	20	18.04	18.23	18.20	
15	QPSK	36	39	18.16	18.17	18.14	19
15	QPSK	75	0	18.08	18.14	18.10	
15	16QAM	1	0	18.17	18.25	18.19	
15	16QAM	1	37	18.30	18.33	18.19	
15	16QAM	1	74	18.25	18.37	18.37	
15	16QAM	36	0	18.04	18.09	18.12	19
15	16QAM	36	20	18.13	18.06	18.19	
15	16QAM	36	39	18.18	18.27	18.24	
15	16QAM	75	0	18.05	18.07	18.16	
15	64QAM	1	0	18.25	18.01	18.07	
15	64QAM	1	37	18.24	18.05	18.47	19
15	64QAM	1	74	18.13	18.17	18.32	
15	64QAM	36	0	17.98	18.15	18.03	
15	64QAM	36	20	18.18	18.20	18.10	
15	64QAM	36	39	18.06	18.11	18.20	
15	64QAM	75	0	18.05	18.12	18.11	19
Channel				18650	18900	19150	
Frequency (MHz)				1855	1880	1905	20
10	QPSK	1	0	18.89	18.88	18.98	
10	QPSK	1	25	19.00	19.10	18.98	19
10	QPSK	1	49	18.89	18.97	18.89	
10	QPSK	25	0	18.16	18.17	18.13	
10	QPSK	25	12	18.12	18.24	18.17	
10	QPSK	25	25	18.03	18.16	18.12	19
10	QPSK	50	0	18.09	18.18	18.16	
10	16QAM	1	0	18.57	18.50	18.49	
10	16QAM	1	25	18.26	18.22	18.29	
10	16QAM	1	49	18.21	18.29	18.08	
10	16QAM	25	0	18.11	18.10	18.07	19
10	16QAM	25	12	18.27	18.07	18.07	
10	16QAM	25	25	18.07	18.27	18.37	
10	16QAM	50	0	18.64	18.57	18.61	
10	64QAM	1	0	18.15	18.20	18.20	
10	64QAM	1	25	18.18	18.23	18.27	19
10	64QAM	1	49	17.85	17.98	17.95	
10	64QAM	25	0	18.15	18.19	18.20	
10	64QAM	25	12	18.18	18.16	18.17	
10	64QAM	25	25	18.11	17.89	18.11	
10	64QAM	50	0	18.12	18.12	18.09	19
Channel				18625	18900	19175	
Frequency (MHz)				1852.5	1880	1907.5	20
5	QPSK	1	0	19.03	19.08	19.02	
5	QPSK	1	12	19.02	18.97	19.00	19
5	QPSK	1	24	18.98	19.06	19.07	
5	QPSK	12	0	18.15	18.06	18.13	
5	QPSK	12	7	18.16	18.21	18.13	
5	QPSK	12	13	18.15	18.14	18.17	19
5	QPSK	25	0	18.14	18.12	18.14	
5	16QAM	1	0	18.27	18.17	18.55	
5	16QAM	1	12	18.25	18.18	18.55	
5	16QAM	1	24	18.28	18.15	18.54	
5	16QAM	12	0	18.37	18.51	18.37	19
5	16QAM	12	7	18.27	18.27	18.07	
5	16QAM	12	13	18.07	18.40	18.17	
5	16QAM	25	0	18.17	18.63	18.61	
5	64QAM	1	0	18.37	18.09	18.14	
5	64QAM	1	12	18.53	18.19	18.30	19
5	64QAM	1	24	18.54	18.18	18.20	
5	64QAM	12	0	18.19	18.12	18.11	
5	64QAM	12	7	18.25	18.09	18.09	
5	64QAM	12	13	18.22	18.18	18.16	
5	64QAM	25	0	18.29	18.09	18.16	19
Channel				18615	18900	19185	
Frequency (MHz)				1851.5	1880	1908.5	20
3	QPSK	1	0	19.97	19.04	18.96	
3	QPSK	1	8	19.07	19.10	18.93	19
3	QPSK	1	14	19.08	18.95	18.95	
3	QPSK	8	0	18.03	17.98	18.00	
3	QPSK	8	4	18.09	18.03	18.04	
3	QPSK	8	7	18.09	18.03	17.99	19
3	QPSK	15	0	18.01	18.09	18.02	
3	16QAM	1	0	18.17	18.08	18.02	
3	16QAM	1	8	18.21	18.15	18.11	
3	16QAM	1	14	18.14	18.11	17.99	

