



REPORT No.: SZ21100183S01

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
	128	189	251		128	189	251		
TX Channel	824.2	836.4	848.8		824.2	836.4	848.8		
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8		
GSM 1 Tx slot	31.84	32.13	32.07	33.00	22.84	23.13	23.07	24.00	0.32
GPRS 1 Tx slot	31.81	32.07	32.01	33.00	22.81	23.07	23.01	24.00	
GPRS 2 Tx slots	30.68	30.92	30.71	31.50	24.68	24.92	24.71	25.50	0.24
GPRS 3 Tx slots	28.70	28.78	28.62	29.50	24.44	24.52	24.36	25.24	0.16
GPRS 4 Tx slots	26.62	26.60	26.50	27.50	23.62	23.60	23.50	24.50	0.12
EDGE 1 Tx slot	21.88	21.98	21.93	22.50	12.88	12.98	12.93	13.50	0.10
EDGE 2 Tx slots	21.14	21.26	21.23	22.00	15.14	15.26	15.23	16.00	0.12
EDGE 3 Tx slots	20.56	20.62	20.53	21.00	16.30	16.36	16.27	16.74	0.09
EDGE 4 Tx slots	20.08	20.05	20.10	20.50	17.08	17.05	17.10	17.50	0.05

GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)	Ch Delta > 0.5
	512	661	810		512	661	810		
TX Channel	1850.2	1880	1909.8		1850.2	1880	1909.8		
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8		
GSM 1 Tx slot	29.40	29.31	29.33	30.00	20.40	20.31	20.33	21.00	0.16
GPRS 1 Tx slot	29.35	29.24	29.27	30.00	20.35	20.24	20.27	21.00	
GPRS 2 Tx slots	28.14	28.26	28.27	29.00	22.14	22.26	22.27	23.00	0.13
GPRS 3 Tx slots	25.96	26.00	25.97	27.00	21.70	21.74	21.71	22.74	0.04
GPRS 4 Tx slots	24.13	23.95	23.91	25.00	21.13	20.95	20.91	22.00	0.22
EDGE 1 Tx slot	23.02	23.07	23.11	23.50	14.02	14.07	14.11	14.50	0.09
EDGE 2 Tx slots	22.25	22.21	22.30	23.00	16.25	16.21	16.30	17.00	0.09
EDGE 3 Tx slots	21.55	21.58	21.62	22.00	17.29	17.32	17.36	17.74	0.07
EDGE 4 Tx slots	19.37	19.36	19.42	20.00	16.37	16.36	16.42	17.00	0.06

Band	WCDMA Band II			Tune-up Limit (dBm)	WCDMA Band IV			Tune-up Limit (dBm)	WCDMA Band V			Tune-up Limit (dBm)	
	9262	9400	9538		1312	1413	1513		4132	4182	4233		
TX Channel	9262	9400	9538		1312	1413	1513		4132	4182	4233		
Rx Channel	9662	9800	9938		1537	1638	1738		4357	4407	4456		
Frequency (MHz)	1852.4	1880	1907.6		1712.4	1732.6	1752.6		626.4	636.4	646.6		
3GPP Rel 99	RMC 12.2Kbps	22.86	22.91	22.83	23.50	22.95	23.06	22.89	23.50	22.82	22.93	22.89	23.50
3GPP Rel 6	HSDPA Subtest-1	21.64	21.62	21.77	22.50	21.68	21.79	21.69	22.50	22.26	22.17	22.16	23.00
3GPP Rel 6	HSDPA Subtest-2	21.68	21.80	21.84	22.50	21.77	21.89	21.79	22.50	22.30	22.23	22.31	23.00
3GPP Rel 6	HSDPA Subtest-3	21.36	21.38	21.41	22.00	21.15	21.32	21.24	22.00	21.78	21.68	21.63	22.50
3GPP Rel 6	HSDPA Subtest-4	21.35	21.29	21.27	22.00	21.19	21.33	21.23	22.00	21.73	21.72	21.59	22.50
3GPP Rel 8	DC-HSDPA Subtest-1	21.51	21.64	21.69	22.00	21.68	21.91	21.79	22.50	22.29	22.22	22.27	23.00
3GPP Rel 8	DC-HSDPA Subtest-2	21.58	21.63	21.72	22.00	21.71	21.89	21.69	22.50	22.30	22.21	22.20	23.00
3GPP Rel 8	DC-HSDPA Subtest-3	20.96	21.15	21.29	22.00	21.15	21.39	21.20	22.00	21.81	21.76	21.71	22.50
3GPP Rel 8	DC-HSDPA Subtest-4	20.87	21.14	21.21	22.00	21.14	21.43	21.27	22.00	21.81	21.76	21.74	22.50
3GPP Rel 6	HSUPA Subtest-1	21.61	21.65	21.73	22.50	21.71	21.84	21.71	22.50	22.36	22.20	22.39	23.00
3GPP Rel 6	HSUPA Subtest-2	21.06	21.15	21.22	22.00	21.19	21.34	21.15	22.00	22.31	22.21	22.43	23.00
3GPP Rel 6	HSUPA Subtest-3	21.68	21.67	21.73	22.50	21.67	21.82	21.65	22.50	22.27	22.36	22.33	22.00
3GPP Rel 6	HSUPA Subtest-4	21.65	21.88	21.75	20.50	21.68	21.85	21.66	22.50	22.35	22.40	22.42	21.00
3GPP Rel 6	HSUPA Subtest-5	21.64	21.66	21.74	22.50	21.71	21.84	21.72	22.50	22.30	22.31	22.24	23.00
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	21.37	21.43	21.48	22.00	21.16	21.38	21.20	22.00	22.33	22.31	22.30	23.00
Attenuator		Cable Loss				Cable Loss				Cable Loss			
Mode		Max.	22.91			Max.	23.06			Max.	22.93		

Band	CDMA2000 BC0			Tune-up Limit (dBm)	CDMA2000 BC1			Tune-up Limit (dBm)	BC0	BC1
	1013	84	777		25	600	1175			
TX Channel	824.7	836.52	848.31		1851.25	1880	1908.75			
Frequency (MHz)	824.7	836.52	848.31		1851.25	1880	1908.75			
RC1 SO55	23.48	23.57	23.52	24.50	23.38	23.31	23.34	24.50	0.32	0.29
RC3 SO55	23.58	23.65	23.62	24.50	23.21	23.42	23.23	24.50		
RC3 SO32 (F+SCH)	23.54	23.58	23.64	24.50	23.37	23.33	23.32	24.50		
RC3 SO32 (+SCH)	23.41	23.51	23.55	24.50	23.42	23.41	23.50	24.50		
Attenuator		Cable Loss	0.6			Cable Loss	0.8			
Mode		Max.	23.65			Max.	23.50			

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	23.5
Frequency (MHz)				18600	18800	19000	
20	QPSK	1	0	22.75	23.01	22.96	23.5
20	QPSK	1	49	22.73	22.85	22.92	
20	QPSK	1	99	22.72	22.68	22.73	
20	QPSK	50	0	21.84	22.01	21.88	22.5
20	QPSK	50	24	21.76	21.83	21.8	
20	QPSK	50	50	21.8	21.74	21.89	
20	QPSK	100	0	21.77	21.89	21.81	22.5
20	16QAM	1	0	22.25	22.32	22.29	
20	16QAM	1	49	22.12	22.02	22.18	
20	16QAM	1	99	22.01	22.06	22.21	21.5
20	16QAM	50	0	20.73	20.68	20.77	
20	16QAM	50	24	20.75	20.84	20.9	
20	16QAM	50	50	20.75	20.81	20.87	22.5
20	16QAM	100	0	20.78	20.86	20.8	
20	64QAM	1	0	22.12	22.32	22.12	
20	64QAM	1	49	22.01	22.12	22.29	21.5
20	64QAM	1	99	22.03	21.94	22.04	
20	64QAM	50	0	20.92	21.02	21.06	
20	64QAM	50	24	21.03	21.05	21.05	22.5
20	64QAM	50	50	20.96	21.08	21.17	
20	64QAM	100	0	21.03	21.05	21.13	
Channel				18675	18900	19125	23.5
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	22.58	22.98	22.65	23.5
15	QPSK	1	37	22.63	22.8	22.75	
15	QPSK	1	74	22.58	22.66	22.7	
15	QPSK	36	0	21.61	21.96	21.74	22.5
15	QPSK	36	20	21.7	21.83	21.72	
15	QPSK	36	39	21.78	21.75	21.83	
15	QPSK	75	0	21.78	21.84	21.81	22.5
15	16QAM	1	0	22.17	22.24	22.14	
15	16QAM	1	37	22.04	21.94	22.1	
15	16QAM	1	74	21.93	21.98	22.13	21.5
15	16QAM	36	0	20.75	20.69	20.81	
15	16QAM	36	20	20.74	20.84	20.82	
15	16QAM	36	39	20.73	20.72	20.87	22.5
15	16QAM	75	0	20.66	20.74	20.81	
15	64QAM	1	0	22.16	22.03	22	
15	64QAM	1	37	22.03	22.01	22.13	21.5
15	64QAM	1	74	21.9	22.1	21.95	
15	64QAM	36	0	20.74	20.74	20.76	
15	64QAM	36	20	20.87	20.8	20.78	22.5
15	64QAM	36	39	20.7	20.76	20.74	
15	64QAM	75	0	20.8	20.78	20.8	
Channel				18650	18900	19150	23.5
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	22.73	22.96	22.92	23.5
10	QPSK	1	25	22.65	22.78	22.95	
10	QPSK	1	49	22.69	22.69	22.74	
10	QPSK	25	0	21.79	21.9	21.86	22.5
10	QPSK	25	12	21.87	21.83	21.88	
10	QPSK	25	25	21.85	21.91	21.91	
10	QPSK	50	0	21.87	21.89	21.83	22.5
10	16QAM	1	0	22.05	22.38	22.21	
10	16QAM	1	25	22.35	22.22	22.21	
10	16QAM	1	49	22.15	22.4	22.39	21.5
10	16QAM	25	0	20.84	20.88	20.97	
10	16QAM	25	12	20.86	20.93	21.12	
10	16QAM	25	25	20.9	20.81	21	22.5
10	16QAM	50	0	20.83	20.9	20.95	
10	64QAM	1	0	21.85	21.89	22.07	
10	64QAM	1	25	21.96	21.97	22.12	21.5
10	64QAM	1	49	21.84	21.8	21.84	
10	64QAM	25	0	20.86	20.9	20.95	
10	64QAM	25	12	21.01	20.94	21.07	22.5
10	64QAM	25	25	20.89	20.87	20.91	
10	64QAM	50	0	20.9	20.95	21.04	
Channel				18625	18900	19175	23.5
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	22.63	22.89	22.84	23.5
5	QPSK	1	12	22.61	22.73	22.80	
5	QPSK	1	24	22.60	22.56	22.61	
5	QPSK	12	0	21.72	21.89	21.76	22.5
5	QPSK	12	7	21.64	21.81	21.78	
5	QPSK	12	13	21.68	21.79	21.77	
5	QPSK	25	0	21.65	21.77	21.69	22.5
5	16QAM	1	0	22.13	22.20	22.17	
5	16QAM	1	12	22.00	21.90	22.06	
5	16QAM	1	24	21.89	21.94	22.09	21.5
5	16QAM	12	0	20.81	20.76	20.85	
5	16QAM	12	7	20.83	20.92	20.98	
5	16QAM	12	13	20.83	20.89	20.95	22.5
5	16QAM	25	0	20.86	20.94	20.88	
5	64QAM	1	0	22.00	22.20	22.00	
5	64QAM	1	12	21.89	22.00	22.17	21.5
5	64QAM	1	24	21.91	21.82	21.92	
5	64QAM	12	0	20.80	20.90	20.94	
5	64QAM	12	7	20.91	20.93	20.93	22.5
5	64QAM	12	13	20.84	20.96	21.05	
5	64QAM	25	0	20.91	20.93	21.01	
Channel				18615	18900	19165	23.5
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	22.66	22.92	22.87	23.5
3	QPSK	1	8	22.64	22.76	22.83	
3	QPSK	1	14	22.63	22.59	22.64	
3	QPSK	8	0	21.75	21.92	21.79	22.5
3	QPSK	8	4	21.67	21.74	21.71	
3	QPSK	8	7	21.71	21.65	21.80	
3	QPSK	15	0	21.68	21.70	21.72	

