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	32.47	32.14	32.18	33.50	23.47	23.14	23.18	24.50	0.34
GPRS 1 Tx slot	32.45	32.13	32.17	33.50	23.45	23.13	23.17	24.50	
GPRS 2 Tx slots	31.27	31.11	31.20	32.50	25.27	25.11	25.20	26.50	0.16
GPRS 3 Tx slots	29.22	29.11	29.17	30.50	24.96	24.85	24.91	26.24	0.11
GPRS 4 Tx slots	27.09	27.00	27.04	28.50	24.09	24.00	24.04	25.50	0.09
EDGE 1 Tx slot	26.59	26.55	26.58	27.50	17.59	17.55	17.58	18.50	0.04
EDGE 2 Tx slots	25.50	25.49	25.17	26.50	19.50	19.49	19.17	20.50	0.33
EDGE 3 Tx slots	23.41	23.44	23.40	24.50	19.15	19.18	19.14	20.24	0.04
EDGE 4 Tx slots	21.31	21.36	21.28	22.00	18.31	18.36	18.28	19.00	0.08
Mode		Max.	32.47			Max.	25.27		
Attenuator	Cable Loss :								

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	27.55	27.39	27.60	28.50	18.55	18.39	18.60	19.50	0.29
GPRS 1 Tx slot	27.47	27.31	27.55	28.50	18.47	18.31	18.55	19.50	
GPRS 2 Tx slots	26.13	26.23	26.55	27.50	20.13	20.23	20.55	21.50	0.42
GPRS 3 Tx slots	23.87	23.92	24.20	25.00	19.61	19.66	19.94	20.74	0.33
GPRS 4 Tx slots	22.22	21.96	22.23	23.00	19.22	18.96	19.23	20.00	0.27
EDGE 1 Tx slot	23.91	23.88	24.03	25.00	14.91	14.88	15.03	16.00	0.15
EDGE 2 Tx slots	22.28	22.17	22.31	23.00	16.28	16.17	16.31	17.00	0.14
EDGE 3 Tx slots	20.15	20.07	20.17	21.00	15.89	15.81	15.91	16.74	0.10
EDGE 4 Tx slots	18.21	18.00	18.13	19.00	15.21	15.00	15.13	16.00	0.21
Mode		Max.	27.60			Max.	20.55		
Attenuator	Cable Loss :								

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	22.96	23.13	23.17	24.00	23.27	23.24	23.29	24.00	23.17	23.13	23.27	24.00
3GPP Rel 6	HSDPA Subtest-1	21.78	21.94	21.92	22.50	22.06	22.04	21.97	22.50	22.02	22.05	21.98	22.50
3GPP Rel 6	HSDPA Subtest-2	21.73	21.92	21.98	22.50	22.10	22.08	21.92	22.50	22.05	22.15	21.96	22.50
3GPP Rel 6	HSDPA Subtest-3	21.31	21.45	21.45	22.00	21.54	21.50	21.50	22.00	21.55	21.54	21.41	22.00
3GPP Rel 6	HSDPA Subtest-4	21.30	21.43	21.52	22.00	21.57	21.51	21.46	22.00	21.49	21.61	21.51	22.00
3GPP Rel 8	DC-HSDPA Subtest-1	21.46	21.57	21.61	22.00	21.64	21.72	21.79	22.50	22.04	22.12	22.08	23.00
3GPP Rel 8	DC-HSDPA Subtest-2	21.39	21.49	21.54	22.00	21.58	21.75	21.78	22.50	21.30	21.34	21.36	22.00
3GPP Rel 8	DC-HSDPA Subtest-3	21.00	21.49	21.42	21.50	21.47	21.67	21.70	22.00	22.03	22.09	22.06	23.00
3GPP Rel 8	DC-HSDPA Subtest-4	20.99	21.06	21.04	21.50	21.14	21.33	21.18	22.00	21.78	21.85	21.80	22.50
3GPP Rel 6	HSUPA Subtest-1	21.85	21.96	21.97	22.50	22.17	22.10	21.92	23.00	22.01	22.14	22.02	23.00
3GPP Rel 6	HSUPA Subtest-2	21.23	21.41	21.46	22.00	21.58	21.55	21.40	22.00	21.56	21.63	21.49	22.00
3GPP Rel 6	HSUPA Subtest-3	21.82	21.91	21.93	22.50	22.07	22.03	21.97	23.00	22.03	22.12	21.99	23.00
3GPP Rel 6	HSUPA Subtest-4	21.74	21.87	21.91	20.50	22.07	22.08	21.96	23.00	22.00	22.08	21.97	23.00
3GPP Rel 6	HSUPA Subtest-5	21.77	21.94	22.00	22.50	22.06	22.09	22.06	23.00	22.01	22.07	22.00	23.00
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	21.26	21.50	21.48	22.00	21.56	21.52	21.41	22.00	21.50	21.58	21.51	22.00
Attenuator			Cable Loss				Cable Loss				Cable Loss		
Mode			Max.	23.17			Max.	23.29			Max.	23.27	

Band	CDMA2000 BC0			Tune-up Limit (dBm)	CDMA2000 BC1			Tune-up Limit (dBm)	BC0	BC1
TX Channel	1013	384	777		25	600	1175		Ch Delta > 0.5	
Frequency (MHz)	824.7	836.52	848.31		1851.25	1880	1908.75			
RC1 SO55	23.69	23.55	23.51	24.50	23.35	23.41	23.45	24.50	0.32	0.36
RC3 SO55	23.71	23.65	23.73	24.50	23.53	23.51	23.49	24.50		
RC3 SO32 (F+SCH)	23.79	23.60	23.70	24.50	23.56	23.71	23.64	24.50		
RC3 SO32 (+SCH)	23.66	23.47	23.62	24.50	23.55	23.59	23.47	24.50		
Attenuator		Cable Loss	0.6			Cable Loss	0.8			
Mode		Max.	23.79			Max.	23.71			

Band 2 (1900MHz Band)
Part 24E

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				18700	18900	19100	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	22.99	23.03	22.97	24
20	QPSK	1	49	22.78	22.83	22.80	
20	QPSK	1	99	22.64	22.72	22.65	
20	QPSK	50	0	22.02	22.13	22.03	23
20	QPSK	50	24	21.96	22.08	21.97	
20	QPSK	50	50	21.90	22.03	21.90	
20	QPSK	100	0	21.84	21.97	21.85	
20	16QAM	1	0	22.32	22.37	22.44	23
20	16QAM	1	49	22.20	22.27	22.38	
20	16QAM	1	99	22.08	22.17	22.29	
20	16QAM	50	0	21.79	21.80	21.99	23
20	16QAM	50	24	21.72	21.73	21.94	
20	16QAM	50	50	21.66	21.66	21.88	
20	16QAM	100	0	21.59	21.60	21.83	
20	64QAM	1	0	22.30	22.27	22.29	23
20	64QAM	1	49	22.22	22.24	22.23	
20	64QAM	1	99	22.07	22.04	22.09	
20	64QAM	50	0	21.82	21.77	21.89	23
20	64QAM	50	24	21.76	21.72	21.83	
20	64QAM	50	50	21.70	21.65	21.77	
20	64QAM	100	0	21.63	21.59	21.71	
Channel				18675	18900	19125	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	22.94	22.97	22.91	24
15	QPSK	1	37	22.74	22.80	22.76	
15	QPSK	1	74	22.59	22.67	22.60	
15	QPSK	36	0	21.96	22.09	21.99	23
15	QPSK	36	20	21.90	22.03	21.92	
15	QPSK	36	39	21.85	21.98	21.86	
15	QPSK	75	0	21.79	21.93	21.80	
15	16QAM	1	0	22.28	22.33	22.38	23
15	16QAM	1	37	22.17	22.24	22.35	
15	16QAM	1	74	22.04	22.12	22.25	
15	16QAM	36	0	21.76	21.77	21.94	23
15	16QAM	36	20	21.67	21.70	21.91	
15	16QAM	36	39	21.63	21.61	21.82	
15	16QAM	75	0	21.55	21.54	21.80	
15	64QAM	1	0	22.25	22.22	22.26	23
15	64QAM	1	37	22.18	22.19	22.18	
15	64QAM	1	74	22.03	21.99	22.05	
15	64QAM	36	0	21.77	21.73	21.85	23
15	64QAM	36	20	21.72	21.69	21.78	
15	64QAM	36	39	21.65	21.59	21.73	
15	64QAM	75	0	21.57	21.55	21.66	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	22.89	22.94	22.87	24
10	QPSK	1	25	22.68	22.75	22.70	
10	QPSK	1	49	22.55	22.63	22.55	
10	QPSK	25	0	21.93	22.05	21.96	23
10	QPSK	25	12	21.84	21.99	21.87	
10	QPSK	25	25	21.81	21.93	21.82	
10	QPSK	50	0	21.75	21.90	21.76	
10	16QAM	1	0	22.24	22.29	22.34	23
10	16QAM	1	25	22.12	22.19	22.32	
10	16QAM	1	49	21.99	22.09	22.21	
10	16QAM	25	0	21.71	21.72	21.88	23
10	16QAM	25	12	21.63	21.64	21.85	
10	16QAM	25	25	21.58	21.56	21.79	
10	16QAM	50	0	21.49	21.48	21.75	
10	64QAM	1	0	22.20	22.18	22.21	23
10	64QAM	1	25	22.13	22.15	22.14	
10	64QAM	1	49	21.98	21.95	22.02	
10	64QAM	25	0	21.73	21.70	21.81	23
10	64QAM	25	12	21.67	21.65	21.75	
10	64QAM	25	25	21.59	21.55	21.67	
10	64QAM	50	0	21.53	21.51	21.60	
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	22.90	22.91	22.86	24
5	QPSK	1	12	22.70	22.75	22.72	
5	QPSK	1	24	22.56	22.62	22.57	
5	QPSK	12	0	21.93	22.05	21.94	23
5	QPSK	12	7	21.87	21.98	21.87	
5	QPSK	12	13	21.80	21.93	21.82	
5	QPSK	25	0	21.74	21.90	21.76	
5	16QAM	1	0	22.24	22.27	22.34	23
5	16QAM	1	12	22.12	22.19	22.31	
5	16QAM	1	24	22.01	22.07	22.21	
5	16QAM	12	0	21.71	21.74	21.88	23
5	16QAM	12	7	21.63	21.67	21.85	
5	16QAM	12	13	21.59	21.57	21.79	
5	16QAM	25	0	21.51	21.51	21.76	
5	64QAM	1	0	22.21	22.17	22.21	23
5	64QAM	1	12	22.15	22.15	22.13	
5	64QAM	1	24	22.00	21.94	22.01	
5	64QAM	12	0	21.72	21.67	21.80	23
5	64QAM	12	7	21.67	21.63	21.75	
5	64QAM	12	13	21.62	21.56	21.69	
5	64QAM	25	0	21.53	21.50	21.63	
Channel				18615	18900	19185	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	22.85	22.87	22.83	24
3	QPSK	1	8	22.66	22.70	22.68	
3	QPSK	1	14	22.50	22.57	22.53	
3	QPSK	8	0	21.90	22.02	21.89	23
3	QPSK	8	4	21.84	21.95	21.83	
3	QPSK	8	7	21.77	21.88	21.78	
3	QPSK	15	0	21.70	21.86	21.72	
3	16QAM	1	0	22.19	22.22	22.29	

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

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20050	20175	20300	
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	23.18	23.22	23.20	24
20	QPSK	1	49	22.98	22.94	23.01	
20	QPSK	1	99	22.87	22.84	22.85	
20	QPSK	50	0	22.14	22.15	22.13	23
20	QPSK	50	24	22.08	22.03	22.07	
20	QPSK	50	50	22.03	21.96	22.01	
20	QPSK	100	0	21.97	21.99	21.96	
20	16QAM	1	0	22.48	22.49	22.40	23
20	16QAM	1	49	22.35	22.34	22.27	
20	16QAM	1	99	22.23	22.25	22.17	
20	16QAM	50	0	21.98	21.96	21.87	22
20	16QAM	50	24	21.93	21.90	21.81	
20	16QAM	50	50	21.86	21.84	21.75	
20	16QAM	100	0	21.80	21.77	21.68	
20	64QAM	1	0	22.30	22.39	22.24	23
20	64QAM	1	49	22.20	22.22	22.16	
20	64QAM	1	99	22.13	22.13	22.03	
20	64QAM	50	0	22.02	22.08	21.96	23
20	64QAM	50	24	21.96	22.02	21.90	
20	64QAM	50	50	21.90	21.97	21.85	
20	64QAM	100	0	21.84	21.90	21.79	
Channel				20025	20175	20325	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	23.14	23.17	23.15	24
15	QPSK	1	37	22.93	22.91	22.97	
15	QPSK	1	74	22.81	22.80	22.79	
15	QPSK	36	0	22.10	22.10	22.08	23
15	QPSK	36	20	22.03	21.99	22.01	
15	QPSK	36	39	21.98	21.91	21.98	
15	QPSK	75	0	21.94	21.95	21.93	
15	16QAM	1	0	22.45	22.43	22.37	23
15	16QAM	1	37	22.31	22.29	22.22	
15	16QAM	1	74	22.19	22.19	22.14	
15	16QAM	36	0	21.93	21.90	21.83	22
15	16QAM	36	20	21.90	21.86	21.75	
15	16QAM	36	39	21.83	21.78	21.71	
15	16QAM	75	0	21.76	21.71	21.64	
15	64QAM	1	0	22.26	22.36	22.21	23
15	64QAM	1	37	22.14	22.17	22.10	
15	64QAM	1	74	22.08	22.08	21.98	
15	64QAM	36	0	21.97	22.02	21.90	23
15	64QAM	36	20	21.91	21.97	21.86	
15	64QAM	36	39	21.87	21.94	21.82	
15	64QAM	75	0	21.79	21.86	21.74	
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	23.13	23.17	23.16	24
10	QPSK	1	25	22.93	22.90	22.98	
10	QPSK	1	49	22.83	22.79	22.82	
10	QPSK	25	0	22.09	22.11	22.09	23
10	QPSK	25	12	22.03	22.00	22.03	
10	QPSK	25	25	21.99	21.91	21.96	
10	QPSK	50	0	21.91	21.93	21.91	
10	16QAM	1	0	22.43	22.44	22.36	23
10	16QAM	1	25	22.31	22.31	22.23	
10	16QAM	1	49	22.19	22.19	22.13	
10	16QAM	25	0	21.95	21.92	21.82	22
10	16QAM	25	12	21.90	21.86	21.77	
10	16QAM	25	25	21.82	21.79	21.70	
10	16QAM	50	0	21.76	21.72	21.62	
10	64QAM	1	0	22.25	22.35	22.19	23
10	64QAM	1	25	22.15	22.18	22.11	
10	64QAM	1	49	22.09	22.08	21.99	
10	64QAM	25	0	21.99	22.05	21.91	23
10	64QAM	25	12	21.92	21.99	21.86	
10	64QAM	25	25	21.86	21.94	21.82	
10	64QAM	50	0	21.80	21.85	21.76	
Channel				19975	20175	20375	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	23.08	23.13	23.11	24
5	QPSK	1	12	22.89	22.84	22.94	
5	QPSK	1	24	22.77	22.73	22.79	
5	QPSK	12	0	22.06	22.06	22.05	23
5	QPSK	12	7	21.98	21.96	21.99	
5	QPSK	12	13	21.93	21.88	21.93	
5	QPSK	25	0	21.85	21.88	21.87	
5	16QAM	1	0	22.38	22.39	22.33	23
5	16QAM	1	12	22.28	22.26	22.18	
5	16QAM	1	24	22.15	22.14	22.09	
5	16QAM	12	0	21.89	21.86	21.79	22
5	16QAM	12	7	21.86	21.81	21.72	
5	16QAM	12	13	21.76	21.74	21.66	
5	16QAM	25	0	21.72	21.68	21.56	
5	64QAM	1	0	22.22	22.30	22.15	23
5	64QAM	1	12	22.10	22.14	22.07	
5	64QAM	1	24	22.06	22.03	21.95	
5	64QAM	12	0	21.94	22.00	21.86	23
5	64QAM	12	7	21.88	21.94	21.81	
5	64QAM	12	13	21.81	21.90	21.77	
5	64QAM	25	0	21.75	21.80	21.71	
Channel				19965	20175	20385	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1732.5	1753.5	
3	QPSK	1	0	23.08	23.11	23.11	24
3	QPSK	1	8	22.88	22.85	22.93	
3	QPSK	1	14	22.80	22.75	22.78	
3	QPSK	8	0	22.03	22.06	22.06	23
3	QPSK	8	4	21.97	21.95	21.99	
3	QPSK	8	7	21.93	21.87	21.92	
3	QPSK	15	0	21.86	21.88	21.86	
3	16QAM	1	0	22.40	22.39	22.33	

3	16QAM	1	8	22.08	22.14	22.26	23
3	16QAM	1	14	21.96	22.03	22.18	
3	16QAM	8	0	21.66	21.68	21.85	23
3	16QAM	8	4	21.59	21.62	21.81	
3	16QAM	8	7	21.53	21.53	21.74	
3	16QAM	15	0	21.48	21.47	21.72	
3	64QAM	1	0	22.17	22.12	22.17	23
3	64QAM	1	8	22.11	22.10	22.08	
3	64QAM	1	14	21.96	21.90	21.96	
3	64QAM	8	0	21.67	21.64	21.77	23
3	64QAM	8	4	21.61	21.57	21.71	
3	64QAM	8	7	21.58	21.51	21.65	
3	64QAM	15	0	21.49	21.46	21.59	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	22.81	22.81	22.77	24
1.4	QPSK	1	3	22.63	22.66	22.65	
1.4	QPSK	1	5	22.50	22.54	22.49	
1.4	QPSK	3	0	21.85	21.97	21.87	
1.4	QPSK	3	1	21.76	21.91	21.78	
1.4	QPSK	3	3	21.72	21.84	21.76	
1.4	QPSK	6	0	21.65	21.82	21.67	23
1.4	16QAM	1	0	22.12	22.19	22.26	23
1.4	16QAM	1	3	22.03	22.09	22.20	
1.4	16QAM	1	5	21.92	21.99	22.13	
1.4	16QAM	3	0	21.62	21.66	21.76	
1.4	16QAM	3	1	21.53	21.59	21.73	
1.4	16QAM	3	3	21.51	21.49	21.72	
1.4	16QAM	6	0	21.43	21.42	21.68	23
1.4	64QAM	1	0	22.12	22.07	22.10	23
1.4	64QAM	1	3	22.07	22.05	22.03	
1.4	64QAM	1	5	21.90	21.86	21.93	
1.4	64QAM	3	0	21.65	21.59	21.70	
1.4	64QAM	3	1	21.56	21.54	21.64	
1.4	64QAM	3	3	21.55	21.49	21.61	
1.4	64QAM	6	0	21.44	21.42	21.52	23

3	16QAM	1	8	22.28	22.27	22.19	23
3	16QAM	1	14	22.14	22.14	22.08	
3	16QAM	8	0	21.92	21.89	21.77	22
3	16QAM	8	4	21.85	21.82	21.72	
3	16QAM	8	7	21.77	21.75	21.67	
3	16QAM	15	0	21.71	21.69	21.59	
3	64QAM	1	0	22.20	22.31	22.15	23
3	64QAM	1	8	22.11	22.14	22.05	
3	64QAM	1	14	22.06	22.05	21.96	
3	64QAM	8	0	21.95	21.99	21.87	23
3	64QAM	8	4	21.88	21.94	21.83	
3	64QAM	8	7	21.82	21.91	21.76	
3	64QAM	15	0	21.75	21.80	21.70	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	23.02	23.08	23.06	24
1.4	QPSK	1	3	22.83	22.80	22.89	
1.4	QPSK	1	5	22.75	22.71	22.74	
1.4	QPSK	3	0	21.99	22.01	22.02	
1.4	QPSK	3	1	21.92	21.91	21.93	
1.4	QPSK	3	3	21.88	21.82	21.86	
1.4	QPSK	6	0	21.81	21.84	21.81	23
1.4	16QAM	1	0	22.37	22.34	22.27	23
1.4	16QAM	1	3	22.24	22.22	22.14	
1.4	16QAM	1	5	22.10	22.10	22.03	
1.4	16QAM	3	0	21.89	21.86	21.73	
1.4	16QAM	3	1	21.81	21.77	21.68	
1.4	16QAM	3	3	21.73	21.70	21.61	
1.4	16QAM	6	0	21.65	21.63	21.56	23
1.4	64QAM	1	0	22.17	22.25	22.11	23
1.4	64QAM	1	3	22.06	22.11	21.99	
1.4	64QAM	1	5	22.01	22.01	21.93	
1.4	64QAM	3	0	21.91	21.94	21.84	
1.4	64QAM	3	1	21.85	21.91	21.79	
1.4	64QAM	3	3	21.77	21.88	21.71	
1.4	64QAM	6	0	21.70	21.76	21.66	23

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

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20450	20525	20600	
Frequency (MHz)				829	836.5	844	
10	QPSK	1	0	23.09	23.19	23.17	24
10	QPSK	1	25	22.85	22.90	22.92	
10	QPSK	1	49	22.69	22.84	22.83	
10	QPSK	25	0	22.11	22.28	22.26	23
10	QPSK	25	12	22.05	22.18	22.20	
10	QPSK	25	25	21.98	22.12	22.13	
10	QPSK	50	0	21.93	22.09	22.07	
10	16QAM	1	0	22.59	22.69	22.66	23
10	16QAM	1	25	22.47	22.50	22.51	
10	16QAM	1	49	22.30	22.37	22.35	
10	16QAM	25	0	21.90	21.98	21.97	23
10	16QAM	25	12	21.84	21.92	21.90	
10	16QAM	25	25	21.78	21.86	21.84	
10	16QAM	50	0	21.73	21.80	21.79	
10	64QAM	1	0	22.21	22.35	22.34	23
10	64QAM	1	25	22.14	22.16	22.26	
10	64QAM	1	49	21.99	22.02	22.12	
10	64QAM	25	0	21.84	21.90	22.07	23
10	64QAM	25	12	21.79	21.83	22.01	
10	64QAM	25	25	21.72	21.78	21.94	
10	64QAM	50	0	21.66	21.72	21.87	
Channel				20425	20525	20625	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	QPSK	1	0	23.04	23.15	23.12	24
5	QPSK	1	12	22.81	22.85	22.86	
5	QPSK	1	24	22.64	22.81	22.77	
5	QPSK	12	0	22.05	22.23	22.21	23
5	QPSK	12	7	22.01	22.12	22.15	
5	QPSK	12	13	21.93	22.08	22.09	
5	QPSK	25	0	21.89	22.03	22.03	
5	16QAM	1	0	22.54	22.63	22.61	23
5	16QAM	1	12	22.43	22.45	22.47	
5	16QAM	1	24	22.25	22.33	22.30	
5	16QAM	12	0	21.86	21.95	21.93	23
5	16QAM	12	7	21.81	21.87	21.87	
5	16QAM	12	13	21.74	21.81	21.80	
5	16QAM	25	0	21.68	21.75	21.75	
5	64QAM	1	0	22.18	22.30	22.28	23
5	64QAM	1	12	22.11	22.11	22.23	
5	64QAM	1	24	21.94	21.97	22.07	
5	64QAM	12	0	21.78	21.87	22.03	23
5	64QAM	12	7	21.74	21.79	21.96	
5	64QAM	12	13	21.69	21.73	21.89	
5	64QAM	25	0	21.63	21.68	21.82	
Channel				20415	20525	20635	Tune-up limit (dBm)
Frequency (MHz)				825.5	836.5	847.5	
3	QPSK	1	0	23.03	23.15	23.11	24
3	QPSK	1	8	22.79	22.85	22.87	
3	QPSK	1	14	22.63	22.79	22.79	
3	QPSK	8	0	22.06	22.25	22.22	23
3	QPSK	8	4	22.02	22.14	22.15	
3	QPSK	8	7	21.92	22.06	22.08	
3	QPSK	15	0	21.88	22.03	22.04	
3	16QAM	1	0	22.54	22.63	22.63	23
3	16QAM	1	8	22.42	22.45	22.47	
3	16QAM	1	14	22.24	22.33	22.30	
3	16QAM	8	0	21.86	21.94	21.92	23
3	16QAM	8	4	21.78	21.89	21.86	
3	16QAM	8	7	21.74	21.82	21.80	
3	16QAM	15	0	21.70	21.77	21.75	
3	64QAM	1	0	22.18	22.30	22.30	23
3	64QAM	1	8	22.10	22.10	22.22	
3	64QAM	1	14	21.95	21.96	22.09	
3	64QAM	8	0	21.79	21.85	22.02	23
3	64QAM	8	4	21.75	21.78	21.97	
3	64QAM	8	7	21.67	21.74	21.90	
3	64QAM	15	0	21.61	21.69	21.83	
Channel				20407	20525	20643	Tune-up limit (dBm)
Frequency (MHz)				824.7	836.5	848.3	
1.4	QPSK	1	0	22.95	23.06	23.02	24
1.4	QPSK	1	3	22.69	22.77	22.78	
1.4	QPSK	1	5	22.53	22.69	22.71	
1.4	QPSK	3	0	21.96	22.14	22.13	
1.4	QPSK	3	1	21.93	22.06	22.06	
1.4	QPSK	3	3	21.83	21.96	21.97	
1.4	QPSK	6	0	21.79	21.94	21.95	23
1.4	16QAM	1	0	22.44	22.53	22.52	23
1.4	16QAM	1	3	22.33	22.36	22.37	
1.4	16QAM	1	5	22.16	22.23	22.20	
1.4	16QAM	3	0	21.76	21.83	21.82	
1.4	16QAM	3	1	21.68	21.80	21.77	
1.4	16QAM	3	3	21.64	21.73	21.70	
1.4	16QAM	6	0	21.59	21.67	21.66	23
1.4	64QAM	1	0	22.09	22.20	22.20	23
1.4	64QAM	1	3	22.01	22.00	22.12	
1.4	64QAM	1	5	21.85	21.86	22.00	
1.4	64QAM	3	0	21.70	21.76	21.94	
1.4	64QAM	3	1	21.66	21.68	21.88	
1.4	64QAM	3	3	21.57	21.65	21.80	
1.4	64QAM	6	0	21.50	21.59	21.74	23

Band 7 (2600MHz Band)
Part 27

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20850	21100	21350	
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	23.02	23.04	22.99	24
20	QPSK	1	49	22.83	22.86	22.84	
20	QPSK	1	99	22.70	22.79	22.70	
20	QPSK	50	0	22.05	22.15	22.04	23
20	QPSK	50	24	22.00	22.09	21.98	
20	QPSK	50	50	21.94	22.04	21.92	
20	QPSK	100	0	21.87	21.98	21.86	
20	16QAM	1	0	22.57	22.58	22.55	23
20	16QAM	1	49	22.52	22.45	22.49	
20	16QAM	1	99	22.45	22.39	22.39	
20	16QAM	50	0	21.98	21.88	21.89	22
20	16QAM	50	24	21.93	21.83	21.84	
20	16QAM	50	50	21.86	21.77	21.79	
20	16QAM	100	0	21.79	21.70	21.73	
20	64QAM	1	0	22.33	22.48	22.30	23
20	64QAM	1	49	22.17	22.32	22.15	
20	64QAM	1	99	22.11	22.17	22.02	
20	64QAM	50	0	21.70	21.77	21.68	23
20	64QAM	50	24	21.64	21.72	21.61	
20	64QAM	50	50	21.58	21.65	21.55	
20	64QAM	100	0	21.52	21.59	21.48	
Channel				20825	21100	21375	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	22.98	22.98	22.95	24
15	QPSK	1	37	22.77	22.80	22.79	
15	QPSK	1	74	22.66	22.75	22.66	
15	QPSK	36	0	22.02	22.10	21.99	23
15	QPSK	36	20	21.96	22.06	21.92	
15	QPSK	36	39	21.89	22.01	21.86	
15	QPSK	75	0	21.84	21.94	21.81	
15	16QAM	1	0	22.52	22.52	22.50	23
15	16QAM	1	37	22.47	22.40	22.46	
15	16QAM	1	74	22.40	22.34	22.36	
15	16QAM	36	0	21.94	21.84	21.84	22
15	16QAM	36	20	21.87	21.78	21.80	
15	16QAM	36	39	21.81	21.73	21.74	
15	16QAM	75	0	21.74	21.67	21.69	
15	64QAM	1	0	22.29	22.42	22.27	23
15	64QAM	1	37	22.13	22.26	22.10	
15	64QAM	1	74	22.08	22.11	21.97	
15	64QAM	36	0	21.66	21.74	21.62	23
15	64QAM	36	20	21.61	21.66	21.56	
15	64QAM	36	39	21.54	21.62	21.51	
15	64QAM	75	0	21.46	21.55	21.45	
Channel				20800	21100	21400	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	22.93	22.94	22.90	24
10	QPSK	1	25	22.74	22.75	22.74	
10	QPSK	1	49	22.62	22.72	22.62	
10	QPSK	25	0	21.98	22.04	21.94	23
10	QPSK	25	12	21.91	22.02	21.88	
10	QPSK	25	25	21.85	21.96	21.81	
10	QPSK	50	0	21.79	21.90	21.78	
10	16QAM	1	0	22.47	22.47	22.45	23
10	16QAM	1	25	22.42	22.35	22.40	
10	16QAM	1	49	22.34	22.29	22.32	
10	16QAM	25	0	21.88	21.78	21.80	22
10	16QAM	25	12	21.82	21.72	21.74	
10	16QAM	25	25	21.75	21.69	21.69	
10	16QAM	50	0	21.70	21.63	21.65	
10	64QAM	1	0	22.25	22.37	22.23	23
10	64QAM	1	25	22.10	22.22	22.06	
10	64QAM	1	49	22.03	22.08	21.92	
10	64QAM	25	0	21.61	21.70	21.57	23
10	64QAM	25	12	21.55	21.62	21.52	
10	64QAM	25	25	21.51	21.56	21.47	
10	64QAM	50	0	21.42	21.49	21.40	
Channel				20775	21100	21425	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	22.88	22.90	22.85	24
5	QPSK	1	12	22.71	22.72	22.69	
5	QPSK	1	24	22.58	22.67	22.58	
5	QPSK	12	0	21.92	21.98	21.88	23
5	QPSK	12	7	21.86	21.98	21.82	
5	QPSK	12	13	21.82	21.93	21.76	
5	QPSK	25	0	21.75	21.84	21.74	
5	16QAM	1	0	22.41	22.44	22.40	23
5	16QAM	1	12	22.39	22.31	22.37	
5	16QAM	1	24	22.30	22.23	22.29	
5	16QAM	12	0	21.84	21.75	21.75	22
5	16QAM	12	7	21.78	21.68	21.68	
5	16QAM	12	13	21.70	21.64	21.65	
5	16QAM	25	0	21.65	21.58	21.60	
5	64QAM	1	0	22.21	22.33	22.18	23
5	64QAM	1	12	22.04	22.18	22.00	
5	64QAM	1	24	21.98	22.04	21.89	
5	64QAM	12	0	21.56	21.66	21.54	23
5	64QAM	12	7	21.51	21.57	21.47	
5	64QAM	12	13	21.47	21.52	21.42	
5	64QAM	25	0	21.39	21.46	21.37	