Band 4 (AWS Band)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20050	20175	20300	20
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	19.00	19.08	19.07	19
20	QPSK	1	49	18.86	18.94	18.93	
20	QPSK	1	99	18.78	18.91	19.03	
20	QPSK	50	0	18.16	18.20	18.17	
20	QPSK	50	24	18.07	18.15	18.15	
20	QPSK	50	50	17.96	18.07	18.08	19
20	QPSK	100	0	18.06	18.10	18.17	
20	16QAM	1	0	17.93	18.23	18.10	
20	16QAM	1	49	18.08	17.85	17.99	
20	16QAM	1	99	17.87	18.09	17.93	
20	16QAM	50	0	18.06	17.99	18.13	19
20	16QAM	50	24	18.32	18.43	18.32	
20	16QAM	50	50	18.28	18.29	18.29	
20	16QAM	100	0	18.30	18.38	18.39	
20	64QAM	1	0	18.04	18.15	18.37	
20	64QAM	1	49	18.08	18.01	17.89	19
20	64QAM	1	99	18.35	17.92	18.39	
20	64QAM	50	0	18.05	18.14	18.09	
20	64QAM	50	24	18.07	18.18	18.12	
20	64QAM	50	50	18.11	18.06	18.08	
20	64QAM	100	0	18.14	18.12	18.21	19
Channel				20025	20175	20325	
Frequency (MHz)				1717.5	1732.5	1747.5	20
15	QPSK	1	0	18.87	18.91	19.01	
15	QPSK	1	37	18.91	19.00	18.92	19
15	QPSK	1	74	18.78	19.00	19.03	
15	QPSK	36	0	18.01	18.08	18.11	
15	QPSK	36	20	18.05	18.18	18.14	
15	QPSK	36	39	18.10	18.09	18.18	19
15	QPSK	75	0	18.05	18.07	18.08	
15	16QAM	1	0	17.99	18.21	17.93	
15	16QAM	1	37	18.07	18.07	17.91	
15	16QAM	1	74	17.93	18.23	18.02	
15	16QAM	36	0	17.94	17.96	18.15	19
15	16QAM	36	20	17.89	17.96	18.02	
15	16QAM	36	39	17.85	17.94	18.00	
15	16QAM	75	0	17.96	17.97	18.06	
15	64QAM	1	0	17.91	18.22	18.27	
15	64QAM	1	37	18.33	18.09	18.15	19
15	64QAM	1	74	18.37	18.08	18.12	
15	64QAM	36	0	18.02	18.09	18.13	
15	64QAM	36	20	18.08	18.10	18.12	
15	64QAM	36	39	18.11	18.07	18.09	
15	64QAM	75	0	18.04	18.15	18.08	19
Channel				20000	20175	20350	
Frequency (MHz)				1715	1732.5	1750	20
10	QPSK	1	0	18.99	18.98	18.81	
10	QPSK	1	25	18.97	18.90	18.91	19
10	QPSK	1	49	18.85	18.68	18.91	
10	QPSK	25	0	17.84	18.06	18.08	
10	QPSK	25	12	17.96	18.02	18.06	
10	QPSK	25	25	17.85	17.96	18.03	19
10	QPSK	50	0	17.91	18.01	17.93	
10	16QAM	1	0	17.90	18.05	17.81	
10	16QAM	1	25	18.17	17.91	18.23	
10	16QAM	1	49	18.24	18.14	18.13	
10	16QAM	25	0	17.90	17.89	17.88	19
10	16QAM	25	12	17.82	17.92	17.89	
10	16QAM	25	25	18.16	18.07	18.16	
10	16QAM	50	0	18.10	18.14	18.26	
10	64QAM	1	0	17.96	18.04	17.94	
10	64QAM	1	25	18.03	18.32	18.41	19
10	64QAM	1	49	18.01	18.05	18.00	
10	64QAM	25	0	17.85	17.99	17.98	
10	64QAM	25	12	17.94	18.05	18.09	
10	64QAM	25	25	17.82	17.94	17.96	
10	64QAM	50	0	17.88	17.95	17.94	19
Channel				19975	20175	20375	
Frequency (MHz)				1712.5	1732.5	1752.5	20
5	QPSK	1	0	18.96	18.91	18.96	
5	QPSK	1	12	18.95	18.90	18.87	19
5	QPSK	1	24	18.70	18.82	18.81	
5	QPSK	12	0	17.92	17.92	17.96	
5	QPSK	12	7	17.92	18.03	18.00	
5	QPSK	12	13	17.87	18.04	17.96	19
5	QPSK	25	0	17.90	17.94	18.00	
5	16QAM	1	0	17.80	18.21	17.89	
5	16QAM	1	12	17.91	18.26	17.85	
5	16QAM	1	24	17.85	18.20	17.80	
5	16QAM	12	0	17.84	17.78	17.81	19
5	16QAM	12	7	17.87	17.91	17.89	
5	16QAM	12	13	18.14	18.21	18.25	
5	16QAM	25	0	18.15	18.26	18.19	
5	64QAM	1	0	17.92	18.36	18.34	
5	64QAM	1	12	18.30	18.06	18.33	19
5	64QAM	1	24	18.26	17.96	18.03	
5	64QAM	12	0	17.93	18.00	18.02	
5	64QAM	12	7	17.92	18.01	18.07	
5	64QAM	12	13	17.93	17.99	17.98	
5	64QAM	25	0	17.88	18.02	17.93	19
Channel				19995	20175	20385	
Frequency (MHz)				1711.5	1732.5	1753.5	20
3	QPSK	1	0	18.81	18.82	18.94	
3	QPSK	1	8	18.90	19.04	18.98	19
3	QPSK	1	14	18.70	18.89	18.89	
3	QPSK	8	0	17.90	17.96	17.97	
3	QPSK	8	4	17.96	18.04	18.06	
3	QPSK	8	7	17.92	18.02	18.02	19
3	QPSK	15	0	17.92	17.98	17.92	
3	16QAM	1	0	18.00	18.09	18.13	
3	16QAM	1	8	18.22	18.22	17.96	
3	16QAM	1	14	18.13	17.91	17.99	

3	16QAM	8	0	18.57	18.70	18.62	19
3	16QAM	8	4	18.64	18.61	18.67	
3	16QAM	8	7	18.54	18.59	18.62	
3	16QAM	15	0	18.57	18.61	18.56	
3	64QAM	1	0	18.10	18.03	18.06	19
3	64QAM	1	8	18.52	18.51	18.11	
3	64QAM	1	14	18.13	18.49	18.13	
3	64QAM	8	0	18.05	18.07	17.91	
3	64QAM	8	4	18.15	18.05	18.05	19
3	64QAM	8	7	18.25	18.14	18.00	
3	64QAM	15	0	18.10	18.10	18.08	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	19.03	19.06	19.01	20
1.4	QPSK	1	3	18.93	18.91	18.90	
1.4	QPSK	1	5	18.90	18.88	18.86	
1.4	QPSK	3	0	18.90	18.90	18.86	
1.4	QPSK	3	1	18.94	18.91	18.89	
1.4	QPSK	3	3	18.96	19.00	18.89	
1.4	QPSK	6	0	17.99	17.97	17.96	19
1.4	16QAM	1	0	18.02	18.02	17.96	19
1.4	16QAM	1	3	17.98	18.18	18.16	
1.4	16QAM	1	5	17.86	18.06	17.74	
1.4	16QAM	3	0	17.88	17.93	17.90	
1.4	16QAM	3	1	18.06	17.88	17.93	
1.4	16QAM	3	3	18.08	18.05	17.79	
1.4	16QAM	6	0	18.09	18.02	17.97	19
1.4	64QAM	1	0	17.97	17.89	17.92	19
1.4	64QAM	1	3	17.99	18.20	18.08	
1.4	64QAM	1	5	17.97	18.32	17.91	
1.4	64QAM	3	0	18.00	18.06	18.07	
1.4	64QAM	3	1	18.09	18.06	18.27	
1.4	64QAM	3	3	18.01	18.15	17.92	
1.4	64QAM	6	0	18.06	18.09	17.98	19

