Annex E Conducted Power

Note:

Conducted power unit: dBm

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

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	32.10	31.93	31.90	33.00	23.10	22.93	22.90	24.00	0.24
GPRS 1 Tx slot	32.14	31.96	31.93	33.00	23.14	22.96	22.93	24.00	
GPRS 2 Tx slots	28.90	28.95	28.92	30.00	22.90	22.95	22.92	24.00	0.05
GPRS 3 Tx slots	26.64	26.48	26.46	27.50	22.38	22.22	22.20	23.24	0.18
GPRS 4 Tx slots	24.44	24.31	24.27	25.50	21.44	21.31	21.27	22.50	0.17
EDGE 1 Tx slot	26.58	26.48	26.44	27.00	17.58	17.48	17.44	18.00	0.14
EDGE 2 Tx slots	24.55	24.46	24.41	24.50	18.55	18.46	18.41	18.50	0.14
EDGE 3 Tx slots	21.71	21.60	21.67	22.00	17.45	17.34	17.41	17.74	0.11
EDGE 4 Tx slots	20.12	20.01	20.08	21.00	17.12	17.01	17.08	18.00	0.11
Mode		Max.	32.14			Max.	23.14		
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	29.52	29.55	29.47	30.00	20.52	20.55	20.47	21.00	0.10
GPRS 1 Tx slot	29.54	29.57	29.49	30.00	20.54	20.57	20.49	21.00	
GPRS 2 Tx slots	28.04	28.05	27.98	28.50	22.04	22.05	21.98	22.50	0.07
GPRS 3 Tx slots	25.87	25.94	25.81	27.00	21.61	21.68	21.55	22.74	0.13
GPRS 4 Tx slots	24.63	24.68	24.57	25.50	21.63	21.68	21.57	22.50	0.11
EDGE 1 Tx slot	25.62	25.53	25.40	26.50	16.62	16.53	16.40	17.50	0.22
EDGE 2 Tx slots	23.68	23.54	23.38	24.00	17.68	17.54	17.38	18.00	0.30
EDGE 3 Tx slots	22.28	22.21	22.02	23.50	18.02	17.95	17.76	19.24	0.26
EDGE 4 Tx slots	21.04	21.01	20.95	22.50	18.04	18.01	17.95	19.50	0.09
Mode		Max.	29.57			Max.	22.05		
Attenuator	Cable Loss : 0.8								

Band		WCDMA Band II (dBm)			Tune-up Limit (dBm)	WCDMA Band IV (dBm)			Tune-up Limit (dBm)	WCDMA Band V (dBm)			Tune-up Limit (dBm)
TX Channel		9262	9400	9538		1312	1413	1513		4132	4182	4233	
Rx Channel		9662	9800	9938		1537	1638	1738		4357	4407	4458	
Frequency (MHz)		1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6	
3GPP Rel 99	RMC 12.2Kbps	23.02	22.94	22.98	23.70	22.93	23.00	22.97	23.70	22.52	22.54	22.48	23.70
3GPP Rel 5	HSDPA Subtest-1	21.80	21.67	21.71	22.50	21.64	21.76	21.70	22.50	21.67	21.57	21.58	22.50
3GPP Rel 5	HSDPA Subtest-2	21.74	21.58	21.60	22.50	21.91	21.82	21.65	22.50	21.84	21.69	21.71	22.50
3GPP Rel 5	HSDPA Subtest-3	21.25	21.06	20.96	22.00	21.12	21.18	21.01	22.00	21.34	21.19	21.25	22.00
3GPP Rel 5	HSDPA Subtest-4	21.22	21.05	21.01	22.00	21.14	21.22	21.00	22.00	21.28	21.24	21.22	22.00
3GPP Rel 8	DC-HSDPA Subtest-1	21.63	21.54	21.55	22.50	21.35	21.55	21.55	22.50	21.52	21.46	21.39	22.50
3GPP Rel 8	DC-HSDPA Subtest-2	21.61	21.56	21.61	22.50	21.41	21.62	21.55	22.50	21.53	21.45	21.34	22.50
3GPP Rel 8	DC-HSDPA Subtest-3	21.16	21.09	21.11	22.00	21.00	21.02	21.13	22.00	21.04	20.92	20.83	22.00
3GPP Rel 8	DC-HSDPA Subtest-4	21.17	21.06	21.10	22.00	21.10	21.09	21.02	22.00	21.03	20.92	20.87	22.00
3GPP Rel 6	HSUPA Subtest-1	21.87	21.66	21.49	22.50	21.59	21.77	21.44	22.50	21.42	21.43	21.59	22.50
3GPP Rel 6	HSUPA Subtest-2	21.35	21.19	21.18	22.50	21.22	21.46	21.45	22.50	20.87	21.07	20.94	22.00
3GPP Rel 6	HSUPA Subtest-3	21.77	21.68	21.36	22.50	21.65	21.87	21.60	22.50	21.57	21.34	21.51	22.50
3GPP Rel 6	HSUPA Subtest-4	21.80	21.65	21.74	22.50	21.64	21.65	21.64	22.50	21.33	21.33	21.32	22.50
3GPP Rel 6	HSUPA Subtest-5	21.85	21.64	21.55	22.50	21.57	21.54	21.39	22.50	21.58	21.28	21.35	22.50
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	21.93	21.83	21.48	22.50	21.65	21.63	21.46	22.50	21.64	21.57	21.32	22.50
Attenuator			Cable Loss	0.8			Cable Loss	0.8			Cable Loss	0.6	
Mode			Max.	23.02			Max.	23.00			Max.	22.54	

Band 2 (1900MHz Band) (dBm)
Part 24E

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				18700	18900	19100	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	22.93	23.18	23.02	24
20	QPSK	1	49	22.91	22.98	22.79	
20	QPSK	1	99	22.75	22.91	22.77	
20	QPSK	50	0	22.02	22.05	22.03	23
20	QPSK	50	24	22.00	22.04	21.91	
20	QPSK	50	50	21.96	22.01	21.96	
20	QPSK	100	0	21.93	22.03	21.90	
20	16QAM	1	0	22.19	22.28	22.12	23
20	16QAM	1	49	22.13	22.19	22.18	
20	16QAM	1	99	22.02	22.04	21.96	
20	16QAM	50	0	21.04	21.12	21.07	22
20	16QAM	50	24	21.01	21.10	21.05	
20	16QAM	50	50	20.88	20.95	20.87	
20	16QAM	100	0	20.99	21.11	20.96	
20	64QAM	1	0	22.04	22.16	22.05	23
20	64QAM	1	49	21.89	22.08	21.97	
20	64QAM	1	99	21.99	22.00	21.85	
20	64QAM	50	0	21.00	21.09	20.97	22
20	64QAM	50	24	20.97	21.07	20.90	
20	64QAM	50	50	20.75	20.95	20.91	
20	64QAM	100	0	20.83	21.02	20.85	
Channel				18675	18900	19125	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	23.21	23.34	23.31	24
15	QPSK	1	37	23.24	23.30	23.12	
15	QPSK	1	74	23.05	23.26	23.06	
15	QPSK	36	0	22.30	22.36	22.34	23
15	QPSK	36	20	22.29	22.41	22.27	
15	QPSK	36	39	22.33	22.34	22.26	
15	QPSK	75	0	22.28	22.36	22.23	
15	16QAM	1	0	22.26	22.34	22.21	23
15	16QAM	1	37	22.23	22.31	22.29	
15	16QAM	1	74	22.15	22.15	22.03	
15	16QAM	36	0	21.10	21.26	21.20	22
15	16QAM	36	20	21.11	21.25	21.11	
15	16QAM	36	39	20.99	21.05	20.97	
15	16QAM	75	0	21.06	21.18	21.07	
15	64QAM	1	0	22.10	22.29	22.19	23
15	64QAM	1	37	22.00	22.22	22.09	
15	64QAM	1	74	22.13	22.08	21.99	
15	64QAM	36	0	21.09	21.18	21.06	22
15	64QAM	36	20	21.07	21.16	20.98	
15	64QAM	36	39	20.85	21.06	20.98	
15	64QAM	75	0	20.94	21.10	20.96	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	23.30	23.35	23.32	24
10	QPSK	1	25	23.20	23.29	23.11	
10	QPSK	1	49	23.05	23.22	23.13	
10	QPSK	25	0	22.30	22.35	22.33	23
10	QPSK	25	12	22.30	22.41	22.26	
10	QPSK	25	25	22.25	22.30	22.26	
10	QPSK	50	0	22.29	22.37	22.22	
10	16QAM	1	0	22.29	22.38	22.41	23
10	16QAM	1	25	22.41	22.48	22.50	
10	16QAM	1	49	22.38	22.37	22.32	
10	16QAM	25	0	21.39	21.46	21.36	22
10	16QAM	25	12	21.33	21.46	21.34	
10	16QAM	25	25	21.20	21.23	21.15	
10	16QAM	50	0	21.36	21.46	21.31	
10	64QAM	1	0	22.36	22.47	22.35	23
10	64QAM	1	25	22.24	22.36	22.31	
10	64QAM	1	49	22.34	22.37	22.15	
10	64QAM	25	0	21.30	21.41	21.34	22
10	64QAM	25	12	21.34	21.38	21.21	
10	64QAM	25	25	21.08	21.28	21.19	
10	64QAM	50	0	21.12	21.34	21.21	
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	23.23	23.42	23.33	24
5	QPSK	1	12	23.21	23.32	23.09	
5	QPSK	1	24	23.11	23.26	23.12	
5	QPSK	12	0	22.34	22.34	22.40	23
5	QPSK	12	7	22.32	22.34	22.23	
5	QPSK	12	13	22.30	22.35	22.26	
5	QPSK	25	0	22.23	22.35	22.20	
5	16QAM	1	0	22.32	22.36	22.48	23
5	16QAM	1	12	22.21	22.33	22.48	
5	16QAM	1	24	22.17	22.13	22.26	
5	16QAM	12	0	21.17	21.21	21.40	22
5	16QAM	12	7	21.10	21.22	21.39	
5	16QAM	12	13	20.97	21.02	21.21	
5	16QAM	25	0	21.10	21.24	21.28	
5	64QAM	1	0	22.19	22.31	22.38	23
5	64QAM	1	12	22.23	22.38	22.28	
5	64QAM	1	24	22.30	22.35	22.20	
5	64QAM	12	0	21.30	21.43	21.28	22
5	64QAM	12	7	21.30	21.38	21.25	
5	64QAM	12	13	21.06	21.28	21.19	
5	64QAM	25	0	21.14	21.34	21.19	
Channel				18615	18900	19185	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	23.27	23.35	23.38	24
3	QPSK	1	8	23.20	23.31	23.10	
3	QPSK	1	14	23.06	23.25	23.12	
3	QPSK	8	0	22.36	22.38	22.35	23
3	QPSK	8	4	22.36	22.40	22.21	
3	QPSK	8	7	22.24	22.38	22.26	

Band 4 (AWS Band) (dBm)
Part 27L (only on channel required)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20050	20175	20300	
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	23.18	23.22	23.14	24
20	QPSK	1	49	23.02	23.10	23.03	
20	QPSK	1	99	23.07	23.14	23.05	
20	QPSK	50	0	22.10	22.12	22.09	23
20	QPSK	50	24	22.09	22.10	22.00	
20	QPSK	50	50	22.00	22.05	21.95	
20	QPSK	100	0	22.02	22.07	22.04	
20	16QAM	1	0	22.19	22.25	22.24	23
20	16QAM	1	49	22.14	22.21	22.16	
20	16QAM	1	99	22.15	22.18	22.16	
20	16QAM	50	0	20.92	21.01	20.96	22
20	16QAM	50	24	20.96	21.05	20.95	
20	16QAM	50	50	20.99	21.07	20.99	
20	16QAM	100	0	21.01	21.04	21.02	
20	64QAM	1	0	22.26	22.28	22.22	23
20	64QAM	1	49	22.20	22.22	22.16	
20	64QAM	1	99	22.25	22.26	22.22	
20	64QAM	50	0	20.94	21.02	21.00	22
20	64QAM	50	24	20.90	21.00	20.96	
20	64QAM	50	50	21.02	21.06	20.96	
20	64QAM	100	0	21.04	21.12	21.05	
Channel				20025	20175	20325	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	23.16	23.15	23.07	24
15	QPSK	1	37	22.95	23.02	22.94	
15	QPSK	1	74	23.02	23.04	23.02	
15	QPSK	36	0	22.08	22.09	22.00	23
15	QPSK	36	20	22.02	22.07	21.94	
15	QPSK	36	39	21.95	22.01	21.85	
15	QPSK	75	0	21.95	22.04	22.00	
15	16QAM	1	0	22.17	22.20	22.15	23
15	16QAM	1	37	22.07	22.15	22.07	
15	16QAM	1	74	22.10	22.11	22.14	
15	16QAM	36	0	20.87	20.99	20.89	22
15	16QAM	36	20	20.89	20.97	20.91	
15	16QAM	36	39	20.96	20.97	20.95	
15	16QAM	75	0	20.99	20.97	21.00	
15	64QAM	1	0	22.22	22.25	22.17	23
15	64QAM	1	37	22.10	22.18	22.12	
15	64QAM	1	74	22.21	22.25	22.14	
15	64QAM	36	0	20.91	20.94	20.94	22
15	64QAM	36	20	20.84	20.97	20.86	
15	64QAM	36	39	20.97	20.96	20.92	
15	64QAM	75	0	20.95	21.04	20.99	
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	23.13	23.18	23.11	24
10	QPSK	1	25	22.94	23.04	22.93	
10	QPSK	1	49	22.98	23.05	23.04	
10	QPSK	25	0	22.07	22.04	22.01	23
10	QPSK	25	12	21.99	22.07	21.94	
10	QPSK	25	25	21.90	22.03	21.89	
10	QPSK	50	0	21.96	21.97	22.03	
10	16QAM	1	0	22.15	22.16	22.19	23
10	16QAM	1	25	22.05	22.17	22.15	
10	16QAM	1	49	22.10	22.09	22.09	
10	16QAM	25	0	20.83	21.00	20.89	22
10	16QAM	25	12	20.91	20.95	20.89	
10	16QAM	25	25	20.89	21.04	20.92	
10	16QAM	50	0	20.99	21.01	20.94	
10	64QAM	1	0	22.19	22.21	22.21	23
10	64QAM	1	25	22.11	22.12	22.10	
10	64QAM	1	49	22.24	22.18	22.18	
10	64QAM	25	0	20.86	20.99	20.93	22
10	64QAM	25	12	20.87	20.92	20.89	
10	64QAM	25	25	20.97	20.99	20.87	
10	64QAM	50	0	20.96	21.05	20.98	
Channel				19975	20175	20375	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	23.11	23.12	23.06	24
5	QPSK	1	12	22.99	23.09	23.01	
5	QPSK	1	24	22.99	23.10	22.99	
5	QPSK	12	0	22.02	22.10	22.02	23
5	QPSK	12	7	22.04	22.05	21.96	
5	QPSK	12	13	21.91	21.97	21.88	
5	QPSK	25	0	21.93	22.00	22.01	
5	16QAM	1	0	22.09	22.16	22.22	23
5	16QAM	1	12	22.06	22.12	22.10	
5	16QAM	1	24	22.07	22.08	22.11	
5	16QAM	12	0	20.86	20.91	20.89	22
5	16QAM	12	7	20.87	21.01	20.91	
5	16QAM	12	13	20.92	21.05	20.89	
5	16QAM	25	0	20.99	20.96	20.93	
5	64QAM	1	0	22.22	22.27	22.13	23
5	64QAM	1	12	22.12	22.14	22.07	
5	64QAM	1	24	22.19	22.24	22.20	
5	64QAM	12	0	20.89	20.98	20.98	22
5	64QAM	12	7	20.84	20.96	20.91	
5	64QAM	12	13	20.96	21.04	20.89	
5	64QAM	25	0	21.00	21.02	20.97	
Channel				19965	20175	20385	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1732.5	1753.5	
3	QPSK	1	0	23.13	23.12	23.07	24
3	QPSK	1	8	22.99	23.01	22.95	
3	QPSK	1	14	23.05	23.05	22.97	
3	QPSK	8	0	22.09	22.07	22.05	23
3	QPSK	8	4	22.08	22.03	21.99	
3	QPSK	8	7	21.92	22.02	21.87	