Band 12 (700MHz Low Band)
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	23.20	23.25	23.23	24
10	QPSK	1	25	23.03	23.04	22.94	
10	QPSK	1	49	22.89	22.87	22.84	
10	QPSK	25	0	22.19	22.21	22.20	23
10	QPSK	25	12	22.18	22.14	22.23	
10	QPSK	25	25	22.11	22.08	22.18	
10	QPSK	50	0	22.04	22.12	22.11	
10	16QAM	1	0	22.66	22.64	22.57	23
10	16QAM	1	25	22.54	22.57	22.50	
10	16QAM	1	49	22.49	22.42	22.44	
10	16QAM	25	0	21.96	21.85	21.96	23
10	16QAM	25	12	21.90	21.79	21.90	
10	16QAM	25	25	21.85	21.74	21.85	
10	16QAM	50	0	21.79	21.81	21.80	
10	64QAM	1	0	22.53	22.51	22.58	23
10	64QAM	1	25	22.46	22.35	22.52	
10	64QAM	1	49	22.39	22.29	22.40	
10	64QAM	25	0	21.97	21.82	21.94	23
10	64QAM	25	12	21.90	21.75	21.88	
10	64QAM	25	25	21.83	21.68	21.83	
10	64QAM	50	0	21.78	21.63	21.77	
Channel				23035	23095	23155	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	QPSK	1	0	23.15	23.21	23.18	24
5	QPSK	1	12	22.98	23.00	22.89	
5	QPSK	1	24	22.84	22.83	22.78	
5	QPSK	12	0	22.16	22.17	22.15	23
5	QPSK	12	7	22.13	22.08	22.20	
5	QPSK	12	13	22.05	22.04	22.13	
5	QPSK	25	0	21.98	22.08	22.06	
5	16QAM	1	0	22.62	22.61	22.51	23
5	16QAM	1	12	22.49	22.51	22.45	
5	16QAM	1	24	22.45	22.39	22.39	
5	16QAM	12	0	21.91	21.80	21.92	23
5	16QAM	12	7	21.85	21.73	21.87	
5	16QAM	12	13	21.82	21.70	21.80	
5	16QAM	25	0	21.74	21.77	21.77	
5	64QAM	1	0	22.49	22.45	22.55	23
5	64QAM	1	12	22.41	22.30	22.49	
5	64QAM	1	24	22.34	22.24	22.36	
5	64QAM	12	0	21.91	21.78	21.90	23
5	64QAM	12	7	21.85	21.71	21.82	
5	64QAM	12	13	21.79	21.63	21.78	
5	64QAM	25	0	21.74	21.59	21.72	
Channel				23025	23095	23165	Tune-up limit (dBm)
Frequency (MHz)				700.5	707.5	714.5	
3	QPSK	1	0	23.10	23.16	23.13	24
3	QPSK	1	8	22.95	22.97	22.85	
3	QPSK	1	14	22.80	22.78	22.75	
3	QPSK	8	0	22.11	22.10	22.10	23
3	QPSK	8	4	22.08	22.06	22.16	
3	QPSK	8	7	21.99	21.97	22.08	
3	QPSK	15	0	21.96	22.02	22.05	
3	16QAM	1	0	22.58	22.57	22.48	23
3	16QAM	1	8	22.45	22.49	22.42	
3	16QAM	1	14	22.38	22.31	22.36	
3	16QAM	8	0	21.88	21.76	21.86	23
3	16QAM	8	4	21.81	21.71	21.81	
3	16QAM	8	7	21.77	21.68	21.76	
3	16QAM	15	0	21.69	21.72	21.71	
3	64QAM	1	0	22.45	22.40	22.48	23
3	64QAM	1	8	22.38	22.24	22.42	
3	64QAM	1	14	22.31	22.21	22.30	
3	64QAM	8	0	21.89	21.72	21.86	23
3	64QAM	8	4	21.81	21.67	21.82	
3	64QAM	8	7	21.73	21.60	21.73	
3	64QAM	15	0	21.71	21.56	21.68	
Channel				23017	23095	23173	Tune-up limit (dBm)
Frequency (MHz)				699.7	707.5	715.3	
1.4	QPSK	1	0	23.05	23.12	23.09	24.23
1.4	QPSK	1	3	22.89	22.92	22.81	
1.4	QPSK	1	5	22.76	22.74	22.69	
1.4	QPSK	3	0	22.06	22.06	22.05	
1.4	QPSK	3	1	22.02	22.01	22.11	
1.4	QPSK	3	3	21.95	21.93	22.05	
1.4	QPSK	6	0	21.91	21.99	22.00	23
1.4	16QAM	1	0	22.53	22.54	22.43	23
1.4	16QAM	1	3	22.40	22.44	22.37	
1.4	16QAM	1	5	22.32	22.26	22.33	
1.4	16QAM	3	0	21.83	21.71	21.82	
1.4	16QAM	3	1	21.77	21.67	21.76	
1.4	16QAM	3	3	21.72	21.62	21.70	
1.4	16QAM	6	0	21.66	21.69	21.66	23
1.4	64QAM	1	0	22.40	22.35	22.42	23
1.4	64QAM	1	3	22.35	22.20	22.37	
1.4	64QAM	1	5	22.26	22.18	22.24	
1.4	64QAM	3	0	21.86	21.66	21.81	
1.4	64QAM	3	1	21.76	21.62	21.78	
1.4	64QAM	3	3	21.69	21.54	21.67	
1.4	64QAM	6	0	21.68	21.50	21.63	23

Band 17 (700MHz Band)
Part 27H(only on channel required)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				23780	23790	23800	
Frequency (MHz)				709	710	711	
10	QPSK	1	0	23.13	23.16	23.10	24
10	QPSK	1	25	22.95	23.06	23.05	
10	QPSK	1	49	22.83	23.01	22.93	
10	QPSK	25	0	22.07	22.26	22.22	23
10	QPSK	25	12	22.00	22.20	22.15	
10	QPSK	25	25	21.94	22.13	22.10	
10	QPSK	50	0	21.88	22.06	22.03	
10	16QAM	1	0	22.43	22.62	22.53	23
10	16QAM	1	25	22.30	22.56	22.47	
10	16QAM	1	49	22.25	22.45	22.40	
10	16QAM	25	0	21.55	21.77	21.75	23
10	16QAM	25	12	21.48	21.71	21.70	
10	16QAM	25	25	21.42	21.65	21.65	
10	16QAM	50	0	21.35	21.59	21.59	
10	64QAM	1	0	22.27	22.50	22.38	23
10	64QAM	1	25	22.20	22.43	22.23	
10	64QAM	1	49	22.10	22.33	22.07	
10	64QAM	25	0	21.44	21.77	21.44	23
10	64QAM	25	12	21.39	21.72	21.38	
10	64QAM	25	25	21.34	21.66	21.31	
10	64QAM	50	0	21.28	21.59	21.24	
Channel				23755	23790	23825	Tune-up limit (dBm)
Frequency (MHz)				706.5	710	713.5	
5	QPSK	1	0	23.04	23.07	22.99	24
5	QPSK	1	12	22.87	22.98	22.95	
5	QPSK	1	24	22.73	22.92	22.84	
5	QPSK	12	0	21.98	22.16	22.14	23
5	QPSK	12	7	21.91	22.11	22.06	
5	QPSK	12	13	21.83	22.04	22.02	
5	QPSK	25	0	21.78	21.96	21.94	
5	16QAM	1	0	22.34	22.53	22.42	23
5	16QAM	1	12	22.21	22.48	22.37	
5	16QAM	1	24	22.17	22.34	22.32	
5	16QAM	12	0	21.45	21.69	21.66	23
5	16QAM	12	7	21.39	21.61	21.62	
5	16QAM	12	13	21.32	21.54	21.55	
5	16QAM	25	0	21.26	21.49	21.51	
5	64QAM	1	0	22.19	22.40	22.29	23
5	64QAM	1	12	22.10	22.35	22.15	
5	64QAM	1	24	22.00	22.24	21.96	
5	64QAM	12	0	21.33	21.66	21.34	23
5	64QAM	12	7	21.31	21.62	21.30	
5	64QAM	12	13	21.26	21.58	21.23	
5	64QAM	25	0	21.19	21.50	21.16	

Band 18 (835MHz Band)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				23925	23925	23925	
Frequency (MHz)				822.5	822.5	822.5	
15	QPSK	1	0	23.20	23.25	23.15	24
15	QPSK	1	37	23.06	22.95	22.95	
15	QPSK	1	74	22.91	22.86	22.85	
15	QPSK	36	0	22.18	22.19	22.16	23
15	QPSK	36	20	22.12	22.08	22.10	
15	QPSK	36	39	22.06	22.02	22.04	
15	QPSK	75	0	22.00	22.01	21.97	
15	16QAM	1	0	22.47	22.45	22.48	23
15	16QAM	1	37	22.36	22.36	22.38	
15	16QAM	1	74	22.29	22.23	22.23	
15	16QAM	36	0	21.81	21.77	21.75	23
15	16QAM	36	20	21.75	21.71	21.69	
15	16QAM	36	39	21.70	21.65	21.64	
15	16QAM	75	0	21.64	21.60	21.58	
15	64QAM	1	0	22.38	22.43	22.39	23
15	64QAM	1	25	22.22	22.25	22.28	
15	64QAM	1	49	22.13	22.15	22.14	
15	64QAM	25	0	21.69	21.73	21.72	23
15	64QAM	25	12	21.62	21.67	21.66	
15	64QAM	25	25	21.56	21.61	21.60	
15	64QAM	50	0	21.50	21.55	21.53	
Channel				23900	23925	23950	Tune-up limit (dBm)
Frequency (MHz)				820	822.5	825	
10	QPSK	1	0	23.16	23.21	23.09	24
10	QPSK	1	25	23.01	22.90	22.91	
10	QPSK	1	49	22.85	22.81	22.80	
10	QPSK	25	0	22.14	22.15	22.10	23
10	QPSK	25	12	22.07	22.03	22.06	
10	QPSK	25	25	22.02	21.96	22.00	
10	QPSK	50	0	21.95	21.96	21.91	
10	16QAM	1	0	22.41	22.41	22.45	23
10	16QAM	1	25	22.32	22.31	22.33	
10	16QAM	1	49	22.25	22.19	22.19	
10	16QAM	25	0	21.77	21.74	21.71	23
10	16QAM	25	12	21.71	21.67	21.64	
10	16QAM	25	25	21.65	21.60	21.60	
10	16QAM	50	0	21.58	21.57	21.52	
10	64QAM	1	0	22.35	22.38	22.34	23
10	64QAM	1	25	22.18	22.21	22.24	
10	64QAM	1	49	22.07	22.10	22.08	
10	64QAM	25	0	21.64	21.68	21.69	23
10	64QAM	25	12	21.58	21.63	21.62	
10	64QAM	25	25	21.51	21.56	21.54	
10	64QAM	50	0	21.46	21.51	21.47	
Channel				23875	23925	23975	Tune-up limit (dBm)
Frequency (MHz)				817.5	822.5	827.5	
5	QPSK	1	0	23.12	23.15	23.04	24
5	QPSK	1	12	22.96	22.87	22.88	
5	QPSK	1	24	22.79	22.76	22.75	
5	QPSK	12	0	22.11	22.10	22.06	23
5	QPSK	12	7	22.04	21.97	22.02	
5	QPSK	12	13	21.98	21.93	21.94	
5	QPSK	25	0	21.90	21.93	21.88	
5	16QAM	1	0	22.36	22.35	22.41	23
5	16QAM	1	12	22.28	22.26	22.30	
5	16QAM	1	24	22.21	22.15	22.16	
5	16QAM	12	0	21.71	21.68	21.66	23
5	16QAM	12	7	21.67	21.63	21.60	
5	16QAM	12	13	21.61	21.55	21.55	
5	16QAM	25	0	21.52	21.53	21.46	
5	64QAM	1	0	22.29	22.34	22.28	23
5	64QAM	1	12	22.14	22.16	22.19	
5	64QAM	1	24	22.04	22.06	22.04	
5	64QAM	12	0	21.59	21.64	21.64	23
5	64QAM	12	7	21.54	21.58	21.57	
5	64QAM	12	13	21.45	21.52	21.49	
5	64QAM	25	0	21.43	21.47	21.42	

Band 19 (835MHz Band)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				24075	24075	24075	
Frequency (MHz)				837.5	837.5	837.5	
15	QPSK	1	0	23.20	23.23	23.19	24
15	QPSK	1	37	23.00	23.01	23.02	
15	QPSK	1	74	22.92	22.93	22.97	
15	QPSK	36	0	22.21	22.22	22.18	23
15	QPSK	36	20	22.14	22.11	22.11	
15	QPSK	36	39	22.09	22.04	22.05	
15	QPSK	75	0	22.03	22.04	21.99	
15	16QAM	1	0	22.57	22.50	22.53	23
15	16QAM	1	37	22.43	22.37	22.45	
15	16QAM	1	74	22.35	22.20	22.31	
15	16QAM	36	0	21.88	21.78	21.91	23
15	16QAM	36	20	21.83	21.71	21.84	
15	16QAM	36	39	21.76	21.66	21.78	
15	16QAM	75	0	21.70	21.60	21.71	
15	64QAM	1	0	22.46	22.45	22.48	23
15	64QAM	1	25	22.36	22.40	22.34	
15	64QAM	1	49	22.28	22.27	22.27	
15	64QAM	25	0	21.90	21.92	21.89	23
15	64QAM	25	12	21.85	21.87	21.82	
15	64QAM	25	25	21.78	21.81	21.77	
15	64QAM	50	0	21.72	21.76	21.70	
Channel				24050	24075	24100	Tune-up limit (dBm)
Frequency (MHz)				835	837.5	840	
10	QPSK	1	0	23.15	23.18	23.14	24
10	QPSK	1	25	22.95	22.95	22.99	
10	QPSK	1	49	22.88	22.88	22.91	
10	QPSK	25	0	22.15	22.11	22.13	23
10	QPSK	25	12	22.09	22.08	22.07	
10	QPSK	25	25	22.06	21.99	22.00	
10	QPSK	50	0	22.00	21.93	21.95	
10	16QAM	1	0	22.53	22.45	22.50	23
10	16QAM	1	25	22.38	22.33	22.39	
10	16QAM	1	49	22.32	22.15	22.26	
10	16QAM	25	0	21.82	21.75	21.87	23
10	16QAM	25	12	21.80	21.65	21.78	
10	16QAM	25	25	21.72	21.62	21.75	
10	16QAM	50	0	21.64	21.57	21.68	
10	64QAM	1	0	22.43	22.40	22.45	23
10	64QAM	1	25	22.30	22.34	22.28	
10	64QAM	1	49	22.23	22.23	22.22	
10	64QAM	25	0	21.86	21.87	21.84	23
10	64QAM	25	12	21.80	21.81	21.78	
10	64QAM	25	25	21.73	21.77	21.71	
10	64QAM	50	0	21.67	21.72	21.64	
Channel				24025	24075	24125	Tune-up limit (dBm)
Frequency (MHz)				832.5	837.5	842.5	
5	QPSK	1	0	23.10	23.13	23.09	24
5	QPSK	1	12	22.90	22.91	22.94	
5	QPSK	1	24	22.84	22.85	22.88	
5	QPSK	12	0	22.12	22.08	22.09	23
5	QPSK	12	7	22.06	22.03	22.04	
5	QPSK	12	13	22.02	21.94	21.96	
5	QPSK	25	0	21.96	21.87	21.91	
5	16QAM	1	0	22.50	22.42	22.47	23
5	16QAM	1	12	22.33	22.29	22.35	
5	16QAM	1	24	22.27	22.10	22.21	
5	16QAM	12	0	21.79	21.72	21.83	23
5	16QAM	12	7	21.74	21.60	21.74	
5	16QAM	12	13	21.67	21.59	21.72	
5	16QAM	25	0	21.59	21.53	21.63	
5	64QAM	1	0	22.37	22.34	22.41	23
5	64QAM	1	12	22.25	22.30	22.23	
5	64QAM	1	24	22.19	22.18	22.18	
5	64QAM	12	0	21.82	21.82	21.80	23
5	64QAM	12	7	21.75	21.75	21.74	
5	64QAM	12	13	21.69	21.73	21.66	
5	64QAM	25	0	21.61	21.68	21.58	

Band 26 for FCC
(only on channel required)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				26765	26865	26965	
Frequency (MHz)				821.5	831.5	841.5	
15	QPSK	1	0	23.09	23.12	23.10	24
15	QPSK	1	37	22.93	23.02	22.99	
15	QPSK	1	74	22.78	22.92	22.90	
15	QPSK	36	0	22.01	22.16	22.12	23
15	QPSK	36	20	21.94	22.10	22.16	
15	QPSK	36	39	21.87	22.03	22.10	
15	QPSK	75	0	21.81	22.05	22.04	
15	16QAM	1	0	22.32	22.52	22.44	23
15	16QAM	1	37	22.26	22.39	22.37	
15	16QAM	1	74	22.14	22.26	22.26	
15	16QAM	36	0	21.85	21.92	21.90	23
15	16QAM	36	20	21.78	21.86	21.84	
15	16QAM	36	39	21.73	21.79	21.78	
15	16QAM	75	0	21.66	21.73	21.71	
15	64QAM	1	0	22.36	22.52	22.43	23
15	64QAM	1	37	22.26	22.41	22.28	
15	64QAM	1	74	22.17	22.27	22.15	
15	64QAM	36	0	21.79	21.89	21.77	23
15	64QAM	36	20	21.73	21.83	21.71	
15	64QAM	36	39	21.67	21.78	21.64	
15	64QAM	75	0	21.62	21.73	21.58	
Channel				26740	26865	26990	Tune-up limit (dBm)
Frequency (MHz)				819	831.5	844	
10	QPSK	1	0	23.05	23.07	23.07	24
10	QPSK	1	25	22.88	22.97	22.94	
10	QPSK	1	49	22.72	22.86	22.86	
10	QPSK	25	0	21.96	22.10	22.06	23
10	QPSK	25	12	21.89	22.05	22.10	
10	QPSK	25	25	21.82	21.99	22.05	
10	QPSK	50	0	21.78	22.00	22.00	
10	16QAM	1	0	22.28	22.46	22.38	23
10	16QAM	1	25	22.22	22.35	22.31	
10	16QAM	1	49	22.10	22.22	22.22	
10	16QAM	25	0	21.81	21.89	21.86	23
10	16QAM	25	12	21.72	21.82	21.78	
10	16QAM	25	25	21.68	21.74	21.74	
10	16QAM	50	0	21.61	21.69	21.65	
10	64QAM	1	0	22.33	22.46	22.38	23
10	64QAM	1	25	22.22	22.36	22.23	
10	64QAM	1	49	22.13	22.22	22.12	
10	64QAM	25	0	21.75	21.86	21.72	23
10	64QAM	25	12	21.69	21.78	21.68	
10	64QAM	25	25	21.62	21.75	21.59	
10	64QAM	50	0	21.58	21.68	21.53	
Channel				26715	26865	27015	Tune-up limit (dBm)
Frequency (MHz)				816.5	831.5	846.5	
5	QPSK	1	0	23.01	23.03	23.04	24
5	QPSK	1	12	22.83	22.93	22.91	
5	QPSK	1	24	22.67	22.80	22.80	
5	QPSK	12	0	21.92	22.05	22.00	23
5	QPSK	12	7	21.83	22.00	22.07	
5	QPSK	12	13	21.78	21.95	22.02	
5	QPSK	25	0	21.75	21.95	21.95	
5	16QAM	1	0	22.24	22.41	22.35	23
5	16QAM	1	12	22.17	22.30	22.26	
5	16QAM	1	24	22.07	22.16	22.19	
5	16QAM	12	0	21.77	21.83	21.83	23
5	16QAM	12	7	21.68	21.77	21.72	
5	16QAM	12	13	21.64	21.69	21.70	
5	16QAM	25	0	21.58	21.66	21.61	
5	64QAM	1	0	22.28	22.43	22.33	23
5	64QAM	1	12	22.18	22.30	22.20	
5	64QAM	1	24	22.08	22.18	22.08	
5	64QAM	12	0	21.71	21.80	21.69	23
5	64QAM	12	7	21.65	21.73	21.63	
5	64QAM	12	13	21.57	21.69	21.56	
5	64QAM	25	0	21.54	21.64	21.47	
Channel				26705	26865	27025	Tune-up limit (dBm)
Frequency (MHz)				815.5	831.5	847.5	
3	QPSK	1	0	22.97	22.99	23.00	24
3	QPSK	1	8	22.77	22.88	22.86	
3	QPSK	1	14	22.63	22.74	22.76	
3	QPSK	8	0	21.86	22.00	21.94	23
3	QPSK	8	4	21.79	21.94	22.03	
3	QPSK	8	7	21.73	21.92	21.99	
3	QPSK	15	0	21.72	21.91	21.90	
3	16QAM	1	0	22.20	22.37	22.31	23
3	16QAM	1	8	22.11	22.24	22.22	
3	16QAM	1	14	22.01	22.12	22.15	
3	16QAM	8	0	21.72	21.78	21.77	23
3	16QAM	8	4	21.63	21.73	21.68	
3	16QAM	8	7	21.59	21.63	21.65	
3	16QAM	15	0	21.53	21.60	21.56	
3	64QAM	1	0	22.24	22.39	22.28	23
3	64QAM	1	8	22.13	22.26	22.17	
3	64QAM	1	14	22.03	22.12	22.03	
3	64QAM	8	0	21.66	21.75	21.64	23
3	64QAM	8	4	21.60	21.68	21.60	
3	64QAM	8	7	21.53	21.64	21.51	
3	64QAM	15	0	21.49	21.58	21.41	
Channel				26697	26865	27033	Tune-up limit (dBm)
Frequency (MHz)				814.7	831.5	848.3	
1.4	QPSK	1	0	22.97	23.00	22.99	24
1.4	QPSK	1	3	22.77	22.88	22.88	
1.4	QPSK	1	5	22.62	22.74	22.75	
1.4	QPSK	3	0	21.89	21.99	21.95	
1.4	QPSK	3	1	21.77	21.97	22.02	
1.4	QPSK	3	3	21.73	21.90	21.97	
1.4	QPSK	6	0	21.69	21.89	21.89	23
1.4	16QAM	1	0	22.20	22.36	22.30	

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	23.12	23.27	23.24	24
20	QPSK	1	49	23.02	22.95	23.06	
20	QPSK	1	99	22.89	22.90	22.83	
20	QPSK	50	0	22.09	22.10	22.03	23
20	QPSK	50	24	21.97	21.92	21.95	
20	QPSK	50	50	21.96	21.91	21.92	
20	QPSK	100	0	21.89	21.90	21.81	
20	16QAM	1	0	22.38	22.41	22.33	23
20	16QAM	1	49	22.24	22.19	22.12	
20	16QAM	1	99	22.09	22.13	22.06	
20	16QAM	50	0	21.78	21.83	21.80	22
20	16QAM	50	24	21.87	21.85	21.76	
20	16QAM	50	50	21.79	21.71	21.59	
20	16QAM	100	0	21.76	21.67	21.64	
20	64QAM	1	0	22.23	22.23	22.11	23
20	64QAM	1	49	22.06	22.06	22.03	
20	64QAM	1	99	22.01	22.03	21.90	
20	64QAM	50	0	21.73	21.75	21.64	23
20	64QAM	50	24	21.63	21.66	21.64	
20	64QAM	50	50	21.54	21.70	21.60	
20	64QAM	100	0	21.56	21.56	21.53	
Channel				132047	132322	132597	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	22.81	23.16	22.94	24
15	QPSK	1	37	22.94	22.84	22.94	
15	QPSK	1	74	22.63	22.70	22.78	
15	QPSK	36	0	21.96	22.06	21.94	23
15	QPSK	36	20	21.72	21.70	21.66	
15	QPSK	36	39	21.86	21.84	21.71	
15	QPSK	75	0	21.57	21.84	21.53	
15	16QAM	1	0	22.23	22.30	22.10	23
15	16QAM	1	37	21.93	22.15	21.95	
15	16QAM	1	74	21.88	21.87	21.84	
15	16QAM	36	0	21.55	21.71	21.52	22
15	16QAM	36	20	21.69	21.63	21.68	
15	16QAM	36	39	21.59	21.49	21.30	
15	16QAM	75	0	21.45	21.39	21.59	
15	64QAM	1	0	22.05	22.04	21.83	23
15	64QAM	1	37	21.76	21.93	21.79	
15	64QAM	1	74	21.72	21.71	21.61	
15	64QAM	36	0	21.55	21.46	21.59	23
15	64QAM	36	20	21.58	21.53	21.51	
15	64QAM	36	39	21.29	21.64	21.51	
15	64QAM	75	0	21.40	21.49	21.22	
Channel				132022	132322	132622	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	22.75	23.09	22.90	24
10	QPSK	1	25	22.88	22.79	22.88	
10	QPSK	1	49	22.58	22.63	22.72	
10	QPSK	25	0	21.91	22.00	21.88	23
10	QPSK	25	12	21.68	21.66	21.59	
10	QPSK	25	25	21.80	21.80	21.67	
10	QPSK	50	0	21.52	21.77	21.48	
10	16QAM	1	0	22.19	22.25	22.05	23
10	16QAM	1	25	21.88	22.10	21.91	
10	16QAM	1	49	21.83	21.82	21.77	
10	16QAM	25	0	21.49	21.66	21.47	22
10	16QAM	25	12	21.63	21.58	21.61	
10	16QAM	25	25	21.53	21.43	21.25	
10	16QAM	50	0	21.38	21.32	21.53	
10	64QAM	1	0	22.01	21.98	21.78	23
10	64QAM	1	25	21.72	21.86	21.75	
10	64QAM	1	49	21.65	21.67	21.56	
10	64QAM	25	0	21.49	21.39	21.54	23
10	64QAM	25	12	21.54	21.47	21.46	
10	64QAM	25	25	21.24	21.58	21.44	
10	64QAM	50	0	21.33	21.43	21.17	
Channel				131997	132322	132647	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	22.76	23.11	22.90	24
5	QPSK	1	12	22.89	22.78	22.89	
5	QPSK	1	24	22.59	22.66	22.74	
5	QPSK	12	0	21.90	22.02	21.89	23
5	QPSK	12	7	21.67	21.64	21.62	
5	QPSK	12	13	21.81	21.78	21.65	
5	QPSK	25	0	21.50	21.79	21.47	
5	16QAM	1	0	22.17	22.24	22.04	23
5	16QAM	1	12	21.88	22.10	21.90	
5	16QAM	1	24	21.82	21.82	21.77	
5	16QAM	12	0	21.50	21.66	21.46	22
5	16QAM	12	7	21.64	21.57	21.63	
5	16QAM	12	13	21.53	21.43	21.23	
5	16QAM	25	0	21.39	21.33	21.52	
5	64QAM	1	0	22.01	21.98	21.79	23
5	64QAM	1	12	21.70	21.89	21.73	
5	64QAM	1	24	21.66	21.66	21.55	
5	64QAM	12	0	21.50	21.42	21.55	23
5	64QAM	12	7	21.52	21.48	21.46	
5	64QAM	12	13	21.23	21.57	21.45	
5	64QAM	25	0	21.34	21.43	21.17	
Channel				131987	132322	132657	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	22.70	23.04	22.81	24
3	QPSK	1	8	22.85	22.74	22.82	
3	QPSK	1	14	22.53	22.60	22.68	
3	QPSK	8	0	21.87	21.94	21.82	23
3	QPSK	8	4	21.59	21.60	21.53	
3	QPSK	8	7	21.77	21.73	21.58	
3	QPSK	15	0	21.46	21.75	21.44	
3	16QAM	1	0	22.11	22.17	22.00	