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	23.5
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	22.90	23.04	22.94	23.5
20	QPSK	1	49	22.80	22.90	22.88	
20	QPSK	1	99	22.86	22.82	22.84	
20	QPSK	50	0	21.72	21.96	21.89	22.5
20	QPSK	50	24	21.85	21.88	21.83	
20	QPSK	50	50	21.80	21.69	21.86	
20	QPSK	100	0	21.87	21.94	21.83	22.5
20	16QAM	1	0	22.18	22.29	22.08	
20	16QAM	1	49	22.17	22.18	22.05	
20	16QAM	1	99	22.03	22.07	22.03	21.5
20	16QAM	50	0	20.70	20.82	20.80	
20	16QAM	50	24	20.91	20.87	20.92	
20	16QAM	50	50	20.80	20.76	20.83	22.5
20	16QAM	100	0	20.91	20.74	20.75	
20	64QAM	1	0	22.09	22.24	22.03	
20	64QAM	1	49	22.03	22.09	21.95	21.5
20	64QAM	1	99	21.89	21.95	21.93	
20	64QAM	50	0	20.79	20.85	20.83	
20	64QAM	50	24	20.90	20.81	20.76	22.5
20	64QAM	50	50	20.70	20.76	20.74	
20	64QAM	100	0	20.76	20.78	20.70	
Channel				20025	20175	20325	23.5
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	22.67	22.93	22.85	23.5
15	QPSK	1	37	22.74	22.82	22.74	
15	QPSK	1	74	22.53	22.67	22.54	
15	QPSK	36	0	21.72	21.88	21.8	22.5
15	QPSK	36	20	21.86	21.84	22.01	
15	QPSK	36	39	21.76	21.67	21.71	
15	QPSK	75	0	21.83	21.91	21.76	22.5
15	16QAM	1	0	21.97	21.87	22.34	
15	16QAM	1	37	21.99	21.88	22.22	
15	16QAM	1	74	21.87	21.92	22.11	21.5
15	16QAM	36	0	20.76	20.8	20.81	
15	16QAM	36	20	20.82	20.8	20.81	
15	16QAM	36	39	20.89	20.83	20.63	22.5
15	16QAM	75	0	20.77	20.76	20.83	
15	64QAM	1	0	22.06	22.29	22	
15	64QAM	1	37	22	22.07	22.04	21.5
15	64QAM	1	74	22.1	21.98	21.99	
15	64QAM	36	0	20.91	20.79	20.74	
15	64QAM	36	20	20.88	20.91	20.78	22.5
15	64QAM	36	39	20.87	20.68	20.72	
15	64QAM	75	0	20.88	20.69	20.78	
Channel				20000	20175	20350	23.5
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	22.83	22.96	22.85	23.5
10	QPSK	1	25	22.87	22.90	22.81	
10	QPSK	1	49	22.83	22.84	22.77	
10	QPSK	25	0	21.97	21.89	21.98	22.5
10	QPSK	25	12	21.96	22.02	21.91	
10	QPSK	25	25	21.85	21.97	21.89	
10	QPSK	50	0	21.89	21.86	21.91	22.5
10	16QAM	1	0	22.03	22.33	22.12	
10	16QAM	1	25	21.94	22.11	21.88	
10	16QAM	1	49	21.98	22.33	22.12	21.5
10	16QAM	25	0	21.03	20.91	20.94	
10	16QAM	25	12	20.98	21.00	20.91	
10	16QAM	25	25				

3	16QAM	1	0	22.16	22.23	22.20	22.5
3	16QAM	1	8	22.03	21.93	22.09	
3	16QAM	1	14	21.92	21.97	22.12	
3	16QAM	8	0	20.74	20.69	20.78	21.5
3	16QAM	8	4	20.78	20.85	20.91	
3	16QAM	8	7	20.76	20.82	20.88	
3	16QAM	15	0	20.79	20.87	20.81	22.5
3	64QAM	1	0	22.03	22.23	22.03	
3	64QAM	1	8	21.92	22.03	22.20	
3	64QAM	1	14	21.94	21.85	21.95	21.5
3	64QAM	8	0	20.83	20.93	20.97	
3	64QAM	8	4	20.94	20.96	20.96	
3	64QAM	8	7	20.87	20.99	21.08	22.5
3	64QAM	15	0	20.94	20.96	21.04	
Channel				1807	1890	19193	
Frequency (MHz)				1850.7	1880	1909.3	(dBm)
1.4	QPSK	1	0	22.63	22.89	22.84	23.5
1.4	QPSK	1	3	22.61	22.73	22.80	
1.4	QPSK	1	5	22.60	22.56	22.61	
1.4	QPSK	3	0	21.72	21.89	21.76	
1.4	QPSK	3	1	21.64	21.71	21.68	
1.4	QPSK	3	3	21.68	21.62	21.77	
1.4	QPSK	6	0	21.65	21.67	21.69	22.5
1.4	16QAM	1	0	22.13	22.20	22.17	22.5
1.4	16QAM	1	3	22.00	21.90	22.06	
1.4	16QAM	1	5	21.89	21.94	22.09	
1.4	16QAM	3	0	20.71	20.66	20.75	
1.4	16QAM	3	1	20.73	20.82	20.88	
1.4	16QAM	3	3	20.73	20.79	20.85	
1.4	16QAM	6	0	20.66	20.74	20.68	21.5
1.4	64QAM	1	0	22.00	22.20	22.00	22.5
1.4	64QAM	1	3	21.89	22.00	22.17	
1.4	64QAM	1	5	21.91	21.82	21.92	
1.4	64QAM	3	0	20.80	20.90	20.94	
1.4	64QAM	3	1	20.91	20.93	20.93	
1.4	64QAM	3	3	20.84	20.96	21.05	
1.4	64QAM	6	0	20.91	20.93	21.01	21.5

3	16QAM	1	0	22.17	22.20	21.97	22.5
3	16QAM	1	8	22.13	22.18	21.93	
3	16QAM	1	14	22.23	21.91	22.08	
3	16QAM	8	0	20.92	21.06	20.92	21.5
3	16QAM	8	4	20.90	21.09	20.90	
3	16QAM	8	7	20.93	20.98	20.87	
3	16QAM	15	0	20.98	20.93	20.86	22.5
3	16QAM	1	0	21.89	21.91	21.98	
3	16QAM	1	8	21.85	21.95	22.30	
3	16QAM	1	14	22.00	21.84	21.88	21.5
3	16QAM	8	0	20.90	20.97	21.08	
3	16QAM	8	4	20.92	21.07	20.92	
3	16QAM	8	7	20.98	20.91	20.87	22.5
3	16QAM	15	0	21.01	20.92	20.84	
Channel				19957	20175	20393	
Frequency (MHz)				1710.7	1732.5	1754.3	(dBm)
1.4	QPSK	1	0	22.80	22.97	22.62	23.5
1.4	QPSK	1	3	22.85	22.85	22.71	
1.4	QPSK	1	5	22.75	22.73	22.64	
1.4	QPSK	3	0	22.78	22.90	22.60	
1.4	QPSK	3	1	22.83	22.86	22.88	
1.4	QPSK	3	3	22.72	22.93	22.74	
1.4	QPSK	6	0	21.84	21.88	21.75	22.5
1.4	16QAM	1	0	22.26	22.38	22.09	22.5
1.4	16QAM	1	3	22.21	22.37	21.99	
1.4	16QAM	1	5	21.93	22.40	22.21	
1.4	16QAM	3	0	22.01	21.86	21.95	
1.4	16QAM	3	1	21.92	22.10	21.86	
1.4	16QAM	3	3	22.14	21.94	21.96	
1.4	16QAM	6	0	20.93	21.08	20.71	21.5
1.4	16QAM	1	0	22.17	21.99	22.29	22.5
1.4	16QAM	1	3	22.16	21.95	22.30	
1.4	16QAM	1	5	21.90	22.00	21.99	
1.4	16QAM	3	0	21.81	21.83	21.81	
1.4	16QAM	3	1	21.87	22.14	21.80	
1.4	16QAM	3	3	22.11	21.92	21.90	
1.4	16QAM	6	0	20.91	20.95	20.68	21.5

Band 5 (Cellular 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	23.5
Frequency (MHz)				829	836.5	844	
10	QPSK	1	0	22.94	23.18	23.12	23.5
10	QPSK	1	25	22.82	23.12	23.00	
10	QPSK	1	49	22.90	22.93	22.80	
10	QPSK	25	0	21.92	22.11	21.99	22.5
10	QPSK	25	12	22.05	21.96	21.93	
10	QPSK	25	25	22.07	22.01	22.08	
10	QPSK	50	0	21.97	22.07	21.90	23
10	16QAM	1	0	22.52	22.53	22.42	
10	16QAM	1	25	22.52	22.24	22.21	
10	16QAM	1	49	22.24	22.30	22.35	22
10	16QAM	25	0	21.05	20.98	20.95	
10	16QAM	25	12	21.13	21.03	21.07	
10	16QAM	25	25	21.02	21.02	21.02	23
10	16QAM	50	0	21.14	21.01	21.01	
10	64QAM	1	0	22.25	22.35	22.27	
10	64QAM	1	25	22.17	21.97	22.18	22
10	64QAM	1	49	22.06	22.29	22.14	
10	64QAM	25	0	20.94	21.10	20.93	
10	64QAM	25	12	21.12	21.07	21.05	23
10	64QAM	25	25	21.06	20.99	21.09	
10	64QAM	50	0	21.09	21.10	20.95	
Channel				20425	20525	20625	23.5
Frequency (MHz)				826.5	836.5	846.5	
5	QPSK	1	0	22.99	23.05	22.97	23.5
5	QPSK	1	12	22.92	23.01	23.02	
5	QPSK	1	24	22.93	22.96	22.93	
5	QPSK	12	0	21.92	22.00	22.02	22.5
5	QPSK	12	7	21.96	21.96	22.03	
5	QPSK	12	13	22.02	22.00	22.05	
5	QPSK	25	0	22.02	21.93	22.06	23
5	16QAM	1	0	22.56	22.07	22.48	
5	16QAM	1	12	22.33	21.94	22.52	
5	16QAM	1	24	22.30	22.42	21.72	22
5	16QAM	12	0	20.94	20.85	21.03	
5	16QAM	12	7	21.16	20.98	21.14	
5	16QAM	12	13	21.07	21.08	21.05	23
5	16QAM	25	0	20.96	21.01	20.99	
5	64QAM	1	0	22.00	22.31	22.44	
5	64QAM	1	12	21.67	22.20	21.93	22
5	64QAM	1	24	22.26	22.38	22.11	
5	64QAM	12	0	21.07	21.11	20.99	
5	64QAM	12	7	21.10	21.01	21.09	23
5	64QAM	12	13	21.03	20.95	20.95	
5	64QAM	25	0	21.06	20.97	20.88	
Channel				20415	20525	20635	23.5
Frequency (MHz)				825.5	836.5	847.5	
3	QPSK	1	0	22.95	23.03	22.92	23.5
3	QPSK	1	8	22.83	23.00	22.96	
3	QPSK	1	14	22.87	22.99	22.87	
3	QPSK	8	0	21.99	21.94	22.01	22.5
3	QPSK	8	4	22.02	22.08	22.05	
3	QPSK	8	7	21.98	22.03	22.02	
3	QPSK	15	0	21.98	21.93	22.08	23
3	16QAM	1	0	22.25	22.80	22.52	
3	16QAM	1	8	22.33	22.11	22.25	
3	16QAM	1	14	21.88	22.12	22.13	22
3	16QAM	8	0	21.16	21.10	21.06	
3	16QAM	8	4	21.18	21.24	21.21	
3	16QAM	8	7	21.18	21.12	21.11	23
3	16QAM	15	0	20.92	21.08	21.11	
3	64QAM	1	0	21.85	21.67	22.13	
3	64QAM	1	8	22.12	21.90	22.18	22
3	64QAM	1	14	22.03	22.19	22.14	
3	64QAM	8	0	21.07	21.13	21.00	
3	64QAM	8	4	21.04	21.04	21.07	23
3	64QAM	8	7	21.09	20.97	20.92	
3	64QAM	15	0	21.15	20.91	21.02	
Channel				20407	20525	20643	23.5
Frequency (MHz)				824.7	836.5	848.3	
1.4	QPSK	1	0	23.01	23.04	23	23.5
1.4	QPSK	1	3	22.86	22.89	23.01	
1.4	QPSK	1	5	22.87	22.92	22.96	
1.4	QPSK	3	0	22.96	22.90	22.97	22.5
1.4	QPSK	3	1	22.94	23.01	22.96	
1.4	QPSK	3	3	22.94	22.93	22.95	
1.4	QPSK	6	0	21.91	21.93	21.86	23
1.4	16QAM	1	0	22.18	22.47	22.42	
1.4	16QAM	1	3	22.69	22.22	22.12	
1.4	16QAM	1	5	22.33	22.50	22.09	22
1.4	16QAM	3	0	22.22	22.13	22.06	
1.4	16QAM	3	1	22.13	21.96	22.08	
1.4	16QAM	3	3	22.14	22.19	21.94	23
1.4	16QAM	6	0	21.05	21.10	21.09	
1.4	64QAM	1	0	22.18	22.18	22.18	
1.4	64QAM	1	3	22.30	22.08	21.93	22
1.4	64QAM	1	5	22.04	22.02	21.86	
1.4	64QAM	3	0	21.98	21.90	22.18	
1.4	64QAM	3	1	21.97	22.15	22.06	21
1.4	64QAM	3	3	21.96	22.01	21.90	
1.4	64QAM	6	0	21.02	20.99	20.88	

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	23
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	22.49	22.59	22.44	23
20	QPSK	1	49	22.44	22.51	22.41	
20	QPSK	1	99	22.38	22.39	22.41	
20	QPSK	50	0	21.24	21.46	21.19	22
20	QPSK	50	24	21.4	21.34	21.24	
20	QPSK	50	50	21.33	21.39	21.32	
20	QPSK	100	0	21.36	21.42	21.31	22
20	16QAM	1	0	21.57	21.67	21.8	
20	16QAM	1	49	21.54	21.65	21.66	
20	16QAM	1	99	21.47	21.73	21.56	21
20	16QAM	50	0	20.35	20.28	20.35	
20	16QAM	50	24	20.36	20.37	20.18	
20	16QAM	50	50	20.43	20.36	20.37	22
20	16QAM	100	0	20.31	20.33	20.31	
20	64QAM	1	0	21.27	21.37	21.33	
20	64QAM	1	49	21.34	21.5	21.27	21
20	64QAM	1	99	21.59	21.37	21.58	
20	64QAM	50	0	20.29	20.22	20.24	
20	64QAM	50	24	20.36	20.21	20.28	22
20	64QAM	50	50	20.44	20.39	20.42	
20	64QAM	100	0	20.29	20.35	20.32	
Channel				20825	21100	21375	23
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	22.09	22.22	22.13	23
15	QPSK	1	37	22.04	22.02	22.03	
15	QPSK	1	74	22.01	22.11	22.07	
15	QPSK	36	0	21.22	21.33	21.13	22
15	QPSK	36	20	21.11	21.14	21.17	
15	QPSK	36	39	21.15	21.21	21.14	
15	QPSK	75	0	21.17	21.38	21.14	22
15	16QAM	1	0	21.30	21.22	21.11	
15	16QAM	1	37	21.22	21.34	21.07	
15	16QAM	1	74	21.47	21.17	21.25	21
15	16QAM	36	0	20.06	20.22	20.02	
15	16QAM	36	20	20.25	20.13	20.19	
15	16QAM	36	39	20.16	20.22	20.23	22
15	16QAM	75	0	20.23	20.17	20.07	
15	64QAM	1	0	21.25	21.09	21.38	
15	64QAM	1	37	21.50	21.02	21.25	21
15	64QAM	1	74	21.33	21.20	21.37	
15	64QAM	36	0	19.99	20.04	20.23	
15	64QAM	36	20	20.26	20.17	20.22	23
15	64QAM	36	39	20.29	20.22	20.18	
15	64QAM	75	0	20.15	20.15	20.20	
Channel				20800	21100	21400	23
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	22.25	22.41	22.29	23
10	QPSK	1	25	22.27	22.29	22.30	
10	QPSK	1	49	22.35	22.38	22.37	
10	QPSK	25	0	21.22	21.35	21.31	22
10	QPSK	25	12	21.43	21.30	21.39	
10	QPSK	25	25	21.28	21.39	21.44	
10	QPSK	50	0	21.38	21.26	21.47	22
10	16QAM	1	0	21.73	21.73	21.57	
10	16QAM	1	25	21.74	21.95	21.85	
10	16QAM	1	49	21.88	21.84	21.89	21
10	16QAM	25	0	20.26	20.27	20.37	
10	16QAM	25	12	20.41	20.40	20.36	
10	16QAM	25	25	20.44	20.34	20.49	22
10	16QAM	50	0	20.38	20.33	20.43	
10	64QAM	1	0	21.55	21.63	21.56	
10	64QAM	1	25	21.62	21.59	21.46	21
10	64QAM	1	49	21.61	21.70	21.54	
10	64QAM	25	0	20.41	20.27	20.29	
10	64QAM	25	12	20.40	20.42	20.38	22
10	64QAM	25	25	20.44	20.41	20.41	
10	64QAM	50	0	20.33	20.40	20.38	
Channel				20775	21100	21425	23
Frequency (MHz)				2502.5</			