3	QPSK	15	0	22.28	22.37	22.27	
3	16QAM	1	0	22.29	22.36	22.21	23
3	16QAM	1	8	22.28	22.26	22.32	
3	16QAM	1	14	22.30	22.35	22.32	
3	16QAM	8	0	21.32	21.43	21.40	22
3	16QAM	8	4	21.35	21.39	21.34	
3	16QAM	8	7	21.22	21.26	21.24	
3	16QAM	15	0	21.27	21.44	21.31	
3	64QAM	1	0	22.41	22.45	22.33	23
3	64QAM	1	8	22.17	22.44	22.29	
3	64QAM	1	14	22.35	22.31	22.13	
3	64QAM	8	0	21.37	21.39	21.27	22
3	64QAM	8	4	21.30	21.44	21.22	
3	64QAM	8	7	21.08	21.25	21.22	
3	64QAM	15	0	21.19	21.38	21.20	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	23.24	23.34	23.30	24
1.4	QPSK	1	3	23.28	23.33	23.11	
1.4	QPSK	1	5	23.09	23.27	23.11	
1.4	QPSK	3	0	23.34	23.40	23.34	
1.4	QPSK	3	1	23.36	23.41	23.19	
1.4	QPSK	3	3	23.31	23.29	23.25	
1.4	QPSK	6	0	22.25	22.36	22.22	23
1.4	16QAM	1	0	22.34	22.43	22.44	23
1.4	16QAM	1	3	22.25	22.34	22.49	
1.4	16QAM	1	5	22.35	22.33	22.25	
1.4	16QAM	3	0	22.39	22.46	22.44	
1.4	16QAM	3	1	22.30	22.40	22.37	
1.4	16QAM	3	3	22.25	22.31	22.20	
1.4	16QAM	6	0	21.35	21.45	21.30	22
1.4	64QAM	1	0	22.41	22.46	22.34	23
1.4	64QAM	1	3	22.18	22.44	22.26	
1.4	64QAM	1	5	22.32	22.28	22.14	
1.4	64QAM	3	0	22.31	22.39	22.33	
1.4	64QAM	3	1	22.31	22.38	22.18	
1.4	64QAM	3	3	22.04	22.32	22.23	
1.4	64QAM	6	0	21.14	21.38	21.18	22

3	QPSK	15	0	21.98	22.06	22.00	
3	16QAM	1	0	22.15	22.19	22.18	23
3	16QAM	1	8	22.05	22.16	22.07	
3	16QAM	1	14	22.11	22.10	22.07	
3	16QAM	8	0	20.91	20.95	20.94	22
3	16QAM	8	4	20.94	21.03	20.94	
3	16QAM	8	7	20.96	21.04	20.91	
3	16QAM	15	0	20.94	21.01	21.01	
3	64QAM	1	0	22.17	22.24	22.13	23
3	64QAM	1	8	22.12	22.12	22.12	
3	64QAM	1	14	22.23	22.22	22.15	
3	64QAM	8	0	20.92	20.95	20.94	22
3	64QAM	8	4	20.89	20.94	20.92	
3	64QAM	8	7	21.00	21.03	20.87	
3	64QAM	15	0	21.01	21.10	21.00	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	23.08	23.14	23.12	24
1.4	QPSK	1	3	22.94	23.09	22.93	
1.4	QPSK	1	5	23.01	23.11	22.96	
1.4	QPSK	3	0	23.02	23.03	23.03	
1.4	QPSK	3	1	23.01	23.09	22.91	
1.4	QPSK	3	3	22.92	23.02	22.87	
1.4	QPSK	6	0	21.97	22.00	22.01	23
1.4	16QAM	1	0	22.12	22.15	22.20	23
1.4	16QAM	1	3	22.12	22.14	22.07	
1.4	16QAM	1	5	22.09	22.14	22.11	
1.4	16QAM	3	0	21.87	21.94	21.88	
1.4	16QAM	3	1	21.92	22.01	21.90	
1.4	16QAM	3	3	21.92	22.06	21.97	
1.4	16QAM	6	0	20.94	20.98	20.92	22
1.4	64QAM	1	0	22.21	22.25	22.16	23
1.4	64QAM	1	3	22.15	22.18	22.12	
1.4	64QAM	1	5	22.19	22.19	22.16	
1.4	64QAM	3	0	21.84	21.95	21.90	
1.4	64QAM	3	1	21.82	21.92	21.86	
1.4	64QAM	3	3	21.99	22.00	21.91	
1.4	64QAM	6	0	21.02	21.11	20.98	22

Band 5 (Celluar Band) (dBm)
Part 22H(only on channel required)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20450	20525	20600	
Frequency (MHz)				829	836.5	844	
10	QPSK	1	0	23.08	23.13	23.10	24
10	QPSK	1	25	22.99	23.04	22.94	
10	QPSK	1	49	23.05	23.11	23.07	
10	QPSK	25	0	21.99	22.05	22.01	23
10	QPSK	25	12	21.85	21.97	21.90	
10	QPSK	25	25	21.89	22.01	21.87	
10	QPSK	50	0	21.94	22.00	21.92	
10	16QAM	1	0	22.22	22.28	22.20	23
10	16QAM	1	25	22.17	22.25	22.20	
10	16QAM	1	49	22.20	22.21	22.15	
10	16QAM	25	0	21.01	21.08	21.01	22
10	16QAM	25	12	20.91	20.99	20.90	
10	16QAM	25	25	20.96	21.01	20.98	
10	16QAM	50	0	20.94	21.04	20.94	
10	64QAM	1	0	22.07	22.09	21.99	23
10	64QAM	1	25	21.95	22.05	21.97	
10	64QAM	1	49	22.00	22.01	21.97	
10	64QAM	25	0	20.94	20.99	20.92	22
10	64QAM	25	12	20.92	20.96	20.86	
10	64QAM	25	25	20.91	20.95	20.91	
10	64QAM	50	0	20.90	20.92	20.85	
Channel				20425	20525	20625	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	QPSK	1	0	23.01	23.11	23.05	24
5	QPSK	1	12	22.93	23.01	22.92	
5	QPSK	1	24	23.02	23.06	23.03	
5	QPSK	12	0	21.94	21.97	21.99	23
5	QPSK	12	7	21.79	21.96	21.83	
5	QPSK	12	13	21.79	21.92	21.81	
5	QPSK	25	0	21.86	21.97	21.84	
5	16QAM	1	0	22.13	22.26	22.18	23
5	16QAM	1	12	22.14	22.21	22.14	
5	16QAM	1	24	22.10	22.20	22.10	
5	16QAM	12	0	20.94	21.04	20.92	22
5	16QAM	12	7	20.88	20.89	20.84	
5	16QAM	12	13	20.91	20.95	20.97	
5	16QAM	25	0	20.91	21.03	20.84	
5	64QAM	1	0	22.04	22.04	21.92	23
5	64QAM	1	12	21.86	21.97	21.95	
5	64QAM	1	24	21.95	21.95	21.94	
5	64QAM	12	0	20.84	20.89	20.91	22
5	64QAM	12	7	20.82	20.95	20.78	
5	64QAM	12	13	20.88	20.91	20.83	
5	64QAM	25	0	20.87	20.88	20.78	
Channel				20415	20525	20635	Tune-up limit (dBm)
Frequency (MHz)				825.5	836.5	847.5	
3	QPSK	1	0	23.05	23.06	23.01	24
3	QPSK	1	8	22.89	23.03	22.90	
3	QPSK	1	14	23.03	23.04	23.02	
3	QPSK	8	0	21.97	21.95	21.92	23
3	QPSK	8	4	21.79	21.96	21.80	
3	QPSK	8	7	21.87	21.93	21.86	
3	QPSK	15	0	21.93	21.94	21.85	
3	16QAM	1	0	22.16	22.23	22.10	23
3	16QAM	1	8	22.10	22.16	22.12	
3	16QAM	1	14	22.13	22.18	22.14	
3	16QAM	8	0	20.99	21.00	20.95	22
3	16QAM	8	4	20.83	20.89	20.80	
3	16QAM	8	7	20.89	20.99	20.95	
3	16QAM	15	0	20.87	20.99	20.86	
3	64QAM	1	0	22.05	21.99	21.92	23
3	64QAM	1	8	21.88	22.02	21.92	
3	64QAM	1	14	21.93	21.99	21.94	
3	64QAM	8	0	20.88	20.91	20.89	22
3	64QAM	8	4	20.84	20.86	20.80	
3	64QAM	8	7	20.87	20.91	20.85	
3	64QAM	15	0	20.83	20.88	20.79	
Channel				20407	20525	20643	Tune-up limit (dBm)
Frequency (MHz)				824.7	836.5	848.3	
1.4	QPSK	1	0	23.01	23.06	23.07	24
1.4	QPSK	1	3	22.95	22.96	22.86	
1.4	QPSK	1	5	22.97	23.08	22.98	
1.4	QPSK	3	0	22.90	23.01	22.91	
1.4	QPSK	3	1	22.81	22.96	22.80	
1.4	QPSK	3	3	22.81	22.93	22.84	
1.4	QPSK	6	0	21.91	21.97	21.89	23
1.4	16QAM	1	0	22.21	22.24	22.18	23
1.4	16QAM	1	3	22.14	22.18	22.15	
1.4	16QAM	1	5	22.13	22.19	22.10	
1.4	16QAM	3	0	22.00	22.06	21.93	
1.4	16QAM	3	1	21.88	21.98	21.85	
1.4	16QAM	3	3	21.93	21.92	21.93	
1.4	16QAM	6	0	20.89	20.96	20.85	22
1.4	64QAM	1	0	21.98	22.08	21.97	23
1.4	64QAM	1	3	21.90	22.04	21.87	
1.4	64QAM	1	5	21.93	21.91	21.90	
1.4	64QAM	3	0	21.88	21.91	21.86	
1.4	64QAM	3	1	21.90	21.88	21.80	
1.4	64QAM	3	3	21.81	21.86	21.90	
1.4	64QAM	6	0	20.83	20.91	20.79	22