1.4	16QAM	1	3	22.12	22.27	22.23	23
1.4	16QAM	1	5	22.03	22.13	22.14	
1.4	16QAM	3	0	21.73	21.78	21.77	
1.4	16QAM	3	1	21.64	21.71	21.67	
1.4	16QAM	3	3	21.59	21.64	21.67	
1.4	16QAM	6	0	21.52	21.62	21.57	23
1.4	64QAM	1	0	22.24	22.38	22.28	23
1.4	64QAM	1	3	22.12	22.24	22.15	
1.4	64QAM	1	5	22.04	22.12	22.02	
1.4	64QAM	3	0	21.68	21.76	21.63	
1.4	64QAM	3	1	21.62	21.68	21.58	
1.4	64QAM	3	3	21.52	21.64	21.51	
1.4	64QAM	6	0	21.51	21.60	21.44	23

3	16QAM	1	8	21.82	22.05	21.83	23
3	16QAM	1	14	21.75	21.76	21.73	
3	16QAM	8	0	21.46	21.60	21.40	22
3	16QAM	8	4	21.59	21.51	21.58	
3	16QAM	8	7	21.48	21.37	21.20	
3	16QAM	15	0	21.33	21.27	21.48	
3	64QAM	1	0	21.94	21.92	21.72	23
3	64QAM	1	8	21.63	21.81	21.70	
3	64QAM	1	14	21.62	21.62	21.48	
3	64QAM	8	0	21.44	21.36	21.48	23
3	64QAM	8	4	21.45	21.42	21.40	
3	64QAM	8	7	21.20	21.54	21.40	
3	64QAM	15	0	21.30	21.38	21.10	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	22.70	23.04	22.84	24
1.4	QPSK	1	3	22.84	22.71	22.83	
1.4	QPSK	1	5	22.54	22.61	22.68	
1.4	QPSK	3	0	21.95	22.06	21.94	
1.4	QPSK	3	1	21.71	21.69	21.66	
1.4	QPSK	3	3	21.85	21.82	21.70	
1.4	QPSK	6	0	21.45	21.72	21.43	23
1.4	16QAM	1	0	22.11	22.20	22.00	23
1.4	16QAM	1	3	21.84	22.03	21.85	
1.4	16QAM	1	5	21.76	21.76	21.71	
1.4	16QAM	3	0	21.45	21.61	21.42	
1.4	16QAM	3	1	21.59	21.52	21.57	
1.4	16QAM	3	3	21.49	21.36	21.18	
1.4	16QAM	6	0	21.33	21.26	21.47	23
1.4	64QAM	1	0	21.94	21.93	21.75	23
1.4	64QAM	1	3	21.64	21.84	21.66	
1.4	64QAM	1	5	21.62	21.60	21.50	
1.4	64QAM	3	0	21.44	21.36	21.49	
1.4	64QAM	3	1	21.46	21.43	21.41	
1.4	64QAM	3	3	21.17	21.53	21.41	
1.4	64QAM	6	0	21.28	21.36	21.11	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	23.20	23.22	23.10	24
20	QPSK	1	49	22.69	22.80	22.66	
20	QPSK	1	99	22.53	22.96	22.54	
20	QPSK	50	0	21.97	22.09	21.88	23
20	QPSK	50	24	21.91	22.03	22.12	
20	QPSK	50	50	21.85	21.98	21.76	
20	QPSK	100	0	21.83	21.92	21.71	
20	16QAM	1	0	22.28	22.41	22.29	23
20	16QAM	1	49	22.15	22.56	22.17	
20	16QAM	1	99	22.09	22.19	22.07	
20	16QAM	50	0	21.68	21.84	22.02	23
20	16QAM	50	24	21.62	21.78	21.65	
20	16QAM	50	50	21.85	21.73	21.58	
20	16QAM	100	0	21.50	21.68	21.53	
20	64QAM	1	0	22.32	22.71	22.27	23
20	64QAM	1	49	22.17	22.31	22.16	
20	64QAM	1	99	22.07	22.16	22.36	
20	64QAM	50	0	21.65	21.76	21.59	22.5
20	64QAM	50	24	21.89	21.70	21.54	
20	64QAM	50	50	21.52	21.64	21.47	
20	64QAM	100	0	21.46	21.89	21.41	
Channel				37825	38000	38175.3	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	23.15	23.17	23.07	24
15	QPSK	1	37	22.64	22.75	22.62	
15	QPSK	1	74	22.49	22.90	22.48	
15	QPSK	36	0	21.92	22.04	21.84	23
15	QPSK	36	20	21.85	21.98	22.07	
15	QPSK	36	39	21.82	21.93	21.71	
15	QPSK	75	0	21.79	21.89	21.66	
15	16QAM	1	0	22.24	22.36	22.23	23
15	16QAM	1	37	22.11	22.51	22.12	
15	16QAM	1	74	22.05	22.16	22.03	
15	16QAM	36	0	21.63	21.81	21.96	23
15	16QAM	36	20	21.58	21.73	21.60	
15	16QAM	36	39	21.81	21.68	21.53	
15	16QAM	75	0	21.45	21.64	21.49	
15	64QAM	1	0	22.29	22.66	22.23	23
15	64QAM	1	37	22.11	22.28	22.12	
15	64QAM	1	74	22.03	22.12	22.31	
15	64QAM	36	0	21.61	21.71	21.54	22.5
15	64QAM	36	20	21.85	21.66	21.50	
15	64QAM	36	39	21.48	21.60	21.42	
15	64QAM	75	0	21.41	21.86	21.36	
Channel				37800	38000	38200	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	23.10	23.13	23.02	24
10	QPSK	1	25	22.58	22.71	22.59	
10	QPSK	1	49	22.44	22.86	22.43	
10	QPSK	25	0	21.87	21.98	21.79	23
10	QPSK	25	12	21.82	21.94	22.04	
10	QPSK	25	25	21.78	21.88	21.67	
10	QPSK	50	0	21.74	21.86	21.62	
10	16QAM	1	0	22.18	22.30	22.17	23
10	16QAM	1	25	22.05	22.46	22.07	
10	16QAM	1	49	21.99	22.13	21.99	
10	16QAM	25	0	21.58	21.77	21.92	23
10	16QAM	25	12	21.53	21.68	21.54	
10	16QAM	25	25	21.76	21.64	21.47	
10	16QAM	50	0	21.40	21.58	21.45	
10	64QAM	1	0	22.26	22.62	22.20	23
10	64QAM	1	25	22.05	22.25	22.07	
10	64QAM	1	49	21.99	22.08	22.27	
10	64QAM	25	0	21.58	21.67	21.51	22.5
10	64QAM	25	12	21.82	21.63	21.44	
10	64QAM	25	25	21.43	21.54	21.39	
10	64QAM	50	0	21.35	21.80	21.32	
Channel				37775	38000	38225	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	23.06	23.08	22.99	24
5	QPSK	1	12	22.53	22.65	22.53	
5	QPSK	1	24	22.40	22.80	22.39	
5	QPSK	12	0	21.81	21.93	21.74	23
5	QPSK	12	7	21.76	21.88	22.00	
5	QPSK	12	13	21.73	21.84	21.64	
5	QPSK	25	0	21.69	21.82	21.57	
5	16QAM	1	0	22.13	22.26	22.12	23
5	16QAM	1	12	22.01	22.41	22.01	
5	16QAM	1	24	21.93	22.09	21.95	
5	16QAM	12	0	21.55	21.74	21.89	23
5	16QAM	12	7	21.50	21.63	21.48	
5	16QAM	12	13	21.71	21.59	21.42	
5	16QAM	25	0	21.35	21.54	21.40	
5	64QAM	1	0	22.22	22.56	22.15	23
5	64QAM	1	12	22.00	22.19	22.04	
5	64QAM	1	24	21.95	22.03	22.22	
5	64QAM	12	0	21.52	21.62	21.47	22.5
5	64QAM	12	7	21.79	21.58	21.39	
5	64QAM	12	13	21.38	21.49	21.33	
5	64QAM	25	0	21.31	21.74	21.26	

Band 40 (2.3G Band-1)
Part 27D-1 2305MHz ~ 2315MHz

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	22.99			24
10	QPSK	1	25	22.78			
10	QPSK	1	49	22.73			
10	QPSK	25	0	21.90			23
10	QPSK	25	12	21.85			
10	QPSK	25	25	21.78			
10	QPSK	50	0	21.72			
10	16QAM	1	0	22.35			23
10	16QAM	1	25	22.21			
10	16QAM	1	49	22.12			
10	16QAM	25	0	21.69			22.5
10	16QAM	25	12	21.63			
10	16QAM	25	25	21.57			
10	16QAM	50	0	21.52			
10	64QAM	1	0	22.22			22.5
10	64QAM	1	25	22.11			
10	64QAM	1	49	21.98			
10	64QAM	25	0	21.54			22.5
10	64QAM	25	12	21.48			
10	64QAM	25	25	21.42			
10	64QAM	50	0	21.37			
Channel				38725	38750	38775	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	QPSK	1	0	22.84	22.91	22.87	24
5	QPSK	1	12	22.73	22.65	22.72	
5	QPSK	1	24	22.69	22.48	22.65	
5	QPSK	12	0	21.85	21.93	21.91	23
5	QPSK	12	7	21.82	21.68	21.85	
5	QPSK	12	13	21.74	21.61	21.79	
5	QPSK	25	0	21.68	21.75	21.74	
5	16QAM	1	0	22.30	22.05	22.31	23
5	16QAM	1	12	22.17	21.99	22.18	
5	16QAM	1	24	22.06	21.87	22.09	
5	16QAM	12	0	21.63	21.68	21.66	22.5
5	16QAM	12	7	21.57	21.46	21.58	
5	16QAM	12	13	21.53	21.42	21.54	
5	16QAM	25	0	21.49	21.32	21.47	
5	64QAM	1	0	22.18	22.02	22.15	22.5
5	64QAM	1	12	22.05	21.92	22.03	
5	64QAM	1	24	21.95	21.82	21.90	
5	64QAM	12	0	21.51	21.63	21.52	22.5
5	64QAM	12	7	21.44	21.56	21.49	
5	64QAM	12	13	21.39	21.51	21.41	
5	64QAM	25	0	21.33	21.44	21.37	

Band 40 (2.3G Band-2)
Part 27D-2 2350MHz ~ 2360MHz

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	23.01			24
10	QPSK	1	25	22.85			
10	QPSK	1	49	22.69			
10	QPSK	25	0	21.95			23
10	QPSK	25	12	21.89			
10	QPSK	25	25	21.83			
10	QPSK	50	0	21.77			
10	16QAM	1	0	22.34			23
10	16QAM	1	25	22.23			
10	16QAM	1	49	22.12			
10	16QAM	25	0	21.70			22.5
10	16QAM	25	12	21.63			
10	16QAM	25	25	21.58			
10	16QAM	50	0	21.52			
10	64QAM	1	0	22.18			22.5
10	64QAM	1	25	22.09			
10	64QAM	1	49	21.95			
10	64QAM	25	0	21.58			22.5
10	64QAM	25	12	21.52			
10	64QAM	25	25	21.47			
10	64QAM	50	0	21.41			
Channel				39175	39200	39225	Tune-up limit (dBm)
Frequency (MHz)				2352.5	2355	2357.5	
5	QPSK	1	0	22.80	22.90	22.82	24
5	QPSK	1	12	22.68	22.61	22.67	
5	QPSK	1	24	22.66	22.43	22.61	
5	QPSK	12	0	21.82	21.88	21.87	23
5	QPSK	12	7	21.79	21.65	21.80	
5	QPSK	12	13	21.71	21.55	21.74	
5	QPSK	25	0	21.62	21.70	21.69	
5	16QAM	1	0	22.26	22.00	22.27	23
5	16QAM	1	12	22.13	21.94	22.13	
5	16QAM	1	24	22.02	21.82	22.05	
5	16QAM	12	0	21.60	21.63	21.63	22.5
5	16QAM	12	7	21.52	21.40	21.52	
5	16QAM	12	13	21.48	21.37	21.51	
5	16QAM	25	0	21.45	21.28	21.44	
5	64QAM	1	0	22.13	21.98	22.11	22.5
5	64QAM	1	12	22.02	21.87	21.98	
5	64QAM	1	24	21.92	21.78	21.85	
5	64QAM	12	0	21.46	21.58	21.49	22.5
5	64QAM	12	7	21.40	21.52	21.43	
5	64QAM	12	13	21.33	21.48	21.36	
5	64QAM	25	0	21.30	21.38	21.31	

Band 41 (2496~2690MHz)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Low Channel	Middle Channel	Middle High Channel	High Channel	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	23.22	23.18	23.24	23.17	23.11	24
20	QPSK	1	49	22.96	22.96	23.03	22.86	22.86	
20	QPSK	1	99	22.89	22.83	22.93	22.70	22.72	
20	QPSK	50	0	22.15	22.11	22.27	21.95	22.00	23
20	QPSK	50	24	22.08	22.04	22.21	21.89	21.93	
20	QPSK	50	50	22.01	21.98	22.15	21.82	21.86	
20	QPSK	100	0	21.94	21.92	22.09	21.76	21.80	
20	16QAM	1	0	22.39	22.39	22.60	22.43	22.39	23
20	16QAM	1	49	22.23	22.23	22.44	22.37	22.31	
20	16QAM	1	99	22.16	22.08	22.35	22.26	22.16	
20	16QAM	50	0	21.91	21.83	22.10	21.98	21.89	23
20	16QAM	50	24	21.86	21.77	22.04	21.92	21.83	
20	16QAM	50	50	21.80	21.71	21.98	21.87	21.77	
20	16QAM	100	0	21.73	21.66	21.93	21.80	21.71	
20	64QAM	1	0	22.34	22.27	22.58	22.30	22.26	23
20	64QAM	1	49	22.25	22.15	22.47	22.17	22.18	
20	64QAM	1	99	22.13	22.07	22.31	22.05	22.11	
20	64QAM	50	0	21.88	21.74	22.01	21.71	21.78	22.5
20	64QAM	50	24	21.82	21.67	21.94	21.66	21.72	
20	64QAM	50	50	21.76	21.62	21.87	21.59	21.65	
20	64QAM	100	0	21.70	21.57	21.80	21.53	21.58	
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	23.18	23.14	23.12	23.18	23.15	24
15	QPSK	1	37	22.92	22.92	22.91	22.91	22.93	
15	QPSK	1	74	22.84	22.79	22.79	22.83	22.78	
15	QPSK	36	0	22.10	22.06	22.08	22.11	22.06	23
15	QPSK	36	20	22.03	22.01	22.03	22.05	21.99	
15	QPSK	36	39	21.96	21.93	21.94	21.96	21.94	
15	QPSK	75	0	21.88	21.88	21.90	21.90	21.89	
15	16QAM	1	0	22.33	22.33	22.52	22.34	22.34	23
15	16QAM	1	37	22.18	22.19	22.43	22.19	22.19	
15	16QAM	1	74	22.12	22.04	22.27	22.12	22.05	
15	16QAM	36	0	21.86	21.78	22.00	21.87	21.80	23
15	16QAM	36	20	21.81	21.72	21.96	21.82	21.74	
15	16QAM	36	39	21.75	21.66	21.88	21.75	21.66	
15	16QAM	75	0	21.70	21.60	21.83	21.68	21.60	
15	64QAM	1	0	22.30	22.23	22.50	22.29	22.22	23
15	64QAM	1	37	22.20	22.12	22.36	22.20	22.12	
15	64QAM	1	74	22.08	22.02	22.25	22.09	22.02	
15	64QAM	36	0	21.82	21.70	21.90	21.83	21.70	22.5
15	64QAM	36	20	21.79	21.64	21.83	21.78	21.62	
15	64QAM	36	39	21.73	21.57	21.79	21.73	21.56	
15	64QAM	75	0	21.64	21.51	21.73	21.66	21.51	
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	23.13	23.10	23.18	23.14	23.09	24
10	QPSK	1	25	22.86	22.90	22.87	22.85	22.88	
10	QPSK	1	49	22.79	22.73	22.74	22.78	22.72	
10	QPSK	25	0	22.07	22.01	22.02	22.05	22.01	23
10	QPSK	25	12	22.01	21.95	21.99	22.02	21.94	
10	QPSK	25	25	21.92	21.90	21.89	21.91	21.89	
10	QPSK	50	0	21.87	21.84	21.85	21.86	21.86	
10	16QAM	1	0	22.31	22.29	22.47	22.31	22.28	23
10	16QAM	1	25	22.14	22.16	22.39	22.15	22.15	
10	16QAM	1	49	22.08	22.01	22.23	22.06	22.00	
10	16QAM	25	0	21.83	21.76	21.95	21.81	21.75	23
10	16QAM	25	12	21.78	21.69	21.91	21.77	21.68	
10	16QAM	25	25	21.70	21.61	21.82	21.70	21.61	
10	16QAM	50	0	21.65	21.56	21.78	21.64	21.57	
10	64QAM	1	0	22.23	22.17	22.45	22.26	22.19	23
10	64QAM	1	25	22.15	22.09	22.31	22.16	22.07	
10	64QAM	1	49	22.03	21.96	22.22	22.06	21.97	
10	64QAM	25	0	21.80	21.66	21.84	21.78	21.67	22.5
10	64QAM	25	12	21.73	21.59	21.77	21.72	21.56	
10	64QAM	25	25	21.69	21.52	21.76	21.69	21.51	
10	64QAM	50	0	21.62	21.47	21.68	21.63	21.47	
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	
5	QPSK	1	0	23.07	23.05	23.13	23.08	23.06	24
5	QPSK	1	12	22.81	22.86	22.81	22.82	22.86	
5	QPSK	1	24	22.74	22.68	22.72	22.76	22.70	
5	QPSK	12	0	22.03	21.96	21.97	22.03	21.97	23
5	QPSK	12	7	21.96	21.92	21.94	21.97	21.91	
5	QPSK	12	13	21.87	21.85	21.87	21.87	21.85	
5	QPSK	25	0	21.82	21.78	21.82	21.84	21.79	
5	16QAM	1	0	22.28	22.24	22.42	22.26	22.24	23
5	16QAM	1	12	22.11	22.10	22.31	22.11	22.12	
5	16QAM	1	24	22.03	21.95	22.19	22.03	21.96	
5	16QAM	12	0	21.78	21.73	21.92	21.79	21.72	23
5	16QAM	12	7	21.74	21.63	21.87	21.73	21.65	
5	16QAM	12	13	21.64	21.55	21.79	21.64	21.58	
5	16QAM	25	0	21.60	21.51	21.74	21.62	21.51	
5	64QAM	1	0	22.18	22.12	22.40	22.17	22.12	23
5	64QAM	1	12	22.10	22.04	22.25	22.12	22.06	
5	64QAM	1	24	21.99	21.91	22.17	21.97	21.91	
5	64QAM	12	0	21.76	21.61	21.81	21.74	21.63	22.5
5	64QAM	12	7	21.69	21.55	21.75	21.69	21.53	
5	64QAM	12	13	21.64	21.46	21.71	21.65	21.47	
5	64QAM	25	0	21.57	21.43	21.64	21.57	21.43	

n41 (2496 ~ 2690MHz)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				509202	513900	518598	523296	528000	
Frequency (MHz)				2546	2569.5	2593	2616.5	2640	
100	DFT-s-OFDM PI/2 BPSK	1	1	25.10	25.27	25.35	25.36	25.46	26
100		1	136	25.27	25.19	25.31	25.33	25.51	
100		1	272	25.49	22.06	22.20	22.34	22.35	
100		135	1	24.76	24.86	25.02	24.88	25.07	26
100		135	67	25.35	25.31	25.51	25.45	25.36	
100		135	136	24.82	24.85	25.12	25.20	25.28	
100		270	0	24.86	24.84	25.02	25.05	25.17	
100	DFT-s-OFDM QPSK	1	1	25.46	25.43	25.53	25.37	25.46	26
100		1	136	25.33	25.31	25.42	25.40	25.41	
100		1	272	25.34	25.37	25.36	25.34	25.40	
100		135	1	25.06	25.04	25.23	25.18	25.14	26
100		135	67	25.09	25.22	25.06	25.12	25.29	
100		135	136	25.08	25.11	25.14	25.11	25.12	
100		270	0	25.05	25.08	25.22	25.28	25.42	
100	DFT-s-OFDM 16QAM	1	1	24.21	24.13	24.32	24.39	24.48	25
100	DFT-s-OFDM 64QAM	1	1	22.38	22.53	22.69	22.66	22.74	23.5
100	DFT-s-OFDM 256QAM	1	1	20.52	20.62	20.81	20.69	20.84	21.5
Channel				508200	513402	518598	523800	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2567	2593	2619	2645	
90	DFT-s-OFDM PI/2 BPSK	1	1	25.17	25.22	25.35	25.31	25.52	26
Channel				507204	512904	518598	524298	529998	Tune-up limit (dBm)
Frequency (MHz)				2536	2564.5	2593	2621.5	2650	
80	DFT-s-OFDM PI/2 BPSK	1	1	25.12	25.28	25.28	25.35	25.48	26
Channel				505200	511902	518598	525300	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2559.5	2593	2626.5	2660	
60	DFT-s-OFDM PI/2 BPSK	1	1	25.33	25.42	25.17	25.57	25.59	26
Channel				504204	511404	518598	525798	532998	Tune-up limit (dBm)
Frequency (MHz)				2521	2557	2593	2629	2665	
50	DFT-s-OFDM PI/2 BPSK	1	1	25.55	25.51	25.60	25.65	25.57	26
Channel				503202	510900	518598	526296	534000	Tune-up limit (dBm)
Frequency (MHz)				2516	2554.5	2593	2631.5	2670	
40	DFT-s-OFDM PI/2 BPSK	1	1	25.45	25.43	25.61	25.43	25.56	26
Channel				502200	510402	518598	526800	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2552	2593	2634	2675	
30	DFT-s-OFDM PI/2 BPSK	1	1	25.47	25.59	25.47	25.58	25.42	26
Channel				501204	509898	518598	527298	535998	Tune-up limit (dBm)
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	DFT-s-OFDM PI/2 BPSK	1	1	25.04	25.18	25.26	25.28	25.45	26
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				509202	513900	518598	523296	528000	
Frequency (MHz)				2546	2569.5	2593	2616.5	2640	
100	CP-OFDM QPSK	1	1	23.77	23.85	23.94	23.86	24.05	24.5
100	CP-OFDM 16QAM	1	1	23.21	23.38	23.46	23.46	23.51	24
100	CP-OFDM 64QAM	1	1	21.57	21.83	21.88	21.79	21.92	22.5
100	CP-OFDM 256QAM	1	1	18.63	18.77	18.80	18.79	18.94	19.5

2496
2690

n77 (3700 MHz ~ 3980 MHz)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				650000	653000	656000	659000	662000	
Frequency (MHz)				3750	3795	3840	3885	3930	
100	DFT-s-OFDM PI/2 BPSK	1	1	22.84	22.76	22.78	22.97	23.10	23.50
100		1	136	22.93	22.75	23.09	23.15	23.20	
100		1	272	22.32	22.61	22.66	22.90	22.79	
100		135	1	22.42	22.35	22.50	22.55	22.73	23.50
100		135	67	22.89	22.85	23.08	23.20	23.25	
100		135	136	22.32	22.51	22.57	22.72	22.67	
100		270	0	22.35	22.37	22.53	22.79	22.72	
100	DFT-s-OFDM QPSK	1	1	22.98	22.82	23.26	22.97	23.15	24.00
100		1	136	22.87	22.73	23.01	23.19	23.03	
100		1	272	21.82	22.14	22.16	22.39	22.20	
100		135	1	23.07	23.01	23.06	22.97	23.00	24.00
100		135	67	22.93	22.92	23.01	22.99	23.04	
100		135	136	22.68	22.81	22.91	22.95	22.98	
100		270	0	22.73	22.70	22.80	22.99	22.98	
100	DFT-s-OFDM 16QAM	1	1	21.83	21.71	21.77	21.88	22.06	21.50
100	DFT-s-OFDM 64QAM	1	1	20.12	20.04	20.10	20.25	20.35	20.00
100	DFT-s-OFDM 256QAM	1	1	18.28	18.21	18.22	18.35	18.43	18.00
Channel				649334	652668	656000	659332	662666	Tune-up limit (dBm)
Frequency (MHz)				3740	3790	3840	3890	3940	
80	DFT-s-OFDM PI/2 BPSK	1	1	22.87	22.85	22.78	23.01	23.03	23.50
Channel				648668	652334	656000	659666	663332	Tune-up limit (dBm)
Frequency (MHz)				3730	3785	3840	3895	3950	
60	DFT-s-OFDM PI/2 BPSK	1	1	23.09	22.98	22.70	23.17	23.15	24.00
Channel				648000	652000	656000	660000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3780	3840	3900	3960	
40	DFT-s-OFDM PI/2 BPSK	1	1	23.16	23.19	23.19	23.22	23.19	24.00
Channel				647668	651834	656000	660166	664332	Tune-up limit (dBm)
Frequency (MHz)				3715	3777.5	3840	3902.5	3965	
30	DFT-s-OFDM PI/2 BPSK	1	1	23.10	23.20	23.13	23.21	23.18	24.00
Channel				647334	651668	656000	660332	664666	Tune-up limit (dBm)
Frequency (MHz)				3710	3775	3840	3905	3970	
20	DFT-s-OFDM PI/2 BPSK	1	1	23.11	23.10	23.12	23.10	23.02	24.00
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				650000	653000	656000	659000	662000	
Frequency (MHz)				3750	3795	3840	3885	3930	
100	CP-OFDM QPSK	1	1	21.34	21.30	21.31	16.42	21.58	22.00
100	CP-OFDM 16QAM	1	1	20.85	20.82	20.83	21.00	21.11	21.50
100	CP-OFDM 64QAM	1	1	19.40	19.24	19.24	19.41	19.58	20.00
100	CP-OFDM 256QAM	1	1	16.39	16.32	16.37	16.42	16.57	17.00

3700
3980

CA_2A -2A											
Combination:20MHz+20MHz(100RB+100RB)											
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
18700	18700	18898	QPSK	1	0	1	0	1	0	22.91	24.00
18900	18826	18997	QPSK	1	0	1	0	1	0	22.87	24.00
19100	18902	19100	QPSK	1	0	1	0	1	0	22.90	24.00
18700	18700	18898	16QAM	1	0	1	0	1	0	22.19	23.00
18900	18826	18997	16QAM	1	0	1	0	1	0	22.08	23.00
19100	18902	19100	16QAM	1	0	1	0	1	0	22.01	23.00
18700	18700	18898	64QAM	1	0	1	0	1	0	21.85	23.00
18900	18826	18997	64QAM	1	0	1	0	1	0	21.79	23.00
19100	18902	19100	64QAM	1	0	1	0	1	0	21.71	23.00
18700	18700	18898	QPSK	50	0	1	0	1	0	22.14	23.00
18900	18826	18997	QPSK	50	0	1	0	1	0	22.01	23.00
19100	18902	19100	QPSK	50	0	1	0	1	0	21.97	23.00
18700	18700	18898	QPSK	100	0	1	0	1	0	21.78	23.00
18900	18826	18997	QPSK	100	0	1	0	1	0	21.77	23.00
19100	18902	19100	QPSK	100	0	1	0	1	0	21.73	23.00

CA_4A-4A											
Combination:20MHz+20MHz(100RB+100RB)											
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
20050	20050	20300	QPSK	1	0	1	0	1	0	23.08	24.00
20050	20050	20300	16QAM	1	0	1	0	1	0	22.19	23.00
20050	20050	20300	64QAM	1	0	1	0	1	0	21.99	23.00
20050	20050	20300	QPSK	50	0	1	0	1	0	21.85	23.00
20050	20050	20300	QPSK	100	0	1	0	1	0	21.90	23.00