**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	22.97	23.18	23.11	23.5
10	QPSK	1	25	23.06	23.12	23.08	
10	QPSK	1	49	23.12	22.90	23.07	
10	QPSK	25	0	22.04	22.16	22.14	22.5
10	QPSK	25	12	22.10	22.16	22.13	
10	QPSK	25	25	22.15	22.11	22.12	
10	QPSK	50	0	22.13	22.14	22.08	23
10	16QAM	1	0	22.62	22.70	22.57	
10	16QAM	1	25	22.62	22.45	22.71	
10	16QAM	1	49	22.50	22.40	22.52	22
10	16QAM	25	0	21.24	21.33	21.27	
10	16QAM	25	12	21.23	21.13	21.14	
10	16QAM	25	25	21.23	21.29	21.20	22.5
10	16QAM	50	0	21.21	21.10	21.20	
10	64QAM	1	0	22.26	22.29	22.43	
10	64QAM	1	25	22.19	22.27	22.22	21.5
10	64QAM	1	49	22.40	22.57	22.20	
10	64QAM	25	0	21.17	21.17	21.13	
10	64QAM	25	12	21.11	21.17	21.18	22.5
10	64QAM	25	25	21.06	20.94	21.15	
10	64QAM	50	0	21.25	21.18	21.14	
Channel				23035	23095	23155	
Frequency (MHz)				701.5	707.5	713.5	
5	QPSK	1	0	22.93	23.05	23.03	23.5
5	QPSK	1	12	22.97	23.03	22.98	
5	QPSK	1	24	22.93	22.95	23.02	
5	QPSK	12	0	21.95	22.03	21.98	22.5
5	QPSK	12	7	22.05	21.93	22.08	
5	QPSK	12	13	22.02	22.03	22.06	
5	QPSK	25	0	21.98	21.99	22.03	23
5	16QAM	1	0	22.33	22.14	22.60	
5	16QAM	1	12	22.45	22.43	22.61	
5	16QAM	1	24	22.23	22.39	22.20	22
5	16QAM	12	0	21.15	21.14	21.11	
5	16QAM	12	7	21.08	20.96	21.21	
5	16QAM	12	13	21.11	21.12	21.09	22.5
5	16QAM	25	0	21.30	21.00	21.13	
5	64QAM	1	0	22.01	21.97	22.24	
5	64QAM	1	12	22.17	22.01	22.23	21.5
5	64QAM	1	24	22.17	21.93	22.22	
5	64QAM	12	0	21.17	21.02	21.21	
5	64QAM	12	7	21.06	21.09	20.99	22.5
5	64QAM	12	13	20.99	20.98	20.93	
5	64QAM	25	0	21.03	20.99	21.02	
Channel				23025	23095	23165	
Frequency (MHz)				700.5	707.5	714.5	
3	QPSK	1	0	22.77	23.01	22.92	23.5
3	QPSK	1	8	22.90	22.94	22.88	
3	QPSK	1	14	22.68	22.86	22.80	
3	QPSK	8	0	21.91	21.95	21.97	22.5
3	QPSK	8	4	21.92	21.96	22.03	
3	QPSK	8	7	21.79	21.96	21.93	
3	QPSK	15	0	21.84	21.91	21.94	23
3	16QAM	1	0	21.96	22.27	22.24	
3	16QAM	1	8	22.20	22.24	22.38	
3	16QAM	1	14	22.41	22.12	22.28	22
3	16QAM	8	0	21.06	21.09	20.95	
3	16QAM	8	4	20.98	21.16	21.20	
3	16QAM	8	7	20.98	20.95	21.14	22.5
3	16QAM	15	0	21.00	20.93	20.98	
3	64QAM	1	0	22.00	22.17	22.05	
3	64QAM	1	8	21.86	21.87	22.02	21.5
3	64QAM	1	14	21.81	22.13	21.85	
3	64QAM	8	0	21.08	20.99	21.03	
3	64QAM	8	4	20.98	20.99	21.08	22.5
3	64QAM	8	7	20.96	21.09	20.95	
3	64QAM	15	0	20.90	20.96	20.93	
Channel				23017	23095	23173	
Frequency (MHz)				699.7	707.5	715.3	
1.4	QPSK	1	0	22.89	23.10	23.03	23.5
1.4	QPSK	1	3	22.96	23.04	23.00	
1.4	QPSK	1	5	23.04	22.82	22.99	
1.4	QPSK	3	0	21.96	22.08	22.06	22.5
1.4	QPSK	3	1	22.02	22.08	22.05	
1.4	QPSK	3	3	22.07	22.03	22.04	
1.4	QPSK	6	0	22.05	22.06	22.00	23
1.4	16QAM	1	0	22.54	22.62	22.49	
1.4	16QAM	1	3	22.54	22.37	22.63	
1.4	16QAM	1	5	22.42	22.32	22.44	22
1.4	16QAM	3	0	21.16	21.25	21.19	
1.4	16QAM	3	1	21.15	21.05	21.06	
1.4	16QAM	3	3	21.15	21.21	21.12	22.5
1.4	16QAM	6	0	21.13	21.02	21.12	
1.4	64QAM	1	0	22.18	22.21	22.35	
1.4	64QAM	1	3	22.11	22.19	22.14	21.5
1.4	64QAM	1	5	22.32	22.49	22.12	
1.4	64QAM	3	0	21.09	21.09	21.05	
1.4	64QAM	3	1	21.03	21.09	21.10	22.5
1.4	64QAM	3	3	20.98	20.86	21.07	
1.4	64QAM	6	0	21.17	21.10	21.06	

**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	22.99	23.07	22.98	23.5
10	QPSK	1	25	22.94	22.95	22.86	
10	QPSK	1	49	22.88	22.99	22.95	
10	QPSK	25	0	22.23	22.37	22.14	22.5
10	QPSK	25	12	22.12	22.30	22.05	
10	QPSK	25	25	21.99	22.22	21.98	
10	QPSK	50	0	22.01	22.08	22.04	23
10	16QAM	1	0	22.40	22.44	22.39	
10	16QAM	1	25	22.37	22.38	22.29	
10	16QAM	1	49	22.32	22.37	22.34	22
10	16QAM	25	0	21.25	21.42	21.39	
10	16QAM	25	12	21.22	21.33	21.30	
10	16QAM	25	25	21.13	21.25	21.18	22.5
10	16QAM	50	0	21.15	21.18	21.13	
10	64QAM	1	0	22.23	22.25	22.18	
10	64QAM	1	25	22.19	22.18	22.07	21.5
10	64QAM	1	49	22.20	22.23	22.06	
10	64QAM	25	0	21.24	21.28	21.23	
10	64QAM	25	12	21.13	21.16	21.15	22.5
10	64QAM	25	25	21.09	21.04	21.06	
10	64QAM	50	0	21.03	20.99	20.98	
Channel				23755	23790	23825	
Frequency (MHz)				706.5	710	713.5	
5	QPSK	1	0	23.05	23.06	22.94	23.5
5	QPSK	1	12	22.94	22.98	22.91	
5	QPSK	1	24	22.92	22.92	22.80	
5	QPSK	12	0	21.87	22.00	21.97	22.5
5	QPSK	12	7	22.00	21.83	21.94	
5	QPSK	12	13	21.81	21.89	21.90	
5	QPSK	25	0	21.96	21.85	21.91	23
5	16QAM	1	0	22.32	22.36	22.38	
5	16QAM	1	12	22.17	22.36	22.42	
5	16QAM	1	24	22.16	22.41	22.31	22
5	16QAM	12	0	20.94	20.95	20.92	
5	16QAM	12	7	21.04	21.01	21.08	
5	16QAM	12	13	20.99	20.93	21.04	22.5
5	16QAM	25	0	20.98	20.89	20.93	
5	64QAM	1	0	21.98	22.31	22.04	
5	64QAM	1	12	22.22	21.95	22.06	21.5
5	64QAM	1	24	21.85	22.12	22.02	
5	64QAM	12	0	21.17	21.04	21.10	
5	64QAM	12	7	21.25	20.97	21.03	22.5
5	64QAM	12	13	20.83	20.93	20.98	
5	64QAM	25	0	20.93	20.86	20.96	

Band 18 (835MHz Band)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				23925			23.5
Frequency (MHz)				822.5			
15	QPSK	1	0	23.07			23.5
15	QPSK	1	37	22.91			
15	QPSK	1	74	22.87			
15	QPSK	36	0	21.93			22.5
15	QPSK	36	20	21.88			
15	QPSK	36	39	21.89			
15	QPSK	75	0	21.92			22.5
15	16QAM	1	0	22.35			
15	16QAM	1	37	22.13			
15	16QAM	1	74	22.06			21.5
15	16QAM	36	0	20.88			
15	16QAM	36	20	20.92			
15	16QAM	36	39	21.02			22.5
15	16QAM	75	0	20.81			
15	64QAM	1	0	22.39			
15	64QAM	1	25	22.21			21.5
15	64QAM	1	49	22.06			
15	64QAM	25	0	20.81			
15	64QAM	25	12	20.95			22.5
15	64QAM	25	25	20.96			
15	64QAM	50	0	20.93			
Channel				23900	23925	23950	23.5
Frequency (MHz)				820	822.5	825	
10	QPSK	1	0	22.97	23.05	22.99	23.5
10	QPSK	1	25	22.93	22.97	22.89	
10	QPSK	1	49	22.82	22.78	22.97	
10	QPSK	25	0	21.94	21.92	21.94	22.5
10	QPSK	25	12	22.01	21.96	21.99	
10	QPSK	25	25	22.03	21.95	22.06	
10	QPSK	50	0	22.01	21.91	21.97	22.5
10	16QAM	1	0	22.29	22.31	22.19	
10	16QAM	1	25	22.28	22.12	22.14	
10	16QAM	1	49	22.30	22.10	22.07	21.5
10	16QAM	25	0	21.05	21.11	21.00	
10	16QAM	25	12	21.13	20.99	20.87	
10	16QAM	25	25	20.99	21.06	21.08	22.5
10	16QAM	50	0	21.03	20.97	20.95	
10	64QAM	1	0	22.18	22.32	22.29	
10	64QAM	1	25	22.08	21.93	22.29	21.5
10	64QAM	1	49	21.88	22.25	22.22	
10	64QAM	25	0	20.96	20.96	20.88	
10	64QAM	25	12	21.08	20.98	20.88	22.5
10	64QAM	25	25	21.04	20.91	21.06	
10	64QAM	50	0	21.01	21.01	20.90	
Channel				23875	23925	23975	23.5
Frequency (MHz)				817.5	822.5	827.5	
5	QPSK	1	0	22.91	22.99	22.93	23.5
5	QPSK	1	12	22.87	22.91	22.83	
5	QPSK	1	24	22.76	22.72	22.91	
5	QPSK	12	0	21.88	21.86	21.88	22.5
5	QPSK	12	7	21.95	21.90	21.93	
5	QPSK	12	13	21.97	21.89	22.00	
5	QPSK	25	0	21.95	21.85	21.91	22.5
5	16QAM	1	0	22.23	22.25	22.13	
5	16QAM	1	12	22.22	22.06	22.08	
5	16QAM	1	24	22.24	22.04	22.01	21.5
5	16QAM	12	0	20.99	21.05	20.94	
5	16QAM	12	7	21.07	20.93	20.81	
5	16QAM	12	13	20.93	21.00	21.02	22.5
5	16QAM	25	0	20.97	20.91	20.89	
5	64QAM	1	0	22.12	22.26	22.23	
5	64QAM	1	12	22.02	21.87	22.23	21.5
5	64QAM	1	24	21.82	22.19	22.16	
5	64QAM	12	0	20.90	20.92	20.82	
5	64QAM	12	7	21.02	20.92	20.82	22.5
5	64QAM	12	13	20.98	20.85	21.00	
5	64QAM	25	0	20.95	20.95	20.84	