Band 12 (700MHz Low Band) (dBm)
Part 27F(only on channel required)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				23060	23095	23130	
Frequency (MHz)				704	707.5	711	
10	QPSK	1	0	23.21	23.25	23.18	24
10	QPSK	1	25	23.18	23.20	23.14	
10	QPSK	1	49	23.11	23.19	23.12	
10	QPSK	25	0	22.23	22.24	22.14	23
10	QPSK	25	12	22.19	22.21	22.15	
10	QPSK	25	25	22.15	22.19	22.12	
10	QPSK	50	0	22.11	22.20	22.14	
10	16QAM	1	0	22.34	22.44	22.34	23
10	16QAM	1	25	22.22	22.31	22.27	
10	16QAM	1	49	22.39	22.42	22.35	
10	16QAM	25	0	21.09	21.16	21.14	22
10	16QAM	25	12	21.04	21.13	21.07	
10	16QAM	25	25	21.09	21.19	21.09	
10	16QAM	50	0	21.15	21.25	21.16	
10	64QAM	1	0	22.19	22.24	22.15	23
10	64QAM	1	25	22.15	22.22	22.15	
10	64QAM	1	49	22.17	22.26	22.23	
10	64QAM	25	0	21.15	21.17	21.11	22
10	64QAM	25	12	21.18	21.21	21.17	
10	64QAM	25	25	21.15	21.23	21.19	
10	64QAM	50	0	21.10	21.19	21.09	
Channel				23035	23095	23155	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	QPSK	1	0	23.20	23.23	23.21	24
5	QPSK	1	12	23.19	23.15	23.09	
5	QPSK	1	24	23.11	23.19	23.09	
5	QPSK	12	0	22.18	22.25	22.13	23
5	QPSK	12	7	22.15	22.21	22.15	
5	QPSK	12	13	22.18	22.17	22.07	
5	QPSK	25	0	22.07	22.22	22.17	
5	16QAM	1	0	22.36	22.46	22.34	23
5	16QAM	1	12	22.25	22.26	22.30	
5	16QAM	1	24	22.42	22.38	22.38	
5	16QAM	12	0	21.07	21.19	21.16	22
5	16QAM	12	7	21.07	21.08	21.10	
5	16QAM	12	13	21.08	21.19	21.03	
5	16QAM	25	0	21.12	21.23	21.15	
5	64QAM	1	0	22.17	22.26	22.11	23
5	64QAM	1	12	22.18	22.17	22.10	
5	64QAM	1	24	22.15	22.24	22.20	
5	64QAM	12	0	21.12	21.11	21.05	22
5	64QAM	12	7	21.18	21.17	21.15	
5	64QAM	12	13	21.11	21.22	21.15	
5	64QAM	25	0	21.10	21.19	21.06	
Channel				23025	23095	23165	Tune-up limit (dBm)
Frequency (MHz)				700.5	707.5	714.5	
3	QPSK	1	0	23.05	23.01	23.03	23.5
3	QPSK	1	8	23.02	23.01	22.95	
3	QPSK	1	14	22.95	23.00	22.95	
3	QPSK	8	0	22.07	22.08	21.99	22.5
3	QPSK	8	4	21.96	21.99	21.98	
3	QPSK	8	7	21.91	22.02	21.93	
3	QPSK	15	0	21.88	21.97	21.90	
3	16QAM	1	0	22.11	22.26	22.12	22.5
3	16QAM	1	8	22.04	22.10	22.12	
3	16QAM	1	14	22.15	22.22	22.15	
3	16QAM	8	0	20.85	20.96	20.93	21.5
3	16QAM	8	4	20.89	20.96	20.87	
3	16QAM	8	7	20.87	20.95	20.94	
3	16QAM	15	0	21.00	21.08	20.92	
3	64QAM	1	0	22.00	22.00	21.98	22.5
3	64QAM	1	8	21.97	22.05	21.91	
3	64QAM	1	14	22.00	22.11	22.05	
3	64QAM	8	0	20.97	20.97	20.96	21.5
3	64QAM	8	4	20.96	21.03	20.94	
3	64QAM	8	7	20.93	21.08	20.98	
3	64QAM	15	0	20.94	21.03	20.90	
Channel				23017	23095	23173	Tune-up limit (dBm)
Frequency (MHz)				699.7	707.5	715.3	
1.4	QPSK	1	0	22.96	22.98	22.94	23.5
1.4	QPSK	1	3	22.93	22.92	22.86	
1.4	QPSK	1	5	22.86	22.91	22.86	
1.4	QPSK	3	0	21.98	21.99	21.90	
1.4	QPSK	3	1	21.87	21.90	21.89	
1.4	QPSK	3	3	21.82	21.93	21.84	
1.4	QPSK	6	0	21.79	21.88	21.81	22.5
1.4	16QAM	1	0	22.02	22.17	22.03	22.5
1.4	16QAM	1	3	21.95	22.01	22.03	
1.4	16QAM	1	5	22.06	22.13	22.06	
1.4	16QAM	3	0	20.76	20.87	20.84	
1.4	16QAM	3	1	20.80	20.87	20.78	
1.4	16QAM	3	3	20.78	20.86	20.85	
1.4	16QAM	6	0	20.91	20.99	20.83	21.5
1.4	64QAM	1	0	21.91	21.91	21.89	22.5
1.4	64QAM	1	3	21.88	21.96	21.82	
1.4	64QAM	1	5	21.91	22.02	21.96	
1.4	64QAM	3	0	20.88	20.88	20.87	
1.4	64QAM	3	1	20.87	20.94	20.85	
1.4	64QAM	3	3	20.84	20.99	20.89	
1.4	64QAM	6	0	20.85	20.94	20.81	21.5

Band 13(700MHz Band) (dBm)
Part 27F

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel					23230		
Frequency (MHz)					782		
10	QPSK	1	0		23.31		24
10	QPSK	1	25		23.25		
10	QPSK	1	49		23.21		
10	QPSK	25	0		22.23		23
10	QPSK	25	12		22.19		
10	QPSK	25	25		22.15		
10	QPSK	50	0		22.11		
10	16QAM	1	0		22.34		23
10	16QAM	1	25		22.22		
10	16QAM	1	49		22.19		
10	16QAM	25	0		21.13		22
10	16QAM	25	12		21.04		
10	16QAM	25	25		21.09		
10	16QAM	50	0		21.15		
10	64QAM	1	0		22.27		23
10	64QAM	1	25		22.15		
10	64QAM	1	49		22.17		
10	64QAM	25	0		21.16		22
10	64QAM	25	12		21.18		
10	64QAM	25	25		21.15		
10	64QAM	50	0		21.10		
Channel				23205	23230	23255	Tune-up limit (dBm)
Frequency (MHz)				779.5	782	784.5	
5	QPSK	1	0	23.18	23.25	23.20	24
5	QPSK	1	12	23.09	23.11	23.09	
5	QPSK	1	24	23.11	23.18	23.14	
5	QPSK	12	0	22.18	22.22	22.13	23
5	QPSK	12	7	22.15	22.21	22.15	
5	QPSK	12	13	22.18	22.17	22.07	
5	QPSK	25	0	22.07	22.13	22.17	
5	16QAM	1	0	22.36	22.37	22.34	23
5	16QAM	1	12	22.25	22.26	22.30	
5	16QAM	1	24	22.22	22.28	22.18	
5	16QAM	12	0	21.07	21.23	21.16	22
5	16QAM	12	7	21.07	21.08	21.10	
5	16QAM	12	13	21.08	21.19	21.08	
5	16QAM	25	0	21.12	21.15	21.15	
5	64QAM	1	0	22.17	22.26	22.21	23
5	64QAM	1	12	22.18	22.17	22.13	
5	64QAM	1	24	22.15	22.24	22.20	
5	64QAM	12	0	21.12	21.18	21.05	22
5	64QAM	12	7	21.09	21.17	21.15	
5	64QAM	12	13	21.11	21.12	21.15	
5	64QAM	25	0	21.10	21.14	21.06	

Band 66 (dBm)

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	23.22	23.28	23.24	24
20	QPSK	1	49	23.08	23.18	23.17	
20	QPSK	1	99	23.13	23.20	23.13	
20	QPSK	50	0	22.04	22.08	22.03	23
20	QPSK	50	24	22.03	22.04	22.00	
20	QPSK	50	50	22.01	22.03	21.96	
20	QPSK	100	0	21.96	22.06	21.98	
20	16QAM	1	0	22.21	22.25	22.18	23
20	16QAM	1	49	22.16	22.22	22.20	
20	16QAM	1	99	22.22	22.25	22.18	
20	16QAM	50	0	21.14	21.16	21.10	22
20	16QAM	50	24	21.07	21.13	21.11	
20	16QAM	50	50	21.01	21.11	21.10	
20	16QAM	100	0	21.01	21.09	21.04	
20	64QAM	1	0	22.08	22.10	22.00	23
20	64QAM	1	49	21.98	22.05	22.00	
20	64QAM	1	99	22.04	22.09	22.04	
20	64QAM	50	0	21.02	21.03	20.97	22
20	64QAM	50	24	21.06	21.09	21.03	
20	64QAM	50	50	21.05	21.12	21.02	
20	64QAM	100	0	20.99	21.08	21.05	
Channel				132047	132322	132597	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	23.14	23.25	23.20	24
15	QPSK	1	37	23.01	23.09	23.14	
15	QPSK	1	74	23.08	23.10	23.10	
15	QPSK	36	0	21.96	22.01	21.98	23
15	QPSK	36	20	21.94	22.01	21.95	
15	QPSK	36	39	21.95	21.93	21.88	
15	QPSK	75	0	21.94	21.99	21.94	
15	16QAM	1	0	22.19	22.19	22.12	23
15	16QAM	1	37	22.11	22.16	22.19	
15	16QAM	1	74	22.14	22.15	22.16	
15	16QAM	36	0	21.09	21.09	21.02	22
15	16QAM	36	20	21.05	21.06	21.08	
15	16QAM	36	39	20.92	21.06	21.03	
15	16QAM	75	0	21.00	21.00	20.96	
15	64QAM	1	0	22.04	22.06	21.99	23
15	64QAM	1	37	21.94	22.01	21.92	
15	64QAM	1	74	21.98	22.04	21.99	
15	64QAM	36	0	20.93	20.99	20.96	22
15	64QAM	36	20	20.99	21.07	21.00	
15	64QAM	36	39	21.02	21.11	20.93	
15	64QAM	75	0	20.94	21.00	20.99	
Channel				132022	132322	132622	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	23.18	23.24	23.23	24
10	QPSK	1	25	23.04	23.11	23.14	
10	QPSK	1	49	23.11	23.19	23.04	
10	QPSK	25	0	22.01	22.02	21.95	23
10	QPSK	25	12	21.97	21.94	21.99	
10	QPSK	25	25	21.94	21.93	21.94	
10	QPSK	50	0	21.91	22.02	21.90	
10	16QAM	1	0	22.19	22.23	22.10	23
10	16QAM	1	25	22.14	22.13	22.15	
10	16QAM	1	49	22.16	22.22	22.15	
10	16QAM	25	0	21.09	21.11	21.06	22
10	16QAM	25	12	21.03	21.03	21.06	
10	16QAM	25	25	20.94	21.06	21.05	
10	16QAM	50	0	21.00	21.08	20.94	
10	64QAM	1	0	22.02	22.01	21.90	23
10	64QAM	1	25	21.93	22.02	21.95	
10	64QAM	1	49	22.00	22.06	22.01	
10	64QAM	25	0	20.92	20.99	20.91	22
10	64QAM	25	12	21.02	21.00	20.96	
10	64QAM	25	25	20.98	21.11	20.98	
10	64QAM	50	0	20.95	20.98	21.01	
Channel				131997	132322	132647	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	23.12	23.26	23.20	24
5	QPSK	1	12	23.06	23.08	23.08	
5	QPSK	1	24	23.12	23.18	23.04	
5	QPSK	12	0	21.96	22.01	21.95	23
5	QPSK	12	7	22.00	21.96	21.93	
5	QPSK	12	13	21.92	21.94	21.87	
5	QPSK	25	0	21.90	21.97	21.90	
5	16QAM	1	0	22.12	22.22	22.12	23
5	16QAM	1	12	22.11	22.12	22.16	
5	16QAM	1	24	22.21	22.17	22.14	
5	16QAM	12	0	21.04	21.10	21.00	22
5	16QAM	12	7	21.02	21.03	21.01	
5	16QAM	12	13	20.95	21.07	21.00	
5	16QAM	25	0	21.00	21.03	20.97	
5	64QAM	1	0	22.04	22.02	21.96	23
5	64QAM	1	12	21.91	22.04	21.96	
5	64QAM	1	24	21.95	22.04	22.03	
5	64QAM	12	0	20.96	20.94	20.92	22
5	64QAM	12	7	21.03	21.03	21.02	
5	64QAM	12	13	20.99	21.11	20.96	
5	64QAM	25	0	20.97	21.03	21.03	
Channel				131987	132322	132657	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	23.12	23.26	23.14	24
3	QPSK	1	8	22.99	23.13	23.12	
3	QPSK	1	14	23.10	23.16	23.07	
3	QPSK	8	0	21.97	22.06	21.95	23
3	QPSK	8	4	22.00	21.94	21.99	
3	QPSK	8	7	21.97	22.01	21.90	

3	QPSK	15	0	21.93	22.02	21.89	
3	16QAM	1	0	22.17	22.19	22.12	23
3	16QAM	1	8	22.07	22.15	22.13	
3	16QAM	1	14	22.15	22.24	22.17	
3	16QAM	8	0	21.07	21.09	21.07	22
3	16QAM	8	4	21.00	21.03	21.02	
3	16QAM	8	7	20.92	21.03	21.01	
3	16QAM	15	0	20.97	21.00	21.02	
3	64QAM	1	0	21.99	22.00	21.90	23
3	64QAM	1	8	21.93	21.98	21.91	
3	64QAM	1	14	22.01	22.01	22.00	
3	64QAM	8	0	21.01	20.98	20.88	22
3	64QAM	8	4	20.97	21.07	21.01	
3	64QAM	8	7	20.96	21.06	21.00	
3	64QAM	15	0	20.91	21.00	21.04	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	23.17	23.19	23.22	24
1.4	QPSK	1	3	23.05	23.13	23.14	
1.4	QPSK	1	5	23.07	23.10	23.12	
1.4	QPSK	3	0	23.03	23.01	22.99	
1.4	QPSK	3	1	22.95	22.94	22.95	
1.4	QPSK	3	3	22.92	22.99	22.88	
1.4	QPSK	6	0	21.95	22.04	21.90	23
1.4	16QAM	1	0	22.11	22.19	22.12	23
1.4	16QAM	1	3	22.15	22.18	22.10	
1.4	16QAM	1	5	22.13	22.19	22.15	
1.4	16QAM	3	0	22.09	22.13	22.00	
1.4	16QAM	3	1	21.99	22.09	22.09	
1.4	16QAM	3	3	21.92	22.01	22.03	
1.4	16QAM	6	0	21.05	21.08	21.02	22
1.4	64QAM	1	0	21.99	22.00	21.98	23
1.4	64QAM	1	3	21.92	21.98	21.91	
1.4	64QAM	1	5	22.03	21.99	22.03	
1.4	64QAM	3	0	21.92	22.01	21.90	
1.4	64QAM	3	1	21.99	22.03	21.95	
1.4	64QAM	3	3	21.97	22.02	22.01	
1.4	64QAM	6	0	20.93	21.04	21.01	22