CA_5A-5A											
Combination:20MHz+20MHz(100RB+100RB)											
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up limit(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
20450	20450	20600	QPSK	1	0	0	0	1	0	23.05	24.00
20450	20450	20600	16QAM	1	0	0	0	1	0	22.01	23.00
20450	20450	20600	64QAM	1	0	0	0	1	0	21.77	23.00
20450	20450	20600	QPSK	50	0	0	0	1	0	22.37	23.00
20450	20450	20600	QPSK	50	0	0	0	1	0	21.88	23.00

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
2.4GHz WLAN ANT 1	802.11b 1Mbps	CH 1	2412	**15.07**	16.50	15.00	99.08
		CH 6	2437	15.20	16.00	15.00	
		CH 11	2462	15.24	16.00	15.00	
	802.11g 6Mbps	CH 1	2412	14.46	15.00	14.00	98.99
		CH 6	2437	14.55	15.00	14.00	
		CH 11	2462	14.40	15.00	14.00	
	802.11n-HT20 MCS0	CH 1	2412	13.35	14.00	13.00	99.02
		CH 6	2437	13.35	14.00	13.00	
		CH 11	2462	13.17	13.50	13.00	
	802.11ax-HEW20 MCS0（RU242）	CH 1	2412	12.60	13.00	12.00	99.09
		CH 6	2437	12.55	13.00	12.00	
		CH 11	2462	12.36	13.00	12.00	
	802.11ax-HEW20 MCS0（RU26）	CH 1	2412	11.82	12.50	12.00	98.94
		CH 6	2437	13.12	13.50	12.00	
		CH 11	2462	12.82	13.50	12.00	
	802.11ax-HEW40 MCS0（RU52）	CH 1	2412	11.56	12.00	12.00	98.43
		CH 6	2437	12.36	13.00	12.00	
		CH 11	2462	11.92	12.50	12.00	

	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	14.91	15.50	15.00	99.08
		CH 6	2437	**15.52**	16.00	15.00	
		CH 11	2462	15.15	15.50	15.00	
	802.11g 6Mbps	CH 1	2412	14.15	14.50	14.00	98.99
		CH 6	2437	14.62	15.00	14.00	
		CH 11	2462	14.44	15.00	14.00	
	802.11n-HT20 MCS0	CH 1	2412	12.82	13.50	13.00	99.02
		CH 6	2437	13.15	13.50	13.00	
		CH 11	2462	13.08	13.50	13.00	
	802.11ax-HEW20 MCS0（RU242）	CH 1	2412	11.84	12.50	12.00	99.09
		CH 6	2437	12.35	13.00	12.00	
		CH 11	2462	12.08	12.50	12.00	
	802.11ax-HEW20 MCS0（RU26）	CH 1	2412	11.81	12.50	12.00	98.94
		CH 6	2437	12.92	13.50	12.00	
		CH 11	2462	13.05	13.50	12.00	
	802.11ax-HEW40 MCS0（RU52）	CH 1	2412	11.92	12.50	12.00	98.43
		CH 6	2437	11.92	12.50	12.00	
		CH 11	2462	11.83	12.50	12.00	

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
5.2GHz WLAN ANT 1	802.11a 6Mbps	CH 36	5180	12.89	13.50	13.00	99.12
		CH 44	5220	12.24	13.00	13.00	
		CH 48	5240	12.05	12.50	13.00	
	802.11n-HT20 MCS0	CH 36	5180	12.90	13.50	13.00	98.88
		CH 44	5220	12.19	13.00	13.00	
		CH 48	5240	12.03	12.50	13.00	
	802.11n-HT40 MCS0	CH 38	5190	**12.98**	13.50	13.00	99.02
		CH 46	5230	12.26	13.00	13.00	
	802.11ac-VHT20 MCS0	CH 36	5180	11.44	12.00	12.00	99.16
		CH 44	5220	10.97	11.50	12.00	
		CH 48	5240	10.84	11.50	12.00	
	802.11ac-VHT40 MCS0	CH 38	5190	10.72	11.50	11.00	99.16
		CH 46	5230	10.24	11.00	11.00	
	802.11ac-VHT80 MCS0	CH 42	5210	10.76	11.50	11.00	98.88
	802.11ax-HEW20 MCS0（RU242）	CH 36	5180	11.39	12.00	12.00	98.94
		CH 44	5220	10.79	11.50	12.00	
		CH 48	5240	10.60	11.00	12.00	
	802.11ax-HEW20 MCS0（RU26）	CH 36	5180	9.46	10.00	12.00	98.94
		CH 44	5220	9.05	9.50	12.00	
		CH 48	5240	9.11	9.50	12.00	
	802.11ax-HEW40 MCS0	CH 38	5190	10.56	11.00	11.00	99.09
		CH 46	5230	10.04	10.50	11.00	
	802.11ax-HEW80 MCS0	CH 42	5210	10.70	11.00	11.00	98.94

	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	12.12	12.50	13.00	99.12
		CH 44	5220	11.88	12.50	13.00	
		CH 48	5240	12.28	12.50	13.00	
	802.11n-HT20 MCS0	CH 36	5180	11.96	12.50	13.00	98.88
		CH 44	5220	12.12	12.50	13.00	
		CH 48	5240	12.15	12.50	13.00	
	802.11n-HT40 MCS0	CH 38	5190	12.15	12.50	13.00	99.02
		CH 46	5230	**12.31**	13.00	13.00	
	802.11ac-VHT20 MCS0	CH 36	5180	10.17	10.50	12.00	99.16
		CH 44	5220	10.96	11.50	12.00	
		CH 48	5240	11.08	11.50	12.00	
	802.11ac-VHT40 MCS0	CH 38	5190	9.39	10.00	11.00	99.16
		CH 46	5230	9.49	10.00	11.00	
	802.11ac-VHT80 MCS0	CH 42	5210	9.68	10.00	11.00	98.88
	802.11ax-HEW20 MCS0（RU242）	CH 36	5180	10.67	11.00	12.00	98.94
		CH 44	5220	11.43	12.00	12.00	
		CH 48	5240	11.39	12.00	12.00	
	802.11ax-HEW20 MCS0（RU26）	CH 36	5180	8.12	8.50	11.00	98.94
		CH 44	5220	7.88	8.50	11.00	
		CH 48	5240	7.95	8.50	11.00	
	802.11ax-HEW40 MCS0	CH 38	5190	9.65	10.00	11.00	99.09
		CH 46	5230	9.65	10.00	11.00	
	802.11ax-HEW80 MCS0	CH 42	5210	9.86	10.50	11.00	98.94

	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	12.03	12.50	13.00	99.12
		CH 60	5300	**12.27**	13.00	13.00	
		CH 64	5320	12.23	13.00	11.00	
	802.11n-HT20 MCS0	CH 52	5260	12.01	12.50	13.00	98.88
		CH 60	5300	12.22	12.50	13.00	
		CH 64	5320	12.22	12.50	11.00	
	802.11n-HT40 MCS0	CH 54	5270	12.24	12.50	13.00	99.02
		CH 62	5310	12.16	12.50	11.00	
	802.11ac-VHT20 MCS0	CH 52	5260	10.81	11.50	12.00	99.16
		CH 60	5300	11.18	12.00	12.00	
		CH 64	5320	11.02	11.50	12.00	
	802.11ac-VHT40 MCS0	CH 54	5270	10.19	10.50	11.00	99.16
		CH 62	5310	10.22	11.00	9.00	
	802.11ac-VHT80 MCS0	CH 58	5290	10.68	11.50	11.00	98.88
	802.11ax-HEW20 MCS0（RU242）	CH 52	5260	10.76	11.50	12.00	98.94
		CH 60	5300	11.06	11.50	12.00	
		CH 64	5320	11.12	11.50	10.00	
	802.11ax-HEW20 MCS0（RU26）	CH 52	5260	8.98	9.50	12.00	98.94
		CH 60	5300	9.21	10.00	12.00	
		CH 64	5320	9.33	10.00	10.00	
	802.11ax-HEW40 MCS0	CH 54	5270	9.82	10.50	11.00	99.09
		CH 62	5310	9.91	10.50	11.00	
	802.11ax-HEW80 MCS0	CH 58	5290	10.58	11.00	11.00	98.94

	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	12.21	12.50	13.00	99.12
		CH 60	5300	12.51	13.00	13.00	
		CH 64	5320	12.65	13.00	13.00	
	802.11n-HT20 MCS0	CH 52	5260	12.28	13.00	13.00	98.88
		CH 60	5300	12.55	13.00	13.00	
		CH 64	5320	12.75	13.50	13.00	
	802.11n-HT40 MCS0	CH 54	5270	12.36	13.00	13.00	99.02
		CH 62	5310	**12.81**	13.50	13.00	
	802.11ac-VHT20 MCS0	CH 52	5260	11.18	11.50	12.00	99.16
		CH 60	5300	11.52	12.00	12.00	
		CH 64	5320	11.72	12.50	12.00	
	802.11ac-VHT40 MCS0	CH 54	5270	10.19	10.50	11.00	99.16
		CH 62	5310	10.60	11.00	11.00	
	802.11ac-VHT80 MCS0	CH 58	5290	10.46	11.00	11.00	98.88
	802.11ax-HEW20 MCS0（RU242）	CH 52	5260	11.61	12.00	12.00	98.94
		CH 60	5300	11.84	12.50	12.00	
		CH 64	5320	11.98	12.50	11.00	
	802.11ax-HEW20 MCS0（RU26）	CH 52	5260	8.01	8.50	11.00	98.94
		CH 60	5300	8.27	9.00	11.00	
		CH 64	5320	8.33	9.00	11.00	
	802.11ax-HEW40 MCS0	CH 54	5270	10.05	10.50	11.00	99.09
		CH 62	5310	10.44	11.00	11.00	
	802.11ax-HEW80 MCS0	CH 58	5290	10.50	11.00	11.00	98.94

	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	12.84	13.50	13.00	99.12
		CH 120	5600	12.62	13.00	13.00	
		CH 144	5720	12.24	13.00	13.00	
	802.11n-HT20 MCS0	CH 100	5500	12.85	13.50	13.00	98.88
		CH 120	5600	12.68	13.00	13.00	
		CH 144	5720	12.26	12.50	13.00	
	802.11n-HT40 MCS0	CH 102	5510	**13.03**	13.50	13.00	99.02
		CH 126	5630	12.45	13.00	13.00	
		CH 142	5710	12.38	13.00	13.00	
	802.11ac-VHT20 MCS0	CH 100	5500	11.71	12.50	12.00	99.16
		CH 120	5600	11.58	12.00	12.00	
		CH 144	5720	11.17	11.50	12.00	
	802.11ac-VHT40 MCS0	CH 102	5510	10.80	11.50	11.00	99.16
		CH 126	5630	10.61	11.00	11.00	
		CH 142	5710	10.51	11.00	11.00	
	802.11ac-VHT80 MCS0	CH 106	5530	10.86	11.50	11.00	98.88
		CH 122	5610	11.04	11.50	11.00	
		CH 138	5690	10.85	11.50	11.00	
	802.11ax-HEW20 MCS0（RU242）	CH 100	5500	11.70	12.50	12.00	98.94
		CH 120	5600	11.49	12.00	12.00	
		CH 144	5720	11.15	11.50	11.00	
	802.11ax-HEW20 MCS0（RU26）	CH 100	5500	9.74	10.50	12.00	98.94
		CH 120	5600	9.61	10.50	12.00	
		CH 144	5720	9.50	10.00	11.00	
	802.11ax-HEW40 MCS0	CH 102	5510	10.68	11.00	11.00	99.09
		CH 126	5630	10.47	11.00	11.00	
		CH 142	5710	10.33	11.00	11.00	
	802.11ax-HEW80 MCS0	CH 106	5530	10.92	11.50	11.00	98.94
		CH 122	5610	11.22	12.00	11.00	
		CH 138	5690	10.91	11.50	11.00	

	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	12.51	13.00	13.00	99.12
		CH 120	5600	12.59	13.00	13.00	
		CH 144	5720	12.05	12.50	13.00	
	802.11n-HT20 MCS0	CH 100	5500	12.48	13.00	13.00	98.88
		CH 120	5600	**12.66**	13.00	13.00	
		CH 144	5720	12.01	12.50	13.00	
	802.11n-HT40 MCS0	CH 102	5510	12.13	12.50	12.00	99.02
		CH 126	5630	12.25	13.00	13.00	
		CH 142	5710	12.08	12.50	13.00	
	802.11ac-VHT20 MCS0	CH 100	5500	11.25	12.50	11.00	99.16
		CH 120	5600	11.44	12.00	12.00	
		CH 144	5720	11.06	11.50	12.00	
	802.11ac-VHT40 MCS0	CH 102	5510	9.81	10.50	11.00	99.16
		CH 126	5630	9.56	10.00	11.00	
		CH 142	5710	9.28	9.50	11.00	
	802.11ac-VHT80 MCS0	CH 106	5530	9.77	10.50	11.00	98.88
		CH 122	5610	10.57	11.00	11.00	
		CH 138	5690	9.28	10.00	11.00	
	802.11ax-HEW20 MCS0（RU242）	CH 100	5500	11.20	11.50	12.00	98.94
		CH 120	5600	10.55	11.00	12.00	
		CH 144	5720	10.61	11.00	11.00	
	802.11ax-HEW20 MCS0（RU26）	CH 100	5500	8.41	9.00	12.00	98.94
		CH 120	5600	8.12	8.50	12.00	
		CH 144	5720	8.04	8.50	11.00	
	802.11ax-HEW40 MCS0	CH 102	5510	9.65	10.00	11.00	99.09
		CH 126	5630	9.39	10.00	11.00	
		CH 142	5710	9.08	9.50	11.00	
	802.11ax-HEW80 MCS0	CH 106	5530	9.74	10.50	11.00	98.94
		CH 122	5610	10.46	11.00	11.00	
		CH 138	5690	9.24	10.00	11.00	

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
5.8GHz WLAN ANT 1	802.11a MCS0	CH 149	5745	12.56	13.00	13.00	99.12
		CH 157	5785	12.58	13.00	13.00	
		CH 165	5825	12.56	13.00	13.00	
	802.11n-HT20 MCS0	CH 149	5745	12.59	13.00	13.00	98.88
		CH 157	5785	12.59	13.00	13.00	
		CH 165	5825	12.59	13.00	13.00	
	802.11n-HT40 MCS0	CH 151	5755	**13.06**	13.50	13.00	99.02
		CH 159	5795	13.03	13.50	13.00	
	802.11ac-VHT20 MCS0	CH 149	5745	11.49	12.00	12.00	99.16
		CH 157	5785	11.54	12.00	12.00	
		CH 165	5825	11.62	12.00	12.00	
	802.11ac-VHT40 MCS0	CH 151	5755	10.84	11.50	11.00	99.16
		CH 159	5795	10.62	11.00	11.00	
	802.11ac-VHT80 MCS0	CH 155	5775	11.20	11.50	11.00	98.88
	802.11ax-HEW20 MCS0（RU242）	CH 149	5745	11.40	12.00	12.00	98.94
		CH 157	5785	11.42	12.00	12.00	
		CH 165	5825	11.48	12.00	12.00	
	802.11ax-HEW20 MCS0（RU26）	CH 149	5745	9.58	10.00	12.00	98.94
		CH 157	5785	9.66	10.00	12.00	
		CH 165	5825	9.73	10.50	12.00	
	802.11ax-HEW40 MCS0	CH 151	5755	10.75	11.50	11.00	99.09
		CH 159	5795	10.63	11.00	11.00	
	802.11ax-HEW80 MCS0	CH 155	5775	11.25	12.00	11.00	98.94

	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	**12.05**	12.50	13.00	99.12
		CH 157	5785	11.68	12.00	13.00	
		CH 165	5825	11.48	12.00	13.00	
	802.11n-HT20 MCS0	CH 149	5745	11.97	12.50	13.00	98.88
		CH 157	5785	11.58	12.00	13.00	
		CH 165	5825	11.45	12.00	13.00	
	802.11n-HT40 MCS0	CH 151	5755	11.97	12.50	13.00	99.02
		CH 159	5795	11.70	12.50	13.00	
	802.11ac-VHT20 MCS0	CH 149	5745	11.15	11.50	12.00	99.16
		CH 157	5785	10.78	11.50	12.00	
		CH 165	5825	10.84	11.50	12.00	
	802.11ac-VHT40 MCS0	CH 151	5755	9.10	9.50	11.00	99.16
		CH 159	5795	9.02	9.50	11.00	
	802.11ac-VHT80 MCS0	CH 155	5775	8.99	9.50	11.00	98.88
	802.11ax-HEW20 MCS0（RU242）	CH 149	5745	10.21	11.00	12.00	98.94
		CH 157	5785	10.33	11.50	12.00	
		CH 165	5825	10.77	11.50	12.00	
	802.11ax-HEW20 MCS0（RU26）	CH 149	5745	8.05	8.50	12.00	98.94
		CH 157	5785	8.11	8.50	12.00	
		CH 165	5825	8.00	8.50	12.00	
	802.11ax-HEW40 MCS0	CH 151	5755	8.91	9.50	11.00	99.09
		CH 159	5795	8.35	9.00	11.00	
	802.11ax-HEW80 MCS0	CH 155	5775	8.65	9.50	11.00	98.94

Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
BR / EDR	CH 00	2402	12.54	8.43	8.45
	CH 39	2441	12.8	8.65	8.5
	CH 78	2480	10.7	6.25	5.45
Tune-up Limit			13.5	9	9
Duty Cycle %			76.8	76.8	76.8

Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
LE	CH 00	2402	6.75	4.26	N/A
	CH 19	2440	7.56	5.13	N/A
	CH 39	2480	6.25	3.62	N/A
Tune-up Limit			8.00	6.00	N/A
Duty Cycle %			61.54	32.54	N/A

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
2.4GHz WLAN ANT 1+2	802.11b 1Mbps	CH 1	2412	18.33	19.00	13.00	99.08
		CH 6	2437	18.39	19.00	13.00	
		CH 11	2462	18.26	19.00	13.00	
	802.11g 6Mbps	CH 1	2412	17.32	18.00	12.00	98.99
		CH 6	2437	17.63	18.00	12.00	
		CH 11	2462	17.48	18.00	12.00	
	802.11n-HT20 MCS0	CH 1	2412	16.13	17.00	12.00	99.02
		CH 6	2437	16.33	17.00	12.00	
		CH 11	2462	16.13	17.00	12.00	
	802.11ax-HEW20 MCS0（RU242）	CH 1	2412	15.31	16.00	12.00	99.09
		CH 6	2437	15.44	16.00	12.00	
		CH 11	2462	15.31	16.00	12.00	
	802.11ax-HEW20 MCS0（RU26）	CH 1	2422	14.91	15.50	12.00	98.94
		CH 6	2442	16.13	17.00	12.00	
		CH 11	2462	16.02	16.50	12.00	
	802.11ax-HEW40 MCS0（RU52）	CH 1	2412	14.77	15.50	12.00	98.43
		CH 6	2437	15.19	16.00	12.00	
		CH 11	2462	14.91	15.50	12.00	

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
5.2GHz WLAN ANT 1+2	802.11a 6Mbps	CH 36	5180	**15.56**	16.00	13	99.12
		CH 44	5220	15.05	15.50	13	
		CH 48	5240	15.19	16.00	13	
	802.11n-HT20 MCS0	CH 36	5180	15.56	16.00	12.00	98.88
		CH 44	5220	15.19	16.00	12.00	
		CH 48	5240	15.19	16.00	12.00	
	802.11n-HT40 MCS0	CH 38	5190	15.68	16.00	12.00	99.02
		CH 46	5230	15.31	16.00	12.00	
	802.11ac-VHT20 MCS0	CH 36	5180	13.98	14.50	11.00	99.16
		CH 44	5220	13.98	14.50	11.00	
		CH 48	5240	13.98	14.50	11.00	
	802.11ac-VHT40 MCS0	CH 38	5190	**13.22**	14.00	10.00	99.16
		CH 46	5230	13.01	13.50	10.00	
	802.11ac-VHT80 MCS0	CH 42	5210	13.22	14.00	10.00	98.88
	802.11ax-HEW20 MCS0（RU242）	CH 36	5180	**14.15**	15.00	11.00	98.94
		CH 44	5220	**14.15**	15.00	11.00	
		CH 48	5240	**14.15**	15.00	11.00	
	802.11ax-HEW20 MCS0（RU26）	CH 36	5180	11.76	12.50	11.00	98.94
		CH 44	5220	11.46	12.00	11.00	
		CH 48	5240	11.76	12.50	11.00	
	802.11ax-HEW40 MCS0	CH 38	5190	13.22	14.00	10.00	99.09
		CH 46	5230	12.79	13.50	10.00	
	802.11ax-HEW80 MCS0	CH 42	5210	13.42	14.00	10.00	98.94

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
5.3GHz WLAN ANT 1+2	802.11a 6Mbps	CH 52	5260	15.19	16.00	13	99.12
		CH 60	5300	15.44	16.00	13	
		CH 64	5320	15.44	16.00	13	
	802.11n-HT20 MCS0	CH 52	5260	15.19	16.00	12.00	98.88
		CH 60	5300	15.44	16.00	12.00	
		CH 64	5320	**15.56**	16.00	12.00	
	802.11n-HT40 MCS0	CH 54	5270	15.31	16.00	12.00	99.02
		CH 62	5310	15.56	16.00	12.00	
	802.11ac-VHT20 MCS0	CH 52	5260	13.98	14.50	12.00	99.16
		CH 60	5300	14.47	15.00	11.00	
		CH 64	5320	14.47	15.00	11.00	
	802.11ac-VHT40 MCS0	CH 54	5270	13.22	14.00	10.00	99.16
		CH 62	5310	13.42	14.00	10.00	
	802.11ac-VHT80 MCS0	CH 58	5290	13.62	14.00	10.00	98.88
	802.11ax-HEW20 MCS0（RU242）	CH 52	5260	14.31	15.00	11.00	98.94
		CH 60	5300	14.47	15.00	11.00	
		CH 64	5320	14.62	15.00	11.00	
	802.11ax-HEW20 MCS0（RU26）	CH 52	5260	11.46	12.00	11.00	98.94
		CH 60	5300	11.76	12.50	11.00	
		CH 64	5320	12.04	12.50	11.00	
	802.11ax-HEW40 MCS0	CH 54	5270	13.01	13.50	10.00	99.09
		CH 62	5310	13.22	14.00	10.00	
	802.11ax-HEW80 MCS0	CH 58	5290	13.62	14.00	10.00	98.94

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
5.5GHz WLAN ANT 1+2	802.11a 6Mbps	CH 100	5500	**15.68**	16.50	13	99.12
		CH 116	5580	**15.68**	16.50	13	
		CH 144	5720	15.19	16.00	13	
	802.11n-HT20 MCS0	CH 100	5500	15.68	16.50	12.00	98.88
		CH 116	5580	15.44	16.00	12.00	
		CH 144	5720	15.31	16.00	12.00	
	802.11n-HT40 MCS0	CH 102	5510	15.68	16.50	12.00	98.88
		CH 126	5630	15.44	16.00	12.00	
		CH 142	5710	15.31	16.00	12.00	
	802.11ac-VHT20 MCS0	CH 100	5500	14.47	15.00	11.00	99.16
		CH 116	5580	14.62	15.00	11.00	
		CH 144	5720	14.15	15.00	11.00	
	802.11ac-VHT40 MCS0	CH 102	5510	13.42	14.00	10.00	99.16
		CH 126	5630	13.22	14.00	10.00	
		CH 142	5710	13.01	13.50	10.00	
	802.11ac-VHT80 MCS0	CH 106	5530	13.42	14.00	10.00	98.88
		CH 122	5610	13.80	14.50	10.00	
		CH 138	5690	**13.22**	14.00	10.00	
	802.11ax-HEW20 MCS0（RU242）	CH 116	5580	**14.47**	15.00	11.00	98.94
		CH 144	5720	14.15	15.00	11.00	
		CH 102	5510	13.98	14.50	11.00	
	802.11ax-HEW20 MCS0（RU26）	CH 100	5500	12.30	13.00	11.00	98.94
		CH 120	5600	12.04	12.50	11.00	
		CH 144	5720	11.76	12.50	11.00	
	802.11ax-HEW40 MCS0	CH 102	5510	13.22	14.00	10.00	99.09
		CH 126	5630	13.01	13.50	10.00	
		CH 142	5710	12.79	13.50	10.00	
	802.11ax-HEW80 MCS0	CH 106	5530	13.42	14.00	10.00	98.94
		CH 122	5610	13.98	14.50	10.00	
		CH 138	5690	13.22	14.00	10.00	

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
5.8GHz WLAN ANT 1+2	802.11a MCS0	CH 149	5745	15.31	16.00	13.00	99.12
		CH 157	5785	15.19	16.00	13.00	
		CH 165	5825	15.05	15.50	13.00	
	802.11n-HT20 MCS0	CH 149	5745	15.31	16.00	10.00	98.88
		CH 157	5785	15.19	16.00	10.00	
		CH 165	5825	15.05	15.50	10.00	
	802.11n-HT40 MCS0	CH 151	5755	15.56	16.00	10.00	99.02
		CH 159	5795	15.44	16.00	10.00	
	802.11ac-VHT20 MCS0	CH 149	5745	14.31	15.00	10.00	99.16
		CH 157	5785	14.15	15.00	10.00	
		CH 165	5825	14.31	15.00	10.00	
	802.11ac-VHT40 MCS0	CH 151	5755	13.01	13.50	10.00	99.16
		CH 159	5795	13.01	13.50	10.00	
	802.11ac-VHT80 MCS0	CH 155	5775	13.22	14.00	10.00	98.88
	802.11ax-HEW20 MCS0（RU242）	CH 149	5745	13.98	14.50	10.00	98.94
		CH 157	5785	14.15	15.00	10.00	
		CH 165	5825	14.15	15.00	10.00	
	802.11ax-HEW20 MCS0（RU26）	CH 149	5745	12.04	12.50	11.00	98.94
		CH 157	5785	12.04	12.50	11.00	
		CH 165	5825	12.04	12.50	11.00	
	802.11ax-HEW40 MCS0	CH 151	5755	13.01	13.50	10.00	99.09
		CH 159	5795	12.79	13.50	10.00	
	802.11ax-HEW80 MCS0	CH 155	5775	13.22	14.00	10.00	98.94

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	30.91	30.54	30.55	32.00	21.91	21.54	21.55	23.00	0.41
GPRS 1 Tx slot	30.94	30.53	30.64	32.00	21.94	21.53	21.64	23.00	
GPRS 2 Tx slots	30.11	30.06	30.00	31.00	24.11	24.06	24.00	25.00	0.11
GPRS 3 Tx slots	28.10	27.99	28.12	29.00	23.84	23.73	23.86	24.74	0.13
GPRS 4 Tx slots	26.04	25.93	25.94	27.00	23.04	22.93	22.94	24.00	0.11
EDGE 1 Tx slot	25.54	25.52	25.54	27.50	16.54	16.52	16.54	18.50	0.02
EDGE 2 Tx slots	24.97	24.87	24.59	25.50	18.97	18.87	18.59	19.50	0.38
EDGE 3 Tx slots	22.82	22.92	22.78	23.50	18.56	18.66	18.52	19.24	0.14
EDGE 4 Tx slots	20.72	20.81	20.73	21.50	17.72	17.81	17.73	18.50	0.09
Mode		Max.	30.94			Max.	24.11		

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	25.47	25.33	25.51	26.50	16.47	16.33	16.51	17.50	0.29
GPRS 1 Tx slot	25.38	25.22	25.45	26.50	16.38	16.22	16.45	17.50	
GPRS 2 Tx slots	24.11	24.13	24.48	25.50	18.11	18.13	18.48	19.50	0.37
GPRS 3 Tx slots	21.85	21.83	22.11	23.50	17.59	17.57	17.85	19.24	0.28
GPRS 4 Tx slots	20.18	19.93	20.18	21.50	17.18	16.93	17.18	18.50	0.25
EDGE 1 Tx slot	22.30	22.28	22.47	23.50	13.30	13.28	13.47	14.50	0.19
EDGE 2 Tx slots	20.18	20.13	20.24	21.50	14.18	14.13	14.24	15.50	0.11
EDGE 3 Tx slots	18.05	17.95	18.13	19.50	13.79	13.69	13.87	15.24	0.18
EDGE 4 Tx slots	16.17	15.97	16.03	17.50	13.17	12.97	13.03	14.50	0.20
Mode		Max.	25.51			Max.	18.48		