Band 19 (835MHz Band)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				24075			23.5
Frequency (MHz)				837.5			
15	QPSK	1	0	22.53			23.5
15	QPSK	1	37	22.45			
15	QPSK	1	74	22.44			
15	QPSK	36	0	21.68			22.5
15	QPSK	36	20	21.57			
15	QPSK	36	39	21.53			
15	QPSK	75	0	21.64			22.5
15	16QAM	1	0	21.92			
15	16QAM	1	37	21.83			
15	16QAM	1	74	21.75			21
15	16QAM	36	0	20.49			
15	16QAM	36	20	20.41			
15	16QAM	36	39	20.61			22
15	16QAM	75	0	20.36			
15	64QAM	1	0	21.85			
15	64QAM	1	25	21.64			21
15	64QAM	1	49	21.65			
15	64QAM	25	0	20.51			
15	64QAM	25	12	20.50			22
15	64QAM	25	25	20.54			
15	64QAM	50	0	20.40			
Channel				24050	24075	24100	23.5
Frequency (MHz)				835	837.5	840	
10	QPSK	1	0	22.44	22.50	22.37	23.5
10	QPSK	1	25	22.37	22.41	22.34	
10	QPSK	1	49	22.40	22.30	22.33	
10	QPSK	25	0	21.32	21.40	21.39	22.5
10	QPSK	25	12	21.49	21.49	21.49	
10	QPSK	25	25	21.52	21.50	21.48	
10	QPSK	50	0	21.45	21.49	21.44	22.5
10	16QAM	1	0	21.82	21.83	21.80	
10	16QAM	1	25	21.81	21.62	21.57	
10	16QAM	1	49	21.79	21.75	21.67	21
10	16QAM	25	0	20.40	20.46	20.34	
10	16QAM	25	12	20.49	20.37	20.41	
10	16QAM	25	25	20.60	20.55	20.58	22
10	16QAM	50	0	20.46	20.40	20.46	
10	64QAM	1	0	21.76	21.83	21.80	
10	64QAM	1	25	21.84	21.60	21.58	21
10	64QAM	1	49	21.77	21.56	21.55	
10	64QAM	25	0	20.32	20.50	20.49	
10	64QAM	25	12	20.41	20.45	20.42	22
10	64QAM	25	25	20.50	20.51	20.53	
10	64QAM	50	0	20.42	20.44	20.31	
Channel				24025	24075	24125	23.5
Frequency (MHz)				832.5	837.5	842.5	
5	QPSK	1	0	22.38	22.44	22.31	23.5
5	QPSK	1	12	22.31	22.35	22.28	
5	QPSK	1	24	22.34	22.24	22.27	
5	QPSK	12	0	21.26	21.34	21.33	22.5
5	QPSK	12	7	21.43	21.43	21.43	
5	QPSK	12	13	21.46	21.44	21.42	
5	QPSK	25	0	21.39	21.43	21.38	22.5
5	16QAM	1	0	21.76	21.77	21.74	
5	16QAM	1	12	21.75	21.56	21.51	
5	16QAM	1	24	21.73	21.69	21.61	21
5	16QAM	12	0	20.34	20.40	20.28	
5	16QAM	12	7	20.43	20.31	20.35	
5	16QAM	12	13	20.54	20.49	20.52	22
5	16QAM	25	0	20.40	20.34	20.40	
5	64QAM	1	0	21.70	21.77	21.74	
5	64QAM	1	12	21.78	21.54	21.52	21
5	64QAM	1	24	21.71	21.50	21.49	
5	64QAM	12	0	20.26	20.44	20.43	
5	64QAM	12	7	20.35	20.39	20.36	22
5	64QAM	12	13	20.44	20.45	20.47	
5	64QAM	25	0	20.36	20.38	20.25	

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	22.80	22.98	22.85	23.5
15	QPSK	1	37	22.79	22.97	22.72	
15	QPSK	1	74	22.76	22.78	22.67	
15	QPSK	36	0	21.44	21.59	21.46	22.5
15	QPSK	36	20	21.54	21.48	21.46	
15	QPSK	36	39	21.46	21.56	21.55	
15	QPSK	75	0	21.53	21.56	21.53	22.5
15	16QAM	1	0	21.61	21.92	21.65	
15	16QAM	1	37	21.81	21.80	21.64	
15	16QAM	1	74	21.79	21.89	21.66	21.5
15	16QAM	36	0	20.97	21.00	20.93	
15	16QAM	36	20	20.95	20.92	20.79	
15	16QAM	36	39	20.91	20.86	20.94	22.5
15	16QAM	75	0	20.97	20.84	20.97	
15	64QAM	1	0	21.90	21.94	21.91	
15	64QAM	1	37	21.81	21.88	21.76	21.5
15	64QAM	1	74	21.84	21.81	21.75	
15	64QAM	36	0	20.46	20.44	20.51	
15	64QAM	36	20	20.57	20.40	20.51	22.5
15	64QAM	36	39	20.50	20.51	20.60	
15	64QAM	75	0	20.55	20.41	20.58	
Channel				26740	26865	26990	
Frequency (MHz)				819	831.5	844	
10	QPSK	1	0	22.61	22.65	22.64	23.5
10	QPSK	1	25	22.53	22.76	22.82	
10	QPSK	1	49	22.45	22.64	22.64	
10	QPSK	25	0	21.50	21.76	21.66	22.5
10	QPSK	25	12	21.62	21.65	21.66	
10	QPSK	25	25	21.55	21.71	21.61	
10	QPSK	50	0	21.65	21.69	21.68	22.5
10	16QAM	1	0	22.35	22.22	22.41	
10	16QAM	1	25	22.29	22.11	22.20	
10	16QAM	1	49	22.11	22.03	22.10	21.5
10	16QAM	25	0	20.64	20.68	20.56	
10	16QAM	25	12	20.72	20.66	20.69	
10	16QAM	25	25	20.62	20.69	20.69	22.5
10	16QAM	50	0	20.72	20.58	20.69	
10	64QAM	1	0	21.92	21.94	22.08	
10	64QAM	1	25	21.77	21.72	21.98	21.5
10	64QAM	1	49	21.87	21.72	21.66	
10	64QAM	25	0	20.60	20.61	20.62	
10	64QAM	25	12	20.73	20.67	20.69	22.5
10	64QAM	25	25	20.73	20.71	20.77	
10	64QAM	50	0	20.68	20.61	20.76	
Channel				26715	26865	27015	
Frequency (MHz)				816.5	831.5	846.5	
5	QPSK	1	0	22.47	22.81	22.61	23.5
5	QPSK	1	12	22.60	22.69	22.55	
5	QPSK	1	24	22.58	22.62	22.59	
5	QPSK	12	0	21.48	21.52	21.53	22.5
5	QPSK	12	7	21.59	21.74	21.70	
5	QPSK	12	13	21.62	21.71	21.59	
5	QPSK	25	0	21.47	21.55	21.56	22.5
5	16QAM	1	0	22.04	22.05	22.06	
5	16QAM	1	12	21.96	21.76	21.78	
5	16QAM	1	24	21.80	21.85	21.85	21.5
5	16QAM	12	0	20.71	20.60	20.69	
5	16QAM	12	7	20.82	20.76	20.66	
5	16QAM	12	13	20.67	20.74	20.66	22.5
5	16QAM	25	0	20.72	20.62	20.49	
5	64QAM	1	0	21.75	21.93	21.75	
5	64QAM	1	12	22.02	21.80	21.71	21.5
5	64QAM	1	24	21.62	22.01	21.60	
5	64QAM	12	0	20.64	20.57	20.71	
5	64QAM	12	7	20.75	20.80	20.76	22.5
5	64QAM	12	13	20.72	20.73	20.81	
5	64QAM	25	0	20.72	20.53	20.67	
Channel				26705	26865	27025	
Frequency (MHz)				815.5	831.5	847.5	
3	QPSK	1	0	22.72	22.80	22.50	23.5
3	QPSK	1	8	22.77	22.58	22.61	
3	QPSK	1	14	22.51	22.44	22.53	
3	QPSK	8	0	21.51	21.53	21.58	22.5
3	QPSK	8	4	21.68	21.68	21.73	
3	QPSK	8	7	21.66	21.64	21.57	
3	QPSK	15	0	21.67	21.62	21.70	22.5
3	16QAM	1	0	21.84	21.81	22.09	
3	16QAM	1	8	21.89	22.23	21.95	
3	16QAM	1	14	21.95	22.14	21.85	21.5
3	16QAM	8	0	20.80	20.71	20.64	
3	16QAM	8	4	20.60	20.60	20.61	
3	16QAM	8	7	20.60	20.81	20.81	22.5
3	16QAM	15	0	20.65	20.58	20.79	
3	64QAM	1	0	21.58	21.72	21.60	
3	64QAM	1	8	21.63	22.06	21.88	21.5
3	64QAM	1	14	21.78	21.67	21.56	
3	64QAM	8	0	20.54	20.43	20.55	
3	64QAM	8	4	20.80	20.79	20.74	22.5
3	64QAM	8	7	20.57	20.64	20.61	
3	64QAM	15	0	20.74	20.49	20.56	
Channel				26697	26865	27033	
Frequency (MHz)				814.7	831.5	848.3	
1.4	QPSK	1	0	22.67	22.75	22.45	23.5
1.4	QPSK	1	3	22.72	22.53	22.56	
1.4	QPSK	1	5	22.46	22.39	22.48	
1.4	QPSK	3	0	21.46	21.48	21.53	
1.4	QPSK	3	1	21.63	21.63	21.68	
1.4	QPSK	3	3	21.61	21.59	21.52	
1.4	QPSK	6	0	21.62	21.57	21.65	22.5

Band 66							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				132072	132322	132572	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	22.71	22.92	22.67	23.5
20	QPSK	1	49	22.59	22.57	22.65	
20	QPSK	1	99	22.54	22.77	22.62	
20	QPSK	50	0	21.70	21.92	21.66	22.5
20	QPSK	50	24	21.75	21.78	21.71	
20	QPSK	50	50	21.69	21.75	21.75	
20	QPSK	100	0	21.76	21.86	21.66	22.5
20	16QAM	1	0	22.09	22.28	21.97	
20	16QAM	1	49	21.97	22.10	22.00	
20	16QAM	1	99	22.00	22.13	21.90	21.5
20	16QAM	50	0	20.67	20.79	20.78	
20	16QAM	50	24	20.78	20.75	20.85	
20	16QAM	50	50	20.77	20.84	20.64	22
20	16QAM	100	0	20.76	20.68	20.64	
20	64QAM	1	0	21.39	21.71	21.59	
20	64QAM	1	49	21.47	21.70	21.42	21
20	64QAM	1	99	21.39	21.38	21.59	
20	64QAM	50	0	20.31	20.29	20.37	
20	64QAM	50	24	20.33	20.40	20.24	22.5
20	64QAM	50	50	20.31	20.40	20.31	
20	64QAM	100	0	20.35	20.23	20.36	
Channel				132047	132322	132597	
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	22.66	22.61	22.74	23.5
15	QPSK	1	37	22.72	22.60	22.69	
15	QPSK	1	74	22.52	22.69	22.71	
15	QPSK	36	0	21.66	21.98	21.68	22.5
15	QPSK	36	20	21.72	21.66	21.77	
15	QPSK	36	39	21.72	21.79	21.66	
15	QPSK	75	0	21.72	21.80	21.67	22.5
15	16QAM	1	0	21.88	22.01	22.08	
15	16QAM	1	37	21.97	21.75	21.97	
15	16QAM	1	74	21.84	21.78	21.89	21.5
15	16QAM	36	0	20.72	20.76	20.54	
15	16QAM	36	20	20.76	20.74	20.80	
15	16QAM	36	39	20.80	20.86	20.76	22
15	16QAM	75	0	20.72	20.65	20.79	
15	64QAM	1	0	21.40	21.46	21.37	
15	64QAM	1	37	21.26	21.32	21.22	21
15	64QAM	1	74	21.42	21.03	21.35	
15	64QAM	36	0	20.22	20.33	20.33	
15	64QAM	36	20	20.41	20.35	20.46	22.5
15	64QAM	36	39	20.48	20.36	20.28	
15	64QAM	75	0	20.35	20.37	20.50	
Channel				132022	132322	132622	
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	22.65	22.96	22.61	23.5
10	QPSK	1	25	22.53	22.51	22.59	
10	QPSK	1	49	22.48	22.71	22.56	
10	QPSK	25	0	21.64	21.88	21.60	22.5
10	QPSK	25	12	21.69	21.72	21.65	
10	QPSK	25	25	21.63	21.69	21.69	
10	QPSK	50	0	21.70	21.54	21.60	22.5
10	16QAM	1	0	22.03	22.22	21.91	
10	16QAM	1	25	21.91	22.04	21.94	
10	16QAM	1	49	21.94	22.07	21.84	21.5
10	16QAM	25	0	20.61	20.73	20.72	
10	16QAM	25	12	20.72	20.69	20.79	
10	16QAM	25	25	20.71	20.78	20.58	22

1.4	16QAM	1	0	21.79	21.76	22.04	22.5
1.4	16QAM	1	3	21.84	22.18	21.90	
1.4	16QAM	1	5	21.90	22.09	21.80	
1.4	16QAM	3	0	20.75	20.66	20.59	
1.4	16QAM	3	1	20.55	20.55	20.56	
1.4	16QAM	3	3	20.55	20.76	20.76	
1.4	16QAM	6	0	20.60	20.53	20.74	21.5
1.4	16QAM	1	0	21.72	21.76	21.73	22.5
1.4	16QAM	1	3	21.63	21.70	21.58	
1.4	16QAM	1	5	21.66	21.63	21.57	
1.4	16QAM	3	0	20.51	20.40	20.52	
1.4	16QAM	3	1	20.77	20.76	20.71	
1.4	16QAM	3	3	20.54	20.61	20.58	
1.4	16QAM	6	0	20.71	20.46	20.53	21.5