3	16QAM	8	0	17.92	17.93	18.02	19
3	16QAM	8	4	18.02	18.02	18.03	
3	16QAM	8	7	18.24	18.32	18.36	
3	16QAM	15	0	18.24	18.22	18.29	
3	64QAM	1	0	17.91	18.00	17.98	19
3	64QAM	1	8	18.10	17.98	18.14	
3	64QAM	1	14	17.91	17.98	17.81	
3	64QAM	8	0	17.89	17.93	17.87	
3	64QAM	8	4	18.01	17.99	18.03	19
3	64QAM	8	7	17.95	18.02	18.14	
3	64QAM	15	0	17.91	17.99	17.90	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	18.96	19.01	18.99	20
1.4	QPSK	1	3	18.90	18.90	18.94	
1.4	QPSK	1	5	18.76	18.85	18.87	
1.4	QPSK	3	0	18.84	18.81	18.80	
1.4	QPSK	3	1	18.80	18.90	18.95	
1.4	QPSK	3	3	18.79	18.86	18.85	
1.4	QPSK	6	0	17.95	17.97	17.93	19
1.4	16QAM	1	0	17.89	18.36	18.02	19
1.4	16QAM	1	3	18.02	18.10	18.14	
1.4	16QAM	1	5	18.08	18.24	18.04	
1.4	16QAM	3	0	18.11	18.15	18.06	
1.4	16QAM	3	1	18.12	18.15	18.17	
1.4	16QAM	3	3	18.11	18.23	18.12	
1.4	16QAM	6	0	18.02	18.03	17.94	19
1.4	64QAM	1	0	17.80	17.74	17.88	19
1.4	64QAM	1	3	18.06	18.04	18.16	
1.4	64QAM	1	5	17.97	17.93	17.77	
1.4	64QAM	3	0	17.88	17.86	18.05	
1.4	64QAM	3	1	17.79	17.94	17.91	
1.4	64QAM	3	3	17.85	18.02	17.90	
1.4	64QAM	6	0	17.84	17.85	17.92	19

Band 5 (Celluar Band)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20450	20525	20600	23.5
Frequency (MHz)				829	830.5	844	
10	QPSK	1	0	22.51	22.52	22.44	23.5
10	QPSK	1	25	22.37	22.40	22.20	
10	QPSK	1	49	22.29	22.41	22.09	
10	QPSK	25	0	21.82	21.84	21.65	22.5
10	QPSK	25	12	21.58	21.60	21.65	
10	QPSK	25	25	21.58	21.69	21.74	
10	QPSK	50	0	21.64	21.52	21.66	22.5
10	16QAM	1	0	21.68	21.87	21.58	
10	16QAM	1	25	21.91	21.94	21.62	
10	16QAM	1	49	21.74	21.80	21.87	22.5
10	16QAM	25	0	21.83	21.84	21.66	
10	16QAM	25	12	21.77	21.85	21.63	
10	16QAM	25	25	21.80	21.73	21.76	22.5
10	16QAM	50	0	21.81	21.72	21.62	
10	64QAM	1	0	21.77	21.87	21.75	
10	64QAM	1	25	21.74	21.94	21.74	22.5
10	64QAM	1	49	21.63	21.85	21.76	
10	64QAM	25	0	21.74	21.85	21.52	
10	64QAM	25	12	21.73	21.90	21.61	22.5
10	64QAM	25	25	21.85	21.74	21.44	
10	64QAM	50	0	21.81	21.77	21.63	
Channel				20425	20525	20625	23.5
Frequency (MHz)				826.5	836.5	846.5	
5	QPSK	1	0	22.46	22.42	22.40	23.5
5	QPSK	1	12	22.36	22.47	22.31	
5	QPSK	1	24	22.36	22.31	22.31	
5	QPSK	12	0	21.73	21.78	21.64	22.5
5	QPSK	12	7	21.80	21.81	21.73	
5	QPSK	12	13	21.85	21.69	21.64	
5	QPSK	25	0	21.75	21.72	21.64	22.5
5	16QAM	1	0	22.05	21.98	21.74	
5	16QAM	1	12	21.75	21.97	21.73	
5	16QAM	1	24	21.62	21.97	21.80	22.5
5	16QAM	12	0	21.71	21.80	21.79	
5	16QAM	12	7	21.78	21.81	21.63	
5	16QAM	12	13	21.78	21.69	21.74	22.5
5	16QAM	25	0	21.79	21.84	21.79	
5	64QAM	1	0	21.86	21.74	21.85	
5	64QAM	1	12	21.74	21.68	21.82	22.5
5	64QAM	1	24	21.88	21.72	21.66	
5	64QAM	12	0	21.80	21.74	21.54	
5	64QAM	12	7	21.64	21.80	21.58	22.5
5	64QAM	12	13	21.82	21.77	21.34	
5	64QAM	25	0	21.70	21.77	21.38	
Channel				20415	20525	20635	23.5
Frequency (MHz)				825.5	836.5	847.5	
3	QPSK	1	0	22.45	22.46	22.31	23.5
3	QPSK	1	8	22.41	22.42	22.33	
3	QPSK	1	14	22.42	22.40	22.14	
3	QPSK	8	0	21.66	21.79	21.77	22.5
3	QPSK	8	4	21.80	21.86	21.83	
3	QPSK	8	7	21.75	21.77	21.64	
3	QPSK	15	0	21.73	21.79	21.78	22.5
3	16QAM	1	0	21.75	21.86	21.93	
3	16QAM	1	8	21.68	21.94	21.78	
3	16QAM	1	14	21.73	21.99	21.74	22.5
3	16QAM	8	0	21.69	21.78	21.52	
3	16QAM	8	4	21.85	21.96	21.53	
3	16QAM	8	7	21.77	21.83	21.57	22.5
3	16QAM	15	0	21.71	21.73	21.28	
3	64QAM	1	0	21.66	21.54	21.75	
3	64QAM	1	8	21.54	21.78	21.54	22.5
3	64QAM	1	14	21.56	21.74	21.55	
3	64QAM	8	0	21.86	21.76	21.74	
3	64QAM	8	4	21.88	21.72	21.66	22.5
3	64QAM	8	7	21.83	21.75	21.72	
3	64QAM	15	0	21.72	21.82	21.62	
Channel				20407	20525	20643	23.5
Frequency (MHz)				824.7	836.5	848.3	
1.4	QPSK	1	0	22.46	22.43	22.47	23.5
1.4	QPSK	1	3	22.49	22.42	22.49	
1.4	QPSK	1	5	22.38	22.32	22.33	
1.4	QPSK	3	0	22.39	22.45	22.41	22.5
1.4	QPSK	3	1	22.45	22.32	22.42	
1.4	QPSK	3	3	22.46	22.38	22.38	
1.4	QPSK	6	0	21.71	21.70	21.69	22.5
1.4	16QAM	1	0	21.84	21.65	21.82	
1.4	16QAM	1	3	21.64	21.88	21.77	
1.4	16QAM	1	5	22.03	21.71	21.77	22.5
1.4	16QAM	3	0	21.56	21.54	21.68	
1.4	16QAM	3	1	21.59	21.86	21.72	
1.4	16QAM	3	3	21.67	21.78	21.66	22.5
1.4	16QAM	6	0	21.86	21.73	21.77	
1.4	64QAM	1	0	21.39	21.56	21.58	
1.4	64QAM	1	3	21.70	21.71	21.66	22.5
1.4	64QAM	1	5	21.65	21.64	21.52	
1.4	64QAM	3	0	21.31	21.58	21.59	
1.4	64QAM	3	1	21.59	21.53	21.54	22.5
1.4	64QAM	3	3	21.49	21.66	21.70	
1.4	64QAM	6	0	21.70	21.82	21.71	