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	16.90	17.04	17.06	18.00	20.24	20.14	20.27	21.00	20.07	20.06	20.18	21.00
3GPP Rel 6	HSDPA Subtest-1	15.78	15.94	15.92	16.50	19.06	19.04	18.97	20.00	19.02	19.05	18.98	20.00
3GPP Rel 6	HSDPA Subtest-2	15.73	15.92	15.98	17.50	19.10	19.08	18.92	20.00	19.05	19.15	18.96	19.00
3GPP Rel 6	HSDPA Subtest-3	15.31	15.45	15.45	17.00	18.54	18.50	18.50	19.50	18.55	18.54	18.41	18.50
3GPP Rel 6	HSDPA Subtest-4	15.30	15.43	15.52	17.00	18.57	18.51	18.46	18.50	18.49	18.61	18.51	18.50
3GPP Rel 8	DC-HSDPA Subtest-1	15.46	15.57	15.61	16.50	18.64	18.72	18.79	19.50	19.04	19.12	19.08	20.00
3GPP Rel 8	DC-HSDPA Subtest-2	15.39	15.49	15.54	17.50	18.58	18.75	18.78	18.50	18.30	18.34	18.36	19.00
3GPP Rel 8	DC-HSDPA Subtest-3	15.00	15.49	15.42	17.00	18.47	18.67	18.70	18.00	19.03	19.09	19.06	20.00
3GPP Rel 8	DC-HSDPA Subtest-4	14.99	15.06	15.04	17.00	18.14	18.33	18.18	18.00	18.78	18.85	18.80	19.50
3GPP Rel 6	HSUPA Subtest-1	15.85	15.96	15.97	16.50	19.17	19.10	18.92	20.00	19.01	19.14	19.02	20.00
3GPP Rel 6	HSUPA Subtest-2	15.23	15.41	15.46	16.00	18.58	18.55	18.40	19.00	18.56	18.63	18.49	19.00
3GPP Rel 6	HSUPA Subtest-3	15.82	15.91	15.93	16.50	19.07	19.03	18.97	19.50	19.03	19.12	18.99	20.00
3GPP Rel 6	HSUPA Subtest-4	15.74	15.87	15.91	16.50	19.07	19.08	18.96	19.50	19.00	19.08	18.97	20.00
3GPP Rel 6	HSUPA Subtest-5	15.77	15.94	16.00	16.50	19.06	19.09	19.06	19.50	19.01	19.07	19.00	20.00
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	15.26	15.50	15.48	16.00	18.56	18.52	18.41	19.00	18.50	18.58	18.51	19.00
Mode			Max.	17.06			Max.	20.27			Max.	20.18	

Band	CDMA2000 BC0			Tune-up Limit (dBm)	CDMA2000 BC1			Tune-up Limit (dBm)	BC0	BC1
TX Channel	1013	384	777		25	600	1175		Ch Delta > 0.5	
Frequency (MHz)	824.7	836.52	848.31		1851.25	1880	1908.75			
RC1 SO55	23.69	23.55	23.51	24.50	19.35	19.41	19.45	20.50	0.32	0.36
RC3 SO55	23.71	23.65	23.73	24.50	19.53	19.51	19.49	20.50		
RC3 SO32 (F+SCH)	23.79	23.60	23.70	24.50	19.56	19.71	19.64	20.50		
RC3 SO32 (+SCH)	23.66	23.47	23.62	24.50	19.55	19.59	19.47	20.50		
Mode		Max.	23.79			Max.	19.71			

Band 2 (1900MHz Band)
Part 24E

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				18700	18900	19100	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	17.97	18.01	17.96	19
20	QPSK	1	49	17.74	17.78	17.78	
20	QPSK	1	99	17.51	17.66	17.54	
20	QPSK	50	0	16.99	17.10	16.96	18
20	QPSK	50	24	16.83	16.98	16.91	
20	QPSK	50	50	16.80	17.01	16.81	
20	QPSK	100	0	16.73	16.95	16.73	
20	16QAM	1	0	17.22	17.26	17.32	18
20	16QAM	1	49	17.14	17.18	17.32	
20	16QAM	1	99	16.95	17.06	17.16	
20	16QAM	50	0	16.78	16.75	16.92	18
20	16QAM	50	24	16.71	16.70	16.91	
20	16QAM	50	50	16.63	16.56	16.78	
20	16QAM	100	0	16.56	16.51	16.72	
20	64QAM	1	0	17.17	17.17	17.21	18
20	64QAM	1	49	17.11	17.20	17.19	
20	64QAM	1	99	16.96	16.96	17.06	
20	64QAM	50	0	16.76	16.71	16.78	18
20	64QAM	50	24	16.64	16.60	16.80	
20	64QAM	50	50	16.67	16.60	16.73	
20	64QAM	100	0	16.61	16.47	16.65	
Channel				18675	18900	19125	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	17.94	17.97	17.91	19
15	QPSK	1	37	17.74	17.80	17.76	
15	QPSK	1	74	17.59	17.67	17.60	
15	QPSK	36	0	16.96	17.09	16.99	18
15	QPSK	36	20	16.90	17.03	16.92	
15	QPSK	36	39	16.85	16.98	16.86	
15	QPSK	75	0	16.79	16.93	16.80	
15	16QAM	1	0	17.28	17.33	17.38	18
15	16QAM	1	37	17.17	17.24	17.35	
15	16QAM	1	74	17.04	17.12	17.25	
15	16QAM	36	0	16.76	16.77	16.94	18
15	16QAM	36	20	16.67	16.70	16.91	
15	16QAM	36	39	16.63	16.61	16.82	
15	16QAM	75	0	16.55	16.54	16.80	
15	64QAM	1	0	17.25	17.22	17.26	18
15	64QAM	1	37	17.18	17.19	17.18	
15	64QAM	1	74	17.03	16.99	17.05	
15	64QAM	36	0	16.77	16.73	16.85	18
15	64QAM	36	20	16.72	16.69	16.78	
15	64QAM	36	39	16.65	16.59	16.73	
15	64QAM	75	0	16.57	16.55	16.66	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	17.89	17.94	17.87	19
10	QPSK	1	25	17.68	17.75	17.70	
10	QPSK	1	49	17.55	17.63	17.55	
10	QPSK	25	0	16.93	17.05	16.96	18
10	QPSK	25	12	16.84	16.99	16.87	
10	QPSK	25	25	16.81	16.93	16.82	
10	QPSK	50	0	16.75	16.90	16.76	
10	16QAM	1	0	17.24	17.29	17.34	18
10	16QAM	1	25	17.12	17.19	17.32	
10	16QAM	1	49	16.99	17.09	17.21	
10	16QAM	25	0	16.71	16.72	16.88	18
10	16QAM	25	12	16.63	16.64	16.85	
10	16QAM	25	25	16.58	16.56	16.79	
10	16QAM	50	0	16.49	16.48	16.75	
10	64QAM	1	0	17.20	17.18	17.21	18
10	64QAM	1	25	17.13	17.15	17.14	
10	64QAM	1	49	16.98	16.95	17.02	
10	64QAM	25	0	16.73	16.70	16.81	18
10	64QAM	25	12	16.67	16.65	16.75	
10	64QAM	25	25	16.59	16.55	16.67	
10	64QAM	50	0	16.53	16.51	16.60	
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	17.90	17.91	17.86	19
5	QPSK	1	12	17.70	17.75	17.72	
5	QPSK	1	24	17.56	17.62	17.57	
5	QPSK	12	0	16.93	17.05	16.94	18
5	QPSK	12	7	16.87	16.98	16.87	
5	QPSK	12	13	16.80	16.93	16.82	
5	QPSK	25	0	16.74	16.90	16.76	
5	16QAM	1	0	17.24	17.27	17.34	18
5	16QAM	1	12	17.12	17.19	17.31	
5	16QAM	1	24	17.01	17.07	17.21	
5	16QAM	12	0	16.71	16.74	16.88	18
5	16QAM	12	7	16.63	16.67	16.85	
5	16QAM	12	13	16.59	16.57	16.79	
5	16QAM	25	0	16.51	16.51	16.76	
5	64QAM	1	0	17.21	17.17	17.21	18
5	64QAM	1	12	17.15	17.15	17.13	
5	64QAM	1	24	17.00	16.94	17.01	
5	64QAM	12	0	16.72	16.67	16.80	18
5	64QAM	12	7	16.67	16.63	16.75	
5	64QAM	12	13	16.62	16.56	16.69	
5	64QAM	25	0	16.53	16.50	16.63	
Channel				18615	18900	19185	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	17.85	17.87	17.83	19
3	QPSK	1	8	17.66	17.70	17.68	
3	QPSK	1	14	17.50	17.57	17.53	
3	QPSK	8	0	16.90	17.02	16.89	18
3	QPSK	8	4	16.84	16.95	16.83	
3	QPSK	8	7	16.77	16.88	16.78	
3	QPSK	15	0	16.70	16.86	16.72	
3	16QAM	1	0	17.19	17.22	17.29	

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

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20050	20175	20300	
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	18.10	18.18	18.16	19
20	QPSK	1	49	17.91	17.88	17.90	
20	QPSK	1	99	17.78	17.75	17.74	
20	QPSK	50	0	17.06	17.06	17.05	18
20	QPSK	50	24	16.97	16.98	17.03	
20	QPSK	50	50	16.90	16.90	16.91	
20	QPSK	100	0	16.96	16.97	16.91	
20	16QAM	1	0	17.37	17.41	17.29	18
20	16QAM	1	49	17.31	17.27	17.23	
20	16QAM	1	99	17.12	17.13	17.12	
20	16QAM	50	0	16.90	16.85	16.83	18
20	16QAM	50	24	16.83	16.78	16.73	
20	16QAM	50	50	16.81	16.76	16.72	
20	16QAM	100	0	16.67	16.69	16.58	
20	64QAM	1	0	17.19	17.31	17.17	18
20	64QAM	1	49	17.19	17.12	17.03	
20	64QAM	1	99	17.04	17.01	16.94	
20	64QAM	50	0	16.97	17.06	16.93	18
20	64QAM	50	24	16.88	16.95	16.86	
20	64QAM	50	50	16.88	16.91	16.76	
20	64QAM	100	0	16.73	16.85	16.77	
Channel				20025	20175	20325	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	18.09	18.12	18.10	19
15	QPSK	1	37	17.88	17.86	17.92	
15	QPSK	1	74	17.76	17.75	17.74	
15	QPSK	36	0	17.05	17.05	17.03	18
15	QPSK	36	20	16.98	16.94	16.96	
15	QPSK	36	39	16.93	16.86	16.93	
15	QPSK	75	0	16.89	16.90	16.88	
15	16QAM	1	0	17.40	17.38	17.32	18
15	16QAM	1	37	17.26	17.24	17.17	
15	16QAM	1	74	17.14	17.14	17.09	
15	16QAM	36	0	16.88	16.85	16.78	18
15	16QAM	36	20	16.85	16.81	16.70	
15	16QAM	36	39	16.78	16.73	16.66	
15	16QAM	75	0	16.71	16.66	16.59	
15	64QAM	1	0	17.21	17.31	17.16	18
15	64QAM	1	37	17.09	17.12	17.05	
15	64QAM	1	74	17.03	17.03	16.93	
15	64QAM	36	0	16.92	16.97	16.85	18
15	64QAM	36	20	16.86	16.92	16.81	
15	64QAM	36	39	16.82	16.89	16.77	
15	64QAM	75	0	16.74	16.81	16.69	
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	18.08	18.12	18.11	19
10	QPSK	1	25	17.88	17.85	17.93	
10	QPSK	1	49	17.78	17.74	17.77	
10	QPSK	25	0	17.04	17.06	17.04	18
10	QPSK	25	12	16.98	16.95	16.98	
10	QPSK	25	25	16.94	16.86	16.91	
10	QPSK	50	0	16.86	16.88	16.86	
10	16QAM	1	0	17.38	17.39	17.31	18
10	16QAM	1	25	17.26	17.26	17.18	
10	16QAM	1	49	17.14	17.14	17.08	
10	16QAM	25	0	16.90	16.87	16.77	18
10	16QAM	25	12	16.85	16.81	16.72	
10	16QAM	25	25	16.77	16.74	16.65	
10	16QAM	50	0	16.71	16.67	16.57	
10	64QAM	1	0	17.20	17.30	17.14	18
10	64QAM	1	25	17.10	17.13	17.06	
10	64QAM	1	49	17.04	17.03	16.94	
10	64QAM	25	0	16.94	17.00	16.86	18
10	64QAM	25	12	16.87	16.94	16.81	
10	64QAM	25	25	16.81	16.89	16.77	
10	64QAM	50	0	16.75	16.80	16.71	
Channel				19975	20175	20375	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	18.08	18.13	18.11	19
5	QPSK	1	12	17.89	17.84	17.94	
5	QPSK	1	24	17.77	17.73	17.79	
5	QPSK	12	0	17.06	17.06	17.05	18
5	QPSK	12	7	16.98	16.96	16.99	
5	QPSK	12	13	16.93	16.88	16.93	
5	QPSK	25	0	16.85	16.88	16.87	
5	16QAM	1	0	17.38	17.39	17.33	18
5	16QAM	1	12	17.28	17.26	17.18	
5	16QAM	1	24	17.15	17.14	17.09	
5	16QAM	12	0	16.89	16.86	16.79	18
5	16QAM	12	7	16.86	16.81	16.72	
5	16QAM	12	13	16.76	16.74	16.66	
5	16QAM	25	0	16.72	16.68	16.56	
5	64QAM	1	0	17.22	17.30	17.15	18
5	64QAM	1	12	17.10	17.14	17.07	
5	64QAM	1	24	17.06	17.03	16.95	
5	64QAM	12	0	16.94	17.00	16.86	18
5	64QAM	12	7	16.88	16.94	16.81	
5	64QAM	12	13	16.81	16.90	16.77	
5	64QAM	25	0	16.75	16.80	16.71	
Channel				19965	20175	20385	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1732.5	1753.5	
3	QPSK	1	0	18.08	18.11	18.11	19
3	QPSK	1	8	17.88	17.85	17.93	
3	QPSK	1	14	17.80	17.75	17.78	
3	QPSK	8	0	17.03	17.06	17.06	18
3	QPSK	8	4	16.97	16.95	16.99	
3	QPSK	8	7	16.93	16.87	16.92	
3	QPSK	15	0	16.86	16.88	16.86	
3	16QAM	1	0	17.40	17.39	17.33	

3	16QAM	1	8	17.08	17.14	17.26	18
3	16QAM	1	14	16.96	17.03	17.18	
3	16QAM	8	0	16.66	16.68	16.85	18
3	16QAM	8	4	16.59	16.62	16.81	
3	16QAM	8	7	16.53	16.53	16.74	
3	16QAM	15	0	16.48	16.47	16.72	
3	64QAM	1	0	17.17	17.12	17.17	18
3	64QAM	1	8	17.11	17.10	17.08	
3	64QAM	1	14	16.96	16.90	16.96	
3	64QAM	8	0	16.67	16.64	16.77	18
3	64QAM	8	4	16.61	16.57	16.71	
3	64QAM	8	7	16.58	16.51	16.65	
3	64QAM	15	0	16.49	16.46	16.59	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	17.81	17.81	17.77	19
1.4	QPSK	1	3	17.63	17.66	17.65	
1.4	QPSK	1	5	17.50	17.54	17.49	
1.4	QPSK	3	0	16.85	16.97	16.87	
1.4	QPSK	3	1	16.76	16.91	16.78	
1.4	QPSK	3	3	16.72	16.84	16.76	
1.4	QPSK	6	0	16.65	16.82	16.67	18
1.4	16QAM	1	0	17.12	17.19	17.26	18
1.4	16QAM	1	3	17.03	17.09	17.20	
1.4	16QAM	1	5	16.92	16.99	17.13	
1.4	16QAM	3	0	16.62	16.66	16.76	
1.4	16QAM	3	1	16.53	16.59	16.73	
1.4	16QAM	3	3	16.51	16.49	16.72	
1.4	16QAM	6	0	16.43	16.42	16.68	18
1.4	64QAM	1	0	17.12	17.07	17.10	18
1.4	64QAM	1	3	17.07	17.05	17.03	
1.4	64QAM	1	5	16.90	16.86	16.93	
1.4	64QAM	3	0	16.65	16.59	16.70	
1.4	64QAM	3	1	16.56	16.54	16.64	
1.4	64QAM	3	3	16.55	16.49	16.61	
1.4	64QAM	6	0	16.44	16.42	16.52	18

3	16QAM	1	8	17.28	17.27	17.19	18
3	16QAM	1	14	17.14	17.14	17.08	
3	16QAM	8	0	16.92	16.89	16.77	18
3	16QAM	8	4	16.85	16.82	16.72	
3	16QAM	8	7	16.77	16.75	16.67	
3	16QAM	15	0	16.71	16.69	16.59	
3	64QAM	1	0	17.20	17.31	17.15	18
3	64QAM	1	8	17.11	17.14	17.05	
3	64QAM	1	14	17.06	17.05	16.96	
3	64QAM	8	0	16.95	16.99	16.87	18
3	64QAM	8	4	16.88	16.94	16.83	
3	64QAM	8	7	16.82	16.91	16.76	
3	64QAM	15	0	16.75	16.80	16.70	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	18.02	18.08	18.06	19
1.4	QPSK	1	3	17.83	17.80	17.89	
1.4	QPSK	1	5	17.75	17.71	17.74	
1.4	QPSK	3	0	16.99	17.01	17.02	
1.4	QPSK	3	1	16.92	16.91	16.93	
1.4	QPSK	3	3	16.88	16.82	16.86	
1.4	QPSK	6	0	16.81	16.84	16.81	18
1.4	16QAM	1	0	17.37	17.34	17.27	18
1.4	16QAM	1	3	17.24	17.22	17.14	
1.4	16QAM	1	5	17.10	17.10	17.03	
1.4	16QAM	3	0	16.89	16.86	16.73	
1.4	16QAM	3	1	16.81	16.77	16.68	
1.4	16QAM	3	3	16.73	16.70	16.61	
1.4	16QAM	6	0	16.65	16.63	16.56	18
1.4	64QAM	1	0	17.17	17.25	17.11	18
1.4	64QAM	1	3	17.06	17.11	16.99	
1.4	64QAM	1	5	17.01	17.01	16.93	
1.4	64QAM	3	0	16.91	16.94	16.84	
1.4	64QAM	3	1	16.85	16.91	16.79	
1.4	64QAM	3	3	16.77	16.88	16.71	
1.4	64QAM	6	0	16.70	16.76	16.66	18

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

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20450	20525	20600	
Frequency (MHz)				829	836.5	844	
10	QPSK	1	0	19.98	20.14	20.11	21
10	QPSK	1	25	19.77	19.88	19.84	
10	QPSK	1	49	19.63	19.74	19.76	
10	QPSK	25	0	18.98	19.19	19.13	20
10	QPSK	25	12	18.96	19.06	19.17	
10	QPSK	25	25	18.87	19.09	19.00	
10	QPSK	50	0	18.89	19.00	19.01	
10	16QAM	1	0	19.47	19.64	19.59	20
10	16QAM	1	25	19.45	19.40	19.44	
10	16QAM	1	49	19.19	19.28	19.29	
10	16QAM	25	0	18.81	18.86	18.94	20
10	16QAM	25	12	18.73	18.79	18.85	
10	16QAM	25	25	18.73	18.85	18.77	
10	16QAM	50	0	18.65	18.68	18.76	
10	64QAM	1	0	19.14	19.23	19.33	20
10	64QAM	1	25	19.03	19.06	19.17	
10	64QAM	1	49	18.86	18.89	19.00	
10	64QAM	25	0	18.72	18.85	19.03	20
10	64QAM	25	12	18.70	18.76	18.91	
10	64QAM	25	25	18.70	18.69	18.90	
10	64QAM	50	0	18.61	18.65	18.82	
Channel				20425	20525	20625	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	QPSK	1	0	19.99	20.08	20.01	21
5	QPSK	1	12	19.79	19.83	19.84	
5	QPSK	1	24	19.52	19.78	19.73	
5	QPSK	12	0	18.93	19.11	19.14	20
5	QPSK	12	7	18.93	19.03	19.10	
5	QPSK	12	13	18.86	18.98	19.00	
5	QPSK	25	0	18.85	18.97	18.97	
5	16QAM	1	0	19.45	19.52	19.56	20
5	16QAM	1	12	19.36	19.38	19.41	
5	16QAM	1	24	19.21	19.30	19.17	
5	16QAM	12	0	18.78	18.91	18.89	20
5	16QAM	12	7	18.76	18.81	18.82	
5	16QAM	12	13	18.65	18.76	18.76	
5	16QAM	25	0	18.63	18.72	18.73	
5	64QAM	1	0	19.08	19.28	19.19	20
5	64QAM	1	12	19.01	19.07	19.21	
5	64QAM	1	24	18.92	18.85	18.97	
5	64QAM	12	0	18.74	18.85	19.00	20
5	64QAM	12	7	18.71	18.75	18.90	
5	64QAM	12	13	18.67	18.64	18.83	
5	64QAM	25	0	18.51	18.65	18.77	
Channel				20415	20525	20635	Tune-up limit (dBm)
Frequency (MHz)				825.5	836.5	847.5	
3	QPSK	1	0	20.01	20.06	20.01	21
3	QPSK	1	8	19.75	19.78	19.74	
3	QPSK	1	14	19.54	19.75	19.69	
3	QPSK	8	0	18.95	19.18	19.11	20
3	QPSK	8	4	18.96	19.10	19.02	
3	QPSK	8	7	18.81	18.99	18.99	
3	QPSK	15	0	18.83	18.92	18.97	
3	16QAM	1	0	19.49	19.61	19.60	20
3	16QAM	1	8	19.37	19.39	19.45	
3	16QAM	1	14	19.23	19.24	19.18	
3	16QAM	8	0	18.80	18.92	18.89	20
3	16QAM	8	4	18.71	18.77	18.76	
3	16QAM	8	7	18.71	18.74	18.79	
3	16QAM	15	0	18.62	18.65	18.64	
3	64QAM	1	0	19.10	19.17	19.22	20
3	64QAM	1	8	19.00	19.09	19.20	
3	64QAM	1	14	18.84	18.90	19.05	
3	64QAM	8	0	18.76	18.75	19.01	20
3	64QAM	8	4	18.64	18.76	18.86	
3	64QAM	8	7	18.66	18.72	18.85	
3	64QAM	15	0	18.51	18.56	18.70	
Channel				20407	20525	20643	Tune-up limit (dBm)
Frequency (MHz)				824.7	836.5	848.3	
1.4	QPSK	1	0	19.95	20.06	20.02	21
1.4	QPSK	1	3	19.69	19.77	19.78	
1.4	QPSK	1	5	19.53	19.69	19.71	
1.4	QPSK	3	0	18.96	19.14	19.13	
1.4	QPSK	3	1	18.93	19.06	19.06	
1.4	QPSK	3	3	18.83	18.96	18.97	
1.4	QPSK	6	0	18.79	18.94	18.95	20
1.4	16QAM	1	0	19.44	19.53	19.52	20
1.4	16QAM	1	3	19.33	19.36	19.37	
1.4	16QAM	1	5	19.16	19.23	19.20	
1.4	16QAM	3	0	18.76	18.83	18.82	
1.4	16QAM	3	1	18.68	18.80	18.77	
1.4	16QAM	3	3	18.64	18.73	18.70	
1.4	16QAM	6	0	18.59	18.67	18.66	20
1.4	64QAM	1	0	19.09	19.20	19.20	20
1.4	64QAM	1	3	19.01	19.00	19.12	
1.4	64QAM	1	5	18.85	18.86	19.00	
1.4	64QAM	3	0	18.70	18.76	18.94	
1.4	64QAM	3	1	18.66	18.68	18.88	
1.4	64QAM	3	3	18.57	18.65	18.80	
1.4	64QAM	6	0	18.50	18.59	18.74	20

Band 7 (2600MHz Band)
Part 27

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20850	21100	21350	
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	16.49	16.54	16.43	17.5
20	QPSK	1	49	16.29	16.34	16.37	
20	QPSK	1	99	16.20	16.32	16.16	
20	QPSK	50	0	15.48	15.63	15.54	16.5
20	QPSK	50	24	15.49	15.56	15.41	
20	QPSK	50	50	15.46	15.51	15.42	
20	QPSK	100	0	15.38	15.42	15.30	
20	16QAM	1	0	16.08	16.00	16.01	16.5
20	16QAM	1	49	16.04	15.98	15.95	
20	16QAM	1	99	15.88	15.84	15.88	
20	16QAM	50	0	15.50	15.31	15.42	16.5
20	16QAM	50	24	15.38	15.28	15.27	
20	16QAM	50	50	15.39	15.20	15.25	
20	16QAM	100	0	15.28	15.22	15.24	
20	64QAM	1	0	15.81	15.95	15.83	16.5
20	64QAM	1	49	15.68	15.76	15.59	
20	64QAM	1	99	15.54	15.66	15.48	
20	64QAM	50	0	15.20	15.24	15.21	16.5
20	64QAM	50	24	15.17	15.20	15.14	
20	64QAM	50	50	15.02	15.13	15.08	
20	64QAM	100	0	15.11	15.03	15.00	
Channel				20825	21100	21375	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	16.40	16.50	16.48	17.5
15	QPSK	1	37	16.26	16.31	16.31	
15	QPSK	1	74	16.10	16.25	16.19	
15	QPSK	36	0	15.54	15.56	15.52	16.5
15	QPSK	36	20	15.46	15.52	15.40	
15	QPSK	36	39	15.32	15.49	15.31	
15	QPSK	75	0	15.35	15.46	15.28	
15	16QAM	1	0	15.99	15.95	16.01	16.5
15	16QAM	1	37	15.97	15.90	15.99	
15	16QAM	1	74	15.93	15.86	15.86	
15	16QAM	36	0	15.42	15.37	15.34	16.5
15	16QAM	36	20	15.40	15.24	15.26	
15	16QAM	36	39	15.34	15.20	15.18	
15	16QAM	75	0	15.16	15.15	15.19	
15	64QAM	1	0	15.82	15.94	15.74	16.5
15	64QAM	1	37	15.56	15.76	15.54	
15	64QAM	1	74	15.59	15.61	15.48	
15	64QAM	36	0	15.19	15.22	15.14	16.5
15	64QAM	36	20	15.04	15.16	15.00	
15	64QAM	36	39	15.05	15.10	15.03	
15	64QAM	75	0	15.00	15.02	15.03	
Channel				20800	21100	21400	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	16.46	16.47	16.42	17.5
10	QPSK	1	25	16.17	16.26	16.20	
10	QPSK	1	49	16.10	16.22	16.08	
10	QPSK	25	0	15.45	15.53	15.44	16.5
10	QPSK	25	12	15.38	15.46	15.35	
10	QPSK	25	25	15.31	15.49	15.27	
10	QPSK	50	0	15.27	15.40	15.25	
10	16QAM	1	0	15.94	15.98	15.89	16.5
10	16QAM	1	25	15.87	15.86	15.87	
10	16QAM	1	49	15.85	15.79	15.82	
10	16QAM	25	0	15.37	15.27	15.28	16.5
10	16QAM	25	12	15.32	15.24	15.21	
10	16QAM	25	25	15.27	15.15	15.14	
10	16QAM	50	0	15.16	15.12	15.14	
10	64QAM	1	0	15.68	15.80	15.68	16.5
10	64QAM	1	25	15.56	15.73	15.51	
10	64QAM	1	49	15.48	15.51	15.46	
10	64QAM	25	0	15.11	15.17	15.10	16.5
10	64QAM	25	12	15.02	15.12	15.03	
10	64QAM	25	25	15.03	15.00	15.04	
10	64QAM	50	0	15.04	15.01	15.01	
Channel				20775	21100	21425	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	16.43	16.45	16.40	17.5
5	QPSK	1	12	16.26	16.27	16.24	
5	QPSK	1	24	16.13	16.22	16.13	
5	QPSK	12	0	15.47	15.53	15.43	16.5
5	QPSK	12	7	15.41	15.53	15.37	
5	QPSK	12	13	15.37	15.48	15.31	
5	QPSK	25	0	15.30	15.39	15.29	
5	16QAM	1	0	15.96	15.99	15.95	16.5
5	16QAM	1	12	15.94	15.86	15.92	
5	16QAM	1	24	15.85	15.78	15.84	
5	16QAM	12	0	15.39	15.30	15.30	16.5
5	16QAM	12	7	15.33	15.23	15.23	
5	16QAM	12	13	15.25	15.19	15.20	
5	16QAM	25	0	15.20	15.13	15.15	
5	64QAM	1	0	15.76	15.88	15.73	16.5
5	64QAM	1	12	15.59	15.73	15.55	
5	64QAM	1	24	15.53	15.59	15.44	
5	64QAM	12	0	15.11	15.21	15.09	16.5
5	64QAM	12	7	15.06	15.12	15.02	
5	64QAM	12	13	15.02	15.07	15.02	
5	64QAM	25	0	15.04	15.01	15.02	