3	16QAM	1	0	22.02	22.21	21.90	22.5
3	16QAM	1	8	21.90	22.03	21.93	
3	16QAM	1	14	21.93	22.06	21.83	
3	16QAM	8	0	20.60	20.72	20.71	21.5
3	16QAM	8	4	20.71	20.68	20.78	
3	16QAM	8	7	20.70	20.77	20.57	
3	16QAM	15	0	20.69	20.61	20.57	22
3	64QAM	1	0	21.32	21.64	21.52	
3	64QAM	1	8	21.40	21.63	21.35	
3	64QAM	1	14	21.32	21.31	21.52	21
3	64QAM	8	0	20.24	20.22	20.30	
3	64QAM	8	4	20.26	20.33	20.17	
3	64QAM	8	7	20.24	20.33	20.24	21
3	64QAM	15	0	20.28	20.16	20.29	
Channel				1319.9	1323.22	1326.65	
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	22.62	22.83	22.58	23.5
1.4	QPSK	1	3	22.50	22.48	22.56	
1.4	QPSK	1	5	22.45	22.68	22.53	
1.4	QPSK	3	0	21.61	21.63	21.57	
1.4	QPSK	3	1	21.66	21.69	21.62	
1.4	QPSK	3	3	21.60	21.66	21.66	
1.4	QPSK	6	0	21.67	21.51	21.57	22.5
1.4	16QAM	1	0	22.00	22.19	21.88	22.5
1.4	16QAM	1	3	21.88	22.01	21.91	
1.4	16QAM	1	5	21.91	22.04	21.81	
1.4	16QAM	3	0	20.58	20.70	20.69	
1.4	16QAM	3	1	20.69	20.66	20.76	
1.4	16QAM	3	3	20.68	20.75	20.55	
1.4	16QAM	6	0	20.67	20.59	20.55	21.5
1.4	64QAM	1	0	21.30	21.62	21.50	22
1.4	64QAM	1	3	21.38	21.61	21.33	
1.4	64QAM	1	5	21.30	21.29	21.50	
1.4	64QAM	3	0	20.22	20.20	20.28	
1.4	64QAM	3	1	20.24	20.31	20.15	
1.4	64QAM	3	3	20.22	20.31	20.22	
1.4	64QAM	6	0	20.26	20.14	20.27	21

Band 38							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	22.49	22.85	22.50	23.5
20	QPSK	1	49	22.51	22.61	22.55	
20	QPSK	1	99	22.53	22.49	22.45	
20	QPSK	50	0	21.51	21.61	21.58	22.5
20	QPSK	50	24	21.59	21.58	21.55	
20	QPSK	50	50	21.56	21.53	21.51	
20	QPSK	100	0	21.48	21.58	21.51	22.5
20	16QAM	1	0	21.75	22.00	21.84	
20	16QAM	1	49	21.68	21.97	22.06	
20	16QAM	1	99	21.58	21.59	21.57	21.5
20	16QAM	50	0	20.53	20.57	20.46	
20	16QAM	50	24	20.65	20.65	20.59	
20	16QAM	50	50	20.49	20.63	20.55	21.5
20	16QAM	100	0	20.60	20.46	20.62	
20	64QAM	1	0	21.65	21.85	21.46	
20	64QAM	1	49	21.40	21.55	21.76	22
20	64QAM	1	99	21.60	21.58	21.39	
20	64QAM	50	0	20.47	20.59	20.52	
20	64QAM	50	24	20.59	20.63	20.58	21
20	64QAM	50	50	20.41	20.58	20.52	
20	64QAM	100	0	20.58	20.62	20.41	
Channel				37825	38000	38175	
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	22.39	22.68	22.56	23.5
15	QPSK	1	37	22.52	22.53	22.54	
15	QPSK	1	74	22.37	22.46	22.36	
15	QPSK	36	0	21.38	21.50	21.49	22.5
15	QPSK	36	20	21.56	21.59	21.56	
15	QPSK	36	39	21.45	21.56	21.43	
15	QPSK	75	0	21.54	21.50	21.41	22.5
15	16QAM	1	0	21.82	21.84	21.58	
15	16QAM	1	37	21.79	21.84	22.06	
15	16QAM	1	74	21.56	21.98	21.71	21.5
15	16QAM	36	0	20.37	20.55	20.44	
15	16QAM	36	20	20.60	20.51	20.56	
15	16QAM	36	39	20.50	20.64	20.52	21.5
15	16QAM	75	0	20.48	20.55	20.50	
15	64QAM	1	0	22.05	21.77	21.93	
15	64QAM	1	37	21.83	21.71	21.81	22
15	64QAM	1	74	21.76	21.78	21.66	
15	64QAM	36	0	20.46	20.52	20.60	
15	64QAM	36	20	20.60	20.44	20.61	21
15	64QAM	36	39	20.51	20.53	20.49	
15	64QAM	75	0	20.48	20.52	20.47	
Channel				37800	38000	38200	
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	22.42	22.77	22.65	23.5
10	QPSK	1	25	22.69	22.68	22.64	
10	QPSK	1	49	22.61	22.69	22.65	
10	QPSK	25	0	22.07	21.79	21.76	22.5
10	QPSK	25	12	22.08	21.77	21.83	
10	QPSK	25	25	21.67	21.70	21.75	
10	QPSK	50	0	21.71	21.84	21.71	22.5
10	16QAM	1	0	22.01	21.91	22.14	
10	16QAM	1	25	22.11	21.92	21.85	
10	16QAM	1	49	21.86	22.00	21.94	21.5
10	16QAM	25	0	20.82	20.68	20.69	
10	16QAM	25	12	20.66	20.69	20.70	
10	16QAM	25	25	20.77	20.78	20.73	21.5
10	16QAM	50	0	20.88	20.60	20.69	
10	64QAM	1	0	21.58	21.82	21.56	
10	64QAM	1	25	21.82	21.72	21.91	22
10	64QAM	1	49	21.81	21.76	21.50	
10	64QAM	25	0	20.56	20.67	20.63	
10	64QAM	25	12	20.80	20.75	20.61	21
10	64QAM	25	25	20.67	20.68	20.72	
10	64QAM	50	0	20.71	20.76	20.65	
Channel				37775	38000	38225	
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	22.61	22.79	22.50	23.5
5	QPSK	1	12	22.74	22.76	22.43	
5	QPSK	1	24	22.37	22.38	22.64	
5	QPSK	12	0	21.44	21.53	21.64	22.5
5	QPSK	12	7	21.66	21.64	21.58	
5	QPSK	12	13	21.58	21.62	21.56	
5	QPSK	25	0	21.57	21.54	21.55	22.5
5	16QAM	1	0	21.97	21.80	21.90	
5	16QAM	1	12	22.03	22.04	22.05	
5	16QAM	1	24	21.79	21.83	21.66	21.5
5	16QAM	12	0	20.51	20.62	20.62	
5	16QAM	12	7	20.65	20.59	20.66	
5	16QAM	12	13	20.64	20.65	20.72	21.5
5	16QAM	25	0	20.54	20.64	20.63	
5	64QAM	1	0	21.96	21.60	21.59	
5	64QAM	1	12	21.48	21.94	21.67	22
5	64QAM	1	24	21.83	21.69	21.88	
5	64QAM	12	0	20.73	20.69	20.67	
5	64QAM	12	7	20.63	20.60	20.70	21
5	64QAM	12	13	20.60	20.72	20.61	
5	64QAM	25	0	20.55	20.64	20.65	

Band 40A 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	22.83		22.73	23.5
10	QPSK	1	25	22.73		22.52	
10	QPSK	1	49	22.52		21.64	
10	QPSK	25	0	21.64		21.61	22.5
10	QPSK	25	12	21.6		21.61	
10	QPSK	25	25	21.61		21.57	
10	QPSK	50	0	21.57		21.57	22.5
10	16QAM	1	0	22.46		22.44	
10	16QAM	1	25	22.44		22.12	
10	16QAM	1	49	22.12		20.67	21.5
10	16QAM	25	0	20.67		20.69	
10	16QAM	25	12	20.69		20.59	
10	16QAM	25	25	20.59		20.57	21.5
10	16QAM	50	0	20.57		21.59	
10	64QAM	1	0	21.59		21.84	
10	64QAM	1	25	21.84		21.82	22.5
10	64QAM	1	49	21.82		20.7	
10	64QAM	25	0	20.7		20.61	
10	64QAM	25	12	20.61		20.62	21.5
10	64QAM	25	25	20.62		20.61	
10	64QAM	50	0	20.61		20.61	
Channel				38725	38750	38775	
Frequency (MHz)				2307.5	2310	2312.5	
5	QPSK	1	0	22.63	22.69	22.65	23.5
5	QPSK	1	12	22.68	22.55	22.64	
5	QPSK	1	24	22.52	22.49	22.46	
5	QPSK	12	0	21.57	21.52	21.58	22.5
5	QPSK	12	7	21.60	21.64	21.56	
5	QPSK	12	13	21.61	21.58	21.60	
5	QPSK	25	0	21.57	21.58	21.62	22.5
5	16QAM	1	0	22.32	22.31	22.46	
5	16QAM	1	12	22.44	21.83	21.74	
5	16QAM	1	24	22.12	21.80	21.82	21.5
5	16QAM	12	0	20.67	20.51	20.65	
5	16QAM	12	7	20.69	20.61	20.78	
5	16QAM	12	13	20.59	20.72	20.72	21.5
5	16QAM	25	0	20.57	20.76	20.65	
5	64QAM	1	0	21.86	21.76	21.79	
5	64QAM	1	12	21.84	21.80	21.50	22.5
5	64QAM	1	24	21.82	21.66	21.64	
5	64QAM	12	0	20.70	20.56	20.75	
5	64QAM	12	7	20.61	20.72	20.74	21.5
5	64QAM	12	13	20.62	20.64	20.65	
5	64QAM	25	0	20.61	20.68	20.69	

Band 40B
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	22.83			23.5
10	QPSK	1	25	22.82			
10	QPSK	1	49	22.86			
10	QPSK	25	0	21.79			22.5
10	QPSK	25	12	21.75			
10	QPSK	25	25	21.71			
10	QPSK	50	0	21.75			
10	16QAM	1	0	22.04			22.5
10	16QAM	1	25	21.99			
10	16QAM	1	49	21.95			
10	16QAM	25	0	20.77			
10	16QAM	25	12	20.82			21.5
10	16QAM	25	25	20.84			
10	16QAM	50	0	20.70			
10	64QAM	1	0	21.88			
10	64QAM	1	25	21.96			22.5
10	64QAM	1	49	21.94			
10	64QAM	25	0	20.89			
10	64QAM	25	12	21.00			21.5
10	64QAM	25	25	20.82			
10	64QAM	50	0	20.83			
Channel				39175	39200	39225	Tune-up limit (dBm)
Frequency (MHz)				2352.5	2355	2357.5	
5	QPSK	1	0	22.85	22.86	22.76	23.5
5	QPSK	1	12	22.79	22.88	22.71	
5	QPSK	1	24	22.67	22.72	22.81	
5	QPSK	12	0	21.78	21.83	21.83	22.5
5	QPSK	12	7	21.84	21.81	21.80	
5	QPSK	12	13	21.83	21.77	21.87	
5	QPSK	25	0	21.74	21.81	21.79	
5	16QAM	1	0	22.06	22.10	22.14	22.5
5	16QAM	1	12	21.79	22.05	22.02	
5	16QAM	1	24	22.03	22.01	22.04	
5	16QAM	12	0	20.82	20.83	20.83	
5	16QAM	12	7	20.99	20.88	20.90	21.5
5	16QAM	12	13	20.91	20.90	20.83	
5	16QAM	25	0	20.80	20.76	20.81	
5	64QAM	1	0	22.14	21.94	21.67	
5	64QAM	1	12	21.99	22.02	21.92	22.5
5	64QAM	1	24	21.81	22.00	21.88	
5	64QAM	12	0	20.56	20.75	20.77	
5	64QAM	12	7	20.84	21.06	20.94	21.5
5	64QAM	12	13	20.91	20.88	21.02	
5	64QAM	25	0	20.97	20.89	20.69	

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	22.19	22.16	22.39	22.18	22.01	23
20	QPSK	1	49	22.10	22.09	22.18	21.96	21.90	
20	QPSK	1	99	22.01	22.01	22.08	21.99	21.93	
20	QPSK	50	0	21.06	21.13	21.27	21.08	20.98	22
20	QPSK	50	24	21.15	21.28	21.07	21.10	20.99	
20	QPSK	50	50	21.07	21.26	21.16	20.96	20.97	
20	QPSK	100	0	21.11	21.19	21.25	21.06	20.96	22
20	16QAM	1	0	21.39	21.43	21.37	21.31	21.44	
20	16QAM	1	49	21.23	21.34	21.68	21.37	21.57	
20	16QAM	1	99	21.26	21.46	21.22	21.21	21.49	21
20	16QAM	50	0	20.16	20.23	20.06	20.07	20.06	
20	16QAM	50	24	20.19	20.19	20.06	20.07	19.97	
20	16QAM	50	50	20.12	20.20	20.23	20.01	19.91	22
20	16QAM	100	0	20.12	20.34	20.10	19.96	19.86	
20	64QAM	1	0	21.03	21.36	21.43	20.92	20.92	
20	64QAM	1	49	20.85	21.15	21.36	21.25	21.02	21
20	64QAM	1	99	21.08	21.48	21.08	20.94	20.91	
20	64QAM	50	0	20.11	20.16	20.14	19.94	19.95	
20	64QAM	50	24	20.15	20.17	20.06	20.10	19.91	22
20	64QAM	50	50	20.18	20.16	20.07	19.96	19.94	
20	64QAM	100	0	20.21	20.18	20.07	20.03	19.83	
Channel				39725	40173	40620	41068	41515	
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	21.77	22.03	22.12	22.03	21.93	23
15	QPSK	1	37	22.06	22.00	21.98	21.86	21.90	
15	QPSK	1	74	21.97	22.02	21.97	21.74	21.68	
15	QPSK	36	0	21.01	21.06	21.05	21.01	20.99	22
15	QPSK	36	20	21.12	21.18	21.09	20.97	20.97	
15	QPSK	36	39	21.03	21.22	21.08	20.98	21.00	
15	QPSK	75	0	21.08	21.25	21.12	20.96	21.06	22
15	16QAM	1	0	21.11	21.43	21.42	21.68	21.25	
15	16QAM	1	37	21.24	21.43	21.54	21.29	21.12	
15	16QAM	1	74	21.29	21.36	21.41	21.22	21.30	21
15	16QAM	36	0	19.98	20.18	20.05	20.01	20.11	
15	16QAM	36	20	20.13	20.21	20.22	19.97	19.97	
15	16QAM	36	39	19.98	20.19	20.12	20.08	19.98	22
15	16QAM	75	0	20.06	20.21	20.08	19.98	19.96	
15	64QAM	1	0	21.36	21.05	21.24	21.39	21.23	
15	64QAM	1	37	21.07	21.39	20.87	20.97	21.20	21
15	64QAM	1	74	20.78	20.96	21.42	21.19	20.88	
15	64QAM	36	0	20.07	20.13	20.09	20.01	20.03	
15	64QAM	36	20	20.06	20.21	20.28	19.97	20.00	22
15	64QAM	36	39	20.10	20.16	20.17	19.96	19.95	
15	64QAM	75	0	20.12	20.20	20.05	20.00	20.02	
Channel				39700	40160	40620	41080	41540	
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	22.19	22.29	22.36	22.34	22.18	23
10	QPSK	1	25	22.29	22.36	22.28	22.18	22.14	
10	QPSK	1	49	22.14	22.24	22.16	21.96	21.97	
10	QPSK	25	0	21.22	21.25	21.31	21.12	21.11	22
10	QPSK	25	12	21.29	21.32	21.21	21.23	21.08	
10	QPSK	25	25	21.27	21.36	21.32	21.24	21.11	
10	QPSK	50	0	21.30	21.35	21.29	21.20	21.20	22
10	16QAM	1	0	21.70	21.71	21.58	21.55	21.52	
10	16QAM	1	25	21.75	21.30	21.41	21.56	21.15	
10	16QAM	1	49	21.56	21.77	21.50	21.55	21.33	21
10	16QAM	25	0	20.15	20.38	20.31	20.25	20.22	
10	16QAM	25	12	20.28	20.33	20.31	20.23	20.25	
10	16QAM	25	25	20.26	20.38	20.25	20.33	20.22	21
10	16QAM	50	0	20.34	20.33	20.30	20.26	20.20	