Band 7 (2600MHz Band)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20850	21100	21350	21
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	20.10	20.11	20.03	21
20	QPSK	1	49	20.05	20.09	19.98	
20	QPSK	1	99	20.00	19.95	20.00	
20	QPSK	50	0	19.16	19.23	19.20	20
20	QPSK	50	24	18.92	18.89	18.79	
20	QPSK	50	50	19.02	19.05	19.02	
20	QPSK	100	0	18.97	18.99	18.96	20
20	16QAM	1	0	18.78	18.88	19.06	
20	16QAM	1	49	18.93	18.79	19.07	
20	16QAM	1	99	18.87	19.18	18.83	20
20	16QAM	50	0	18.72	18.82	18.75	
20	16QAM	50	24	18.77	18.69	18.80	
20	16QAM	50	50	18.85	18.90	18.73	20
20	16QAM	100	0	18.73	18.85	18.83	
20	64QAM	1	0	18.61	18.45	18.18	
20	64QAM	1	49	18.55	18.52	18.57	20
20	64QAM	1	99	18.53	18.58	18.49	
20	64QAM	50	0	18.47	18.48	18.53	
20	64QAM	50	24	18.52	18.53	18.53	20
20	64QAM	50	50	18.56	18.63	18.48	
20	64QAM	100	0	18.49	18.46	18.58	
Channel				20825	21100	21375	21
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	19.93	20.02	20.02	21
15	QPSK	1	37	20.03	20.00	20.04	
15	QPSK	1	74	19.97	20.04	20.04	
15	QPSK	36	0	18.75	18.84	18.86	20
15	QPSK	36	20	18.83	18.90	18.85	
15	QPSK	36	39	18.86	18.89	18.93	
15	QPSK	75	0	18.92	18.85	18.87	20
15	16QAM	1	0	19.28	19.39	19.46	
15	16QAM	1	37	19.10	19.21	19.19	
15	16QAM	1	74	19.14	19.14	19.36	20
15	16QAM	36	0	18.73	18.84	18.86	
15	16QAM	36	20	18.80	18.83	18.82	
15	16QAM	36	39	18.86	18.84	18.73	20
15	16QAM	75	0	18.81	18.89	18.81	
15	64QAM	1	0	18.71	18.68	18.56	
15	64QAM	1	37	18.61	18.76	18.85	20
15	64QAM	1	74	18.60	18.72	18.78	
15	64QAM	36	0	18.45	18.53	18.52	
15	64QAM	36	20	18.56	18.55	18.62	20
15	64QAM	36	39	18.60	18.51	18.53	
15	64QAM	75	0	18.45	18.55	18.50	
Channel				20800	21100	21400	21
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	19.92	19.79	19.82	21
10	QPSK	1	25	19.95	19.85	19.87	
10	QPSK	1	49	19.88	19.85	19.87	
10	QPSK	25	0	18.67	18.67	18.66	20
10	QPSK	25	12	18.63	18.75	18.80	
10	QPSK	25	25	18.56	18.74	18.74	
10	QPSK	50	0	18.65	18.77	18.76	20
10	16QAM	1	0	18.90	19.08	18.93	
10	16QAM	1	25	18.89	18.91	18.96	
10	16QAM	1	49	19.36	19.26	19.17	20
10	16QAM	25	0	18.79	18.67	18.75	
10	16QAM	25	12	18.61	18.78	18.71	
10	16QAM	25	25	18.66	18.69	18.61	20
10	16QAM	50	0	18.69	18.78	18.63	
10	64QAM	1	0	18.71	18.67	18.65	
10	64QAM	1	25	18.40	18.65	18.48	20

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	18.98	19.04	19.02	20
20	QPSK	1	49	18.83	18.82	18.78	
20	QPSK	1	99	18.76	18.75	18.78	
20	QPSK	50	0	18.21	18.28	18.24	19
20	QPSK	50	24	18.02	18.04	18.17	
20	QPSK	50	50	18.06	18.14	18.02	
20	QPSK	100	0	18.04	18.04	17.96	19
20	16QAM	1	0	18.09	17.85	18.13	
20	16QAM	1	49	18.14	17.88	17.94	
20	16QAM	1	99	18.14	18.32	18.11	19
20	16QAM	50	0	18.26	18.23	18.20	
20	16QAM	50	24	18.15	18.15	18.16	
20	16QAM	50	50	18.12	18.04	18.00	19
20	16QAM	100	0	18.08	18.11	18.17	
20	64QAM	1	0	18.24	18.01	18.34	
20	64QAM	1	49	18.01	18.34	18.33	19
20	64QAM	1	99	18.24	18.36	18.44	
20	64QAM	50	0	18.20	18.10	18.23	
20	64QAM	50	24	18.14	18.08	18.20	19
20	64QAM	50	50	18.16	18.04	18.10	
20	64QAM	100	0	18.15	18.15	18.13	
Channel				132047	132322	132597	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	18.84	18.88	18.86	20
15	QPSK	1	37	18.98	18.84	18.82	
15	QPSK	1	74	18.82	18.78	18.76	
15	QPSK	36	0	18.03	18.00	18.04	19
15	QPSK	36	20	18.03	17.95	18.05	
15	QPSK	36	39	17.89	17.94	17.91	
15	QPSK	75	0	17.98	18.02	17.95	19
15	16QAM	1	0	17.97	17.84	18.14	
15	16QAM	1	37	17.84	18.14	18.07	
15	16QAM	1	74	17.94	17.84	17.84	19
15	16QAM	36	0	18.15	18.15	18.06	
15	16QAM	36	20	18.18	18.17	18.23	
15	16QAM	36	39	18.10	18.25	18.19	19
15	16QAM	75	0	18.20	18.18	18.14	
15	64QAM	1	0	18.34	18.24	18.34	
15	64QAM	1	37	18.36	18.14	18.24	19
15	64QAM	1	74	18.01	18.27	18.34	
15	64QAM	36	0	18.13	18.12	18.25	
15	64QAM	36	20	18.23	18.19	18.20	19
15	64QAM	36	39	18.12	18.06	18.10	
15	64QAM	75	0	18.14	18.16	18.13	
Channel				132022	132322	132622	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	18.82	18.82	18.83	20
10	QPSK	1	25	18.72	18.70	18.78	
10	QPSK	1	49	18.86	18.74	18.64	
10	QPSK	25	0	18.29	18.22	18.29	19
10	QPSK	25	12	18.26	18.45	18.23	
10	QPSK	25	25	18.27	18.23	18.15	
10	QPSK	50	0	18.35	18.20	18.39	19
10	16QAM	1	0	18.27	18.27	18.47	
10	16QAM	1	25	18.27	18.36	18.48	
10	16QAM	1	49	18.10	18.30	18.18	19
10	16QAM	25	0	18.11	18.28	18.16	
10	16QAM	25	12	18.10	18.30	18.21	
10	16QAM	25	25	18.01	18.06	18.06	19
10	16QAM	50	0	18.17	18.21	18.22	
10	64QAM	1	0	18.17	18.17	17.84	
10	64QAM	1	25	17.84	17.97	17.87	19
10	64QAM	1	49	17.84	17.84	17.84	
10	64QAM	25	0	18.17	18.15	18.17	
10	64QAM	25	12	18.16	18.20	18.24	19
10	64QAM	25	25	18.16	18.09	18.11	
10	64QAM	50	0	18.06	18.16	18.17	
Channel				131997	132322	132647	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	18.71	18.74	18.79	20
5	QPSK	1	12	18.74	18.74	18.73	
5	QPSK	1	24	18.82	18.72	18.78	
5	QPSK	12	0	17.98	18.00	17.96	19
5	QPSK	12	7	18.00	18.08	18.01	
5	QPSK	12	13	17.91	17.97	17.98	
5	QPSK	25	0	18.01	18.02	18.01	19
5	16QAM	1	0	18.50	18.19	18.20	
5	16QAM	1	12	18.13	18.42	18.37	
5	16QAM	1	24	18.25	18.14	18.49	19
5	16QAM	12	0	18.14	18.25	18.21	
5	16QAM	12	7	18.31	18.23	18.35	
5	16QAM	12	13	18.22	18.16	18.23	19
5	16QAM	25	0	18.23	18.25	18.17	
5	64QAM	1	0	17.84	18.24	18.04	
5	64QAM	1	12	18.14	18.14	18.14	19
5	64QAM	1	24	17.97	18.01	17.97	
5	64QAM	12	0	18.21	17.96	18.17	
5	64QAM	12	7	18.29	17.88	18.19	19
5	64QAM	12	13	18.12	18.24	18.19	
5	64QAM	25	0	18.19	18.27	18.14	
Channel				131987	132322	132657	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	18.78	18.69	18.68	20
3	QPSK	1	8	18.65	18.66	18.74	
3	QPSK	1	14	18.56	18.37	18.67	
3	QPSK	8	0	18.24	18.21	18.25	19
3	QPSK	8	4	18.24	18.16	18.26	
3	QPSK	8	7	18.10	18.15	18.12	
3	QPSK	15	0	18.19	18.23	18.16	19
3	16QAM	1	0	17.88	18.29	18.05	
3	16QAM	1	8	18.21	18.15	18.14	
3	16QAM	1	14	18.25	18.14	17.84	