Band 12 (700MHz Low Band)
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	20.18	20.24	20.22	21
10	QPSK	1	25	20.00	19.95	19.92	
10	QPSK	1	49	19.80	19.78	19.79	
10	QPSK	25	0	19.14	19.11	19.15	20
10	QPSK	25	12	19.08	19.01	19.13	
10	QPSK	25	25	19.03	19.06	19.07	
10	QPSK	50	0	18.99	19.04	19.00	
10	16QAM	1	0	19.65	19.51	19.50	20
10	16QAM	1	25	19.50	19.56	19.44	
10	16QAM	1	49	19.40	19.37	19.40	
10	16QAM	25	0	18.85	18.83	18.86	20
10	16QAM	25	12	18.81	18.68	18.79	
10	16QAM	25	25	18.73	18.64	18.75	
10	16QAM	50	0	18.68	18.72	18.69	
10	64QAM	1	0	19.41	19.47	19.53	20
10	64QAM	1	25	19.40	19.27	19.50	
10	64QAM	1	49	19.30	19.25	19.38	
10	64QAM	25	0	18.90	18.76	18.85	20
10	64QAM	25	12	18.83	18.68	18.78	
10	64QAM	25	25	18.80	18.66	18.76	
10	64QAM	50	0	18.67	18.54	18.65	
Channel				23035	23095	23155	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	QPSK	1	0	20.11	20.12	20.15	21
5	QPSK	1	12	19.93	19.88	19.86	
5	QPSK	1	24	19.80	19.79	19.67	
5	QPSK	12	0	19.07	19.05	19.02	20
5	QPSK	12	7	19.07	19.03	19.12	
5	QPSK	12	13	19.04	18.99	19.00	
5	QPSK	25	0	18.92	19.04	18.95	
5	16QAM	1	0	19.54	19.52	19.43	20
5	16QAM	1	12	19.36	19.47	19.41	
5	16QAM	1	24	19.34	19.28	19.31	
5	16QAM	12	0	18.86	18.73	18.89	20
5	16QAM	12	7	18.79	18.68	18.82	
5	16QAM	12	13	18.79	18.65	18.72	
5	16QAM	25	0	18.63	18.66	18.67	
5	64QAM	1	0	19.48	19.33	19.45	20
5	64QAM	1	12	19.35	19.22	19.46	
5	64QAM	1	24	19.33	19.15	19.25	
5	64QAM	12	0	18.78	18.67	18.81	20
5	64QAM	12	7	18.76	18.60	18.74	
5	64QAM	12	13	18.68	18.60	18.67	
5	64QAM	25	0	18.65	18.49	18.61	
Channel				23025	23095	23165	Tune-up limit (dBm)
Frequency (MHz)				700.5	707.5	714.5	
3	QPSK	1	0	19.98	20.07	20.04	21
3	QPSK	1	8	19.93	19.91	19.78	
3	QPSK	1	14	19.67	19.76	19.72	
3	QPSK	8	0	19.03	19.01	19.05	20
3	QPSK	8	4	19.03	18.93	19.03	
3	QPSK	8	7	18.97	18.86	19.04	
3	QPSK	15	0	18.88	18.89	18.98	
3	16QAM	1	0	19.48	19.52	19.47	20
3	16QAM	1	8	19.39	19.47	19.35	
3	16QAM	1	14	19.35	19.25	19.26	
3	16QAM	8	0	18.86	18.69	18.80	20
3	16QAM	8	4	18.70	18.62	18.69	
3	16QAM	8	7	18.68	18.65	18.65	
3	16QAM	15	0	18.67	18.69	18.68	
3	64QAM	1	0	19.33	19.28	19.36	20
3	64QAM	1	8	19.27	19.19	19.31	
3	64QAM	1	14	19.19	19.10	19.23	
3	64QAM	8	0	18.77	18.67	18.79	20
3	64QAM	8	4	18.71	18.59	18.78	
3	64QAM	8	7	18.68	18.56	18.61	
3	64QAM	15	0	18.69	18.46	18.58	
Channel				23017	23095	23173	Tune-up limit (dBm)
Frequency (MHz)				699.7	707.5	715.3	
1.4	QPSK	1	0	19.98	20.08	20.02	21
1.4	QPSK	1	3	19.88	19.94	19.83	
1.4	QPSK	1	5	19.71	19.73	19.70	
1.4	QPSK	3	0	19.03	19.01	18.99	
1.4	QPSK	3	1	19.07	18.99	19.09	
1.4	QPSK	3	3	18.93	18.89	19.02	
1.4	QPSK	6	0	18.90	18.93	18.98	20
1.4	16QAM	1	0	19.46	19.44	19.42	20
1.4	16QAM	1	3	19.34	19.41	19.40	
1.4	16QAM	1	5	19.30	19.20	19.26	
1.4	16QAM	3	0	18.82	18.64	18.80	
1.4	16QAM	3	1	18.68	18.65	18.79	
1.4	16QAM	3	3	18.72	18.58	18.69	
1.4	16QAM	6	0	18.57	18.62	18.70	20
1.4	64QAM	1	0	19.36	19.28	19.44	20
1.4	64QAM	1	3	19.34	19.13	19.37	
1.4	64QAM	1	5	19.28	19.18	19.24	
1.4	64QAM	3	0	18.80	18.61	18.73	
1.4	64QAM	3	1	18.69	18.55	18.69	
1.4	64QAM	3	3	18.63	18.53	18.70	
1.4	64QAM	6	0	18.69	18.50	18.65	20

Band 17 (700MHz Band)
Part 27H(only on channel required)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				23780	23790	23800	
Frequency (MHz)				709	710	711	
10	QPSK	1	0	20.12	20.14	20.01	21
10	QPSK	1	25	19.88	20.04	19.96	
10	QPSK	1	49	19.75	19.96	19.84	
10	QPSK	25	0	19.03	19.24	19.17	20
10	QPSK	25	12	18.95	19.19	19.10	
10	QPSK	25	25	18.93	19.08	19.08	
10	QPSK	50	0	18.79	18.99	18.94	
10	16QAM	1	0	19.31	19.53	19.44	20
10	16QAM	1	25	19.27	19.51	19.36	
10	16QAM	1	49	19.22	19.39	19.33	
10	16QAM	25	0	18.46	18.65	18.66	20
10	16QAM	25	12	18.46	18.60	18.60	
10	16QAM	25	25	18.40	18.62	18.62	
10	16QAM	50	0	18.27	18.57	18.46	
10	64QAM	1	0	19.26	19.40	19.31	20
10	64QAM	1	25	19.15	19.33	19.18	
10	64QAM	1	49	19.09	19.31	19.03	
10	64QAM	25	0	18.35	18.69	18.33	20
10	64QAM	25	12	18.28	18.66	18.26	
10	64QAM	25	25	18.25	18.60	18.25	
10	64QAM	50	0	18.17	18.58	18.22	
Channel				23755	23790	23825	Tune-up limit (dBm)
Frequency (MHz)				706.5	710	713.5	
5	QPSK	1	0	20.04	20.12	20.03	21
5	QPSK	1	12	19.93	20.00	19.96	
5	QPSK	1	24	19.73	20.00	19.81	
5	QPSK	12	0	18.99	19.21	19.13	20
5	QPSK	12	7	18.99	19.11	19.05	
5	QPSK	12	13	18.90	19.05	18.98	
5	QPSK	25	0	18.82	18.96	18.94	
5	16QAM	1	0	19.31	19.50	19.46	20
5	16QAM	1	12	19.26	19.50	19.38	
5	16QAM	1	24	19.18	19.32	19.38	
5	16QAM	12	0	18.54	18.70	18.73	20
5	16QAM	12	7	18.38	18.67	18.63	
5	16QAM	12	13	18.33	18.55	18.55	
5	16QAM	25	0	18.22	18.56	18.55	
5	64QAM	1	0	19.14	19.42	19.27	20
5	64QAM	1	12	19.13	19.38	19.13	
5	64QAM	1	24	18.99	19.28	18.98	
5	64QAM	12	0	18.38	18.69	18.34	20
5	64QAM	12	7	18.28	18.62	18.32	
5	64QAM	12	13	18.26	18.57	18.26	
5	64QAM	25	0	18.18	18.57	18.14	

Band 18 (835MHz Band)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				23925	23925	23925	
Frequency (MHz)				822.5	822.5	822.5	
15	QPSK	1	0	20.15	20.15	20.10	21
15	QPSK	1	37	19.94	19.92	19.89	
15	QPSK	1	74	19.84	19.76	19.78	
15	QPSK	36	0	19.15	19.13	19.07	20
15	QPSK	36	20	19.09	18.96	19.01	
15	QPSK	36	39	18.97	19.00	18.99	
15	QPSK	75	0	18.97	18.97	18.87	
15	16QAM	1	0	19.41	19.41	19.36	20
15	16QAM	1	37	19.29	19.33	19.28	
15	16QAM	1	74	19.21	19.16	19.12	
15	16QAM	36	0	18.77	18.72	18.69	20
15	16QAM	36	20	18.65	18.69	18.59	
15	16QAM	36	39	18.63	18.63	18.56	
15	16QAM	75	0	18.52	18.51	18.47	
15	64QAM	1	0	19.30	19.33	19.29	20
15	64QAM	1	25	19.16	19.19	19.20	
15	64QAM	1	49	19.08	19.12	19.04	
15	64QAM	25	0	18.63	18.71	18.64	20
15	64QAM	25	12	18.58	18.63	18.64	
15	64QAM	25	25	18.49	18.53	18.51	
15	64QAM	50	0	18.47	18.42	18.50	
Channel				23900	23925	23950	Tune-up limit (dBm)
Frequency (MHz)				820	822.5	825	
10	QPSK	1	0	20.08	20.09	20.05	21
10	QPSK	1	25	19.89	19.86	19.86	
10	QPSK	1	49	19.83	19.68	19.78	
10	QPSK	25	0	19.07	19.08	19.07	20
10	QPSK	25	12	19.04	18.99	18.96	
10	QPSK	25	25	18.94	18.83	18.88	
10	QPSK	50	0	18.87	18.86	18.85	
10	16QAM	1	0	19.29	19.34	19.43	20
10	16QAM	1	25	19.21	19.24	19.30	
10	16QAM	1	49	19.19	19.10	19.07	
10	16QAM	25	0	18.70	18.64	18.60	20
10	16QAM	25	12	18.60	18.60	18.53	
10	16QAM	25	25	18.63	18.53	18.52	
10	16QAM	50	0	18.53	18.45	18.50	
10	64QAM	1	0	19.32	19.28	19.32	20
10	64QAM	1	25	19.10	19.19	19.13	
10	64QAM	1	49	19.06	18.99	19.01	
10	64QAM	25	0	18.53	18.61	18.65	20
10	64QAM	25	12	18.47	18.53	18.59	
10	64QAM	25	25	18.49	18.51	18.53	
10	64QAM	50	0	18.45	18.38	18.40	
Channel				23875	23925	23975	Tune-up limit (dBm)
Frequency (MHz)				817.5	822.5	827.5	
5	QPSK	1	0	20.10	20.11	20.03	21
5	QPSK	1	12	19.97	19.82	19.81	
5	QPSK	1	24	19.78	19.69	19.77	
5	QPSK	12	0	19.03	19.12	19.05	20
5	QPSK	12	7	19.05	18.94	19.04	
5	QPSK	12	13	18.92	18.85	18.96	
5	QPSK	25	0	18.84	18.85	18.86	
5	16QAM	1	0	19.32	19.37	19.43	20
5	16QAM	1	12	19.28	19.23	19.29	
5	16QAM	1	24	19.15	19.13	19.08	
5	16QAM	12	0	18.75	18.70	18.70	20
5	16QAM	12	7	18.60	18.59	18.56	
5	16QAM	12	13	18.59	18.56	18.50	
5	16QAM	25	0	18.46	18.53	18.41	
5	64QAM	1	0	19.33	19.35	19.24	20
5	64QAM	1	12	19.09	19.12	19.17	
5	64QAM	1	24	19.02	19.04	18.97	
5	64QAM	12	0	18.60	18.57	18.63	20
5	64QAM	12	7	18.49	18.57	18.55	
5	64QAM	12	13	18.46	18.50	18.41	
5	64QAM	25	0	18.38	18.48	18.42	

Band 19 (835MHz Band)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				24075	24075	24075	
Frequency (MHz)				837.5	837.5	837.5	
15	QPSK	1	0	20.10	20.16	20.11	21
15	QPSK	1	37	19.95	19.91	19.97	
15	QPSK	1	74	19.90	19.88	19.92	
15	QPSK	36	0	19.09	19.15	19.06	20
15	QPSK	36	20	19.01	19.00	19.05	
15	QPSK	36	39	19.06	18.91	18.97	
15	QPSK	75	0	18.98	18.95	18.93	
15	16QAM	1	0	19.53	19.47	19.52	20
15	16QAM	1	37	19.30	19.30	19.43	
15	16QAM	1	74	19.22	19.14	19.21	
15	16QAM	36	0	18.82	18.71	18.84	20
15	16QAM	36	20	18.76	18.61	18.81	
15	16QAM	36	39	18.70	18.55	18.69	
15	16QAM	75	0	18.67	18.53	18.62	
15	64QAM	1	0	19.42	19.42	19.37	20
15	64QAM	1	25	19.32	19.31	19.22	
15	64QAM	1	49	19.26	19.19	19.17	
15	64QAM	25	0	18.78	18.82	18.81	20
15	64QAM	25	12	18.75	18.78	18.79	
15	64QAM	25	25	18.71	18.71	18.70	
15	64QAM	50	0	18.64	18.73	18.68	
Channel				24050	24075	24100	Tune-up limit (dBm)
Frequency (MHz)				835	837.5	840	
10	QPSK	1	0	20.11	20.06	20.04	21
10	QPSK	1	25	19.94	19.91	19.88	
10	QPSK	1	49	19.79	19.87	19.89	
10	QPSK	25	0	19.06	18.98	19.01	20
10	QPSK	25	12	18.99	19.03	19.02	
10	QPSK	25	25	19.04	18.96	18.89	
10	QPSK	50	0	18.98	18.83	18.91	
10	16QAM	1	0	19.43	19.44	19.42	20
10	16QAM	1	25	19.28	19.24	19.31	
10	16QAM	1	49	19.28	19.05	19.13	
10	16QAM	25	0	18.74	18.69	18.78	20
10	16QAM	25	12	18.77	18.59	18.71	
10	16QAM	25	25	18.67	18.52	18.69	
10	16QAM	50	0	18.54	18.54	18.65	
10	64QAM	1	0	19.42	19.34	19.38	20
10	64QAM	1	25	19.19	19.27	19.17	
10	64QAM	1	49	19.18	19.15	19.16	
10	64QAM	25	0	18.74	18.80	18.78	20
10	64QAM	25	12	18.67	18.78	18.71	
10	64QAM	25	25	18.67	18.71	18.65	
10	64QAM	50	0	18.63	18.65	18.56	
Channel				24025	24075	24125	Tune-up limit (dBm)
Frequency (MHz)				832.5	837.5	842.5	
5	QPSK	1	0	20.09	20.12	20.13	21
5	QPSK	1	12	19.82	19.93	19.92	
5	QPSK	1	24	19.77	19.76	19.89	
5	QPSK	12	0	19.04	19.03	19.01	20
5	QPSK	12	7	19.01	19.07	18.94	
5	QPSK	12	13	18.98	18.94	18.90	
5	QPSK	25	0	18.89	18.84	18.84	
5	16QAM	1	0	19.49	19.35	19.46	20
5	16QAM	1	12	19.34	19.25	19.37	
5	16QAM	1	24	19.23	19.08	19.21	
5	16QAM	12	0	18.80	18.66	18.77	20
5	16QAM	12	7	18.72	18.63	18.70	
5	16QAM	12	13	18.60	18.56	18.65	
5	16QAM	25	0	18.55	18.45	18.61	
5	64QAM	1	0	19.38	19.32	19.33	20
5	64QAM	1	12	19.24	19.28	19.19	
5	64QAM	1	24	19.19	19.11	19.14	
5	64QAM	12	0	18.84	18.84	18.74	20
5	64QAM	12	7	18.75	18.77	18.72	
5	64QAM	12	13	18.71	18.69	18.68	
5	64QAM	25	0	18.64	18.68	18.60	

Band 26 for FCC
(only on channel required)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				26765	26865	26965	
Frequency (MHz)				821.5	831.5	841.5	
15	QPSK	1	0	19.98	20.15	20.07	
15	QPSK	1	37	19.87	19.96	19.93	21
15	QPSK	1	74	19.70	19.90	19.86	
15	QPSK	36	0	18.91	19.12	18.99	
15	QPSK	36	20	18.89	19.07	19.12	20
15	QPSK	36	39	18.86	18.91	19.07	
15	QPSK	75	0	18.70	18.98	18.98	
15	16QAM	1	0	19.30	19.44	19.31	
15	16QAM	1	37	19.22	19.37	19.32	20
15	16QAM	1	74	19.02	19.22	19.19	
15	16QAM	36	0	18.76	18.84	18.82	
15	16QAM	36	20	18.74	18.84	18.79	20
15	16QAM	36	39	18.70	18.69	18.76	
15	16QAM	75	0	18.57	18.68	18.59	
15	64QAM	1	0	19.33	19.43	19.41	
15	64QAM	1	37	19.23	19.31	19.16	20
15	64QAM	1	74	19.10	19.26	19.08	
15	64QAM	36	0	18.76	18.86	18.74	
15	64QAM	36	20	18.64	18.77	18.60	20
15	64QAM	36	39	18.58	18.67	18.55	
15	64QAM	75	0	18.52	18.63	18.51	
Channel				26740	26865	26990	Tune-up limit (dBm)
Frequency (MHz)				819	831.5	844	
10	QPSK	1	0	19.97	20.09	20.03	
10	QPSK	1	25	19.76	19.96	19.83	21
10	QPSK	1	49	19.59	19.81	19.80	
10	QPSK	25	0	18.87	19.00	19.05	
10	QPSK	25	12	18.81	19.00	19.06	20
10	QPSK	25	25	18.77	18.96	18.92	
10	QPSK	50	0	18.73	18.89	18.93	
10	16QAM	1	0	19.20	19.41	19.34	
10	16QAM	1	25	19.19	19.29	19.24	20
10	16QAM	1	49	19.01	19.14	19.20	
10	16QAM	25	0	18.75	18.87	18.83	
10	16QAM	25	12	18.67	18.73	18.65	20
10	16QAM	25	25	18.61	18.69	18.67	
10	16QAM	50	0	18.60	18.67	18.58	
10	64QAM	1	0	19.31	19.36	19.32	
10	64QAM	1	25	19.12	19.26	19.20	20
10	64QAM	1	49	19.10	19.16	19.08	
10	64QAM	25	0	18.70	18.79	18.62	
10	64QAM	25	12	18.62	18.77	18.60	20
10	64QAM	25	25	18.51	18.63	18.55	
10	64QAM	50	0	18.56	18.57	18.41	
Channel				26715	26865	27015	Tune-up limit (dBm)
Frequency (MHz)				816.5	831.5	846.5	
5	QPSK	1	0	20.01	20.03	20.04	
5	QPSK	1	12	19.83	19.93	19.91	21
5	QPSK	1	24	19.67	19.80	19.80	
5	QPSK	12	0	18.92	19.05	19.00	
5	QPSK	12	7	18.83	19.00	19.07	20
5	QPSK	12	13	18.78	18.95	19.02	
5	QPSK	25	0	18.75	18.95	18.95	
5	16QAM	1	0	19.24	19.41	19.35	
5	16QAM	1	12	19.17	19.30	19.26	20
5	16QAM	1	24	19.07	19.16	19.19	
5	16QAM	12	0	18.77	18.83	18.83	
5	16QAM	12	7	18.68	18.77	18.72	20
5	16QAM	12	13	18.64	18.69	18.70	
5	16QAM	25	0	18.58	18.66	18.61	
5	64QAM	1	0	19.28	19.43	19.33	
5	64QAM	1	12	19.18	19.30	19.20	20
5	64QAM	1	24	19.08	19.18	19.08	
5	64QAM	12	0	18.71	18.80	18.69	
5	64QAM	12	7	18.65	18.73	18.63	20
5	64QAM	12	13	18.57	18.69	18.56	
5	64QAM	25	0	18.54	18.64	18.47	
Channel				26705	26865	27025	Tune-up limit (dBm)
Frequency (MHz)				815.5	831.5	847.5	
3	QPSK	1	0	19.97	19.99	20.00	
3	QPSK	1	8	19.77	19.88	19.86	21
3	QPSK	1	14	19.63	19.74	19.76	
3	QPSK	8	0	18.86	19.00	18.94	
3	QPSK	8	4	18.79	18.94	19.03	20
3	QPSK	8	7	18.73	18.92	18.99	
3	QPSK	15	0	18.72	18.91	18.90	
3	16QAM	1	0	19.20	19.37	19.31	
3	16QAM	1	8	19.11	19.24	19.22	20
3	16QAM	1	14	19.01	19.12	19.15	
3	16QAM	8	0	18.72	18.78	18.77	
3	16QAM	8	4	18.63	18.73	18.68	20
3	16QAM	8	7	18.59	18.63	18.65	
3	16QAM	15	0	18.53	18.60	18.56	
3	64QAM	1	0	19.24	19.39	19.28	
3	64QAM	1	8	19.13	19.26	19.17	20
3	64QAM	1	14	19.03	19.12	19.03	
3	64QAM	8	0	18.66	18.75	18.64	
3	64QAM	8	4	18.60	18.68	18.60	20
3	64QAM	8	7	18.53	18.64	18.51	
3	64QAM	15	0	18.49	18.58	18.41	
Channel				26697	26865	27033	Tune-up limit (dBm)
Frequency (MHz)				814.7	831.5	848.3	
1.4	QPSK	1	0	19.97	20.00	19.99	
1.4	QPSK	1	3	19.77	19.88	19.88	
1.4	QPSK	1	5	19.62	19.74	19.75	21
1.4	QPSK	3	0	18.89	18.99	18.95	
1.4	QPSK	3	1	18.77	18.97	19.02	
1.4	QPSK	3	3	18.73	18.90	18.97	
1.4	QPSK	6	0	18.69	18.89	18.89	20
1.4	16QAM	1	0	19.20	19.36	19.30	

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	18.05	18.27	18.22	
20	QPSK	1	49	17.98	17.86	18.04	19
20	QPSK	1	99	17.87	17.82	17.81	
20	QPSK	50	0	17.04	17.04	16.94	
20	QPSK	50	24	16.94	16.79	16.88	18
20	QPSK	50	50	16.90	16.89	16.88	
20	QPSK	100	0	16.84	16.88	16.76	
20	16QAM	1	0	17.26	17.35	17.29	
20	16QAM	1	49	17.23	17.16	17.02	18
20	16QAM	1	99	17.03	17.08	16.95	
20	16QAM	50	0	16.74	16.71	16.75	
20	16QAM	50	24	16.78	16.73	16.66	18
20	16QAM	50	50	16.67	16.69	16.54	
20	16QAM	100	0	16.72	16.57	16.63	
20	64QAM	1	0	17.21	17.18	17.03	
20	64QAM	1	49	17.05	16.94	17.01	18
20	64QAM	1	99	16.90	17.00	16.80	
20	64QAM	50	0	16.71	16.72	16.54	
20	64QAM	50	24	16.60	16.63	16.59	18
20	64QAM	50	50	16.53	16.60	16.50	
20	64QAM	100	0	16.47	16.51	16.49	
Channel				132047	132322	132597	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	17.76	18.12	17.85	
15	QPSK	1	37	17.89	17.80	17.86	19
15	QPSK	1	74	17.51	17.66	17.69	
15	QPSK	36	0	16.92	17.00	16.84	
15	QPSK	36	20	16.69	16.63	16.65	18
15	QPSK	36	39	16.75	16.77	16.59	
15	QPSK	75	0	16.48	16.72	16.46	
15	16QAM	1	0	17.15	17.21	17.01	
15	16QAM	1	37	16.82	17.10	16.93	18
15	16QAM	1	74	16.78	16.81	16.81	
15	16QAM	36	0	16.47	16.65	16.51	
15	16QAM	36	20	16.67	16.57	16.65	18
15	16QAM	36	39	16.50	16.43	16.21	
15	16QAM	75	0	16.42	16.30	16.47	
15	64QAM	1	0	16.95	17.00	16.81	
15	64QAM	1	37	16.72	16.83	16.76	18
15	64QAM	1	74	16.63	16.69	16.51	
15	64QAM	36	0	16.50	16.41	16.54	
15	64QAM	36	20	16.45	16.45	16.42	18
15	64QAM	36	39	16.25	16.52	16.44	
15	64QAM	75	0	16.38	16.40	16.19	
Channel				132022	132322	132622	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	17.75	18.14	17.90	
10	QPSK	1	25	17.86	17.79	17.88	19
10	QPSK	1	49	17.62	17.58	17.77	
10	QPSK	25	0	16.90	17.02	16.88	
10	QPSK	25	12	16.69	16.66	16.61	18
10	QPSK	25	25	16.75	16.79	16.63	
10	QPSK	50	0	16.55	16.81	16.43	
10	16QAM	1	0	17.18	17.18	17.04	
10	16QAM	1	25	16.82	17.12	16.88	18
10	16QAM	1	49	16.77	16.77	16.72	
10	16QAM	25	0	16.51	16.60	16.44	
10	16QAM	25	12	16.58	16.58	16.64	18
10	16QAM	25	25	16.53	16.45	16.25	
10	16QAM	50	0	16.33	16.38	16.51	
10	64QAM	1	0	17.03	17.02	16.76	
10	64QAM	1	25	16.69	16.81	16.68	18
10	64QAM	1	49	16.59	16.61	16.57	
10	64QAM	25	0	16.43	16.37	16.54	
10	64QAM	25	12	16.54	16.41	16.48	18
10	64QAM	25	25	16.24	16.61	16.45	
10	64QAM	50	0	16.33	16.47	16.18	
Channel				131997	132322	132647	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	17.74	18.09	17.85	
5	QPSK	1	12	17.84	17.83	17.84	19
5	QPSK	1	24	17.54	17.67	17.67	
5	QPSK	12	0	16.88	16.97	16.92	
5	QPSK	12	7	16.61	16.59	16.61	18
5	QPSK	12	13	16.83	16.77	16.61	
5	QPSK	25	0	16.54	16.75	16.51	
5	16QAM	1	0	17.11	17.19	17.00	
5	16QAM	1	12	16.90	17.10	16.87	18
5	16QAM	1	24	16.86	16.84	16.78	
5	16QAM	12	0	16.54	16.66	16.48	
5	16QAM	12	7	16.59	16.57	16.55	18
5	16QAM	12	13	16.47	16.41	16.23	
5	16QAM	25	0	16.35	16.36	16.57	
5	64QAM	1	0	16.97	16.96	16.73	
5	64QAM	1	12	16.64	16.83	16.66	18
5	64QAM	1	24	16.62	16.58	16.52	
5	64QAM	12	0	16.48	16.43	16.51	
5	64QAM	12	7	16.56	16.44	16.42	18
5	64QAM	12	13	16.20	16.55	16.40	
5	64QAM	25	0	16.37	16.41	16.09	
Channel				131987	132322	132657	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	17.70	18.04	17.81	
3	QPSK	1	8	17.85	17.74	17.82	19
3	QPSK	1	14	17.53	17.60	17.68	
3	QPSK	8	0	16.87	16.94	16.82	
3	QPSK	8	4	16.59	16.60	16.53	18
3	QPSK	8	7	16.77	16.73	16.58	
3	QPSK	15	0	16.46	16.75	16.44	
3	16QAM	1	0	17.11	17.17	17.00	

1.4	16QAM	1	3	19.12	19.27	19.23	20
1.4	16QAM	1	5	19.03	19.13	19.14	
1.4	16QAM	3	0	18.73	18.78	18.77	
1.4	16QAM	3	1	18.64	18.71	18.67	
1.4	16QAM	3	3	18.59	18.64	18.67	
1.4	16QAM	6	0	18.52	18.62	18.57	20
1.4	64QAM	1	0	19.24	19.38	19.28	20
1.4	64QAM	1	3	19.12	19.24	19.15	
1.4	64QAM	1	5	19.04	19.12	19.02	
1.4	64QAM	3	0	18.68	18.76	18.63	
1.4	64QAM	3	1	18.62	18.68	18.58	
1.4	64QAM	3	3	18.52	18.64	18.51	
1.4	64QAM	6	0	18.51	18.60	18.44	20