2CC LTE Downlink for Top Antenna												
Configure	CA Configuration	PCC					SCC				Power	
		Band	BW (MHz)	UL Channel	UL Fre. (MHz)	UL Mode (Modulation/RB/Offset)	Band	BW (MHz)	DL Channel	DL Fre. (MHz)	CA TX (dBm)	Rel.8 TX (dBm)
Intra-band &Inter-band	CA_2A-2A	2	20	19100	1900	QPSK/1#0	2	5	1175	1987.5	22.62	23.18
	CA_2C	2	20	18801	1870.1	QPSK/1#0	2	20	999	1889.9	22.65	23.18
	CA_2A-4A	2	20	19100	1900	QPSK/1#0	4	20	2175	2132.5	22.6	23.18
	CA_2A-66A	2	20	18700	1860	QPSK/1#0	66	20	66536	1720	22.58	23.18
	CA_2A-5A	2	20	18700	1860	QPSK/1#0	5	10	20600	844	22.57	23.18
	CA_2A-12A	2	20	19100	1900	QPSK/1#0	12	10	23060	704	22.82	23.22
	CA_4A-4A	4	20	20050	1720	QPSK/1#0	4	20	20300	1745	22.84	23.22
	CA_4A-5A	4	20	20175	1732.5	QPSK/1#0	5	20	20525	836.5	22.81	23.22
	CA_4A-12A	2	20	20175	1732.5	QPSK/1#0	12	10	23060	704	22.8	23.22
	CA_5A-5A	5	10	20450	829	QPSK/1#0	5	10	20600	844.0	22.59	23.13
	CA_5B	5	10	20476	831.6	QPSK/1#0	5	10	20575	841.5	22.57	23.13
	CA_5A-66A	5	10	20450	829	QPSK/1#0	66	20	66536	1720	22.62	23.13
	CA_12A-66A	12	10	23060	704	QPSK/1#0	66	20	66536	1720	22.76	23.13
	CA_66C	66	20	132323	1745.1	QPSK/1#0	66	20	67236	2190	22.85	23.28
	CA_66B	66	10	132373	1750.1	QPSK/1#0	66	10	67286	2195	22.81	23.28
	CA_66A-66A	66	20	132072	1720	QPSK/1#0	66	20	67236	2190	22.83	23.28
	CA_2A-13A	2	20	19100	1900	QPSK/1#0	13	10	23230	782	22.49	23.18
	CA_4A-13A	4	20	20175	1732.5	QPSK/1#0	13	10	23230	782	22.68	23.22
	CA_13A-66A	13	10	23230	782	QPSK/1#0	66	20	66536	1720	22.85	23.31

2.4GHz WLAN ANT 1

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
2.4GHz WLAN ANT 1	802.11b 1Mbps	CH 1	2412	9.27	10.00	13.00	99.41
		CH 6	2437	8.68	9.50	13.00	
		CH 11	2462	9.60	10.50	13.00	
	802.11g 6Mbps	CH 1	2412	**17.76**	18.50	18.00	98.35
		CH 6	2437	17.03	18.00	18.00	
		CH 11	2462	17.61	18.50	18.00	
	802.11n-HT20 MCS0	CH 1	2412	17.52	18.50	18.00	98.23
		CH 6	2437	16.89	18.00	18.00	
		CH 11	2462	17.41	18.50	18.00	
	802.11n-HT40 MCS0	CH 3	2422	13.57	14.50	14.00	94.89
		CH 6	2437	16.83	17.50	17.00	
		CH 9	2452	13.78	14.50	14.00	

5GHz WLAN ANT 1

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
5.2GHz WLAN ANT 1	802.11a 6Mbps	CH 36	5180	16.86	18.00	18.00	98.54
		CH 44	5220	**16.93**	18.00	18.00	
		CH 48	5240	16.60	17.50	18.00	
	802.11n-HT20 MCS0	CH 36	5180	16.29	17.00	17.50	98.44
		CH 44	5220	16.34	17.00	17.50	
		CH 48	5240	15.87	16.50	17.50	
	802.11n-HT40 MCS0	CH 38	5190	16.72	17.50	17.50	96.87
		CH 46	5230	16.59	17.50	17.50	
	802.11ac-VHT20 MCS0	CH 36	5180	16.64	17.50	18.00	98.45
		CH 44	5220	16.71	17.50	18.00	
		CH 48	5240	16.33	17.50	18.00	
	802.11ac-VHT40 MCS0	CH 38	5190	16.67	17.50	17.50	96.91
		CH 46	5230	16.54	17.50	17.50	
	802.11ac-VHT80 MCS0	CH 42	5210	16.58	17.50	17.50	93.88

5GHz WLAN ANT 1

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
5.3GHz WLAN ANT 1	802.11a 6Mbps	CH 52	5260	**16.69**	17.50	18.00	98.54
		CH 60	5300	16.56	17.50	18.00	
		CH 64	5320	16.15	17.00	18.00	
	802.11n-HT20 MCS0	CH 52	5260	16.13	17.00	17.50	98.44
		CH 60	5300	15.92	17.00	17.50	
		CH 64	5320	15.52	16.50	17.50	
	802.11n-HT40 MCS0	CH 54	5270	16.31	17.00	17.50	95.88
		CH 62	5310	16.13	17.00	17.50	
	802.11ac-VHT20 MCS0	CH 52	5260	16.49	17.50	18.00	98.45
		CH 60	5300	16.35	17.00	18.00	
		CH 64	5320	15.95	17.00	18.00	
	802.11ac-VHT40 MCS0	CH 54	5270	16.26	17.00	17.50	96.91
		CH 62	5310	16.15	17.00	17.50	
	802.11ac-VHT80 MCS0	CH 58	5290	16.17	17.00	17.50	93.88

5GHzWLAN ANT 1

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
5.5GHz WLAN ANT 1	802.11a 6Mbps	CH 100	5500	17.13	18.00	18.00	98.54
		CH 120	5600	**17.76**	18.50	18.00	
		CH 144	5720	17.29	18.00	18.00	
	802.11n-HT20 MCS0	CH 100	5500	16.63	17.50	17.50	97.93
		CH 120	5600	17.07	18.00	17.50	
		CH 144	5720	16.69	17.50	17.50	
	802.11n-HT40 MCS0	CH 102	5510	16.98	18.00	17.50	95.88
		CH 126	5630	17.50	18.50	17.50	
		CH 142	5710	17.10	18.00	17.50	
	802.11ac-VHT20 MCS0	CH 100	5500	16.89	17.50	18.00	98.45
		CH 120	5600	17.49	18.50	18.00	
		CH 144	5720	17.10	18.00	18.00	
	802.11ac-VHT40 MCS0	CH 102	5510	17.11	18.00	17.50	96.91
		CH 126	5630	17.03	18.00	17.50	
		CH 142	5710	16.79	17.50	17.50	
	802.11ac-VHT80 MCS0	CH 106	5530	16.84	17.50	17.50	92.00
		CH 122	5610	17.37	18.00	17.50	
		CH 138	5690	17.07	18.00	17.50	

5GHz WLAN ANT 1

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
5.8GHz WLAN ANT 1	802.11a 6Mbps	CH 149	5745	17.14	18.00	18.00	98.07
		CH 157	5785	17.13	18.00	18.00	
		CH 165	5825	**17.21**	18.00	18.00	
	802.11n-HT20 MCS0	CH 149	5745	16.49	17.50	17.50	98.44
		CH 157	5785	16.45	17.50	17.50	
		CH 165	5825	16.53	17.50	17.50	
	802.11n-HT40 MCS0	CH 151	5755	17.03	18.00	17.50	96.88
		CH 159	5795	16.81	17.50	17.50	
	802.11ac-VHT20 MCS0	CH 149	5745	16.97	18.00	18.00	97.94
		CH 157	5785	16.93	18.00	18.00	
		CH 165	5825	17.05	18.00	18.00	
	802.11ac-VHT40 MCS0	CH 151	5755	16.58	17.50	17.50	96.91
		CH 159	5795	16.17	17.00	17.50	
	802.11ac-VHT80 MCS0	CH 155	5775	16.70	17.50	17.50	93.88

Mode	Channel	Frequency (MHz)	1Mbps		2Mbps		3Mbps	
			Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit
BR / EDR	CH 00	2402	**7.82**	9.00	4.88	5.50	4.71	5.50
	CH 39	2441	6.81	8.00	3.34	4.00	3.39	4.50
	CH 78	2480	7.76	9.00	4.43	5.50	4.28	5.00
Power Setting			8		8		8	
Duty Cycle %			77.14		77.25		77.09	

Mode	Channel	Frequency (MHz)	Average power (dBm)
			GFSK
LE	CH 00	2402	6.40
	CH 19	2440	5.17
	CH 39	2480	6.03
Tune-up Limit			7
Power Setting			Default
Duty Cycle %			62.9

Reduced Power Level 1

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	27.52	27.55	27.47	28.00	18.52	18.55	18.47	19.00	0.10
GPRS 1 Tx slot	27.54	27.57	27.49	28.00	18.54	18.57	18.49	19.00	
GPRS 2 Tx slots	26.04	26.05	25.98	26.50	20.04	20.05	19.98	20.50	0.07
GPRS 3 Tx slots	23.87	23.94	23.81	25.00	19.61	19.68	19.55	20.74	0.13
GPRS 4 Tx slots	22.63	22.68	22.57	23.50	19.63	19.68	19.57	20.50	0.11
EDGE 1 Tx slot	23.62	23.53	23.40	24.50	14.62	14.53	14.40	15.50	0.22
EDGE 2 Tx slots	21.68	21.54	21.38	22.00	15.68	15.54	15.38	16.00	0.30
EDGE 3 Tx slots	20.28	20.21	20.02	21.50	16.02	15.95	15.76	17.24	0.26
EDGE 4 Tx slots	19.04	19.01	18.95	20.50	16.04	16.01	15.95	17.50	0.09
Mode		Max.	27.57			Max.	20.05		
Attenuator	Cable Loss : 0.8								

Band		WCDMA Band II (dBm)			Tune-up Limit (dBm)	WCDMA Band IV (dBm)			Tune-up Limit (dBm)	WCDMA Band V (dBm)			Tune-up Limit (dBm)
TX Channel		9262	9400	9538		1312	1413	1513		4132	4182	4233	
Rx Channel		9662	9800	9938		1537	1638	1738		4357	4407	4458	
Frequency (MHz)		1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6	
3GPP Rel 99	RMC 12.2Kbps	20.02	19.94	19.98	20.70	19.43	19.50	19.47	20.20	21.52	21.54	21.48	22.70
3GPP Rel 5	HSDPA Subtest-1	18.80	18.67	18.71	19.50	18.14	18.26	18.20	19.00	20.67	20.57	20.58	21.50
3GPP Rel 5	HSDPA Subtest-2	18.74	18.58	18.60	19.50	18.41	18.32	18.15	19.00	20.84	20.69	20.71	21.50
3GPP Rel 5	HSDPA Subtest-3	18.25	18.06	17.96	19.00	17.62	17.68	17.51	18.50	20.34	20.19	20.25	21.00
3GPP Rel 5	HSDPA Subtest-4	18.22	18.05	18.01	19.00	17.64	17.72	17.50	18.50	20.28	20.24	20.22	21.00
3GPP Rel 8	DC-HSDPA Subtest-1	18.63	18.54	18.55	19.50	17.85	18.05	18.05	19.00	20.52	20.46	20.39	21.50
3GPP Rel 8	DC-HSDPA Subtest-2	18.61	18.56	18.61	19.50	17.91	18.12	18.05	19.00	20.53	20.45	20.34	21.50
3GPP Rel 8	DC-HSDPA Subtest-3	18.16	18.09	18.11	19.00	17.50	17.52	17.63	18.50	20.04	19.92	19.83	21.00
3GPP Rel 8	DC-HSDPA Subtest-4	18.17	18.06	18.10	19.00	17.60	17.59	17.52	18.50	20.03	19.92	19.87	21.00
3GPP Rel 6	HSUPA Subtest-1	18.87	18.66	18.49	19.50	18.09	18.27	17.94	19.00	20.42	20.43	20.59	21.50
3GPP Rel 6	HSUPA Subtest-2	18.35	18.19	18.18	19.50	17.72	17.96	17.95	19.00	19.87	20.07	19.94	21.00
3GPP Rel 6	HSUPA Subtest-3	18.77	18.68	18.36	19.50	18.15	18.37	18.10	19.00	20.57	20.34	20.51	21.50
3GPP Rel 6	HSUPA Subtest-4	18.80	18.65	18.74	19.50	18.14	18.15	18.14	19.00	20.33	20.33	20.32	21.50
3GPP Rel 6	HSUPA Subtest-5	18.85	18.64	18.55	19.50	18.07	18.04	17.89	19.00	20.58	20.28	20.35	21.50
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	18.93	18.83	18.48	19.50	18.15	18.13	17.96	19.00	20.64	20.57	20.32	21.50
Attenuator			Cable Loss	0.8			Cable Loss	0.8			Cable Loss	0.6	
Mode			Max.	20.02			Max.	19.50			Max.	21.54	