3	16QAM	8	0	18.06	18.06	17.97	19
3	16QAM	8	4	18.09	18.08	18.14	
3	16QAM	8	7	18.01	18.16	18.10	
3	16QAM	15	0	18.11	18.09	18.05	19
3	64QAM	1	0	18.25	18.15	18.25	
3	64QAM	1	8	18.27	18.05	18.15	
3	64QAM	1	14	17.92	18.18	18.25	19
3	64QAM	8	0	18.04	18.03	18.16	
3	64QAM	8	4	18.14	18.10	18.11	
3	64QAM	8	7	18.03	17.97	18.01	19
3	64QAM	15	0	18.05	18.07	18.04	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	18.72	18.63	18.64	20
1.4	QPSK	1	3	18.78	18.80	18.80	
1.4	QPSK	1	5	18.70	18.58	18.74	
1.4	QPSK	3	0	18.69	18.62	18.69	
1.4	QPSK	3	1	18.66	18.72	18.63	
1.4	QPSK	3	3	18.67	18.63	18.55	
1.4	QPSK	6	0	18.27	18.12	18.31	19
1.4	16QAM	1	0	18.19	18.19	18.39	19
1.4	16QAM	1	3	18.19	18.28	18.40	
1.4	16QAM	1	5	18.02	18.22	18.10	
1.4	16QAM	3	0	17.97	17.94	18.20	
1.4	16QAM	3	1	18.06	17.96	18.08	
1.4	16QAM	3	3	18.07	18.08	18.02	19
1.4	16QAM	6	0	17.96	17.87	17.88	
1.4	64QAM	1	0	18.30	18.15	18.31	19
1.4	64QAM	1	3	18.03	18.12	18.12	
1.4	64QAM	1	5	18.00	18.00	18.11	
1.4	64QAM	3	0	18.09	18.07	18.09	
1.4	64QAM	3	1	18.08	18.12	18.16	
1.4	64QAM	3	3	18.08	18.01	18.03	
1.4	64QAM	6	0	17.98	18.08	18.09	19

Band 40 (2.3G Band-1)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				38750			
Frequency (MHz)				2310			
10	QPSK	1	0		20.04		21
10	QPSK	1	25		19.95		
10	QPSK	1	49		19.93		
10	QPSK	25	0		19.34		20
10	QPSK	25	12		19.21		
10	QPSK	25	25		19.26		
10	QPSK	50	0		19.04		20
10	16QAM	1	0		19.13		
10	16QAM	1	25		19.11		
10	16QAM	1	49		19.15		20
10	16QAM	25	0		19.04		
10	16QAM	25	12		19.11		
10	16QAM	25	25		19.08		20
10	16QAM	50	0		19.15		
10	64QAM	1	0		19.22		
10	64QAM	1	25		19.01		20
10	64QAM	1	49		19.27		
10	64QAM	25	0		18.84		
10	64QAM	25	12		19.04		20
10	64QAM	25	25		19.11		
10	64QAM	50	0		19.04		
Channel				38725	38750	38775	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	QPSK	1	0	19.98	19.93	19.84	21
5	QPSK	1	12	19.89	19.88	19.99	
5	QPSK	1	24	19.95	19.97	19.81	
5	QPSK	12	0	19.14	19.07	19.19	20
5	QPSK	12	7	19.19	19.05	19.15	
5	QPSK	12	13	19.07	19.03	19.06	
5	QPSK	25	0	19.10	18.96	19.17	20
5	16QAM	1	0	19.14	19.11	19.19	
5	16QAM	1	12	19.30	19.21	19.28	
5	16QAM	1	24	19.22	19.11	19.10	20
5	16QAM	12	0	19.06	18.96	19.12	
5	16QAM	12	7	19.08	19.02	19.05	
5	16QAM	12	13	19.15	18.93	19.12	20
5	16QAM	25	0	19.12	19.04	19.07	
5	64QAM	1	0	19.24	19.27	19.02	
5	64QAM	1	12	19.25	18.65	18.61	20
5	64QAM	1	24	19.28	18.89	18.65	
5	64QAM	12	0	19.03	19.09	19.19	
5	64QAM	12	7	19.08	19.12	19.15	20
5	64QAM	12	13	19.12	19.07	19.09	
5	64QAM	25	0	19.13	19.09	19.12	