3	16QAM	1	8	16.82	17.05	16.83	18
3	16QAM	1	14	16.75	16.76	16.73	
3	16QAM	8	0	16.46	16.60	16.40	18
3	16QAM	8	4	16.59	16.51	16.58	
3	16QAM	8	7	16.48	16.37	16.20	
3	16QAM	15	0	16.33	16.27	16.48	
3	64QAM	1	0	16.94	16.92	16.72	18
3	64QAM	1	8	16.63	16.81	16.70	
3	64QAM	1	14	16.62	16.62	16.48	
3	64QAM	8	0	16.44	16.36	16.48	18
3	64QAM	8	4	16.45	16.42	16.40	
3	64QAM	8	7	16.20	16.54	16.40	
3	64QAM	15	0	16.30	16.38	16.10	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	17.70	18.04	17.84	19
1.4	QPSK	1	3	17.84	17.71	17.83	
1.4	QPSK	1	5	17.54	17.61	17.68	
1.4	QPSK	3	0	16.95	17.06	16.94	
1.4	QPSK	3	1	16.71	16.69	16.66	
1.4	QPSK	3	3	16.85	16.82	16.70	
1.4	QPSK	6	0	16.45	16.72	16.43	18
1.4	16QAM	1	0	17.11	17.20	17.00	18
1.4	16QAM	1	3	16.84	17.03	16.85	
1.4	16QAM	1	5	16.76	16.76	16.71	
1.4	16QAM	3	0	16.45	16.61	16.42	
1.4	16QAM	3	1	16.59	16.52	16.57	
1.4	16QAM	3	3	16.49	16.36	16.18	
1.4	16QAM	6	0	16.33	16.26	16.47	18
1.4	64QAM	1	0	16.94	16.93	16.75	18
1.4	64QAM	1	3	16.64	16.84	16.66	
1.4	64QAM	1	5	16.62	16.60	16.50	
1.4	64QAM	3	0	16.44	16.36	16.49	
1.4	64QAM	3	1	16.46	16.43	16.41	
1.4	64QAM	3	3	16.17	16.53	16.41	
1.4	64QAM	6	0	16.28	16.36	16.11	18

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	20.19	20.33	20.15	21
20	QPSK	1	49	19.74	19.79	19.68	
20	QPSK	1	99	19.55	19.96	19.62	
20	QPSK	50	0	18.98	19.12	18.86	20
20	QPSK	50	24	18.89	19.01	19.17	
20	QPSK	50	50	18.83	19.04	18.81	
20	QPSK	100	0	18.84	18.96	18.80	
20	16QAM	1	0	19.30	19.50	19.35	20
20	16QAM	1	49	19.18	19.60	19.17	
20	16QAM	1	99	19.07	19.18	19.15	
20	16QAM	50	0	18.72	18.90	19.04	20
20	16QAM	50	24	18.70	18.86	18.71	
20	16QAM	50	50	18.83	18.72	18.56	
20	16QAM	100	0	18.56	18.73	18.52	
20	64QAM	1	0	19.32	19.76	19.26	20
20	64QAM	1	49	19.23	19.39	19.24	
20	64QAM	1	99	19.09	19.15	19.36	
20	64QAM	50	0	18.74	18.79	18.66	20
20	64QAM	50	24	18.97	18.68	18.55	
20	64QAM	50	50	18.55	18.61	18.45	
20	64QAM	100	0	18.48	18.94	18.50	
Channel				37825	38000	38175.3	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	20.12	20.23	20.14	21
15	QPSK	1	37	19.63	19.72	19.70	
15	QPSK	1	74	19.54	19.91	19.55	
15	QPSK	36	0	18.97	19.06	18.83	20
15	QPSK	36	20	18.84	19.06	19.07	
15	QPSK	36	39	18.86	19.01	18.76	
15	QPSK	75	0	18.87	18.97	18.66	
15	16QAM	1	0	19.29	19.41	19.28	20
15	16QAM	1	37	19.19	19.56	19.15	
15	16QAM	1	74	19.05	19.15	19.10	
15	16QAM	36	0	18.66	18.84	19.05	20
15	16QAM	36	20	18.67	18.72	18.58	
15	16QAM	36	39	18.85	18.68	18.57	
15	16QAM	75	0	18.45	18.69	18.54	
15	64QAM	1	0	19.38	19.75	19.25	20
15	64QAM	1	37	19.09	19.27	19.18	
15	64QAM	1	74	19.10	19.15	19.36	
15	64QAM	36	0	18.66	18.70	18.54	20
15	64QAM	36	20	18.90	18.69	18.54	
15	64QAM	36	39	18.45	18.63	18.46	
15	64QAM	75	0	18.41	18.84	18.35	
Channel				37800	38000	38200	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	20.19	20.12	20.01	21
10	QPSK	1	25	19.64	19.79	19.61	
10	QPSK	1	49	19.44	19.87	19.50	
10	QPSK	25	0	18.91	18.98	18.79	20
10	QPSK	25	12	18.89	18.99	19.10	
10	QPSK	25	25	18.80	18.91	18.65	
10	QPSK	50	0	18.81	18.84	18.63	
10	16QAM	1	0	19.21	19.33	19.17	20
10	16QAM	1	25	19.03	19.47	19.06	
10	16QAM	1	49	18.99	19.11	19.05	
10	16QAM	25	0	18.60	18.83	18.96	20
10	16QAM	25	12	18.52	18.76	18.57	
10	16QAM	25	25	18.77	18.72	18.55	
10	16QAM	50	0	18.48	18.60	18.47	
10	64QAM	1	0	19.34	19.65	19.18	20
10	64QAM	1	25	19.14	19.28	19.09	
10	64QAM	1	49	19.02	19.09	19.25	
10	64QAM	25	0	18.67	18.67	18.58	20
10	64QAM	25	12	18.82	18.68	18.52	
10	64QAM	25	25	18.41	18.61	18.46	
10	64QAM	50	0	18.33	18.79	18.40	
Channel				37775	38000	38225	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	20.13	20.18	20.04	21
5	QPSK	1	12	19.63	19.72	19.61	
5	QPSK	1	24	19.42	19.88	19.47	
5	QPSK	12	0	18.93	19.07	18.84	20
5	QPSK	12	7	18.89	19.02	19.09	
5	QPSK	12	13	18.75	18.87	18.68	
5	QPSK	25	0	18.79	18.85	18.70	
5	16QAM	1	0	19.16	19.36	19.19	20
5	16QAM	1	12	19.12	19.53	19.05	
5	16QAM	1	24	19.03	19.14	18.98	
5	16QAM	12	0	18.60	18.79	18.95	20
5	16QAM	12	7	18.57	18.70	18.58	
5	16QAM	12	13	18.73	18.68	18.55	
5	16QAM	25	0	18.47	18.64	18.50	
5	64QAM	1	0	19.30	19.61	19.17	20
5	64QAM	1	12	19.03	19.25	19.08	
5	64QAM	1	24	19.03	19.05	19.28	
5	64QAM	12	0	18.62	18.71	18.52	20
5	64QAM	12	7	18.90	18.62	18.47	
5	64QAM	12	13	18.43	18.55	18.44	
5	64QAM	25	0	18.38	18.81	18.33	

Band 40 (2.3G Band-1)
Part 27D-1 2305MHz ~ 2315MHz

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	20.14			21
10	QPSK	1	25	19.93			
10	QPSK	1	49	19.88			
10	QPSK	25	0	19.05			20
10	QPSK	25	12	19.00			
10	QPSK	25	25	18.93			
10	QPSK	50	0	18.87			
10	16QAM	1	0	19.50			20
10	16QAM	1	25	19.36			
10	16QAM	1	49	19.27			
10	16QAM	25	0	18.84			20
10	16QAM	25	12	18.78			
10	16QAM	25	25	18.72			
10	16QAM	50	0	18.67			
10	64QAM	1	0	19.37			20
10	64QAM	1	25	19.26			
10	64QAM	1	49	19.13			
10	64QAM	25	0	18.69			20
10	64QAM	25	12	18.63			
10	64QAM	25	25	18.57			
10	64QAM	50	0	18.52			
Channel				38725	38750	38775	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	QPSK	1	0	19.87	20.05	20.00	21
5	QPSK	1	12	19.79	19.70	19.77	
5	QPSK	1	24	19.81	19.61	19.69	
5	QPSK	12	0	18.90	19.07	19.02	20
5	QPSK	12	7	18.90	18.80	18.88	
5	QPSK	12	13	18.79	18.65	18.81	
5	QPSK	25	0	18.70	18.83	18.80	
5	16QAM	1	0	19.34	19.15	19.42	20
5	16QAM	1	12	19.21	19.07	19.25	
5	16QAM	1	24	19.12	18.94	19.14	
5	16QAM	12	0	18.73	18.72	18.76	20
5	16QAM	12	7	18.70	18.54	18.64	
5	16QAM	12	13	18.60	18.49	18.61	
5	16QAM	25	0	18.60	18.42	18.51	
5	64QAM	1	0	19.32	19.06	19.25	20
5	64QAM	1	12	19.18	19.02	19.06	
5	64QAM	1	24	18.99	18.95	19.02	
5	64QAM	12	0	18.58	18.67	18.56	20
5	64QAM	12	7	18.51	18.70	18.57	
5	64QAM	12	13	18.48	18.61	18.51	
5	64QAM	25	0	18.43	18.53	18.39	

Band 40 (2.3G Band-2)
Part 27D-2 2350MHz ~ 2360MHz

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	20.11			21
10	QPSK	1	25	19.95			
10	QPSK	1	49	19.79			
10	QPSK	25	0	19.05			20
10	QPSK	25	12	18.99			
10	QPSK	25	25	18.93			
10	QPSK	50	0	18.87			
10	16QAM	1	0	19.44			20
10	16QAM	1	25	19.33			
10	16QAM	1	49	19.22			
10	16QAM	25	0	18.80			20
10	16QAM	25	12	18.73			
10	16QAM	25	25	18.68			
10	16QAM	50	0	18.62			
10	64QAM	1	0	19.28			20
10	64QAM	1	25	19.19			
10	64QAM	1	49	19.05			
10	64QAM	25	0	18.68			20
10	64QAM	25	12	18.62			
10	64QAM	25	25	18.57			
10	64QAM	50	0	18.51			
Channel				39175	39200	39225	Tune-up limit (dBm)
Frequency (MHz)				2352.5	2355	2357.5	
5	QPSK	1	0	19.85	19.95	19.87	21
5	QPSK	1	12	19.73	19.66	19.72	
5	QPSK	1	24	19.71	19.48	19.66	
5	QPSK	12	0	18.87	18.93	18.92	20
5	QPSK	12	7	18.84	18.70	18.85	
5	QPSK	12	13	18.76	18.60	18.79	
5	QPSK	25	0	18.67	18.75	18.74	
5	16QAM	1	0	19.31	19.05	19.32	20
5	16QAM	1	12	19.18	18.99	19.18	
5	16QAM	1	24	19.07	18.87	19.10	
5	16QAM	12	0	18.65	18.68	18.68	20
5	16QAM	12	7	18.57	18.45	18.57	
5	16QAM	12	13	18.53	18.42	18.56	
5	16QAM	25	0	18.50	18.33	18.49	
5	64QAM	1	0	19.18	19.03	19.16	20
5	64QAM	1	12	19.07	18.92	19.03	
5	64QAM	1	24	18.97	18.83	18.90	
5	64QAM	12	0	18.51	18.63	18.54	20
5	64QAM	12	7	18.45	18.57	18.48	
5	64QAM	12	13	18.38	18.53	18.41	
5	64QAM	25	0	18.35	18.43	18.36	

Band 41 (2496~2690MHz)

BW [MHz]	Modulation	RB Size	RB Offset	for IC Low channel	Low Channel	Middle Low Channel	Middle Channel	Middle High Channel	High Channel	Tune-up limit (dBm)
Channel				39790	39750	40185	40620	41055	41490	
Frequency (MHz)				2510	2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	20.09	20.19	20.12	20.26	20.13	20.05	21
20	QPSK	1	49	19.88	19.92	19.91	19.93	19.80	19.73	
20	QPSK	1	99	19.72	19.77	19.82	19.82	19.61	19.67	
20	QPSK	50	0	19.05	19.10	19.01	19.23	18.93	18.89	20
20	QPSK	50	24	19.05	18.99	19.03	19.12	18.79	18.88	
20	QPSK	50	50	18.91	18.97	18.90	19.06	18.77	18.74	
20	QPSK	100	0	18.88	18.84	18.88	19.00	18.66	18.77	
20	16QAM	1	0	19.44	19.37	19.28	19.51	19.39	19.32	20
20	16QAM	1	49	19.41	19.15	19.21	19.40	19.32	19.28	
20	16QAM	1	99	19.25	19.05	19.05	19.24	19.24	19.03	
20	16QAM	50	0	18.93	18.89	18.73	18.97	18.89	18.77	20
20	16QAM	50	24	18.86	18.75	18.68	18.95	18.86	18.79	
20	16QAM	50	50	18.91	18.68	18.65	18.91	18.77	18.64	
20	16QAM	100	0	18.85	18.68	18.58	18.90	18.75	18.61	
20	64QAM	1	0	19.46	19.32	19.22	19.47	19.18	19.22	20
20	64QAM	1	49	19.36	19.19	19.02	19.41	19.05	19.15	
20	64QAM	1	99	19.23	19.10	19.02	19.23	18.93	19.02	
20	64QAM	50	0	18.88	18.82	18.69	18.98	18.67	18.69	20
20	64QAM	50	24	18.86	18.79	18.59	18.89	18.64	18.69	
20	64QAM	50	50	18.76	18.64	18.53	18.80	18.57	18.58	
20	64QAM	100	0	18.73	18.66	18.45	18.78	18.42	18.48	
Channel				39765	39725	40173	40620	41068	41515	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	20.05	20.19	20.14	19.95	20.10	20.11	21
15	QPSK	1	37	19.82	19.76	19.83	19.90	19.74	19.84	
15	QPSK	1	74	19.73	19.66	19.67	19.71	19.68	19.63	
15	QPSK	36	0	19.02	18.99	18.90	18.99	18.99	18.92	20
15	QPSK	36	20	18.85	18.96	18.84	18.90	18.97	18.88	
15	QPSK	36	39	18.75	18.82	18.75	18.77	18.88	18.77	
15	QPSK	75	0	18.83	18.79	18.84	18.89	18.74	18.76	
15	16QAM	1	0	19.40	19.16	19.23	19.31	19.26	19.19	20
15	16QAM	1	37	19.33	19.03	19.13	19.36	19.10	19.16	
15	16QAM	1	74	19.18	19.01	18.84	19.15	19.01	18.87	
15	16QAM	36	0	18.93	18.78	18.73	18.91	18.84	18.67	20
15	16QAM	36	20	18.92	18.71	18.67	18.82	18.73	18.67	
15	16QAM	36	39	18.76	18.67	18.50	18.78	18.65	18.49	
15	16QAM	75	0	18.81	18.64	18.42	18.82	18.65	18.45	
15	64QAM	1	0	19.39	19.20	19.15	19.44	19.17	19.19	20
15	64QAM	1	37	19.23	19.11	19.05	19.19	19.01	19.07	
15	64QAM	1	74	19.11	18.99	19.01	19.19	19.11	19.01	
15	64QAM	36	0	18.82	18.70	18.57	18.86	18.80	18.60	20
15	64QAM	36	20	18.77	18.63	18.51	18.74	18.73	18.52	
15	64QAM	36	39	18.70	18.71	18.49	18.74	18.64	18.43	
15	64QAM	75	0	18.69	18.63	18.43	18.71	18.54	18.47	
Channel				39740	39700	40160	40620	41080	41540	Tune-up limit (dBm)
Frequency (MHz)				2505	2501	2547	2593	2639	2685	
10	QPSK	1	0	19.98	20.09	20.00	20.07	20.02	20.08	21
10	QPSK	1	25	19.83	19.85	19.84	19.78	19.77	19.84	
10	QPSK	1	49	19.70	19.72	19.66	19.65	19.72	19.69	
10	QPSK	25	0	18.96	18.94	18.92	19.02	19.03	18.89	20
10	QPSK	25	12	18.88	18.89	18.84	18.95	18.90	18.93	
10	QPSK	25	25	18.80	18.83	18.83	18.88	18.85	18.83	
10	QPSK	50	0	18.78	18.81	18.78	18.82	18.81	18.82	
10	16QAM	1	0	19.35	19.23	19.27	19.41	19.19	19.17	20
10	16QAM	1	25	19.30	19.05	19.10	19.36	19.03	19.11	
10	16QAM	1	49	19.17	19.05	18.90	19.18	18.98	18.95	
10	16QAM	25	0	18.84	18.71	18.64	18.86	18.75	18.75	20
10	16QAM	25	12	18.82	18.65	18.66	18.79	18.70	18.62	
10	16QAM	25	25	18.79	18.64	18.50	18.73	18.66	18.53	
10	16QAM	50	0	18.72	18.60	18.54	18.69	18.57	18.47	
10	64QAM	1	0	19.33	19.20	19.06	19.39	19.20	19.05	20
10	64QAM	1	25	19.26	19.11	19.05	19.25	19.02	19.08	
10	64QAM	1	49	19.10	18.94	18.90	19.10	18.99	18.94	
10	64QAM	25	0	18.85	18.68	18.56	18.82	18.75	18.64	20
10	64QAM	25	12	18.70	18.63	18.54	18.68	18.69	18.55	
10	64QAM	25	25	18.68	18.56	18.46	18.64	18.67	18.49	
10	64QAM	50	0	18.59	18.57	18.38	18.61	18.50	18.42	
Channel				39715	39675	40148	40620	41093	41565	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2498.5	2545.8	2593	2640.30	2687.5	
5	QPSK	1	0	19.98	20.01	19.98	20.02	20.00	20.02	21
5	QPSK	1	12	19.80	19.82	19.87	19.79	19.79	19.80	
5	QPSK	1	24	19.70	19.70	19.69	19.64	19.76	19.61	
5	QPSK	12	0	18.97	19.00	18.97	19.00	18.96	18.94	20
5	QPSK	12	7	18.89	18.95	18.93	18.91	18.95	18.85	
5	QPSK	12	13	18.80	18.79	18.83	18.86	18.83	18.78	
5	QPSK	25	0	18.80	18.78	18.79	18.84	18.82	18.73	
5	16QAM	1	0	19.45	19.25	19.19	19.38	19.23	19.26	20
5	16QAM	1	12	19.24	19.08	19.08	19.35	19.02	19.15	
5	16QAM	1	24	19.22	18.96	18.93	19.16	18.96	18.95	
5	16QAM	12	0	18.88	18.70	18.74	18.92	18.76	18.64	20
5	16QAM	12	7	18.84	18.69	18.68	18.88	18.72	18.68	
5	16QAM	12	13	18.77	18.65	18.57	18.82	18.57	18.56	
5	16QAM	25	0	18.68	18.57	18.54	18.65	18.55	18.53	
5	64QAM	1	0	19.39	19.19	19.11	19.33	19.19	19.15	20
5	64QAM	1	12	19.22	19.11	18.98	19.19	19.07	19.05	
5	64QAM	1	24	19.15	18.96	18.89	19.09	19.00	18.86	
5	64QAM	12	0	18.80	18.76	18.63	18.79	18.68	18.58	20
5	64QAM	12	7	18.73	18.72	18.51	18.78	18.64	18.49	
5	64QAM	12	13	18.69	18.60	18.49	18.66	18.58	18.49	
5	64QAM	25	0	18.62	18.52	18.42	18.61	18.56	18.43	

n41 (2496 ~ 2690MHz)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				509202	513900	518598	523296	528000	
Frequency (MHz)				2546	2569.5	2593	2616.5	2640	
100	DFT-s-OFDM PI/2 BPSK	1	1	17.05	17.22	17.30	17.31	17.41	18
100		1	136	17.22	17.14	17.26	17.28	17.46	
100		1	272	17.44	14.01	14.15	14.29	14.30	
100		135	1	16.71	16.81	16.97	16.83	17.02	18
100		135	67	17.30	17.26	17.46	17.40	17.31	
100		135	136	16.77	16.80	17.07	17.15	17.23	
100		270	0	16.81	16.79	16.97	17.00	17.12	
100	DFT-s-OFDM QPSK	1	1	17.41	17.38	17.48	17.32	17.41	18
100		1	136	17.28	17.26	17.37	17.35	17.36	
100		1	272	17.29	17.32	17.31	17.29	17.35	
100		135	1	17.01	16.99	17.18	17.13	17.09	18
100		135	67	17.04	17.17	17.01	17.07	17.24	
100		135	136	17.03	17.06	17.09	17.06	17.07	
100		270	0	17.00	17.03	17.17	17.23	17.37	
100	DFT-s-OFDM 16QAM	1	1	16.16	16.08	16.27	16.34	16.43	17
100	DFT-s-OFDM 64QAM	1	1	14.33	14.48	14.64	14.61	14.69	15.5
100	DFT-s-OFDM 256QAM	1	1	12.47	12.57	12.76	12.64	12.79	13.5
Channel				508200	513402	518598	523800	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2567	2593	2619	2645	
90	DFT-s-OFDM PI/2 BPSK	1	1	17.12	17.17	17.30	17.26	17.47	18
Channel				507204	512904	518598	524298	529998	Tune-up limit (dBm)
Frequency (MHz)				2536	2564.5	2593	2621.5	2650	
80	DFT-s-OFDM PI/2 BPSK	1	1	17.07	17.23	17.23	17.30	17.43	18
Channel				505200	511902	518598	525300	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2559.5	2593	2626.5	2660	
60	DFT-s-OFDM PI/2 BPSK	1	1	17.28	17.37	17.12	17.52	17.54	18
Channel				504204	511404	518598	525798	532998	Tune-up limit (dBm)
Frequency (MHz)				2521	2557	2593	2629	2665	
50	DFT-s-OFDM PI/2 BPSK	1	1	17.50	17.46	17.55	17.60	17.52	18
Channel				503202	510900	518598	526296	534000	Tune-up limit (dBm)
Frequency (MHz)				2516	2554.5	2593	2631.5	2670	
40	DFT-s-OFDM PI/2 BPSK	1	1	17.40	17.38	17.56	17.38	17.51	18
Channel				502200	510402	518598	526800	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2552	2593	2634	2675	
30	DFT-s-OFDM PI/2 BPSK	1	1	17.42	17.54	17.42	17.53	17.37	18
Channel				501204	509898	518598	527298	535998	Tune-up limit (dBm)
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	DFT-s-OFDM PI/2 BPSK	1	1	16.99	17.13	17.21	17.23	17.40	18
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				509202	513900	518598	523296	528000	
Frequency (MHz)				2546	2569.5	2593	2616.5	2640	
100	CP-OFDM QPSK	1	1	15.72	15.80	15.89	15.81	16.00	16.5
100	CP-OFDM 16QAM	1	1	15.16	15.33	15.41	15.41	15.46	16
100	CP-OFDM 64QAM	1	1	13.52	13.78	13.83	13.74	13.87	14.5
100	CP-OFDM 256QAM	1	1	10.58	10.72	10.75	10.74	10.89	11.5

2496
2690

n77 (3700 MHz ~ 3980 MHz)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				650000	653000	656000	659000	662000	
Frequency (MHz)				3750	3795	3840	3885	3930	
100	DFT-s-OFDM PI/2 BPSK	1	1	18.84	18.76	18.78	18.97	19.10	19.50
100		1	136	18.93	18.75	19.09	19.15	19.20	
100		1	272	18.32	18.61	18.66	18.90	18.79	
100		135	1	18.42	18.35	18.50	18.55	18.73	19.50
100		135	67	18.89	18.85	19.08	19.20	19.25	
100		135	136	18.32	18.51	18.57	18.72	18.67	
100		270	0	18.35	18.37	18.53	18.79	18.72	
100	DFT-s-OFDM QPSK	1	1	18.98	18.82	19.26	18.97	19.15	20.00
100		1	136	18.87	18.73	19.01	19.19	19.03	
100		1	272	17.82	18.14	18.16	18.39	18.20	
100		135	1	19.07	19.01	19.08	18.97	19.00	20.00
100		135	67	18.93	18.92	19.01	18.99	19.04	
100		135	136	18.68	18.81	18.91	18.95	18.98	
100		270	0	18.73	18.70	18.80	18.99	18.98	
100	DFT-s-OFDM 16QAM	1	1	17.83	17.71	17.77	17.88	18.06	17.50
100	DFT-s-OFDM 64QAM	1	1	16.12	16.04	16.10	16.25	16.35	16.00
100	DFT-s-OFDM 256QAM	1	1	14.28	14.21	14.22	14.35	14.43	14.00
Channel				649334	652668	656000	659332	662666	Tune-up limit (dBm)
Frequency (MHz)				3740	3790	3840	3890	3940	
80	DFT-s-OFDM PI/2 BPSK	1	1	18.87	18.85	18.78	19.01	19.03	19.50
Channel				648668	652334	656000	659666	663332	Tune-up limit (dBm)
Frequency (MHz)				3730	3785	3840	3895	3950	
60	DFT-s-OFDM PI/2 BPSK	1	1	19.09	18.98	18.70	19.17	19.15	20.00
Channel				648000	652000	656000	660000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3780	3840	3900	3960	
40	DFT-s-OFDM PI/2 BPSK	1	1	19.16	19.19	19.19	19.22	19.19	20.00
Channel				647668	651834	656000	660166	664332	Tune-up limit (dBm)
Frequency (MHz)				3715	3777.5	3840	3902.5	3965	
30	DFT-s-OFDM PI/2 BPSK	1	1	19.10	19.20	19.13	19.21	19.18	20.00
Channel				647334	651668	656000	660332	664666	Tune-up limit (dBm)
Frequency (MHz)				3710	3775	3840	3905	3970	
20	DFT-s-OFDM PI/2 BPSK	1	1	19.11	19.10	19.12	19.10	19.02	20.00
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				650000	653000	656000	659000	662000	
Frequency (MHz)				3750	3795	3840	3885	3930	
100	CP-OFDM QPSK	1	1	17.34	17.30	17.31	12.42	17.58	18.00
100	CP-OFDM 16QAM	1	1	16.85	16.82	16.83	17.00	17.11	17.50
100	CP-OFDM 64QAM	1	1	15.40	15.24	15.24	15.41	15.58	16.00
100	CP-OFDM 256QAM	1	1	12.39	12.32	12.37	12.42	12.57	13.00

3700
3980

Reduced Power Level 2

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	15.01	15.02	15.04	16.00
3GPP Rel 6	HSDPA Subtest-1	13.78	13.94	13.92	14.50
3GPP Rel 6	HSDPA Subtest-2	13.73	13.92	13.98	13.50
3GPP Rel 6	HSDPA Subtest-3	13.31	13.45	13.45	13.00
3GPP Rel 6	HSDPA Subtest-4	13.30	13.43	13.52	13.00
3GPP Rel 8	DC-HSDPA Subtest-1	13.46	13.57	13.61	14.50
3GPP Rel 8	DC-HSDPA Subtest-2	13.39	13.49	13.54	13.50
3GPP Rel 8	DC-HSDPA Subtest-3	13.00	13.49	13.42	13.00
3GPP Rel 8	DC-HSDPA Subtest-4	12.99	13.06	13.04	13.00
3GPP Rel 6	HSUPA Subtest-1	13.85	13.96	13.97	14.50
3GPP Rel 6	HSUPA Subtest-2	13.23	13.41	13.46	14.00
3GPP Rel 6	HSUPA Subtest-3	13.82	13.91	13.93	14.50
3GPP Rel 6	HSUPA Subtest-4	13.74	13.87	13.91	14.50
3GPP Rel 6	HSUPA Subtest-5	13.77	13.94	14.00	14.50
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	13.26	13.50	13.48	14.00
Attenuator			Cable Loss		
Mode			Max.	15.04	