Band 2 (1900MHz Band) (dBm)
Part 24E

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				18700	18900	19100	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	18.93	19.18	19.02	20
20	QPSK	1	49	18.91	18.98	18.79	
20	QPSK	1	99	18.75	18.91	18.77	
20	QPSK	50	0	18.02	18.05	18.03	19
20	QPSK	50	24	18.00	18.04	17.91	
20	QPSK	50	50	17.96	18.01	17.96	
20	QPSK	100	0	17.93	18.03	17.90	
20	16QAM	1	0	18.19	18.28	18.12	19
20	16QAM	1	49	18.13	18.19	18.18	
20	16QAM	1	99	18.02	18.04	17.96	
20	16QAM	50	0	17.04	17.12	17.07	18
20	16QAM	50	24	17.01	17.10	17.05	
20	16QAM	50	50	16.88	16.95	16.87	
20	16QAM	100	0	16.99	17.11	16.96	
20	64QAM	1	0	18.04	18.16	18.05	19
20	64QAM	1	49	17.89	18.08	17.97	
20	64QAM	1	99	17.99	18.00	17.85	
20	64QAM	50	0	17.00	17.09	16.97	18
20	64QAM	50	24	16.97	17.07	16.90	
20	64QAM	50	50	16.75	16.95	16.91	
20	64QAM	100	0	16.83	17.02	16.85	
Channel				18675	18900	19125	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	19.21	19.34	19.31	20
15	QPSK	1	37	19.24	19.30	19.12	
15	QPSK	1	74	19.05	19.26	19.06	
15	QPSK	36	0	18.30	18.36	18.34	19
15	QPSK	36	20	18.29	18.41	18.27	
15	QPSK	36	39	18.33	18.34	18.26	
15	QPSK	75	0	18.28	18.36	18.23	
15	16QAM	1	0	18.26	18.34	18.21	19
15	16QAM	1	37	18.23	18.31	18.29	
15	16QAM	1	74	18.15	18.15	18.03	
15	16QAM	36	0	17.10	17.26	17.20	18
15	16QAM	36	20	17.11	17.25	17.11	
15	16QAM	36	39	16.99	17.05	16.97	
15	16QAM	75	0	17.06	17.18	17.07	
15	64QAM	1	0	18.10	18.29	18.19	19
15	64QAM	1	37	18.00	18.22	18.09	
15	64QAM	1	74	18.13	18.08	17.99	
15	64QAM	36	0	17.09	17.18	17.06	18
15	64QAM	36	20	17.07	17.16	16.98	
15	64QAM	36	39	16.85	17.06	16.98	
15	64QAM	75	0	16.94	17.10	16.96	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	19.30	19.35	19.32	20
10	QPSK	1	25	19.20	19.29	19.11	
10	QPSK	1	49	19.05	19.22	19.13	
10	QPSK	25	0	18.30	18.35	18.33	19
10	QPSK	25	12	18.30	18.41	18.26	
10	QPSK	25	25	18.25	18.30	18.26	
10	QPSK	50	0	18.29	18.37	18.22	
10	16QAM	1	0	18.29	18.38	18.41	19
10	16QAM	1	25	18.41	18.48	18.50	
10	16QAM	1	49	18.38	18.37	18.32	
10	16QAM	25	0	17.39	17.46	17.36	18
10	16QAM	25	12	17.33	17.46	17.34	
10	16QAM	25	25	17.20	17.23	17.15	
10	16QAM	50	0	17.36	17.46	17.31	
10	64QAM	1	0	18.36	18.47	18.35	19
10	64QAM	1	25	18.24	18.36	18.31	
10	64QAM	1	49	18.34	18.37	18.15	
10	64QAM	25	0	17.30	17.41	17.34	18
10	64QAM	25	12	17.34	17.38	17.21	
10	64QAM	25	25	17.08	17.28	17.19	
10	64QAM	50	0	17.12	17.34	17.21	
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	19.23	19.42	19.33	20
5	QPSK	1	12	19.21	19.32	19.09	
5	QPSK	1	24	19.11	19.26	19.12	
5	QPSK	12	0	18.34	18.34	18.40	19
5	QPSK	12	7	18.32	18.34	18.23	
5	QPSK	12	13	18.30	18.35	18.26	
5	QPSK	25	0	18.23	18.35	18.20	
5	16QAM	1	0	18.32	18.36	18.48	19
5	16QAM	1	12	18.21	18.33	18.48	
5	16QAM	1	24	18.17	18.13	18.26	
5	16QAM	12	0	17.17	17.21	17.40	18
5	16QAM	12	7	17.10	17.22	17.39	
5	16QAM	12	13	16.97	17.02	17.21	
5	16QAM	25	0	17.10	17.24	17.28	
5	64QAM	1	0	18.19	18.31	18.38	19
5	64QAM	1	12	18.23	18.38	18.28	
5	64QAM	1	24	18.30	18.35	18.20	
5	64QAM	12	0	17.30	17.43	17.28	18
5	64QAM	12	7	17.30	17.38	17.25	
5	64QAM	12	13	17.06	17.28	17.19	
5	64QAM	25	0	17.14	17.34	17.19	
Channel				18615	18900	19185	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	19.27	19.35	19.38	20
3	QPSK	1	8	19.20	19.31	19.10	
3	QPSK	1	14	19.06	19.25	19.12	
3	QPSK	8	0	18.36	18.38	18.35	19
3	QPSK	8	4	18.36	18.40	18.21	
3	QPSK	8	7	18.24	18.38	18.26	

Band 4 (AWS Band) (dBm)
Part 27L (only on channel required)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20050	20175	20300	
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	20.18	20.22	20.14	21
20	QPSK	1	49	20.02	20.10	20.03	
20	QPSK	1	99	20.07	20.14	20.05	
20	QPSK	50	0	19.10	19.12	19.09	20
20	QPSK	50	24	19.09	19.10	19.00	
20	QPSK	50	50	19.00	19.05	18.95	
20	QPSK	100	0	19.02	19.07	19.04	
20	16QAM	1	0	19.19	19.25	19.24	20
20	16QAM	1	49	19.14	19.21	19.16	
20	16QAM	1	99	19.15	19.18	19.16	
20	16QAM	50	0	17.92	18.01	17.96	19
20	16QAM	50	24	17.96	18.05	17.95	
20	16QAM	50	50	17.99	18.07	17.99	
20	16QAM	100	0	18.01	18.04	18.02	
20	64QAM	1	0	19.26	19.28	19.22	20
20	64QAM	1	49	19.20	19.22	19.16	
20	64QAM	1	99	19.25	19.26	19.22	
20	64QAM	50	0	17.94	18.02	18.00	19
20	64QAM	50	24	17.90	18.00	17.96	
20	64QAM	50	50	18.02	18.06	17.96	
20	64QAM	100	0	18.04	18.12	18.05	
Channel				20025	20175	20325	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	20.16	20.15	20.07	21
15	QPSK	1	37	19.95	20.02	19.94	
15	QPSK	1	74	20.02	20.04	20.02	
15	QPSK	36	0	19.08	19.09	19.00	20
15	QPSK	36	20	19.02	19.07	18.94	
15	QPSK	36	39	18.95	19.01	18.85	
15	QPSK	75	0	18.95	19.04	19.00	
15	16QAM	1	0	19.17	19.20	19.15	20
15	16QAM	1	37	19.07	19.15	19.07	
15	16QAM	1	74	19.10	19.11	19.14	
15	16QAM	36	0	17.87	17.99	17.89	19
15	16QAM	36	20	17.89	17.97	17.91	
15	16QAM	36	39	17.96	17.97	17.95	
15	16QAM	75	0	17.99	17.97	18.00	
15	64QAM	1	0	19.22	19.25	19.17	20
15	64QAM	1	37	19.10	19.18	19.12	
15	64QAM	1	74	19.21	19.25	19.14	
15	64QAM	36	0	17.91	17.94	17.94	19
15	64QAM	36	20	17.84	17.97	17.86	
15	64QAM	36	39	17.97	17.96	17.92	
15	64QAM	75	0	17.95	18.04	17.99	
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	20.13	20.18	20.11	21
10	QPSK	1	25	19.94	20.04	19.93	
10	QPSK	1	49	19.98	20.05	20.04	
10	QPSK	25	0	19.07	19.04	19.01	20
10	QPSK	25	12	18.99	19.07	18.94	
10	QPSK	25	25	18.90	19.03	18.89	
10	QPSK	50	0	18.96	18.97	19.03	
10	16QAM	1	0	19.15	19.16	19.19	20
10	16QAM	1	25	19.05	19.17	19.15	
10	16QAM	1	49	19.10	19.09	19.09	
10	16QAM	25	0	17.83	18.00	17.89	19
10	16QAM	25	12	17.91	17.95	17.89	
10	16QAM	25	25	17.89	18.04	17.92	
10	16QAM	50	0	17.99	18.01	17.94	
10	64QAM	1	0	19.19	19.21	19.21	20
10	64QAM	1	25	19.11	19.12	19.10	
10	64QAM	1	49	19.24	19.18	19.18	
10	64QAM	25	0	17.86	17.99	17.93	19
10	64QAM	25	12	17.87	17.92	17.89	
10	64QAM	25	25	17.97	17.99	17.87	
10	64QAM	50	0	17.96	18.05	17.98	
Channel				19975	20175	20375	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	20.11	20.12	20.06	21
5	QPSK	1	12	19.99	20.09	20.01	
5	QPSK	1	24	19.99	20.10	19.99	
5	QPSK	12	0	19.02	19.10	19.02	20
5	QPSK	12	7	19.04	19.05	18.96	
5	QPSK	12	13	18.91	18.97	18.88	
5	QPSK	25	0	18.93	19.00	19.01	
5	16QAM	1	0	19.09	19.16	19.22	20
5	16QAM	1	12	19.06	19.12	19.10	
5	16QAM	1	24	19.07	19.08	19.11	
5	16QAM	12	0	17.86	17.91	17.89	19
5	16QAM	12	7	17.87	18.01	17.91	
5	16QAM	12	13	17.92	18.05	17.89	
5	16QAM	25	0	17.99	17.96	17.93	
5	64QAM	1	0	19.22	19.27	19.13	20
5	64QAM	1	12	19.12	19.14	19.07	
5	64QAM	1	24	19.19	19.24	19.20	
5	64QAM	12	0	17.89	17.98	17.98	19
5	64QAM	12	7	17.84	17.96	17.91	
5	64QAM	12	13	17.96	18.04	17.89	
5	64QAM	25	0	18.00	18.02	17.97	
Channel				19965	20175	20385	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1732.5	1753.5	
3	QPSK	1	0	20.13	20.12	20.07	21
3	QPSK	1	8	19.99	20.01	19.95	
3	QPSK	1	14	20.05	20.05	19.97	
3	QPSK	8	0	19.09	19.07	19.05	20
3	QPSK	8	4	19.08	19.03	18.99	
3	QPSK	8	7	18.92	19.02	18.87	

3	QPSK	15	0	18.28	18.37	18.27	
3	16QAM	1	0	18.29	18.36	18.21	19
3	16QAM	1	8	18.28	18.26	18.32	
3	16QAM	1	14	18.30	18.35	18.32	
3	16QAM	8	0	17.32	17.43	17.40	18
3	16QAM	8	4	17.35	17.39	17.34	
3	16QAM	8	7	17.22	17.26	17.24	
3	16QAM	15	0	17.27	17.44	17.31	
3	64QAM	1	0	18.41	18.45	18.33	19
3	64QAM	1	8	18.17	18.44	18.29	
3	64QAM	1	14	18.35	18.31	18.13	
3	64QAM	8	0	17.37	17.39	17.27	18
3	64QAM	8	4	17.30	17.44	17.22	
3	64QAM	8	7	17.08	17.25	17.22	
3	64QAM	15	0	17.19	17.38	17.20	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	19.24	19.34	19.30	20
1.4	QPSK	1	3	19.28	19.33	19.11	
1.4	QPSK	1	5	19.09	19.27	19.11	
1.4	QPSK	3	0	19.34	19.40	19.34	
1.4	QPSK	3	1	19.36	19.41	19.19	
1.4	QPSK	3	3	19.31	19.29	19.25	
1.4	QPSK	6	0	18.25	18.36	18.22	19
1.4	16QAM	1	0	18.34	18.43	18.44	19
1.4	16QAM	1	3	18.25	18.34	18.49	
1.4	16QAM	1	5	18.35	18.33	18.25	
1.4	16QAM	3	0	18.39	18.46	18.44	
1.4	16QAM	3	1	18.30	18.40	18.37	
1.4	16QAM	3	3	18.25	18.31	18.20	
1.4	16QAM	6	0	17.35	17.45	17.30	18
1.4	64QAM	1	0	18.41	18.46	18.34	19
1.4	64QAM	1	3	18.18	18.44	18.26	
1.4	64QAM	1	5	18.32	18.28	18.14	
1.4	64QAM	3	0	18.31	18.39	18.33	
1.4	64QAM	3	1	18.31	18.38	18.18	
1.4	64QAM	3	3	18.04	18.32	18.23	
1.4	64QAM	6	0	17.14	17.38	17.18	18