Band 40 (2.3G Band-2)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				39200			
Frequency (MHz)				2355			
10	QPSK	1	0		20.03		21
10	QPSK	1	25		19.94		
10	QPSK	1	49		19.90		
10	QPSK	25	0		19.24		20
10	QPSK	25	12		19.16		
10	QPSK	25	25		19.17		
10	QPSK	50	0		19.14		20
10	16QAM	1	0		19.24		
10	16QAM	1	25		19.15		
10	16QAM	1	49		19.07		20
10	16QAM	25	0		19.19		
10	16QAM	25	12		19.22		
10	16QAM	25	25		19.21		20
10	16QAM	50	0		19.18		
10	64QAM	1	0		19.27		
10	64QAM	1	25		19.20		20
10	64QAM	1	49		19.04		
10	64QAM	25	0		19.16		
10	64QAM	25	12		19.15		20
10	64QAM	25	25		19.12		
10	64QAM	50	0		19.01		
Channel				39175	39200	39225	Tune-up limit (dBm)
Frequency (MHz)				2352.5	2355	2357.5	
5	QPSK	1	0	19.91	19.86	19.95	21
5	QPSK	1	12	19.86	19.90	19.93	
5	QPSK	1	24	19.79	19.98	19.98	
5	QPSK	12	0	19.14	19.13	19.19	20
5	QPSK	12	7	19.16	19.17	19.19	
5	QPSK	12	13	19.14	19.17	19.17	
5	QPSK	25	0	19.09	19.07	19.23	20
5	16QAM	1	0	19.20	19.26	19.24	
5	16QAM	1	12	19.15	19.13	19.19	
5	16QAM	1	24	19.04	18.95	19.02	20
5	16QAM	12	0	19.12	19.08	19.25	
5	16QAM	12	7	19.04	19.17	19.25	
5	16QAM	12	13	19.10	19.11	19.07	20
5	16QAM	25	0	19.17	19.12	19.21	
5	64QAM	1	0	19.25	18.90	18.94	
5	64QAM	1	12	19.36	18.74	18.86	20
5	64QAM	1	24	19.37	18.92	18.61	
5	64QAM	12	0	19.03	19.06	19.14	
5	64QAM	12	7	18.99	19.00	19.07	20
5	64QAM	12	13	19.04	19.05	19.08	
5	64QAM	25	0	19.12	19.06	19.13	

Reduced Power Level 4

5GHz WLAN ANT 2							
5.3GHz WLAN ANT 2	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
	802.11a 6Mbps	CH 52	5260	13.86	15.00	14	91.10
		CH 60	5300	14.03	16.00	14	
		CH 64	5320	13.88	15.00	14	
	802.11n-HT20 MCS0	CH 52	5260	13.47	15.00	14	91.21
		CH 60	5300	13.10	15.00	14	
		CH 64	5320	13.37	15.00	14	
	802.11n-HT40 MCS0	CH 54	5270	14.02	16.00	14	88.77
		CH 62	5310	13.70	15.00	14	
	802.11ac-VHT20 MCS0	CH 52	5260	13.60	15.00	14	90.91
		CH 60	5300	13.64	15.00	14	
		CH 64	5320	13.57	15.00	14	
	802.11ac-VHT40 MCS0	CH 54	5270	13.37	15.00	14	80.00
		CH 62	5310	13.04	15.00	14	
	802.11ac-VHT80 MCS0	CH 58	5290	12.68	14.00	14	70.76

Reduced Power Level 5

Band		WCDMA Band II			Tune-up Limit (dBm)
TX Channel		9262	9400	9538	
Rx Channel		9662	9800	9938	
Frequency (MHz)		1852.4	1880	1907.6	
3GPP Rel 99	RMC 12.2Kbps	14.02	14.05	14.03	15.00
3GPP Rel 6	HSDPA Subtest-1	13.13	13.16	13.14	14.00
3GPP Rel 6	HSDPA Subtest-2	13.10	13.13	13.06	14.00
3GPP Rel 6	HSDPA Subtest-3	13.06	13.14	12.95	14.00
3GPP Rel 6	HSDPA Subtest-4	13.08	13.16	12.96	14.00
3GPP Rel 8	DC-HSDPA Subtest-1	13.18	13.14	13.29	14.00
3GPP Rel 8	DC-HSDPA Subtest-2	13.20	13.10	13.28	14.00
3GPP Rel 8	DC-HSDPA Subtest-3	13.28	13.25	13.30	14.00
3GPP Rel 8	DC-HSDPA Subtest-4	13.22	13.29	13.28	14.00
3GPP Rel 6	HSUPA Subtest-1	12.95	12.94	12.91	13.50
3GPP Rel 6	HSUPA Subtest-2	12.93	12.95	12.93	13.50
3GPP Rel 6	HSUPA Subtest-3	12.91	12.95	12.80	13.50
3GPP Rel 6	HSUPA Subtest-4	12.90	12.89	12.91	13.50
3GPP Rel 6	HSUPA Subtest-5	12.89	12.93	12.83	13.50
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	12.91	12.93	12.66	13.50
Attenuator			Cable Loss	0.8	
Mode			Max.	14.05	

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	17.00	17.07	17.04	18
20	QPSK	1	49	16.99	17.01	17.01	
20	QPSK	1	99	16.91	16.97	16.94	
20	QPSK	50	0	16.11	16.33	16.19	17
20	QPSK	50	24	16.04	16.11	16.07	
20	QPSK	50	50	16.08	16.13	16.07	
20	QPSK	100	0	15.96	16.07	16.10	17
20	16QAM	1	0	16.08	16.08	16.01	
20	16QAM	1	49	16.07	15.67	16.07	
20	16QAM	1	99	16.23	16.22	16.33	17
20	16QAM	50	0	16.08	16.22	15.83	
20	16QAM	50	24	16.19	16.01	15.92	
20	16QAM	50	50	16.18	15.82	15.86	17
20	16QAM	100	0	16.19	16.22	15.88	
20	64QAM	1	0	16.00	16.28	16.31	
20	64QAM	1	49	16.00	16.19	16.29	17
20	64QAM	1	99	16.02	16.29	16.33	
20	64QAM	50	0	16.01	16.00	15.89	
20	64QAM	50	24	16.03	15.99	15.98	17
20	64QAM	50	50	16.01	15.78	16.00	
20	64QAM	100	0	16.01	15.97	15.88	
Channel				37825	38000	38175	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	16.91	16.91	16.92	18
15	QPSK	1	37	16.92	16.84	16.95	
15	QPSK	1	74	16.73	16.95	16.92	
15	QPSK	36	0	16.04	16.29	16.33	17
15	QPSK	36	20	16.24	16.33	16.29	
15	QPSK	36	39	16.31	16.29	16.22	
15	QPSK	75	0	16.19	16.19	16.20	17
15	16QAM	1	0	16.27	16.29	16.19	
15	16QAM	1	37	16.29	16.33	16.01	
15	16QAM	1	74	16.30	16.20	16.00	17
15	16QAM	36	0	16.07	16.03	15.92	
15	16QAM	36	20	16.05	16.19	15.96	
15	16QAM	36	39	16.07	16.09	15.94	17
15	16QAM	75	0	16.03	15.98	15.92	
15	64QAM	1	0	16.14	16.03	16.19	
15	64QAM	1	37	16.02	16.03	16.01	17
15	64QAM	1	74	15.97	16.05	16.22	
15	64QAM	36	0	15.89	16.04	15.97	
15	64QAM	36	20	16.17	16.03	15.91	17
15	64QAM	36	39	16.01	16.01	16.02	
15	64QAM	75	0	16.19	16.01	16.05	
Channel				37800	38000	38200	Tune-up limit