10	16QAM	1	0	21.48	21.50	21.21	21.37	21.47	22
10	16QAM	1	25	21.55	21.59	21.27	21.51	21.37	
10	16QAM	1	49	21.36	21.39	21.26	21.34	21.31	
10	16QAM	25	0	20.26	20.21	20.25	20.19	20.11	21
10	16QAM	25	12	20.22	20.44	20.25	20.16	20.13	
10	16QAM	25	25	20.32	20.28	20.26	20.23	20.18	
10	16QAM	50	0	20.22	20.35	20.17	20.31	20.20	
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	22.15	22.18	22.37	22.00	22.17	23
5	QPSK	1	12	22.25	22.35	22.27	22.10	22.30	
5	QPSK	1	24	22.20	22.34	22.13	22.22	22.11	
5	QPSK	12	0	21.24	21.31	21.18	21.16	21.12	22
5	QPSK	12	7	21.35	21.39	21.27	21.15	21.09	
5	QPSK	12	13	21.18	21.32	21.26	21.16	21.12	
5	QPSK	25	0	21.22	21.27	21.27	21.17	21.12	
5	16QAM	1	0	21.22	21.69	21.58	21.22	21.46	22
5	16QAM	1	12	21.63	21.75	21.77	21.42	21.67	
5	16QAM	1	24	21.56	21.66	21.57	21.34	21.29	
5	16QAM	12	0	20.30	20.32	20.37	20.15	20.03	21
5	16QAM	12	7	20.45	20.42	20.37	20.26	20.16	
5	16QAM	12	13	20.17	20.48	20.34	20.20	20.11	
5	16QAM	25	0	20.23	20.34	20.28	20.17	20.24	
5	64QAM	1	0	21.44	21.34	21.25	21.26	21.61	22
5	64QAM	1	12	21.22	21.57	21.63	21.36	21.35	
5	64QAM	1	24	21.44	21.63	21.50	21.46	21.26	
5	64QAM	12	0	20.38	20.42	20.30	20.11	20.17	21
5	64QAM	12	7	20.36	20.45	20.23	20.17	20.08	
5	64QAM	12	13	20.28	20.43	20.41	20.19	20.20	
5	64QAM	25	0	20.37	20.29	20.21	20.19	20.14	

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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	Tune-up limit (dBm)	
Frequency (MHz)				2546	2569.5	2593	2616.5	2640		
100	DFT-s-OFDM PI/2 BPSK	1	1	13.21	13.33	13.40	13.24	13.33	14.00	
100		1	136	13.20	13.23	13.39	13.26	13.35		
100		1	272	12.97	12.86	12.84	12.96	12.91		
100		DFT-s-OFDM PI/2 BPSK	135	1	13.29	13.45	13.40	13.28	13.30	14.00
100			135	67	13.32	13.39	13.44	13.27	13.42	
100			135	136	13.31	13.40	13.39	13.39	13.44	
100			270	0	13.26	13.34	13.41	13.38	13.40	
100	DFT-s-OFDM QPSK	1	1	13.27	13.38	13.46	13.26	13.32	14.00	
100		1	136	13.28	13.24	13.34	13.24	13.28		
100		1	272	13.04	12.92	12.84	13.09	12.94		
100		DFT-s-OFDM QPSK	135	1	13.29	13.44	13.45	13.33	13.25	14.00
100			135	67	13.27	13.36	13.43	13.26	13.37	
100			135	136	13.28	13.41	13.37	13.39	13.40	
100			270	0	13.26	13.37	13.38	13.35	13.33	
100	DFT-s-OFDM 16QAM	1	1	13.16	13.36	13.34	13.17	13.31	13.50	
100	DFT-s-OFDM 64QAM	1	1	12.49	12.60	12.72	12.54	12.60	13.50	
100	DFT-s-OFDM 256QAM	1	1	10.63	10.80	10.88	10.69	10.72	12.00	
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	13.19	13.11	13.23	13.03	13.16	14.50	
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	13.14	13.20	13.25	13.07	13.12	14.50	
Channel				506202	512400	518598	524798	531000	Tune-up limit (dBm)	
Frequency (MHz)				2531	2562	2593	2624	2655		
70	DFT-s-OFDM PI/2 BPSK	1	1	13.13	13.20	13.27	13.22	12.95	14.50	
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	13.18	13.07	13.14	13.21	13.10	14.00	
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	13.16	13.09	13.19	13.17	13.23	14.50	
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	13.34	13.31	13.40	13.36	13.37	14.50	
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	13.30	13.32	13.41	13.39	13.37	14.50
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	13.09	13.42	13.43	13.38	13.41	14.50
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	13.33	13.29	13.41	13.18	13.13	14.50
100	CP-OFDM 16QAM	1	1	13.30	13.29	13.31	13.15	13.06	14.50
100	CP-OFDM 64QAM	1	1	11.53	11.67	11.78	11.61	11.50	13.00
100	CP-OFDM 256QAM	1	1	8.65	8.73	8.84	8.79	8.76	10.00

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	Tune-up limit (dBm)	
Frequency (MHz)				3750	3795	3840	3885	3930		
100	DFT-s-OFDM PI/2 BPSK	1	1	10.99	10.72	10.79	10.68	10.88	11.00	
100		1	136	11.15	10.87	10.89	10.88	11.05		
100		1	272	10.61	10.60	10.41	10.66	10.68		
100		DFT-s-OFDM QPSK	135	1	10.55	10.32	10.44	10.43	10.47	11.00
100			135	67	11.10	10.87	10.90	10.94	11.11	
100			135	136	10.52	10.44	10.49	10.53	10.58	
100			270	0	10.59	10.36	10.42	10.47	10.60	
100	DFT-s-OFDM 16QAM	1	1	11.13	10.83	11.19	10.99	10.91	11.50	
100		1	136	11.02	10.76	10.91	10.89	11.03		
100		1	272	10.79	10.91	10.93	10.99	10.88		
100		DFT-s-OFDM 64QAM	135	1	10.92	10.84	10.95	10.90	10.91	11.00
100	135		67	10.11	10.09	10.13	10.02	10.08		
100	135		136	10.05	9.91	9.94	10.03	10.07		
100	DFT-s-OFDM 256QAM	270	0	10.08	9.86	9.84	9.96	10.08		
100	DFT-s-OFDM 16QAM	1	1	9.98	9.70	9.73	9.68	9.83	10.00	
100	DFT-s-OFDM 64QAM	1	1	8.35	7.99	8.08	7.94	8.13	9.50	
100	DFT-s-OFDM 256QAM	1	1	6.45	6.15	6.16	6.11	6.22	8.00	
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	10.95	10.65	10.76	10.74	10.69	12.00	
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	10.93	10.81	10.86	10.92	10.81	12.00	
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	11.08	11.16	11.14	11.17	11.02	12.00	
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	11.09	10.88	10.95	11.06	11.10	12.00	
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	10.91	10.84	10.92	10.99	10.98	12.00	
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	Tune-up limit (dBm)	
Frequency (MHz)				3750	3795	3840	3885	3930		
100	CP-OFDM QPSK	1	1	9.32	9.04	9.05	9.00	9.10	11.00	
100	CP-OFDM 16QAM	1	1	8.91	8.58	8.60	8.51	8.70	10.00	
100	CP-OFDM 64QAM	1	1	7.27	7.00	7.06	6.95	7.09	8.50	
100	CP-OFDM 256QAM	1	1	4.38	3.98	4.04	3.91	4.09	5.50	

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	/	/	Tune-up limit (dBm)
Frequency (MHz)				/	/	3750	/	/	
100	DFT-s-OFDM PI/2 BPSK	1	1			17.96			19.00
100		1	136			18.05			
100		1	272			17.54			
100		135	1			18.05			19.00
100		135	67			18.03			
100		135	136			17.96			
100		270	0			18.01			
100	DFT-s-OFDM QPSK	1	1			18.06			19.00
100		1	136			18.05			
100		1	272			17.56			
100		135	1			18.03			19.00
100		135	67			17.99			
100		135	136			17.92			
100		270	0			17.98			
100	DFT-s-OFDM 16QAM	1	1			17.91			19.00
100	DFT-s-OFDM 64QAM	1	1			17.17			18.50
100	DFT-s-OFDM 256QAM	1	1			15.37			17.00
Channel				/	/	650000	/	/	Tune-up limit (dBm)
Frequency (MHz)				/	/	3750	/	/	
90	DFT-s-OFDM PI/2 BPSK	1	1			17.96			19.00
Channel				/	/	650000	/	/	Tune-up limit (dBm)
Frequency (MHz)				/	/	3750	/	/	
80	DFT-s-OFDM PI/2 BPSK	1	1			17.90			19.00
Channel				/	/	650000	/	/	Tune-up limit (dBm)
Frequency (MHz)				/	/	3750	/	/	
70	DFT-s-OFDM PI/2 BPSK	1	1			17.79			19.00
Channel				/	/	650000	/	/	Tune-up limit (dBm)
Frequency (MHz)				/	/	3750	/	/	
60	DFT-s-OFDM PI/2 BPSK	1	1			18.01			19.00
Channel				/	/	650000	/	/	Tune-up limit (dBm)
Frequency (MHz)				/	/	3750	/	/	
50	DFT-s-OFDM PI/2 BPSK	1	1			18.02			19.00
Channel				/	/	650000	/	/	Tune-up limit (dBm)
Frequency (MHz)				/	/	3750	/	/	
40	DFT-s-OFDM PI/2 BPSK	1	1			17.97			19.00
Channel				/	/	650000	/	/	Tune-up limit (dBm)
Frequency (MHz)				/	/	3750	/	/	
30	DFT-s-OFDM PI/2 BPSK	1	1			17.84			19.00
Channel				/	/	650000	/	/	Tune-up limit (dBm)
Frequency (MHz)				/	/	3750	/	/	

20	DFT-s-OFDM PI/2 BPSK	1	1			17.71			19.00
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	/	/	
Frequency (MHz)				/	/	3750	/	/	
100	CP-OFDM QPSK	1	1			17.98			19.00
100	CP-OFDM 16QAM	1	1			18.02			19.00
100	CP-OFDM 64QAM	1	1			16.38			18.00
100	CP-OFDM 256QAM	1	1			13.39			14.50

2.4GHz WLAN ANT 5

Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
802.11b 1Mbps	CH 1	2412	16.46	17.00	16	100.00
	CH 6	2437	17.13	18.00	16	
	CH 11	2462	16.42	17.00	16	
802.11g 6Mbps	CH 1	2412	15.71	16.00	15	99.53
	CH 6	2437	16.03	16.50	15	
	CH 11	2462	15.34	16.00	15	
802.11n-HT20 MCS0	CH 1	2412	15.44	16.00	15	99.63
	CH 6	2437	15.71	16.50	15	
	CH 11	2462	15.45	16.00	15	
802.11ax-HEW20 MCS0 (RU242)	CH 1	2412	15.58	16.00	15	99.63
	CH 6	2437	15.82	16.50	15	
	CH 11	2462	15.69	16.00	15	
802.11ax-HEW20 MCS0 (RU26)	CH 1	2412	15.40	16.00	15	99.61
	CH 6	2437	15.65	16.50	15	
	CH 11	2462	15.77	16.50	15	
802.11ax-HEW40 MCS0	CH 3	2422	15.24	16.00	15	99.63
	CH 6	2437	15.12	16.00	15	
	CH 9	2452	15.44	16.00	15	