3	QPSK	15	0	18.98	19.06	19.00	
3	16QAM	1	0	19.15	19.19	19.18	20
3	16QAM	1	8	19.05	19.16	19.07	
3	16QAM	1	14	19.11	19.10	19.07	
3	16QAM	8	0	17.91	17.95	17.94	19
3	16QAM	8	4	17.94	18.03	17.94	
3	16QAM	8	7	17.96	18.04	17.91	
3	16QAM	15	0	17.94	18.01	18.01	
3	64QAM	1	0	19.17	19.24	19.13	20
3	64QAM	1	8	19.12	19.12	19.12	
3	64QAM	1	14	19.23	19.22	19.15	
3	64QAM	8	0	17.92	17.95	17.94	19
3	64QAM	8	4	17.89	17.94	17.92	
3	64QAM	8	7	18.00	18.03	17.87	
3	64QAM	15	0	18.01	18.10	18.00	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	20.08	20.14	20.12	21
1.4	QPSK	1	3	19.94	20.09	19.93	
1.4	QPSK	1	5	20.01	20.11	19.96	
1.4	QPSK	3	0	20.02	20.03	20.03	
1.4	QPSK	3	1	20.01	20.09	19.91	
1.4	QPSK	3	3	19.92	20.02	19.87	
1.4	QPSK	6	0	18.97	19.00	19.01	20
1.4	16QAM	1	0	19.12	19.15	19.20	20
1.4	16QAM	1	3	19.12	19.14	19.07	
1.4	16QAM	1	5	19.09	19.14	19.11	
1.4	16QAM	3	0	18.87	18.94	18.88	
1.4	16QAM	3	1	18.92	19.01	18.90	
1.4	16QAM	3	3	18.92	19.06	18.97	
1.4	16QAM	6	0	17.94	17.98	17.92	19
1.4	64QAM	1	0	19.21	19.25	19.16	20
1.4	64QAM	1	3	19.15	19.18	19.12	
1.4	64QAM	1	5	19.19	19.19	19.16	
1.4	64QAM	3	0	18.84	18.95	18.90	
1.4	64QAM	3	1	18.82	18.92	18.86	
1.4	64QAM	3	3	18.99	19.00	18.91	
1.4	64QAM	6	0	18.02	18.11	17.98	19

Band 5 (Celluar Band) (dBm)
Part 22H(only on channel required)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20450	20525	20600	
Frequency (MHz)				829	836.5	844	
10	QPSK	1	0	22.08	22.13	22.10	23
10	QPSK	1	25	21.99	22.04	21.94	
10	QPSK	1	49	22.05	22.11	22.07	
10	QPSK	25	0	20.99	21.05	21.01	22
10	QPSK	25	12	20.85	20.97	20.90	
10	QPSK	25	25	20.89	21.01	20.87	
10	QPSK	50	0	20.94	21.00	20.92	
10	16QAM	1	0	21.22	21.28	21.20	22
10	16QAM	1	25	21.17	21.25	21.20	
10	16QAM	1	49	21.20	21.21	21.15	
10	16QAM	25	0	20.01	20.08	20.01	21
10	16QAM	25	12	19.91	19.99	19.90	
10	16QAM	25	25	19.96	20.01	19.98	
10	16QAM	50	0	19.94	20.04	19.94	
10	64QAM	1	0	21.07	21.09	20.99	22
10	64QAM	1	25	20.95	21.05	20.97	
10	64QAM	1	49	21.00	21.01	20.97	
10	64QAM	25	0	19.94	19.99	19.92	21
10	64QAM	25	12	19.92	19.96	19.86	
10	64QAM	25	25	19.91	19.95	19.91	
10	64QAM	50	0	19.90	19.92	19.85	
Channel				20425	20525	20625	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	QPSK	1	0	22.01	22.11	22.05	23
5	QPSK	1	12	21.93	22.01	21.92	
5	QPSK	1	24	22.02	22.06	22.03	
5	QPSK	12	0	20.94	20.97	20.99	22
5	QPSK	12	7	20.79	20.96	20.83	
5	QPSK	12	13	20.79	20.92	20.81	
5	QPSK	25	0	20.86	20.97	20.84	
5	16QAM	1	0	21.13	21.26	21.18	22
5	16QAM	1	12	21.14	21.21	21.14	
5	16QAM	1	24	21.10	21.20	21.10	
5	16QAM	12	0	19.94	20.04	19.92	21
5	16QAM	12	7	19.88	19.89	19.84	
5	16QAM	12	13	19.91	19.95	19.97	
5	16QAM	25	0	19.91	20.03	19.84	
5	64QAM	1	0	21.04	21.04	20.92	22
5	64QAM	1	12	20.86	20.97	20.95	
5	64QAM	1	24	20.95	20.95	20.94	
5	64QAM	12	0	19.84	19.89	19.91	21
5	64QAM	12	7	19.82	19.95	19.78	
5	64QAM	12	13	19.88	19.91	19.83	
5	64QAM	25	0	19.87	19.88	19.78	
Channel				20415	20525	20635	Tune-up limit (dBm)
Frequency (MHz)				825.5	836.5	847.5	
3	QPSK	1	0	22.05	22.06	22.01	23
3	QPSK	1	8	21.89	22.03	21.90	
3	QPSK	1	14	22.03	22.04	22.02	
3	QPSK	8	0	20.97	20.95	20.92	22
3	QPSK	8	4	20.79	20.96	20.80	
3	QPSK	8	7	20.87	20.93	20.86	
3	QPSK	15	0	20.93	20.94	20.85	
3	16QAM	1	0	21.16	21.23	21.10	22
3	16QAM	1	8	21.10	21.16	21.12	
3	16QAM	1	14	21.13	21.18	21.14	
3	16QAM	8	0	19.99	20.00	19.95	21
3	16QAM	8	4	19.83	19.89	19.80	
3	16QAM	8	7	19.89	19.99	19.95	
3	16QAM	15	0	19.87	19.99	19.86	
3	64QAM	1	0	21.05	20.99	20.92	22
3	64QAM	1	8	20.88	21.02	20.92	
3	64QAM	1	14	20.93	20.99	20.94	
3	64QAM	8	0	19.88	19.91	19.89	21
3	64QAM	8	4	19.84	19.86	19.80	
3	64QAM	8	7	19.87	19.91	19.85	
3	64QAM	15	0	19.83	19.88	19.79	
Channel				20407	20525	20643	Tune-up limit (dBm)
Frequency (MHz)				824.7	836.5	848.3	
1.4	QPSK	1	0	22.01	22.06	22.07	23
1.4	QPSK	1	3	21.95	21.96	21.86	
1.4	QPSK	1	5	21.97	22.08	21.98	
1.4	QPSK	3	0	21.90	22.01	21.91	
1.4	QPSK	3	1	21.81	21.96	21.80	
1.4	QPSK	3	3	21.81	21.93	21.84	
1.4	QPSK	6	0	20.91	20.97	20.89	22
1.4	16QAM	1	0	21.21	21.24	21.18	22
1.4	16QAM	1	3	21.14	21.18	21.15	
1.4	16QAM	1	5	21.13	21.19	21.10	
1.4	16QAM	3	0	21.00	21.06	20.93	
1.4	16QAM	3	1	20.88	20.98	20.85	
1.4	16QAM	3	3	20.93	20.92	20.93	
1.4	16QAM	6	0	19.89	19.96	19.85	21
1.4	64QAM	1	0	20.98	21.08	20.97	22
1.4	64QAM	1	3	20.90	21.04	20.87	
1.4	64QAM	1	5	20.93	20.91	20.90	
1.4	64QAM	3	0	20.88	20.91	20.86	
1.4	64QAM	3	1	20.90	20.88	20.80	
1.4	64QAM	3	3	20.81	20.86	20.90	
1.4	64QAM	6	0	19.83	19.91	19.79	21

Band 66 (dBm)

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	20.22	20.28	20.24	21
20	QPSK	1	49	20.08	20.18	20.17	
20	QPSK	1	99	20.13	20.20	20.13	
20	QPSK	50	0	19.04	19.08	19.03	20
20	QPSK	50	24	19.03	19.04	19.00	
20	QPSK	50	50	19.01	19.03	18.96	
20	QPSK	100	0	18.96	19.06	18.98	
20	16QAM	1	0	19.21	19.25	19.18	20
20	16QAM	1	49	19.16	19.22	19.20	
20	16QAM	1	99	19.22	19.25	19.18	
20	16QAM	50	0	18.14	18.16	18.10	19
20	16QAM	50	24	18.07	18.13	18.11	
20	16QAM	50	50	18.01	18.11	18.10	
20	16QAM	100	0	18.01	18.09	18.04	
20	64QAM	1	0	19.08	19.10	19.00	20
20	64QAM	1	49	18.98	19.05	19.00	
20	64QAM	1	99	19.04	19.09	19.04	
20	64QAM	50	0	18.02	18.03	17.97	19
20	64QAM	50	24	18.06	18.09	18.03	
20	64QAM	50	50	18.05	18.12	18.02	
20	64QAM	100	0	17.99	18.08	18.05	
Channel				132047	132322	132597	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	20.14	20.25	20.20	21
15	QPSK	1	37	20.01	20.09	20.14	
15	QPSK	1	74	20.08	20.10	20.10	
15	QPSK	36	0	18.96	19.01	18.98	20
15	QPSK	36	20	18.94	19.01	18.95	
15	QPSK	36	39	18.95	18.93	18.88	
15	QPSK	75	0	18.94	18.99	18.94	
15	16QAM	1	0	19.19	19.19	19.12	20
15	16QAM	1	37	19.11	19.16	19.19	
15	16QAM	1	74	19.14	19.15	19.16	
15	16QAM	36	0	18.09	18.09	18.02	19
15	16QAM	36	20	18.05	18.06	18.08	
15	16QAM	36	39	17.92	18.06	18.03	
15	16QAM	75	0	18.00	18.00	17.96	
15	64QAM	1	0	19.04	19.06	18.99	20
15	64QAM	1	37	18.94	19.01	18.92	
15	64QAM	1	74	18.98	19.04	18.99	
15	64QAM	36	0	17.93	17.99	17.96	19
15	64QAM	36	20	17.99	18.07	18.00	
15	64QAM	36	39	18.02	18.11	17.93	
15	64QAM	75	0	17.94	18.00	17.99	
Channel				132022	132322	132622	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	20.18	20.24	20.23	21
10	QPSK	1	25	20.04	20.11	20.14	
10	QPSK	1	49	20.11	20.19	20.04	
10	QPSK	25	0	19.01	19.02	18.95	20
10	QPSK	25	12	18.97	18.94	18.99	
10	QPSK	25	25	18.94	18.93	18.94	
10	QPSK	50	0	18.91	19.02	18.90	
10	16QAM	1	0	19.19	19.23	19.10	20
10	16QAM	1	25	19.14	19.13	19.15	
10	16QAM	1	49	19.16	19.22	19.15	
10	16QAM	25	0	18.09	18.11	18.06	19
10	16QAM	25	12	18.03	18.03	18.06	
10	16QAM	25	25	17.94	18.06	18.05	
10	16QAM	50	0	18.00	18.08	17.94	
10	64QAM	1	0	19.02	19.01	18.90	20
10	64QAM	1	25	18.93	19.02	18.95	
10	64QAM	1	49	19.00	19.06	19.01	
10	64QAM	25	0	17.92	17.99	17.91	19
10	64QAM	25	12	18.02	18.00	17.96	
10	64QAM	25	25	17.98	18.11	17.98	
10	64QAM	50	0	17.95	17.98	18.01	
Channel				131997	132322	132647	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	20.12	20.26	20.20	21
5	QPSK	1	12	20.06	20.08	20.08	
5	QPSK	1	24	20.12	20.18	20.04	
5	QPSK	12	0	18.96	19.01	18.95	20
5	QPSK	12	7	19.00	18.96	18.93	
5	QPSK	12	13	18.92	18.94	18.87	
5	QPSK	25	0	18.90	18.97	18.90	
5	16QAM	1	0	19.12	19.22	19.12	20
5	16QAM	1	12	19.11	19.12	19.16	
5	16QAM	1	24	19.21	19.17	19.14	
5	16QAM	12	0	18.04	18.10	18.00	19
5	16QAM	12	7	18.02	18.03	18.01	
5	16QAM	12	13	17.95	18.07	18.00	
5	16QAM	25	0	18.00	18.03	17.97	
5	64QAM	1	0	19.04	19.02	18.96	20
5	64QAM	1	12	18.91	19.04	18.96	
5	64QAM	1	24	18.95	19.04	19.03	
5	64QAM	12	0	17.96	17.94	17.92	19
5	64QAM	12	7	18.03	18.03	18.02	
5	64QAM	12	13	17.99	18.11	17.96	
5	64QAM	25	0	17.97	18.03	18.03	
Channel				131987	132322	132657	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	20.12	20.26	20.14	21
3	QPSK	1	8	19.99	20.13	20.12	
3	QPSK	1	14	20.10	20.16	20.07	
3	QPSK	8	0	18.97	19.06	18.95	20
3	QPSK	8	4	19.00	18.94	18.99	
3	QPSK	8	7	18.97	19.01	18.90	

3	QPSK	15	0	18.93	19.02	18.89	
3	16QAM	1	0	19.17	19.19	19.12	20
3	16QAM	1	8	19.07	19.15	19.13	
3	16QAM	1	14	19.15	19.24	19.17	
3	16QAM	8	0	18.07	18.09	18.07	19
3	16QAM	8	4	18.00	18.03	18.02	
3	16QAM	8	7	17.92	18.03	18.01	
3	16QAM	15	0	17.97	18.00	18.02	
3	64QAM	1	0	18.99	19.00	18.90	20
3	64QAM	1	8	18.93	18.98	18.91	
3	64QAM	1	14	19.01	19.01	19.00	
3	64QAM	8	0	18.01	17.98	17.88	19
3	64QAM	8	4	17.97	18.07	18.01	
3	64QAM	8	7	17.96	18.06	18.00	
3	64QAM	15	0	17.91	18.00	18.04	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	20.17	20.19	20.22	21
1.4	QPSK	1	3	20.05	20.13	20.14	
1.4	QPSK	1	5	20.07	20.10	20.12	
1.4	QPSK	3	0	20.03	20.01	19.99	
1.4	QPSK	3	1	19.95	19.94	19.95	
1.4	QPSK	3	3	19.92	19.99	19.88	
1.4	QPSK	6	0	18.95	19.04	18.90	20
1.4	16QAM	1	0	19.11	19.19	19.12	20
1.4	16QAM	1	3	19.15	19.18	19.10	
1.4	16QAM	1	5	19.13	19.19	19.15	
1.4	16QAM	3	0	19.09	19.13	19.00	
1.4	16QAM	3	1	18.99	19.09	19.09	
1.4	16QAM	3	3	18.92	19.01	19.03	
1.4	16QAM	6	0	18.05	18.08	18.02	19
1.4	64QAM	1	0	18.99	19.00	18.98	20
1.4	64QAM	1	3	18.92	18.98	18.91	
1.4	64QAM	1	5	19.03	18.99	19.03	
1.4	64QAM	3	0	18.92	19.01	18.90	
1.4	64QAM	3	1	18.99	19.03	18.95	
1.4	64QAM	3	3	18.97	19.02	19.01	
1.4	64QAM	6	0	17.93	18.04	18.01	19