Band 2 (1900MHz Band)
Part 24E

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				18700	18900	19100	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	13.03	13.07	13.02	14
20	QPSK	1	49	12.80	12.84	12.84	
20	QPSK	1	99	12.57	12.72	12.60	
20	QPSK	50	0	12.05	12.16	12.02	13
20	QPSK	50	24	11.89	12.04	11.97	
20	QPSK	50	50	11.86	12.07	11.87	
20	QPSK	100	0	11.79	12.01	11.79	
20	16QAM	1	0	12.28	12.32	12.38	13
20	16QAM	1	49	12.20	12.24	12.38	
20	16QAM	1	99	12.01	12.12	12.22	
20	16QAM	50	0	11.84	11.81	11.98	13
20	16QAM	50	24	11.77	11.76	11.97	
20	16QAM	50	50	11.69	11.62	11.84	
20	16QAM	100	0	11.62	11.57	11.78	
20	64QAM	1	0	12.23	12.23	12.27	13
20	64QAM	1	49	12.17	12.26	12.25	
20	64QAM	1	99	12.02	12.02	12.12	
20	64QAM	50	0	11.82	11.77	11.84	13
20	64QAM	50	24	11.70	11.66	11.86	
20	64QAM	50	50	11.73	11.66	11.79	
20	64QAM	100	0	11.67	11.53	11.71	
Channel				18675	18900	19125	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	13.00	13.03	12.97	14
15	QPSK	1	37	12.80	12.86	12.82	
15	QPSK	1	74	12.65	12.73	12.66	
15	QPSK	36	0	12.02	12.15	12.05	13
15	QPSK	36	20	11.96	12.09	11.98	
15	QPSK	36	39	11.91	12.04	11.92	
15	QPSK	75	0	11.85	11.99	11.86	
15	16QAM	1	0	12.34	12.39	12.44	13
15	16QAM	1	37	12.23	12.30	12.41	
15	16QAM	1	74	12.10	12.18	12.31	
15	16QAM	36	0	11.82	11.83	12.00	13
15	16QAM	36	20	11.73	11.76	11.97	
15	16QAM	36	39	11.69	11.67	11.88	
15	16QAM	75	0	11.61	11.60	11.86	
15	64QAM	1	0	12.31	12.28	12.32	13
15	64QAM	1	37	12.24	12.25	12.24	
15	64QAM	1	74	12.09	12.05	12.11	
15	64QAM	36	0	11.83	11.79	11.91	13
15	64QAM	36	20	11.78	11.75	11.84	
15	64QAM	36	39	11.71	11.65	11.79	
15	64QAM	75	0	11.63	11.61	11.72	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	12.95	13.00	12.93	14
10	QPSK	1	25	12.74	12.81	12.76	
10	QPSK	1	49	12.61	12.69	12.61	
10	QPSK	25	0	11.99	12.11	12.02	13
10	QPSK	25	12	11.90	12.05	11.93	
10	QPSK	25	25	11.87	11.99	11.88	
10	QPSK	50	0	11.81	11.96	11.82	
10	16QAM	1	0	12.30	12.35	12.40	13
10	16QAM	1	25	12.18	12.25	12.38	
10	16QAM	1	49	12.05	12.15	12.27	
10	16QAM	25	0	11.77	11.78	11.94	13
10	16QAM	25	12	11.69	11.70	11.91	
10	16QAM	25	25	11.64	11.62	11.85	
10	16QAM	50	0	11.55	11.54	11.81	
10	64QAM	1	0	12.26	12.24	12.27	13
10	64QAM	1	25	12.19	12.21	12.20	
10	64QAM	1	49	12.04	12.01	12.08	
10	64QAM	25	0	11.79	11.76	11.87	13
10	64QAM	25	12	11.73	11.71	11.81	
10	64QAM	25	25	11.65	11.61	11.73	
10	64QAM	50	0	11.59	11.57	11.66	
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	12.96	12.97	12.92	14
5	QPSK	1	12	12.76	12.81	12.78	
5	QPSK	1	24	12.62	12.68	12.63	
5	QPSK	12	0	11.99	12.11	12.00	13
5	QPSK	12	7	11.93	12.04	11.93	
5	QPSK	12	13	11.86	11.99	11.88	
5	QPSK	25	0	11.80	11.96	11.82	
5	16QAM	1	0	12.30	12.33	12.40	13
5	16QAM	1	12	12.18	12.25	12.37	
5	16QAM	1	24	12.07	12.13	12.27	
5	16QAM	12	0	11.77	11.80	11.94	13
5	16QAM	12	7	11.69	11.73	11.91	
5	16QAM	12	13	11.65	11.63	11.85	
5	16QAM	25	0	11.57	11.57	11.82	
5	64QAM	1	0	12.27	12.23	12.27	13
5	64QAM	1	12	12.21	12.21	12.19	
5	64QAM	1	24	12.06	12.00	12.07	
5	64QAM	12	0	11.78	11.73	11.86	13
5	64QAM	12	7	11.73	11.69	11.81	
5	64QAM	12	13	11.68	11.62	11.75	
5	64QAM	25	0	11.59	11.56	11.69	
Channel				18615	18900	19185	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	12.91	12.93	12.89	14
3	QPSK	1	8	12.72	12.76	12.74	
3	QPSK	1	14	12.56	12.63	12.59	
3	QPSK	8	0	11.96	12.08	11.95	13
3	QPSK	8	4	11.90	12.01	11.89	
3	QPSK	8	7	11.83	11.94	11.84	

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	15.02	15.24	15.19	16
20	QPSK	1	49	14.95	14.83	15.01	
20	QPSK	1	99	14.84	14.79	14.78	
20	QPSK	50	0	14.01	14.01	13.91	15
20	QPSK	50	24	13.91	13.76	13.85	
20	QPSK	50	50	13.87	13.86	13.85	
20	QPSK	100	0	13.81	13.85	13.73	
20	16QAM	1	0	14.23	14.32	14.26	15
20	16QAM	1	49	14.20	14.13	13.99	
20	16QAM	1	99	14.00	14.05	13.92	
20	16QAM	50	0	13.71	13.68	13.72	15
20	16QAM	50	24	13.75	13.70	13.63	
20	16QAM	50	50	13.64	13.66	13.51	
20	16QAM	100	0	13.69	13.54	13.60	
20	64QAM	1	0	14.18	14.15	14.00	15
20	64QAM	1	49	14.02	13.91	13.98	
20	64QAM	1	99	13.87	13.97	13.77	
20	64QAM	50	0	13.68	13.69	13.51	15
20	64QAM	50	24	13.57	13.60	13.56	
20	64QAM	50	50	13.50	13.57	13.47	
20	64QAM	100	0	13.44	13.48	13.46	
Channel				132047	132322	132597	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	14.73	15.09	14.82	16
15	QPSK	1	37	14.86	14.77	14.83	
15	QPSK	1	74	14.48	14.63	14.66	
15	QPSK	36	0	13.89	13.97	13.81	15
15	QPSK	36	20	13.66	13.60	13.62	
15	QPSK	36	39	13.72	13.74	13.56	
15	QPSK	75	0	13.45	13.69	13.43	
15	16QAM	1	0	14.12	14.18	13.98	15
15	16QAM	1	37	13.79	14.07	13.90	
15	16QAM	1	74	13.75	13.78	13.78	
15	16QAM	36	0	13.44	13.62	13.48	15
15	16QAM	36	20	13.64	13.54	13.62	
15	16QAM	36	39	13.47	13.40	13.18	
15	16QAM	75	0	13.39	13.27	13.44	
15	64QAM	1	0	13.92	13.97	13.78	15
15	64QAM	1	37	13.69	13.80	13.73	
15	64QAM	1	74	13.60	13.66	13.48	
15	64QAM	36	0	13.47	13.38	13.51	15
15	64QAM	36	20	13.42	13.42	13.39	
15	64QAM	36	39	13.22	13.49	13.41	
15	64QAM	75	0	13.35	13.37	13.16	
Channel				132022	132322	132622	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	14.72	15.11	14.87	16
10	QPSK	1	25	14.83	14.76	14.85	
10	QPSK	1	49	14.59	14.55	14.74	
10	QPSK	25	0	13.87	13.99	13.85	15
10	QPSK	25	12	13.66	13.63	13.58	
10	QPSK	25	25	13.72	13.76	13.60	
10	QPSK	50	0	13.52	13.78	13.40	
10	16QAM	1	0	14.15	14.15	14.01	15
10	16QAM	1	25	13.79	14.09	13.85	
10	16QAM	1	49	13.74	13.74	13.69	
10	16QAM	25	0	13.48	13.57	13.41	15
10	16QAM	25	12	13.55	13.55	13.61	
10	16QAM	25	25	13.50	13.42	13.22	
10	16QAM	50	0	13.30	13.35	13.48	
10	64QAM	1	0	14.00	13.99	13.73	15
10	64QAM	1	25	13.66	13.78	13.65	
10	64QAM	1	49	13.56	13.58	13.54	
10	64QAM	25	0	13.40	13.34	13.51	15
10	64QAM	25	12	13.51	13.38	13.45	
10	64QAM	25	25	13.21	13.58	13.42	
10	64QAM	50	0	13.30	13.44	13.15	
Channel				131997	132322	132647	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	14.71	15.06	14.82	16
5	QPSK	1	12	14.81	14.80	14.81	
5	QPSK	1	24	14.51	14.64	14.64	
5	QPSK	12	0	13.85	13.94	13.89	15
5	QPSK	12	7	13.58	13.56	13.58	
5	QPSK	12	13	13.80	13.74	13.58	
5	QPSK	25	0	13.51	13.72	13.48	
5	16QAM	1	0	14.08	14.16	13.97	15
5	16QAM	1	12	13.87	14.07	13.84	
5	16QAM	1	24	13.83	13.81	13.75	
5	16QAM	12	0	13.51	13.63	13.45	15
5	16QAM	12	7	13.56	13.54	13.52	
5	16QAM	12	13	13.44	13.38	13.20	
5	16QAM	25	0	13.32	13.33	13.54	
5	64QAM	1	0	13.94	13.93	13.70	15
5	64QAM	1	12	13.61	13.80	13.63	
5	64QAM	1	24	13.59	13.55	13.49	
5	64QAM	12	0	13.45	13.40	13.48	15
5	64QAM	12	7	13.53	13.41	13.39	
5	64QAM	12	13	13.17	13.52	13.37	
5	64QAM	25	0	13.34	13.38	13.06	
Channel				131987	132322	132657	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	14.67	15.01	14.78	16
3	QPSK	1	8	14.82	14.71	14.79	
3	QPSK	1	14	14.50	14.57	14.65	
3	QPSK	8	0	13.84	13.91	13.79	15
3	QPSK	8	4	13.56	13.57	13.50	
3	QPSK	8	7	13.74	13.70	13.55	

3	QPSK	15	0	11.76	11.92	11.78	
3	16QAM	1	0	12.25	12.28	12.35	13
3	16QAM	1	8	12.14	12.20	12.32	
3	16QAM	1	14	12.02	12.09	12.24	
3	16QAM	8	0	11.72	11.74	11.91	13
3	16QAM	8	4	11.65	11.68	11.87	
3	16QAM	8	7	11.59	11.59	11.80	
3	16QAM	15	0	11.54	11.53	11.78	
3	64QAM	1	0	12.23	12.18	12.23	13
3	64QAM	1	8	12.17	12.16	12.14	
3	64QAM	1	14	12.02	11.96	12.02	
3	64QAM	8	0	11.73	11.70	11.83	13
3	64QAM	8	4	11.67	11.63	11.77	
3	64QAM	8	7	11.64	11.57	11.71	
3	64QAM	15	0	11.55	11.52	11.65	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	12.87	12.87	12.83	14
1.4	QPSK	1	3	12.69	12.72	12.71	
1.4	QPSK	1	5	12.56	12.60	12.55	
1.4	QPSK	3	0	11.91	12.03	11.93	
1.4	QPSK	3	1	11.82	11.97	11.84	
1.4	QPSK	3	3	11.78	11.90	11.82	
1.4	QPSK	6	0	11.71	11.88	11.73	13
1.4	16QAM	1	0	12.18	12.25	12.32	13
1.4	16QAM	1	3	12.09	12.15	12.26	
1.4	16QAM	1	5	11.98	12.05	12.19	
1.4	16QAM	3	0	11.68	11.72	11.82	
1.4	16QAM	3	1	11.59	11.65	11.79	
1.4	16QAM	3	3	11.57	11.55	11.78	
1.4	16QAM	6	0	11.49	11.48	11.74	13
1.4	64QAM	1	0	12.18	12.13	12.16	13
1.4	64QAM	1	3	12.13	12.11	12.09	
1.4	64QAM	1	5	11.96	11.92	11.99	
1.4	64QAM	3	0	11.71	11.65	11.76	
1.4	64QAM	3	1	11.62	11.60	11.70	
1.4	64QAM	3	3	11.61	11.55	11.67	
1.4	64QAM	6	0	11.50	11.48	11.58	13

3	QPSK	15	0	13.43	13.72	13.41	
3	16QAM	1	0	14.08	14.14	13.97	15
3	16QAM	1	8	13.79	14.02	13.80	
3	16QAM	1	14	13.72	13.73	13.70	
3	16QAM	8	0	13.43	13.57	13.37	15
3	16QAM	8	4	13.56	13.48	13.55	
3	16QAM	8	7	13.45	13.34	13.17	
3	16QAM	15	0	13.30	13.24	13.45	
3	64QAM	1	0	13.91	13.89	13.69	15
3	64QAM	1	8	13.60	13.78	13.67	
3	64QAM	1	14	13.59	13.59	13.45	
3	64QAM	8	0	13.41	13.33	13.45	15
3	64QAM	8	4	13.42	13.39	13.37	
3	64QAM	8	7	13.17	13.51	13.37	
3	64QAM	15	0	13.27	13.35	13.07	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	14.67	15.01	14.81	16
1.4	QPSK	1	3	14.81	14.68	14.80	
1.4	QPSK	1	5	14.51	14.58	14.65	
1.4	QPSK	3	0	13.92	14.03	13.91	
1.4	QPSK	3	1	13.68	13.66	13.63	
1.4	QPSK	3	3	13.82	13.79	13.67	
1.4	QPSK	6	0	13.42	13.69	13.40	15
1.4	16QAM	1	0	14.08	14.17	13.97	15
1.4	16QAM	1	3	13.81	14.00	13.82	
1.4	16QAM	1	5	13.73	13.73	13.68	
1.4	16QAM	3	0	13.42	13.58	13.39	
1.4	16QAM	3	1	13.56	13.49	13.54	
1.4	16QAM	3	3	13.46	13.33	13.15	
1.4	16QAM	6	0	13.30	13.23	13.44	15
1.4	64QAM	1	0	13.91	13.90	13.72	15
1.4	64QAM	1	3	13.61	13.81	13.63	
1.4	64QAM	1	5	13.59	13.57	13.47	
1.4	64QAM	3	0	13.41	13.33	13.46	
1.4	64QAM	3	1	13.43	13.40	13.38	
1.4	64QAM	3	3	13.14	13.50	13.38	
1.4	64QAM	6	0	13.25	13.33	13.08	15

n41 (2496 ~ 2690MHz)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				509202	513900	518598	523296	528000	
Frequency (MHz)				2546	2569.5	2593	2616.5	2640	
100	DFT-s-OFDM PI/2 BPSK	1	1	15.08	15.25	15.33	15.34	15.44	16
100		1	136	15.25	15.17	15.29	15.31	15.49	
100		1	272	15.47	12.04	12.18	12.32	12.33	
100		135	1	14.74	14.84	15.00	14.86	15.05	16
100		135	67	15.33	15.29	15.49	15.43	15.34	
100		135	136	14.80	14.83	15.10	15.18	15.26	
100		270	0	14.84	14.82	15.00	15.03	15.15	
100	DFT-s-OFDM QPSK	1	1	15.44	15.41	15.51	15.35	15.44	16
100		1	136	15.31	15.29	15.40	15.38	15.39	
100		1	272	15.32	15.35	15.34	15.32	15.38	
100		135	1	15.04	15.02	15.21	15.16	15.12	16
100		135	67	15.07	15.20	15.04	15.10	15.27	
100		135	136	15.06	15.09	15.12	15.09	15.10	
100		270	0	15.03	15.06	15.20	15.26	15.40	
100	DFT-s-OFDM 16QAM	1	1	14.19	14.11	14.30	14.37	14.46	15
100	DFT-s-OFDM 64QAM	1	1	12.36	12.51	12.67	12.64	12.72	13.5
100	DFT-s-OFDM 256QAM	1	1	10.50	10.60	10.79	10.67	10.82	11.5
Channel				508200	513402	518598	523800	528996	Tune-up limit (dBm)
Frequency (MHz)				2541	2567	2593	2619	2645	
90	DFT-s-OFDM PI/2 BPSK	1	1	15.15	15.20	15.33	15.29	15.42	16
Channel				507204	512904	518598	524298	529998	Tune-up limit (dBm)
Frequency (MHz)				2536	2564.5	2593	2621.5	2650	
80	DFT-s-OFDM PI/2 BPSK	1	1	15.10	15.26	15.26	15.33	15.46	16
Channel				505200	511902	518598	525300	531996	Tune-up limit (dBm)
Frequency (MHz)				2526	2559.5	2593	2626.5	2660	
60	DFT-s-OFDM PI/2 BPSK	1	1	15.31	15.40	15.15	15.37	15.47	16
Channel				504204	511404	518598	525798	532998	Tune-up limit (dBm)
Frequency (MHz)				2521	2557	2593	2629	2665	
50	DFT-s-OFDM PI/2 BPSK	1	1	15.35	15.39	15.48	15.46	15.35	16
Channel				503202	510900	518598	526296	534000	Tune-up limit (dBm)
Frequency (MHz)				2516	2554.5	2593	2631.5	2670	
40	DFT-s-OFDM PI/2 BPSK	1	1	15.43	15.41	15.39	15.41	15.45	16
Channel				502200	510402	518598	526800	534996	Tune-up limit (dBm)
Frequency (MHz)				2511	2552	2593	2634	2675	
30	DFT-s-OFDM PI/2 BPSK	1	1	15.45	15.37	15.45	15.33	15.40	16
Channel				501204	509898	518598	527298	535998	Tune-up limit (dBm)
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	DFT-s-OFDM PI/2 BPSK	1	1	15.02	15.16	15.24	15.26	15.43	16
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				509202	513900	518598	523296	528000	
Frequency (MHz)				2546	2569.5	2593	2616.5	2640	
100	CP-OFDM QPSK	1	1	13.75	13.83	13.92	13.84	14.03	14.5
100	CP-OFDM 16QAM	1	1	13.19	13.36	13.44	13.44	13.49	14
100	CP-OFDM 64QAM	1	1	11.55	11.81	11.86	11.77	11.90	12.5
100	CP-OFDM 256QAM	1	1	8.61	8.75	8.78	8.77	8.92	9.5

2496
2690

n77 (3700 MHz ~ 3980 MHz)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				650000	653000	656000	659000	662000	
Frequency (MHz)				3750	3795	3840	3885	3930	
100	DFT-s-OFDM PI/2 BPSK	1	1	18.84	18.76	18.78	18.97	19.10	19.50
100		1	136	18.93	18.75	19.09	19.15	19.20	
100		1	272	18.32	18.61	18.66	18.90	18.79	
100		135	1	18.42	18.35	18.50	18.55	18.73	19.50
100		135	67	18.89	18.85	19.08	19.20	19.25	
100		135	136	18.32	18.51	18.57	18.72	18.67	
100		270	0	18.35	18.37	18.53	18.79	18.72	
100	DFT-s-OFDM QPSK	1	1	18.98	18.82	19.26	18.97	19.22	20.00
100		1	136	18.87	18.73	19.01	19.19	19.03	
100		1	272	17.82	18.14	18.16	18.39	18.20	
100		135	1	19.07	19.01	19.08	18.97	19.00	20.00
100		135	67	18.93	18.92	19.01	18.99	19.04	
100		135	136	18.68	18.81	18.91	18.95	18.98	
100		270	0	18.73	18.70	18.80	18.99	18.98	
100	DFT-s-OFDM 16QAM	1	1	17.83	17.71	17.77	17.88	18.06	17.50
100	DFT-s-OFDM 64QAM	1	1	16.12	16.04	16.10	16.25	16.35	16.00
100	DFT-s-OFDM 256QAM	1	1	14.28	14.21	14.22	14.35	14.43	14.00
Channel				649334	652668	656000	659332	662666	Tune-up limit (dBm)
Frequency (MHz)				3740	3790	3840	3890	3940	
80	DFT-s-OFDM PI/2 BPSK	1	1	18.87	18.85	18.78	19.01	19.03	19.50
Channel				648668	652334	656000	659666	663332	Tune-up limit (dBm)
Frequency (MHz)				3730	3785	3840	3895	3950	
60	DFT-s-OFDM PI/2 BPSK	1	1	19.09	18.98	18.70	19.17	19.15	20.00
Channel				648000	652000	656000	660000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3780	3840	3900	3960	
40	DFT-s-OFDM PI/2 BPSK	1	1	19.16	19.19	19.19	19.22	19.19	20.00
Channel				647668	651834	656000	660166	664332	Tune-up limit (dBm)
Frequency (MHz)				3715	3777.5	3840	3902.5	3965	
30	DFT-s-OFDM PI/2 BPSK	1	1	19.10	19.20	19.13	19.21	19.18	20.00
Channel				647334	651668	656000	660332	664666	Tune-up limit (dBm)
Frequency (MHz)				3710	3775	3840	3905	3970	
20	DFT-s-OFDM PI/2 BPSK	1	1	19.11	19.10	19.12	19.10	19.02	20.00
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				650000	653000	656000	659000	662000	
Frequency (MHz)				3750	3795	3840	3885	3930	
100	CP-OFDM QPSK	1	1	17.34	17.30	17.31	12.42	17.58	18.00
100	CP-OFDM 16QAM	1	1	16.85	16.82	16.83	17.00	17.11	17.50
100	CP-OFDM 64QAM	1	1	15.40	15.24	15.24	15.41	15.58	16.00
100	CP-OFDM 256QAM	1	1	12.39	12.32	12.37	12.42	12.57	13.00

3700
3980

	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	**12.67**	13.50	12.00	99.08
		CH 6	2437	12.20	13.00	12.00	
		CH 11	2462	12.24	13.00	12.00	
	802.11g 6Mbps	CH 1	2412	11.46	12.00	11.00	98.99
		CH 6	2437	11.50	12.00	11.00	
		CH 11	2462	11.40	12.00	11.00	
	802.11n-HT20 MCS0	CH 1	2412	10.35	11.00	10.00	99.02
		CH 6	2437	10.35	11.00	10.00	
		CH 11	2462	10.17	10.50	10.00	
	802.11ax-HEW20 MCS0（RU242）	CH 1	2412	9.60	10.00	9.00	99.09
		CH 6	2437	9.55	10.00	9.00	
		CH 11	2462	9.36	10.00	9.00	
	802.11ax-HEW20 MCS0（RU26）	CH 1	2412	8.82	9.50	9.00	98.94
		CH 6	2437	10.12	10.50	9.00	
		CH 11	2462	9.92	10.50	9.00	
	802.11ax-HEW20 MCS0（RU52）	CH 1	2412	8.56	9.00	9.00	98.43
		CH 6	2437	9.36	10.00	9.00	
		CH 11	2462	8.92	9.50	9.00	

	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	10.91	11.50	11.00	99.08
		CH 6	2437	**11.52**	12.00	11.00	
		CH 11	2462	11.15	11.50	11.00	
	802.11g 6Mbps	CH 1	2412	10.15	10.50	10.00	98.99
		CH 6	2437	10.62	11.00	10.00	
		CH 11	2462	10.44	11.00	10.00	
	802.11n-HT20 MCS0	CH 1	2412	8.82	9.50	9.00	99.02
		CH 6	2437	9.15	9.50	9.00	
		CH 11	2462	9.08	9.50	9.00	
	802.11ax-HEW20 MCS0（RU242）	CH 1	2412	7.84	8.50	8.00	99.09
		CH 6	2437	8.35	9.00	8.00	
		CH 11	2462	8.08	8.50	8.00	
	802.11ax-HEW20 MCS0（RU26）	CH 1	2412	7.81	8.50	8.00	98.94
		CH 6	2437	8.92	9.50	8.00	
		CH 11	2462	9.05	9.50	8.00	
	802.11ax-HEW20 MCS0（RU52）	CH 1	2412	7.92	8.50	8.00	98.43
		CH 6	2437	7.92	8.50	8.00	
		CH 11	2462	7.83	8.50	8.00	

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
5.5GHz WLAN ANT 1	802.11a 6Mbps	CH 100	5500	11.84	12.50	12.00	99.12
		CH 120	5600	11.62	12.00	12.00	
		CH 144	5720	11.24	12.00	12.00	
	802.11n-HT20 MCS0	CH 100	5500	11.85	12.50	12.00	98.88
		CH 120	5600	11.68	12.00	12.00	
		CH 144	5720	11.26	11.50	12.00	
	802.11n-HT40 MCS0	CH 102	5510	**12.03**	12.50	12.00	99.02
		CH 126	5630	11.45	12.00	12.00	
		CH 142	5710	11.38	12.00	12.00	
	802.11ac-VHT20 MCS0	CH 100	5500	10.71	11.50	11.00	99.16
		CH 120	5600	10.58	11.00	11.00	
		CH 144	5720	10.17	10.50	11.00	
	802.11ac-VHT40 MCS0	CH 102	5510	9.80	10.50	10.00	99.16
		CH 126	5630	9.61	10.00	10.00	
		CH 142	5710	9.51	10.00	10.00	
	802.11ac-VHT80 MCS0	CH 106	5530	9.86	10.50	10.00	98.88
		CH 122	5610	10.04	10.50	10.00	
		CH 138	5690	9.85	10.50	10.00	
	802.11ax-HEW20 MCS0（RU242）	CH 100	5500	10.70	11.50	11.00	98.94
		CH 120	5600	10.49	11.00	11.00	
		CH 144	5720	10.15	10.50	10.00	
	802.11ax-HEW20 MCS0（RU26）	CH 100	5500	8.74	9.50	11.00	98.94
		CH 120	5600	8.61	9.50	11.00	
		CH 144	5720	8.50	9.00	10.00	
	802.11ax-HEW40 MCS0	CH 102	5510	9.68	10.00	10.00	99.09
		CH 126	5630	9.47	10.00	10.00	
		CH 142	5710	9.33	10.00	10.00	
	802.11ax-HEW80 MCS0	CH 106	5530	9.92	10.50	10.00	98.94
		CH 122	5610	10.22	11.00	10.00	
		CH 138	5690	9.91	10.50	10.00	

	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	10.51	11.00	11.00	99.12
		CH 120	5600	10.59	11.00	11.00	
		CH 144	5720	10.05	10.50	11.00	
	802.11n-HT20 MCS0	CH 100	5500	10.48	11.00	11.00	98.88
		CH 120	5600	**10.66**	11.00	11.00	
		CH 144	5720	10.01	10.50	11.00	
	802.11n-HT40 MCS0	CH 102	5510	10.13	10.50	10.00	98.88
		CH 126	5630	10.25	11.00	11.00	
		CH 142	5710	10.08	10.50	11.00	
	802.11ac-VHT20 MCS0	CH 100	5500	9.25	10.50	9.00	99.16
		CH 120	5600	9.44	10.00	10.00	
		CH 144	5720	9.06	9.50	10.00	
	802.11ac-VHT40 MCS0	CH 102	5510	7.81	8.50	9.00	99.16
		CH 126	5630	7.56	8.00	9.00	
		CH 142	5710	7.28	7.50	9.00	
	802.11ac-VHT80 MCS0	CH 106	5530	7.77	8.50	9.00	98.88
		CH 122	5610	8.57	9.00	9.00	
		CH 138	5690	7.28	8.00	9.00	
	802.11ax-HEW20 MCS0（RU242）	CH 100	5500	9.20	9.50	10.00	98.94
		CH 120	5600	8.55	9.00	10.00	
		CH 144	5720	8.61	9.00	9.00	
	802.11ax-HEW20 MCS0（RU26）	CH 100	5500	6.41	7.00	10.00	98.94
		CH 120	5600	6.12	6.50	10.00	
		CH 144	5720	6.04	6.50	9.00	
	802.11ax-HEW40 MCS0	CH 102	5510	7.65	8.00	9.00	99.09
		CH 126	5630	7.39	8.00	9.00	
		CH 142	5710	7.08	7.50	9.00	
	802.11ax-HEW80 MCS0	CH 106	5530	7.74	8.50	9.00	98.94
		CH 122	5610	8.48	9.00	9.00	
		CH 138	5690	7.24	8.00	9.00	

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
5.8GHz WLAN ANT 1	802.11a MCS0	CH 149	5745	11.56	12.00	12.00	99.12
		CH 157	5785	11.58	12.00	12.00	
		CH 165	5825	11.56	12.00	12.00	
	802.11n-HT20 MCS0	CH 149	5745	11.59	12.00	12.00	98.88
		CH 157	5785	11.59	12.00	12.00	
		CH 165	5825	11.59	12.00	12.00	
	802.11n-HT40 MCS0	CH 151	5755	**12.06**	12.50	12.00	99.02
		CH 159	5795	12.03	12.50	12.00	
	802.11ac-VHT20 MCS0	CH 149	5745	10.49	11.00	11.00	99.16
		CH 157	5785	10.54	11.00	11.00	
		CH 165	5825	10.62	11.00	11.00	
	802.11ac-VHT40 MCS0	CH 151	5755	9.84	10.50	10.00	99.16
		CH 159	5795	9.62	10.00	10.00	
	802.11ac-VHT80 MCS0	CH 155	5775	10.20	10.50	10.00	98.88
	802.11ax-HEW20 MCS0（RU242）	CH 149	5745	10.40	11.00	11.00	98.94
		CH 157	5785	10.42	11.00	11.00	
		CH 165	5825	10.48	11.00	11.00	
	802.11ax-HEW20 MCS0（RU26）	CH 149	5745	8.58	9.00	11.00	98.94
		CH 157	5785	8.66	9.00	11.00	
		CH 165	5825	8.73	9.50	11.00	
	802.11ax-HEW40 MCS0	CH 151	5755	9.75	10.50	10.00	99.09
		CH 159	5795	9.63	10.00	10.00	
	802.11ax-HEW80 MCS0	CH 155	5775	10.25	11.00	10.00	98.94