2.4GHz WLAN ANT 6

Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
802.11b 1Mbps	CH 1	2412	16.38	17.00	16	100.00
	CH 6	2437	15.25	16.00	18	
	CH 11	2462	16.48	17.00	18	
802.11g 6Mbps	CH 1	2412	15.37	16.00	17	99.53
	CH 6	2437	14.40	15.00	17	
	CH 11	2462	15.56	16.00	17	
802.11n-HT20 MCS0	CH 1	2412	15.09	16.00	17	99.63
	CH 6	2437	14.10	15.00	17	
	CH 11	2462	15.17	16.00	17	
802.11ax-HEW20 MCS0 (RU242)	CH 1	2412	15.27	16.00	17	99.63
	CH 6	2437	14.28	15.00	17	
	CH 11	2462	15.41	16.00	17	
802.11ax-HEW20 MCS0 (RU26)	CH 1	2412	15.07	16.00	17	99.61
	CH 6	2437	14.87	15.50	17	
	CH 11	2462	15.56	16.00	17	
802.11ax-HEW40 MCS0	CH 3	2422	14.87	15.50	18	99.63
	CH 6	2437	14.18	15.00	18	
	CH 9	2452	14.05	15.00	18	

5GHz WLAN ANT 5

Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
802.11a 6Mbps	CH 36	5180	12.34	13.00	12	99.06
	CH 44	5220	12.1	13.00	12	
	CH 48	5240	12.15	13.00	12	
802.11n-HT20 MCS0	CH 36	5180	10.39	11.00	10	99.63
	CH 44	5220	10.63	11.00	10	
	CH 48	5240	10.07	11.00	10	
802.11n-HT40 MCS0	CH 38	5190	10.91	11.50	11	99.63
	CH 46	5230	11.16	11.50	11	
	CH 36	5180	11.13	12.00	11	
802.11ac-VHT20 MCS0	CH 44	5220	10.84	11.50	11	99.63
	CH 48	5240	10.97	11.50	11	
	CH 38	5190	10.69	11.50	11	
802.11ac-VHT40 MCS0	CH 46	5230	11.12	12.00	11	99.63
	CH 42	5210	11.75	12.00	12	
	CH 36	5180	11.17	12.00	11	
802.11ac-VHT80 MCS0	CH 36	5180	11.17	12.00	11	99.63
	CH 44	5220	10.92	11.50	11	
	CH 48	5240	10.91	11.50	11	
802.11ax-HEW20 MCS0 (RU242)	CH 36	5180	8.86	9.50	10	99.61
	CH 44	5220	9.08	9.50	10	
	CH 48	5240	9.37	10.00	10	
802.11ax-HEW20 MCS0 (RU26)	CH 38	5190	11.7	12.50	12	99.63
	CH 46	5230	11.94	12.50	12	
	CH 42	5210	11.82	12.50	12	

5.2GHz WLAN ANT 6

Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
802.11a 6Mbps	CH 36	5180	14.38	15.00	15	99.06
	CH 44	5220	15.21	16.00	15	
	CH 48	5240	14.42	15.00	15	
802.11n-HT20 MCS0	CH 36	5180	14.48	15.00	16	99.63
	CH 44	5220	15.20	16.00	16	
	CH 48	5240	14.54	15.00	16	
802.11n-HT40 MCS0	CH 38	5190	13.64	14.00	14	99.63
	CH 46	5230	13.69	14.00	14	
	CH 36	5180	12.52	13.00	14	
802.11ac-VHT20 MCS0	CH 44	5220	12.39	13.00	14	99.63
	CH 48	5240	13.16	14.00	14	
	CH 38	5190	12.04	12.50	13	
802.11ac-VHT40 MCS0	CH 46	5230	12.75	13.50	13	99.63
	CH 42	5210	12.25	13.00	13	
	CH 36	5180	12.56	13.00	14	
802.11ac-VHT80 MCS0	CH 36	5180	12.56	13.00	14	99.63
	CH 44	5220	12.47	13.00	14	
	CH 48	5240	13.23	14.00	14	
802.11ax-HEW20 MCS0 (RU242)	CH 36	5180	11.86	12.50	10	99.61
	CH 44	5220	12.28	13.00	10	
	CH 48	5240	12.36	13.00	10	
802.11ax-HEW20 MCS0 (RU26)	CH 38	5190	12.05	12.50	13	99.63
	CH 46	5230	12.03	12.50	13	
	CH 42	5210	12.32	14.00	13	

5GHz WLAN ANT 5

Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
802.11a 6Mbps	CH 52	5260	10.59	11.00	10	99.06
	CH 60	5300	10.68	11.00	10	
	CH 64	5320	11.48	12.00	10	
802.11n-HT20 MCS0	CH 52	5260	9.39	10.00	10	99.63
	CH 60	5300	10.51	11.00	10	
	CH 64	5320	9.43	10.00	10	
802.11n-HT40 MCS0	CH 54	5270	10.56	11.00	11	99.63
	CH 62	5310	10.23	11.00	11	
	CH 52	5260	10.21	11.50	11	
802.11ac-VHT20 MCS0	CH 60	5300	10.38	11.50	11	99.63
	CH 64	5320	10.42	11.50	11	
	CH 54	5270	10.34	11.50	11	
802.11ac-VHT40 MCS0	CH 62	5310	10.89	12.00	11	99.63
	CH 58	5290	10.35	12.00	12	
	CH 52	5260	11.01	11.50	11	
802.11ac-VHT80 MCS0	CH 52	5260	11.01	11.50	11	99.63
	CH 60	5300	10.89	11.50	11	
	CH 64	5320	11.23	12.00	11	
802.11ax-HEW20 MCS0 (RU242)	CH 52	5260	9.62	10.00	10	99.61
	CH 60	5300	9.50	10.00	10	
	CH 64	5320	9.74	10.00	10	
802.11ax-HEW20 MCS0 (RU26)	CH 54	5270	10.40	11.00	12	99.63
	CH 62	5310	10.97	11.50	12	
	CH 58	5290	10.70	11.50	12	

5.3GHz WLAN ANT 6

Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
802.11a 6Mbps	CH 52	5260	15.04	15.50	16	99.06
	CH 60	5300	16.46	16.00	16	
	CH 64	5320	15.09	15.50	16	
802.11n-HT20 MCS0	CH 52	5260	14.94	15.50	16	99.63
	CH 60	5300	15.05	15.50	16	
	CH 64	5320	15.02	15.50	16	
802.11n-HT40 MCS0	CH 54	5270	13.84	14.50	14	99.63
	CH 62	5310	13.62	14.00	14	
	CH 52	5260	12.82	13.50	14	
802.11ac-VHT20 MCS0	CH 60	5300	12.81	13.50	14	99.63
	CH 64	5320	13.19	14.00	14	
	CH 54	5270	12.56	13.00	13	
802.11ac-VHT40 MCS0	CH 62	5310	12.81	13.50	13	99.63
	CH 58	5290	12.13	13.00	13	
	CH 52	5260	12.82	13.50	14	
802.11ac-VHT80 MCS0	CH 52	5260	12.82	13.50	14	99.63
	CH 60	5300	13.09	13.50	14	
	CH 64	5320	13.13	13.50	14	
802.11ax-HEW20 MCS0 (RU242)	CH 52	5260	12.60	13.00	10	99.61
	CH 60	5300	12.49	13.00	10	
	CH 64	5320	12.84	13.50	10	
802.11ax-HEW20 MCS0 (RU26)	CH 54	5270	13.12	13.50	13	99.63
	CH 62	5310	13.33	14.00	13	
	CH 58	5290	13.28	14.00	13	

5GHz WLAN ANT 5

Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
802.11a 6Mbps	CH 100	5500	10.01	10.50	10	99.06
	CH 120	5600	10.32	11.00	10	
	CH 144	5720	11.15	12.00	10	
802.11n-HT20 MCS0	CH 100	5500	9.03	9.50	10	99.63
	CH 120	5600	10.45	11.00	10	
	CH 144	5720	10.29	11.00	10	
802.11n-HT40 MCS0	CH 102	5510	10.66	11.50	11	99.63
	CH 126	5630	10.49	13.00	11	
	CH 142	5710	10.28	13.00	11	
802.11ac-VHT20 MCS0	CH 100	5500	9.23	10.00	11	99.63
	CH 120	5600	10.85	12.00	11	
	CH 144	5720	10.64	12.00	11	
802.11ac-VHT40 MCS0	CH 102	5510	10.31	11.50	11	99.63
	CH 126	5630	10.98	12.50	11	
	CH 142	5710	10.95	12.50	11	
802.11ac-VHT80 MCS0	CH 106	5530	10.28	11.50	12	99.63
	CH 122	5610	10.06	13.00	12	
	CH 138	5680	10.12	13.00	12	
802.11ax-HEW20 MCS0 (RU242)	CH 100	5500	9.43	10.00	11	99.63
	CH 120	5600	11.12	12.00	11	
	CH 144	5720	11.14	12.00	11	
802.11ax-HEW20 MCS0 (RU26)	CH 100	5500	9.84	10.50	10	99.63

5.5GHz WLAN ANT 6

Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
802.11a 6Mbps	CH 100	5500	16.14	17.00	16	99.06
	CH 120	5600	16.64	17.50	16	
	CH 144	5720	16.15	17.00	16	
802.11n-HT20 MCS0	CH 100	5500	16.03	16.50	16	99.63
	CH 120	5600	16.38	17.00	16	

802.11ax-HEW80 MCS0	CH 142	5710	9.93	10.50	12	99.63
	CH 106	5530	9.91	10.50	12	
	CH 122	5610	10.12	11.00	12	
	CH 138	5690	9.9	10.50	12	

802.11ax-HEW80 MCS0	CH 142	5710	13.69	14.50	13	99.63
	CH 106	5530	12.11	12.50	13	
	CH 122	5610	13.43	14.00	13	
	CH 138	5690	13.59	14.00	13	

5GHz WLAN ANT 5

Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
802.11a MCS0	CH 149	5745	12.90	13.50	12	99.06
	CH 157	5785	12.68	13.00	12	
	CH 165	5825	12.54	13.00	12	
802.11n-HT20 MCS0	CH 149	5745	10.22	11.00	10	99.63
	CH 157	5785	10.04	10.50	10	
	CH 165	5825	9.78	10.50	10	
802.11n-HT40 MCS0	CH 151	5755	12.57	13.00	11	99.63
	CH 159	5795	12.38	13.00	11	
802.11ac-VHT20 MCS0	CH 149	5745	11.12	12.00	11	99.63
	CH 157	5785	11.07	11.50	11	
802.11ac-VHT40 MCS0	CH 165	5825	11.12	11.50	11	99.63
	CH 151	5755	12.02	12.50	11	
802.11ac-VHT80 MCS0	CH 159	5795	12	12.50	11	99.63
	CH 155	5775	12.3	13.00	12	
802.11ax-HEW20 MCS0 (RU242)	CH 149	5745	11.11	12.00	11	99.63
	CH 157	5785	11.06	14.50	11	
	CH 165	5825	11.01	11.50	11	
802.11ax-HEW20 MCS0 (RU26)	CH 149	5745	9.42	10.00	10	99.61
	CH 157	5785	9.56	10.00	10	
	CH 165	5825	9.64	10.00	10	
802.11ax-HEW40 MCS0	CH 151	5755	12.33	13.00	12	99.63
	CH 159	5795	12.3	13.00	12	
802.11ax-HEW80 MCS0	CH 155	5775	12.36	13.00	12	99.63

5.8 WLAN ANT 6

Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
802.11a MCS0	CH 149	5745	16.1	17.00	16	99.06
	CH 157	5785	15.89	16.50	16	
	CH 165	5825	15.76	16.50	16	
802.11n-HT20 MCS0	CH 149	5745	16.41	17.00	16	99.63
	CH 157	5785	15.97	16.50	16	
	CH 165	5825	15.86	16.50	16	
802.11n-HT40 MCS0	CH 151	5755	14.88	15.50	14	99.63
	CH 159	5795	14.86	15.50	14	
802.11ac-VHT20 MCS0	CH 149	5745	13.65	14.50	14	99.63
	CH 157	5785	13.68	14.50	14	
802.11ac-VHT40 MCS0	CH 165	5825	13.52	14.00	14	99.63
	CH 151	5755	13.92	14.50	13	
802.11ac-VHT80 MCS0	CH 159	5795	13.85	14.50	13	99.63
	CH 155	5775	13.45	14.00	13	
802.11ax-HEW20 MCS0 (RU242)	CH 149	5745	13.84	14.50	14	99.63
	CH 157	5785	13.91	14.50	14	
	CH 165	5825	13.82	14.50	14	
802.11ax-HEW20 MCS0 (RU26)	CH 149	5745	12.51	13.00	10	99.61
	CH 157	5785	12.58	13.00	10	
	CH 165	5825	12.62	13.00	10	
802.11ax-HEW40 MCS0	CH 151	5755	13.56	14.00	13	99.63
	CH 159	5795	13.54	14.00	13	
802.11ax-HEW80 MCS0	CH 155	5775	13.52	14.00	13	99.63

Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
BR / EDR	CH 00	2402	13.40	9.26	9.18
	CH 39	2441	13.79	9.48	9.57
	CH 78	2480	10.29	5.83	5.90
Tune-up Limit			14.5	10	10

Mode	Channel	Frequency (MHz)	Average power (dBm)	
			GFSK	
LE	CH 00	2402	7.29	4.60
	CH 19	2440	7.69	5.06
	CH 39	2480	6.18	3.40
Tune-up Limit			8	5.5

2.4GHz WLAN ANT 5+6

Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
2.4GHz WLAN ANT 5+6	802.11b 11Mbps	CH 1	2412	N/A	N/A	100.00
		CH 6	2437	N/A	N/A	
		CH 11	2462	N/A	N/A	
	802.11g 6Mbps	CH 1	2412	N/A	N/A	99.53
		CH 6	2437	N/A	N/A	
		CH 11	2462	N/A	N/A	
	802.11n-HT20 MCS0	CH 1	2412	18.33	19.00	99.63
		CH 6	2437	17.99	18.50	
		CH 11	2462	18.33	19.00	
802.11ax-HEV20 MCS0 (RU242)	CH 1	2412	18.45	19.00	99.63	
	CH 6	2437	18.13	19.00		
	CH 11	2462	18.57	19.00		
802.11ax-HEV20 MCS0 (RU26)	CH 1	2412	18.26	19.00	99.61	
	CH 6	2437	18.33	19.00		
	CH 11	2462	18.69	19.00		
802.11ax-HEW40 MCS0	CH 3	2422	18.06	19.00	99.63	
	CH 8	2437	17.71	18.50		
	CH 9	2452	17.85	18.50		