Frequency (MHz)				2575	2595	2615	(dBm)
10	QPSK	1	0	16.94	16.95	16.95	18
10	QPSK	1	25	16.94	16.74	16.94	
10	QPSK	1	49	16.88	16.90	16.93	
10	QPSK	25	0	16.03	15.89	15.89	17
10	QPSK	25	12	16.26	16.22	15.93	
10	QPSK	25	25	16.27	16.29	15.89	
10	QPSK	50	0	16.25	16.17	15.89	
10	16QAM	1	0	16.11	15.88	16.19	17
10	16QAM	1	25	15.99	15.89	16.29	
10	16QAM	1	49	16.36	15.92	16.01	
10	16QAM	25	0	15.89	16.00	15.96	17
10	16QAM	25	12	16.19	15.89	16.02	
10	16QAM	25	25	15.89	16.03	16.08	
10	16QAM	50	0	16.01	16.05	15.97	
10	64QAM	1	0	16.01	16.04	15.97	17
10	64QAM	1	25	15.92	16.17	16.07	
10	64QAM	1	49	16.28	16.02	16.07	
10	64QAM	25	0	15.87	15.87	15.97	17
10	64QAM	25	12	15.87	16.07	16.08	
10	64QAM	25	25	15.83	16.03	15.99	
10	64QAM	50	0	15.89	16.05	15.95	
Channel				37775	38000	38225	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	16.80	16.90	16.74	18
5	QPSK	1	12	16.74	16.95	16.93	
5	QPSK	1	24	16.74	16.73	16.72	
5	QPSK	12	0	16.16	16.64	16.23	17
5	QPSK	12	7	16.30	16.29	16.29	
5	QPSK	12	13	16.18	16.20	16.22	
5	QPSK	25	0	16.22	16.23	15.89	
5	16QAM	1	0	16.40	16.51	16.41	17
5	16QAM	1	12	16.01	16.19	15.89	
5	16QAM	1	24	16.01	16.02	16.01	
5	16QAM	12	0	16.02	16.07	16.01	17
5	16QAM	12	7	16.01	16.03	16.01	
5	16QAM	12	13	15.92	16.04	16.01	
5	16QAM	25	0	16.19	15.91	16.09	
5	64QAM	1	0	15.95	16.28	15.89	17
5	64QAM	1	12	16.22	16.22	16.29	
5	64QAM	1	24	16.22	16.22	16.19	
5	64QAM	12	0	15.93	16.05	16.01	17
5	64QAM	12	7	16.02	16.03	15.94	
5	64QAM	12	13	16.01	16.04	15.91	
5	64QAM	25	0	16.05	16.07	15.98	

Reduced Power Level 6

2.4GHz WLAN ANT 2

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
2.4GHz WLAN ANT 2	802.11b 1Mbps	CH 1	2412	14.65	16.00	14	98.78
		CH 6	2437	13.67	15.00	14	
		CH 11	2462	13.43	15.00	14	
	802.11g 6Mbps	CH 1	2412	14.05	16.00	13	91.13
		CH 6	2437	13.06	15.00	13	
		CH 11	2462	12.71	14.00	13	
	802.11n-HT20 MCS0	CH 1	2412	14.23	16.00	13	90.76
		CH 6	2437	13.62	15.00	13	
		CH 11	2462	13.25	15.00	13	
	802.11n-HT40 MCS0	CH 3	2422	12.45	14.00	13	79.85
		CH 6	2437	12.54	14.00	13	
		CH 9	2452	13.49	15.00	13	

5GHz WLAN ANT 2

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
5.2GHz WLAN ANT 2	802.11a 6Mbps	CH 36	5180	11.31	13.00	12	91.10
		CH 44	5220	11.35	13.00	12	
		CH 48	5240	11.76	13.00	12	
	802.11n-HT20 MCS0	CH 36	5180	10.30	12.00	12	91.21
		CH 44	5220	10.73	12.00	12	
		CH 48	5240	11.48	13.00	12	
	802.11n-HT40 MCS0	CH 38	5190	11.27	13.00	12	88.77
		CH 46	5230	11.74	13.00	12	
	802.11ac-VHT20 MCS0	CH 36	5180	11.15	13.00	12	90.91
		CH 44	5220	11.21	13.00	12	
		CH 48	5240	11.62	13.00	12	
	802.11ac-VHT40 MCS0	CH 38	5190	10.88	12.00	12	80.00
		CH 46	5230	11.14	13.00	12	
	802.11ac-VHT80 MCS0	CH 42	5210	10.62	12.00	12	70.76

5GHz WLAN ANT 2

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
5.3GHz WLAN ANT 2	802.11a 6Mbps	CH 52	5260	9.86	11.00	10	91.10
		CH 60	5300	10.03	12.00	10	
		CH 64	5320	9.88	11.00	10	
	802.11n-HT20 MCS0	CH 52	5260	9.47	11.00	10	91.21
		CH 60	5300	9.10	11.00	10	
		CH 64	5320	9.37	11.00	10	
	802.11n-HT40 MCS0	CH 54	5270	10.02	12.00	10	88.77
		CH 62	5310	9.70	11.00	10	
	802.11ac-VHT20 MCS0	CH 52	5260	9.60	11.00	10	90.91
		CH 60	5300	9.64	11.00	10	
		CH 64	5320	9.57	11.00	10	
	802.11ac-VHT40 MCS0	CH 54	5270	9.37	11.00	10	80.00
		CH 62	5310	9.04	11.00	10	
	802.11ac-VHT80 MCS0	CH 58	5290	8.68	10.00	10	70.76