5GHz WLAN ANT 1

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
5.2GHz WLAN ANT 1	802.11a 6Mbps	CH 36	5180	15.86	17.00	17.00	98.54
		CH 44	5220	**15.93**	17.00	17.00	
		CH 48	5240	15.60	16.50	17.00	
	802.11n-HT20 MCS0	CH 36	5180	15.29	16.00	16.50	98.44
		CH 44	5220	15.34	16.00	16.50	
		CH 48	5240	14.87	15.50	16.50	
	802.11n-HT40 MCS0	CH 38	5190	15.72	16.50	16.50	96.87
		CH 46	5230	15.59	16.50	16.50	
	802.11ac-VHT20 MCS0	CH 36	5180	15.64	16.50	17.00	98.45
		CH 44	5220	15.71	16.50	17.00	
		CH 48	5240	15.33	16.50	17.00	
	802.11ac-VHT40 MCS0	CH 38	5190	15.67	16.50	16.50	96.91
		CH 46	5230	15.54	16.50	16.50	
	802.11ac-VHT80 MCS0	CH 42	5210	15.58	16.50	16.50	93.88

5GHz WLAN ANT 1

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
5.3GHz WLAN ANT 1	802.11a 6Mbps	CH 52	5260	**15.19**	16.00	16.50	98.54
		CH 60	5300	15.06	16.00	16.50	
		CH 64	5320	14.65	15.50	16.50	
	802.11n-HT20 MCS0	CH 52	5260	14.63	15.50	16.00	98.44
		CH 60	5300	14.42	15.50	16.00	
		CH 64	5320	14.02	15.00	16.00	
	802.11n-HT40 MCS0	CH 54	5270	14.81	15.50	16.00	95.88
		CH 62	5310	14.63	15.50	16.00	
	802.11ac-VHT20 MCS0	CH 52	5260	14.99	16.00	16.50	98.45
		CH 60	5300	14.85	15.50	16.50	
		CH 64	5320	14.45	15.50	16.50	
	802.11ac-VHT40 MCS0	CH 54	5270	14.76	15.50	16.00	96.91
		CH 62	5310	14.65	15.50	16.00	
	802.11ac-VHT80 MCS0	CH 58	5290	14.67	15.50	16.00	93.88

Reduced Power Level 2

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	27.52	27.55	27.47	28.00	18.52	18.55	18.47	19.00
GPRS 1 Tx slot	27.54	27.57	27.49	28.00	18.54	18.57	18.49	19.00
GPRS 2 Tx slots	26.04	26.05	25.98	26.50	20.04	20.05	19.98	20.50
GPRS 3 Tx slots	23.87	23.94	23.81	25.00	19.61	19.68	19.55	20.74
GPRS 4 Tx slots	22.63	22.68	22.57	23.50	19.63	19.68	19.57	20.50
EDGE 1 Tx slot	23.62	23.53	23.40	24.50	14.62	14.53	14.40	15.50
EDGE 2 Tx slots	21.68	21.54	21.38	22.00	15.68	15.54	15.38	16.00
EDGE 3 Tx slots	20.28	20.21	20.02	21.50	16.02	15.95	15.76	17.24
EDGE 4 Tx slots	19.04	19.01	18.95	20.50	16.04	16.01	15.95	17.50
Mode		Max.	27.57			Max.	20.05	
Attenuator	Cable Loss : 0.8							

Band		WCDMA Band II (dBm)			Tune-up Limit (dBm)	WCDMA II
TX Channel		9262	9400	9538		Ch Delta > 0.5
Rx Channel		9662	9800	9938		
Frequency (MHz)		1852.4	1880	1907.6		
3GPP Rel 99	RMC 12.2Kbps	20.02	19.94	19.98	20.70	0.08
3GPP Rel 5	HSDPA Subtest-1	18.80	18.67	18.71	19.50	0.13
3GPP Rel 5	HSDPA Subtest-2	18.74	18.58	18.60	19.50	0.16
3GPP Rel 5	HSDPA Subtest-3	18.25	18.06	17.96	19.00	0.29
3GPP Rel 5	HSDPA Subtest-4	18.22	18.05	18.01	19.00	0.21
3GPP Rel 8	DC-HSDPA Subtest-1	18.63	18.54	18.55	19.50	0.09
3GPP Rel 8	DC-HSDPA Subtest-2	18.61	18.56	18.61	19.50	0.05
3GPP Rel 8	DC-HSDPA Subtest-3	18.16	18.09	18.11	19.00	0.07
3GPP Rel 8	DC-HSDPA Subtest-4	18.17	18.06	18.10	19.00	0.11
3GPP Rel 6	HSUPA Subtest-1	18.87	18.66	18.49	19.50	0.38
3GPP Rel 6	HSUPA Subtest-2	18.35	18.19	18.18	19.50	0.17
3GPP Rel 6	HSUPA Subtest-3	18.77	18.68	18.36	19.50	0.41
3GPP Rel 6	HSUPA Subtest-4	18.80	18.65	18.74	19.50	0.15
3GPP Rel 6	HSUPA Subtest-5	18.85	18.64	18.55	19.50	0.30
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	18.93	18.83	18.48	19.50	0.45
Attenuator			Cable Loss	0.8		
Mode			Max.	20.02		

Band 2 (1900MHz Band) (dBm)
Part 24E

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				18700	18900	19100	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	20.93	21.18	21.02	22
20	QPSK	1	49	20.91	20.98	20.79	
20	QPSK	1	99	20.75	20.91	20.77	
20	QPSK	50	0	20.02	20.05	20.03	21
20	QPSK	50	24	20.00	20.04	19.91	
20	QPSK	50	50	19.96	20.01	19.96	
20	QPSK	100	0	19.93	20.03	19.90	
20	16QAM	1	0	20.19	20.28	20.12	21
20	16QAM	1	49	20.13	20.19	20.18	
20	16QAM	1	99	20.02	20.04	19.96	
20	16QAM	50	0	19.04	19.12	19.07	20
20	16QAM	50	24	19.01	19.10	19.05	
20	16QAM	50	50	18.88	18.95	18.87	
20	16QAM	100	0	18.99	19.11	18.96	
20	64QAM	1	0	20.04	20.16	20.05	21
20	64QAM	1	49	19.89	20.08	19.97	
20	64QAM	1	99	19.99	20.00	19.85	
20	64QAM	50	0	19.00	19.09	18.97	20
20	64QAM	50	24	18.97	19.07	18.90	
20	64QAM	50	50	18.75	18.95	18.91	
20	64QAM	100	0	18.83	19.02	18.85	
Channel				18675	18900	19125	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	21.21	21.34	21.31	22
15	QPSK	1	37	21.24	21.30	21.12	
15	QPSK	1	74	21.05	21.26	21.06	
15	QPSK	36	0	20.30	20.36	20.34	21
15	QPSK	36	20	20.29	20.41	20.27	
15	QPSK	36	39	20.33	20.34	20.26	
15	QPSK	75	0	20.28	20.36	20.23	
15	16QAM	1	0	20.26	20.34	20.21	21
15	16QAM	1	37	20.23	20.31	20.29	
15	16QAM	1	74	20.15	20.15	20.03	
15	16QAM	36	0	19.10	19.26	19.20	20
15	16QAM	36	20	19.11	19.25	19.11	
15	16QAM	36	39	18.99	19.05	18.97	
15	16QAM	75	0	19.06	19.18	19.07	
15	64QAM	1	0	20.10	20.29	20.19	21
15	64QAM	1	37	20.00	20.22	20.09	
15	64QAM	1	74	20.13	20.08	19.99	
15	64QAM	36	0	19.09	19.18	19.06	20
15	64QAM	36	20	19.07	19.16	18.98	
15	64QAM	36	39	18.85	19.06	18.98	
15	64QAM	75	0	18.94	19.10	18.96	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	21.30	21.35	21.32	22
10	QPSK	1	25	21.20	21.29	21.11	
10	QPSK	1	49	21.05	21.22	21.13	
10	QPSK	25	0	20.30	20.35	20.33	21
10	QPSK	25	12	20.30	20.41	20.26	
10	QPSK	25	25	20.25	20.30	20.26	
10	QPSK	50	0	20.29	20.37	20.22	
10	16QAM	1	0	20.29	20.38	20.41	21
10	16QAM	1	25	20.41	20.48	20.50	
10	16QAM	1	49	20.38	20.37	20.32	
10	16QAM	25	0	19.39	19.46	19.36	20
10	16QAM	25	12	19.33	19.46	19.34	
10	16QAM	25	25	19.20	19.23	19.15	
10	16QAM	50	0	19.36	19.46	19.31	
10	64QAM	1	0	20.36	20.47	20.35	21
10	64QAM	1	25	20.24	20.36	20.31	
10	64QAM	1	49	20.34	20.37	20.15	
10	64QAM	25	0	19.30	19.41	19.34	20
10	64QAM	25	12	19.34	19.38	19.21	
10	64QAM	25	25	19.08	19.28	19.19	
10	64QAM	50	0	19.12	19.34	19.21	
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	21.23	21.42	21.33	22
5	QPSK	1	12	21.21	21.32	21.09	
5	QPSK	1	24	21.11	21.26	21.12	
5	QPSK	12	0	20.34	20.34	20.40	21
5	QPSK	12	7	20.32	20.34	20.23	
5	QPSK	12	13	20.30	20.35	20.26	
5	QPSK	25	0	20.23	20.35	20.20	
5	16QAM	1	0	20.32	20.36	20.48	21
5	16QAM	1	12	20.21	20.33	20.48	
5	16QAM	1	24	20.17	20.13	20.26	
5	16QAM	12	0	19.17	19.21	19.40	20
5	16QAM	12	7	19.10	19.22	19.39	
5	16QAM	12	13	18.97	19.02	19.21	
5	16QAM	25	0	19.10	19.24	19.28	
5	64QAM	1	0	20.19	20.31	20.38	21
5	64QAM	1	12	20.23	20.38	20.28	
5	64QAM	1	24	20.30	20.35	20.20	
5	64QAM	12	0	19.30	19.43	19.28	20
5	64QAM	12	7	19.30	19.38	19.25	
5	64QAM	12	13	19.06	19.28	19.19	
5	64QAM	25	0	19.14	19.34	19.19	
Channel				18615	18900	19185	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	21.27	21.35	21.38	22
3	QPSK	1	8	21.20	21.31	21.10	
3	QPSK	1	14	21.06	21.25	21.12	
3	QPSK	8	0	20.36	20.38	20.35	21
3	QPSK	8	4	20.36	20.40	20.21	
3	QPSK	8	7	20.24	20.38	20.26	

3	QPSK	15	0	20.28	20.37	20.27	
3	16QAM	1	0	20.29	20.36	20.21	21
3	16QAM	1	8	20.28	20.26	20.32	
3	16QAM	1	14	20.30	20.35	20.32	
3	16QAM	8	0	19.32	19.43	19.40	20
3	16QAM	8	4	19.35	19.39	19.34	
3	16QAM	8	7	19.22	19.26	19.24	
3	16QAM	15	0	19.27	19.44	19.31	
3	64QAM	1	0	20.41	20.45	20.33	21
3	64QAM	1	8	20.17	20.44	20.29	
3	64QAM	1	14	20.35	20.31	20.13	
3	64QAM	8	0	19.37	19.39	19.27	20
3	64QAM	8	4	19.30	19.44	19.22	
3	64QAM	8	7	19.08	19.25	19.22	
3	64QAM	15	0	19.19	19.38	19.20	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	21.24	21.34	21.30	22
1.4	QPSK	1	3	21.28	21.33	21.11	
1.4	QPSK	1	5	21.09	21.27	21.11	
1.4	QPSK	3	0	21.34	21.40	21.34	
1.4	QPSK	3	1	21.36	21.41	21.19	
1.4	QPSK	3	3	21.31	21.29	21.25	
1.4	QPSK	6	0	20.25	20.36	20.22	21
1.4	16QAM	1	0	20.34	20.43	20.44	21
1.4	16QAM	1	3	20.25	20.34	20.49	
1.4	16QAM	1	5	20.35	20.33	20.25	
1.4	16QAM	3	0	20.39	20.46	20.44	
1.4	16QAM	3	1	20.30	20.40	20.37	
1.4	16QAM	3	3	20.25	20.31	20.20	
1.4	16QAM	6	0	19.35	19.45	19.30	20
1.4	64QAM	1	0	20.41	20.46	20.34	21
1.4	64QAM	1	3	20.18	20.44	20.26	
1.4	64QAM	1	5	20.32	20.28	20.14	
1.4	64QAM	3	0	20.31	20.39	20.33	
1.4	64QAM	3	1	20.31	20.38	20.18	
1.4	64QAM	3	3	20.04	20.32	20.23	
1.4	64QAM	6	0	19.14	19.38	19.18	20