5GHz WLAN ANT 2

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
5.5GHz WLAN ANT 2	802.11a 6Mbps	CH 100	5500	10.89	12.50	12	91.10
		CH 120	5600	11.59	13.00	12	
		CH 140	5700	11.20	13.00	12	
	802.11n-HT20 MCS0	CH 100	5500	10.48	12.00	12	91.21
		CH 120	5600	10.67	12.00	12	
		CH 140	5700	10.42	12.00	12	
	802.11n-HT40 MCS0	CH 102	5510	10.86	12.50	12	88.77
		CH 126	5630	11.83	13.50	12	
		CH 134	5670	11.21	13.00	12	
		CH 100	5500	10.64	12.00	12	

	802.11ac-VHT20 MCS0	CH 120	5600	11.20	13.00	12	90.91
		CH 140	5700	10.95	12.50	12	
	802.11ac-VHT40 MCS0	CH 102	5510	10.16	12.00	12	80.00
		CH 126	5630	10.95	12.50	12	
		CH 134	5670	10.51	12.00	12	
	802.11ac-VHT80 MCS0	CH 106	5530	10.17	12.00	12	70.76
		CH 122	5610	10.41	12.00	12	
		CH 138	5690	9.99	11.50	12	

5GHz WLAN ANT 2

5.8GHz WLAN ANT 2	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
	802.11a MCS0	CH 149	5745	10.24	12.00	12	91.10
		CH 157	5785	11.08	13.00	12	
		CH 165	5825	11.13	13.00	12	
	802.11n-HT20 MCS0	CH 149	5745	10.30	12.00	12	91.21
		CH 157	5785	10.36	12.00	12	
		CH 165	5825	10.44	12.00	12	
	802.11n-HT40 MCS0	CH 151	5755	11.17	13.00	12	88.77
		CH 159	5795	10.82	12.00	12	
	802.11ac-VHT20 MCS0	CH 149	5745	10.79	12.00	12	90.91
		CH 157	5785	10.75	12.00	12	
		CH 165	5825	10.94	12.50	12	
	802.11ac-VHT40 MCS0	CH 151	5755	10.52	12.00	12	80.00
		CH 159	5795	10.24	12.00	12	
	802.11ac-VHT80 MCS0	CH 155	5775	10.17	12.00	12	70.76

Reduced Power Level 7

5GHz WLAN ANT 2

5.2GHz WLAN ANT 2	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
	802.11a 6Mbps	CH 36	5180	13.31	15.00	14	91.10
		CH 44	5220	13.35	15.00	14	
		CH 48	5240	13.76	15.00	14	
	802.11n-HT20 MCS0	CH 36	5180	12.30	14.00	14	91.21
		CH 44	5220	12.73	14.00	14	
		CH 48	5240	13.48	15.00	14	
	802.11n-HT40 MCS0	CH 38	5190	13.27	15.00	14	88.77
		CH 46	5230	13.74	15.00	14	
	802.11ac-VHT20 MCS0	CH 36	5180	13.15	15.00	14	90.91
		CH 44	5220	13.21	15.00	14	
		CH 48	5240	13.62	15.00	14	
	802.11ac-VHT40 MCS0	CH 38	5190	12.88	14.00	14	80.00
		CH 46	5230	13.14	15.00	14	70.76
	802.11ac-VHT80 MCS0	CH 42	5210	12.62	14.00	14	

5GHz WLAN ANT 2

5.3GHz WLAN ANT 2	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
	802.11a 6Mbps	CH 52	5260	11.86	13.00	12	91.10
		CH 60	5300	12.03	14.00	12	
		CH 64	5320	11.88	13.00	12	
	802.11n-HT20 MCS0	CH 52	5260	11.47	13.00	12	91.21
		CH 60	5300	11.10	13.00	12	
		CH 64	5320	11.37	13.00	12	
	802.11n-HT40 MCS0	CH 54	5270	12.02	14.00	12	88.77
		CH 62	5310	11.70	13.00	12	
	802.11ac-VHT20 MCS0	CH 52	5260	11.60	13.00	12	90.91
		CH 60	5300	11.64	13.00	12	
		CH 64	5320	11.57	13.00	12	
	802.11ac-VHT40 MCS0	CH 54	5270	11.37	13.00	12	80.00
		CH 62	5310	11.04	13.00	12	70.76
	802.11ac-VHT80 MCS0	CH 58	5290	10.68	12.00	12	

5GHz WLAN ANT 2

5.5GHz WLAN ANT 2	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
	802.11a 6Mbps	CH 100	5500	12.89	14.50	14	91.10
		CH 120	5600	13.59	15.00	14	
		CH 140	5700	13.20	15.00	14	
	802.11n-HT20 MCS0	CH 100	5500	12.48	14.00	14	91.21
		CH 120	5600	12.67	14.00	14	
		CH 140	5700	12.42	14.00	14	
	802.11n-HT40 MCS0	CH 102	5510	12.86	14.50	14	88.77
		CH 126	5630	13.83	15.50	14	
		CH 134	5670	13.21	15.00	14	
	802.11ac-VHT20 MCS0	CH 100	5500	12.64	14.00	14	90.91
		CH 120	5600	13.20	15.00	14	

		CH 140	5700	12.95	14.50	14	80.00
	802.11ac-VHT40 MCS0	CH 102	5510	12.16	14.00	14	
		CH 126	5630	12.95	14.50	14	
		CH 134	5670	12.51	14.00	14	
	802.11ac-VHT80 MCS0	CH 106	5530	12.17	14.00	14	70.76
		CH 122	5610	12.41	14.00	14	
		CH 138	5690	11.99	13.50	14	

5GHz WLAN ANT 2

5.8GHz WLAN ANT 2	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
	802.11a MCS0	CH 149	5745	12.24	14.00	14	91.10
		CH 157	5785	13.08	15.00	14	
		CH 165	5825	13.13	15.00	14	
	802.11n-HT20 MCS0	CH 149	5745	12.30	14.00	14	91.21
		CH 157	5785	12.36	14.00	14	
		CH 165	5825	12.44	14.00	14	
	802.11n-HT40 MCS0	CH 151	5755	13.17	15.00	14	88.77
		CH 159	5795	12.82	14.00	14	
	802.11ac-VHT20 MCS0	CH 149	5745	12.79	14.00	14	90.91
		CH 157	5785	12.75	14.00	14	
		CH 165	5825	12.94	14.50	14	
	802.11ac-VHT40 MCS0	CH 151	5755	12.52	14.00	14	80.00
		CH 159	5795	12.24	14.00	14	
	802.11ac-VHT80 MCS0	CH 155	5775	12.17	14.00	14	70.76