5GHz WLAN ANT 1

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
5.2GHz WLAN ANT 1	802.11a 6Mbps	CH 36	5180	15.86	17.00	17.00	98.54
		CH 44	5220	**15.93**	17.00	17.00	
		CH 48	5240	15.60	16.50	17.00	
	802.11n-HT20 MCS0	CH 36	5180	15.29	16.00	16.50	98.44
		CH 44	5220	15.34	16.00	16.50	
		CH 48	5240	14.87	15.50	16.50	
	802.11n-HT40 MCS0	CH 38	5190	15.72	16.50	16.50	96.87
		CH 46	5230	15.59	16.50	16.50	
	802.11ac-VHT20 MCS0	CH 36	5180	15.64	16.50	17.00	98.45
		CH 44	5220	15.71	16.50	17.00	
		CH 48	5240	15.33	16.50	17.00	
	802.11ac-VHT40 MCS0	CH 38	5190	15.67	16.50	16.50	96.91
		CH 46	5230	15.54	16.50	16.50	
	802.11ac-VHT80 MCS0	CH 42	5210	15.58	16.50	16.50	93.88

5GHz WLAN ANT 1

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
5.3GHz WLAN ANT 1	802.11a 6Mbps	CH 52	5260	**14.69**	15.50	16.00	98.54
		CH 60	5300	14.56	15.50	16.00	
		CH 64	5320	14.15	15.00	16.00	
	802.11n-HT20 MCS0	CH 52	5260	14.13	15.00	15.50	98.44
		CH 60	5300	13.92	15.00	15.50	
		CH 64	5320	13.52	14.50	15.50	
	802.11n-HT40 MCS0	CH 54	5270	14.31	15.00	15.50	95.88
		CH 62	5310	14.13	15.00	15.50	
	802.11ac-VHT20 MCS0	CH 52	5260	14.49	15.50	16.00	98.45
		CH 60	5300	14.35	15.00	16.00	
		CH 64	5320	13.95	15.00	16.00	
	802.11ac-VHT40 MCS0	CH 54	5270	14.26	15.00	15.50	96.91
		CH 62	5310	14.15	15.00	15.50	
	802.11ac-VHT80 MCS0	CH 58	5290	14.17	15.00	15.50	93.88

5GHzWLAN ANT 1

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
5.5GHz WLAN ANT 1	802.11a 6Mbps	CH 100	5500	16.13	17.00	17.00	98.54
		CH 120	5600	**16.76**	17.50	17.00	
		CH 144	5720	16.29	17.00	17.00	
	802.11n-HT20 MCS0	CH 100	5500	15.63	16.50	16.50	97.93
		CH 120	5600	16.07	17.00	16.50	
		CH 144	5720	15.69	16.50	16.50	
	802.11n-HT40 MCS0	CH 102	5510	15.98	17.00	16.50	95.88
		CH 126	5630	16.50	17.50	16.50	
		CH 142	5710	16.10	17.00	16.50	
	802.11ac-VHT20 MCS0	CH 100	5500	15.89	16.50	17.00	98.45
		CH 120	5600	16.49	17.50	17.00	
		CH 144	5720	16.10	17.00	17.00	
	802.11ac-VHT40 MCS0	CH 102	5510	16.11	17.00	16.50	96.91
		CH 126	5630	16.03	17.00	16.50	
		CH 142	5710	15.79	16.50	16.50	
	802.11ac-VHT80 MCS0	CH 106	5530	15.84	16.50	16.50	92.00
		CH 122	5610	16.37	17.00	16.50	
		CH 138	5690	16.07	17.00	16.50	

5GHz WLAN ANT 1

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
5.8GHz WLAN ANT 1	802.11a 6Mbps	CH 149	5745	16.14	17.00	17.00	98.07
		CH 157	5785	16.13	17.00	17.00	
		CH 165	5825	**16.21**	17.00	17.00	
	802.11n-HT20 MCS0	CH 149	5745	15.49	16.50	16.50	98.44
		CH 157	5785	15.45	16.50	16.50	
		CH 165	5825	15.53	16.50	16.50	
	802.11n-HT40 MCS0	CH 151	5755	16.03	17.00	16.50	96.88
		CH 159	5795	15.81	16.50	16.50	
	802.11ac-VHT20 MCS0	CH 149	5745	15.97	17.00	17.00	97.94
		CH 157	5785	15.93	17.00	17.00	
		CH 165	5825	16.05	17.00	17.00	
	802.11ac-VHT40 MCS0	CH 151	5755	15.58	16.50	16.50	96.91
		CH 159	5795	15.17	16.00	16.50	
	802.11ac-VHT80 MCS0	CH 155	5775	15.70	16.50	16.50	93.88

Reduced Power Level 3

5GHz WLAN ANT 1

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
5.2GHz WLAN ANT 1	802.11a 6Mbps	CH 36	5180	13.86	15.00	15.00	98.54
		CH 44	5220	**13.93**	15.00	15.00	
		CH 48	5240	13.60	14.50	15.00	
	802.11n-HT20 MCS0	CH 36	5180	13.29	14.00	14.50	98.44
		CH 44	5220	13.34	14.00	14.50	
		CH 48	5240	12.87	13.50	14.50	
	802.11n-HT40 MCS0	CH 38	5190	13.72	14.50	14.50	96.87
		CH 46	5230	13.59	14.50	14.50	
	802.11ac-VHT20 MCS0	CH 36	5180	13.64	14.50	15.00	98.45
		CH 44	5220	13.71	14.50	15.00	
		CH 48	5240	13.33	14.50	15.00	
	802.11ac-VHT40 MCS0	CH 38	5190	13.67	14.50	14.50	96.91
		CH 46	5230	13.54	14.50	14.50	
	802.11ac-VHT80 MCS0	CH 42	5210	13.58	14.50	14.50	93.88

5GHz WLAN ANT 1

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
5.3GHz WLAN ANT 1	802.11a 6Mbps	CH 52	5260	**13.69**	14.50	15.00	98.54
		CH 60	5300	13.56	14.50	15.00	
		CH 64	5320	13.15	14.00	15.00	
	802.11n-HT20 MCS0	CH 52	5260	13.13	14.00	14.50	98.44
		CH 60	5300	12.92	14.00	14.50	
		CH 64	5320	12.52	13.50	14.50	
	802.11n-HT40 MCS0	CH 54	5270	13.31	14.00	14.50	95.88
		CH 62	5310	13.13	14.00	14.50	
	802.11ac-VHT20 MCS0	CH 52	5260	13.49	14.50	15.00	98.45
		CH 60	5300	13.35	14.00	15.00	
		CH 64	5320	12.95	14.00	15.00	
	802.11ac-VHT40 MCS0	CH 54	5270	13.26	14.00	14.50	96.91
		CH 62	5310	13.15	14.00	14.50	
	802.11ac-VHT80 MCS0	CH 58	5290	13.17	14.00	14.50	93.88

5GHzWLAN ANT 1

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
5.5GHz WLAN ANT 1	802.11a 6Mbps	CH 100	5500	15.63	16.50	16.50	98.54
		CH 120	5600	**16.26**	17.00	16.50	
		CH 144	5720	15.79	16.50	16.50	
	802.11n-HT20 MCS0	CH 100	5500	15.13	16.00	16.00	97.93
		CH 120	5600	15.57	16.50	16.00	
		CH 144	5720	15.19	16.00	16.00	
	802.11n-HT40 MCS0	CH 102	5510	15.48	16.50	16.00	95.88
		CH 126	5630	16.00	17.00	16.00	
		CH 142	5710	15.60	16.50	16.00	
	802.11ac-VHT20 MCS0	CH 100	5500	15.39	16.00	16.50	98.45
		CH 120	5600	15.99	17.00	16.50	
		CH 144	5720	15.60	16.50	16.50	
	802.11ac-VHT40 MCS0	CH 102	5510	15.61	16.50	16.00	96.91
		CH 126	5630	15.53	16.50	16.00	
		CH 142	5710	15.29	16.00	16.00	
	802.11ac-VHT80 MCS0	CH 106	5530	15.34	16.00	16.00	92.00
		CH 122	5610	15.87	16.50	16.00	
		CH 138	5690	15.57	16.50	16.00	

5GHz WLAN ANT 1

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
5.8GHz WLAN ANT 1	802.11a 6Mbps	CH 149	5745	16.14	17.00	17.00	98.07
		CH 157	5785	16.13	17.00	17.00	
		CH 165	5825	**16.21**	17.00	17.00	
	802.11n-HT20 MCS0	CH 149	5745	15.49	16.50	16.50	98.44
		CH 157	5785	15.45	16.50	16.50	
		CH 165	5825	15.53	16.50	16.50	
	802.11n-HT40 MCS0	CH 151	5755	16.03	17.00	16.50	96.88
		CH 159	5795	15.81	16.50	16.50	
	802.11ac-VHT20 MCS0	CH 149	5745	15.97	17.00	17.00	97.94
		CH 157	5785	15.93	17.00	17.00	
		CH 165	5825	16.05	17.00	17.00	
	802.11ac-VHT40 MCS0	CH 151	5755	15.58	16.50	16.50	96.91
		CH 159	5795	15.17	16.00	16.50	
	802.11ac-VHT80 MCS0	CH 155	5775	15.70	16.50	16.50	93.88

Reduced Power Level 4

5GHz WLAN ANT 1

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
5.2GHz WLAN ANT 1	802.11a 6Mbps	CH 36	5180	14.86	16.00	16.00	98.54
		CH 44	5220	**14.93**	16.00	16.00	
		CH 48	5240	14.60	15.50	16.00	
	802.11n-HT20 MCS0	CH 36	5180	14.29	15.00	15.50	98.44
		CH 44	5220	14.34	15.00	15.50	
		CH 48	5240	13.87	14.50	15.50	
	802.11n-HT40 MCS0	CH 38	5190	14.72	15.50	15.50	96.87
		CH 46	5230	14.59	15.50	15.50	
	802.11ac-VHT20 MCS0	CH 36	5180	14.64	15.50	16.00	98.45
		CH 44	5220	14.71	15.50	16.00	
		CH 48	5240	14.33	15.50	16.00	
	802.11ac-VHT40 MCS0	CH 38	5190	14.67	15.50	15.50	96.91
		CH 46	5230	14.54	15.50	15.50	
	802.11ac-VHT80 MCS0	CH 42	5210	14.58	15.50	15.50	93.88

5GHz WLAN ANT 1

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
5.3GHz WLAN ANT 1	802.11a 6Mbps	CH 52	5260	**13.69**	14.50	15.00	98.54
		CH 60	5300	13.56	14.50	15.00	
		CH 64	5320	13.15	14.00	15.00	
	802.11n-HT20 MCS0	CH 52	5260	13.13	14.00	14.50	98.44
		CH 60	5300	12.92	14.00	14.50	
		CH 64	5320	12.52	13.50	14.50	
	802.11n-HT40 MCS0	CH 54	5270	13.31	14.00	14.50	95.88
		CH 62	5310	13.13	14.00	14.50	
	802.11ac-VHT20 MCS0	CH 52	5260	13.49	14.50	15.00	98.45
		CH 60	5300	13.35	14.00	15.00	
		CH 64	5320	12.95	14.00	15.00	
	802.11ac-VHT40 MCS0	CH 54	5270	13.26	14.00	14.50	96.91
		CH 62	5310	13.15	14.00	14.50	
	802.11ac-VHT80 MCS0	CH 58	5290	13.17	14.00	14.50	93.88

5GHzWLAN ANT 1

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
5.5GHz WLAN ANT 1	802.11a 6Mbps	CH 100	5500	14.63	15.50	15.50	98.54
		CH 120	5600	**15.26**	16.00	15.50	
		CH 144	5720	14.79	15.50	15.50	
	802.11n-HT20 MCS0	CH 100	5500	14.13	15.00	15.00	97.93
		CH 120	5600	14.57	15.50	15.00	
		CH 144	5720	14.19	15.00	15.00	
	802.11n-HT40 MCS0	CH 102	5510	14.48	15.50	15.00	95.88
		CH 126	5630	15.00	16.00	15.00	
		CH 142	5710	14.60	15.50	15.00	
	802.11ac-VHT20 MCS0	CH 100	5500	14.39	15.00	15.50	98.45
		CH 120	5600	14.99	16.00	15.50	
		CH 144	5720	14.60	15.50	15.50	
	802.11ac-VHT40 MCS0	CH 102	5510	14.61	15.50	15.00	96.91
		CH 126	5630	14.53	15.50	15.00	
		CH 142	5710	14.29	15.00	15.00	
	802.11ac-VHT80 MCS0	CH 106	5530	14.34	15.00	15.00	92.00
		CH 122	5610	14.87	15.50	15.00	
		CH 138	5690	14.57	15.50	15.00	

5GHz WLAN ANT 1

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
5.8GHz WLAN ANT 1	802.11a 6Mbps	CH 149	5745	15.14	16.00	16.00	98.07
		CH 157	5785	15.13	16.00	16.00	
		CH 165	5825	**15.21**	16.00	16.00	
	802.11n-HT20 MCS0	CH 149	5745	14.49	15.50	15.50	98.44
		CH 157	5785	14.45	15.50	15.50	
		CH 165	5825	14.53	15.50	15.50	
	802.11n-HT40 MCS0	CH 151	5755	15.03	16.00	15.50	96.88
		CH 159	5795	14.81	15.50	15.50	
	802.11ac-VHT20 MCS0	CH 149	5745	14.97	16.00	16.00	97.94
		CH 157	5785	14.93	16.00	16.00	
		CH 165	5825	15.05	16.00	16.00	
	802.11ac-VHT40 MCS0	CH 151	5755	14.58	15.50	15.50	96.91
		CH 159	5795	14.17	15.00	15.50	
	802.11ac-VHT80 MCS0	CH 155	5775	14.70	15.50	15.50	93.88