5.2GHz WLAN ANT 5+6

Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
5.2GHz WLAN ANT 5+6	802.11a 6Mbps	CH 36	5180	N/A	N/A	99.06
		CH 44	5220	N/A	N/A	
		CH 48	5240	N/A	N/A	
	802.11n-HT20 MCS0	CH 36	5180	15.91	16.50	99.63
		CH 44	5220	16.53	17.00	
		CH 48	5240	15.91	16.50	
	802.11n-HT40 MCS0	CH 38	5190	15.56	16.00	99.63
		CH 46	5230	15.88	16.00	
		CH 36	5180	14.91	15.50	
	802.11ac-VHT20 MCS0	CH 44	5220	14.77	15.50	99.63
		CH 48	5240	15.19	16.00	
		CH 38	5190	14.47	15.00	
	802.11ac-VHT40 MCS0	CH 46	5230	15.05	15.50	99.63
		CH 42	5210	15.05	15.50	
	802.11ac-VHT80 MCS0	CH 36	5180	14.91	15.50	99.63
		CH 44	5220	14.77	15.50	
		CH 48	5240	15.31	16.00	
	802.11ax-HEV20 MCS0 (RU242)	CH 36	5180	13.62	14.00	99.61
		CH 44	5220	13.98	14.50	
		CH 48	5240	14.15	14.50	
	802.11ax-HEV20 MCS0 (RU26)	CH 38	5190	14.91	15.50	99.63
		CH 46	5230	15.05	15.50	
	802.11ax-HEW80 MCS0	CH 42	5210	15.05	15.50	99.63

5.3GHz WLAN ANT 5+6

Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
5.3GHz WLAN ANT 5+6	802.11a 6Mbps	CH 52	5260	N/A	N/A	99.06
		CH 60	5300	N/A	N/A	
		CH 64	5320	N/A	N/A	
	802.11n-HT20 MCS0	CH 52	5260	16.02	16.50	99.63
		CH 60	5300	16.33	16.50	
		CH 64	5320	16.13	16.50	
	802.11n-HT40 MCS0	CH 54	5270	15.88	16.00	99.63
		CH 62	5310	15.91	16.50	
		CH 52	5260	15.05	15.50	
	802.11ac-VHT20 MCS0	CH 60	5300	15.05	15.50	99.63
		CH 64	5320	15.31	16.00	
		CH 54	5270	14.77	15.00	
	802.11ac-VHT40 MCS0	CH 62	5310	15.19	15.50	99.63
		CH 58	5290	14.91	15.50	
	802.11ac-VHT80 MCS0	CH 52	5260	15.05	15.50	99.63
		CH 60	5300	15.19	15.50	
		CH 64	5320	15.31	15.50	
	802.11ax-HEV20 MCS0 (RU242)	CH 52	5260	14.31	15.00	99.61
		CH 60	5300	14.31	15.00	
		CH 64	5320	14.62	15.00	
	802.11ax-HEV20 MCS0 (RU26)	CH 54	5270	15.88	16.00	99.63
		CH 62	5310	16.13	16.50	
	802.11ax-HEW80 MCS0	CH 58	5290	15.19	16.50	99.63

5.5GHz WLAN ANT 5+6

Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %	
5.5GHz WLAN ANT 5+6	802.11a 6Mbps	CH 100	5500	N/A	N/A	99.06
		CH 116	5580	N/A	N/A	
		CH 144	5720	N/A	N/A	
	802.11n-HT20 MCS0	CH 100	5500	16.81	17.50	99.63
		CH 116	5580	17.40	18.00	
		CH 144	5720	17.24	18.00	
	802.11n-HT40 MCS0	CH 102	5510	16.02	16.50	99.63
		CH 126	5630	16.99	17.50	
		CH 142	5710	16.99	17.50	
	802.11ac-VHT20 MCS0	CH 100	5500	15.31	16.00	99.63
		CH 116	5580	14.31	15.00	
		CH 144	5720	15.88	16.00	
	802.11ac-VHT40 MCS0	CH 102	5510	15.88	16.00	99.63
		CH 126	5630	16.13	17.00	
		CH 142	5710	16.13	17.00	
	802.11ac-VHT80 MCS0	CH 106	5530	15.31	16.00	99.63
		CH 122	5610	16.02	16.50	
		CH 138	5690	16.02	16.50	
	802.11ax-HEV20 MCS0 (RU242)	CH 100	5500	15.31	16.00	99.63
		CH 116	5580	15.80	16.50	
		CH 144	5720	15.80	16.50	
	802.11ax-HEW20 MCS0	CH 102	5510	14.47	15.00	99.63

802.11ax-HEW80 MCS0	CH 142	5710	16.13	16.50	99.63
	CH 106	5530	14.62	15.00	
	CH 122	5610	16.02	16.50	
	CH 138	5690	16.02	16.50	

5.8 WLAN ANT 5+6

Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Duty Cycle %
802.11a MCS0	CH 149	5745	N/A	N/A	99.06
	CH 157	5785	N/A	N/A	
	CH 165	5825	N/A	N/A	
802.11n-HT20 MCS0	CH 149	5745	17.16	17.50	99.63
	CH 157	5785	16.99	17.50	
	CH 165	5825	16.81	17.50	
802.11n-HT40 MCS0	CH 151	5755	16.90	17.50	99.63
	CH 159	5795	16.81	17.50	
802.11ac-VHT20 MCS0	CH 149	5745	15.56	16.00	99.63
	CH 157	5785	15.56	16.00	
	CH 165	5825	15.56	16.00	
802.11ac-VHT40 MCS0	CH 151	5755	16.13	16.50	99.63
	CH 159	5795	16.02	16.50	
802.11ac-VHT80 MCS0	CH 155	5775	15.91	16.50	99.63
802.11ax-HEW20 MCS0 (RU242)	CH 149	5745	15.68	16.00	99.63
	CH 157	5785	15.80	16.00	
	CH 165	5825	15.68	16.00	
802.11ax-HEW20 MCS0 (RU26)	CH 149	5745	14.31	15.00	99.61
	CH 157	5785	14.31	15.00	
	CH 165	5825	14.47	15.00	
802.11ax-HEW40 MCS0	CH 151	5755	16.02	16.50	99.63
	CH 159	5795	16.02	16.50	
802.11ax-HEW80 MCS0	CH 155	5775	16.02	16.50	99.63

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
	128	189	251		128	189	251		
TX Channel	824.2	836.4	848.8		824.2	836.4	848.8		
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8		
GSM 1 Tx slot	26.33	26.62	26.57	27.00	17.33	17.62	17.57	18.00	0.33
GPRS 1 Tx slot	26.29	26.55	26.51	27.00	17.29	17.55	17.51	18.00	
GPRS 2 Tx slots	25.17	25.40	25.20	25.50	19.17	19.40	19.20	19.50	0.23
GPRS 3 Tx slots	23.20	23.27	23.10	23.50	18.94	19.01	18.84	19.24	0.17
GPRS 4 Tx slots	21.10	21.09	20.99	21.50	18.10	18.09	17.99	18.50	0.11
EDGE 1 Tx slot	16.36	16.47	16.43	16.50	7.36	7.47	7.43	7.50	0.11
EDGE 2 Tx slots	15.63	15.74	15.71	16.00	9.63	9.74	9.71	10.00	0.11
EDGE 3 Tx slots	15.04	15.10	15.03	15.50	10.78	10.84	10.77	11.24	0.07
EDGE 4 Tx slots	14.58	14.54	14.59	15.00	11.58	11.54	11.59	12.00	0.05

GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)	Ch Delta > 0.5
	512	661	810		512	661	810		
TX Channel	1850.2	1880	1909.8		1850.2	1880	1909.8		
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8		
GSM 1 Tx slot	24.34	24.25	24.28	24.50	15.34	15.25	15.28	15.50	0.15
GPRS 1 Tx slot	24.30	24.19	24.21	24.50	15.30	15.19	15.21	15.50	
GPRS 2 Tx slots	23.07	23.21	23.20	23.50	17.07	17.21	17.20	17.50	0.14
GPRS 3 Tx slots	20.90	20.93	20.90	21.50	16.64	16.67	16.64	17.24	0.03
GPRS 4 Tx slots	19.08	18.89	18.86	19.50	16.08	15.89	15.86	16.50	0.22
EDGE 1 Tx slot	17.97	18.01	18.05	18.50	8.97	9.01	9.05	9.50	0.08
EDGE 2 Tx slots	17.20	17.15	17.24	17.50	11.20	11.15	11.24	11.50	0.09
EDGE 3 Tx slots	16.49	16.51	16.56	17.00	12.23	12.25	12.30	12.74	0.07
EDGE 4 Tx slots	14.30	14.31	14.36	15.00	11.30	11.31	11.36	12.00	0.06

Band	WCDMA Band II			Tune-up Limit (dBm)	WCDMA Band IV			Tune-up Limit (dBm)	WCDMA Band V			Tune-up Limit (dBm)	
	9262	9400	9538		1312	1413	1513		4132	4182	4233		
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		626.4	636.4	646.6		
3GPP Rel 99	RMC 12.2Kbps	15.13	15.17	15.26	15.50	14.16	14.33	14.14	14.50	18.11	18.21	18.10	18.50
3GPP Rel 6	HSDPA Subtest-1	13.88	13.87	14.03	14.50	12.93	12.98	12.90	13.50	17.54	17.46	17.43	18.00
3GPP Rel 6	HSDPA Subtest-2	13.90	14.05	14.03	14.50	13.00	13.18	13.05	13.50	17.52	17.44	17.50	18.00
3GPP Rel 6	HSDPA Subtest-3	13.56	13.64	13.60	14.50	12.37	12.59	12.49	13.50	17.01	16.88	16.84	18.00
3GPP Rel 6	HSDPA Subtest-4	13.55	13.49	13.55	14.50	12.42	12.55	12.50	13.50	16.98	16.90	16.84	18.00
3GPP Rel 8	DC-HSDPA Subtest-1	13.79	13.86	13.91	14.00	12.89	13.17	13.08	13.50	17.50	17.45	17.46	18.00
3GPP Rel 8	DC-HSDPA Subtest-2	13.82	13.84	13.95	14.00	12.98	13.18	12.96	13.50	17.57	17.42	17.42	18.00
3GPP Rel 8	DC-HSDPA Subtest-3	13.22	13.39	13.55	14.00	12.37	12.57	12.42	13.50	17.08	17.04	16.95	18.00
3GPP Rel 8	DC-HSDPA Subtest-4	13.08	13.39	13.42	14.00	12.33	12.67	12.55	13.50	17.05	17.03	16.94	18.00
3GPP Rel 6	HSUPA Subtest-1	13.87	13.88	13.96	14.50	12.93	13.10	12.90	13.50	17.55	17.50	17.60	18.00
3GPP Rel 6	HSUPA Subtest-2	13.28	13.38	13.44	14.00	12.39	12.55	12.43	13.50	17.57	17.50	17.62	18.00
3GPP Rel 6	HSUPA Subtest-3	13.93	13.88	13.97	14.50	12.92	13.07	12.94	13.50	17.45	17.65	17.58	18.00
3GPP Rel 6	HSUPA Subtest-4	13.64	14.18	14.04	14.50	12.98	13.05	12.92	13.50	17.61	17.62	17.65	18.00
3GPP Rel 6	HSUPA Subtest-5	13.89	13.87	13.99	14.50	12.91	13.05	12.94	13.50	17.53	17.57	17.52	18.00
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	13.64	13.72	13.77	14.00	12.46	12.65	12.50	13.50	17.61	17.56	17.51	18.00
Attenuator		Cable Loss				Cable Loss				Cable Loss			
Mode		Max.	15.26			Max.	14.33			Max.	18.21		

Band	CDMA2000 BC0			Tune-up Limit (dBm)	CDMA2000 BC1			Tune-up Limit (dBm)	BC0	BC1
	1013	848	777		25	600	1175			
TX Channel	824.7	836.52	848.31		1851.25	1880	1908.75			
Frequency (MHz)	824.7	836.52	848.31		1851.25	1880	1908.75			
RC1 SO55	21.39	21.48	21.43	22.00	16.70	16.63	16.66	17.50	0.23	0.21
RC3 SO55	21.49	21.56	21.53	22.00	16.53	16.74	16.55	17.50		
RC3 SO32 (F+SCH)	21.45	21.49	21.55	22.00	16.69	16.65	16.64	17.50		
RC3 SO32 (+SCH)	21.38	21.40	21.45	22.00	16.72	16.73	16.72	17.50		
RETAP 4096Bits	21.33	21.35	21.37	22.00	16.60	16.69	16.66	17.50		
Attenuator		Cable Loss				Cable Loss				
Mode		Max.	21.56			Max.	16.74			

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)				18600	18800	19000	
20	QPSK	1	0	16.91	17.17	17.12	17.5
20	QPSK	1	49	16.92	16.96	17.11	
20	QPSK	1	99	16.88	16.76	16.81	
20	QPSK	50	0	16.02	16.12	16.07	16.5
20	QPSK	50	24	15.94	16.02	15.95	
20	QPSK	50	50	15.91	15.89	16.07	
20	QPSK	100	0	15.91	16.09	15.98	17
20	16QAM	1	0	16.34	16.41	16.42	
20	16QAM	1	49	16.26	16.21	16.29	
20	16QAM	1	99	16.17	16.15	16.31	16
20	16QAM	50	0	14.82	14.79	14.88	
20	16QAM	50	24	14.93	14.99	15.04	
20	16QAM	50	50	14.93	14.91	14.99	17
20	16QAM	100	0	14.92	15.04	14.99	
20	64QAM	1	0	16.03	16.16	16.07	
20	64QAM	1	49	15.96	15.96	16.23	16
20	64QAM	1	99	15.87	15.88	15.96	
20	64QAM	50	0	15.53	15.63	15.68	
20	64QAM	50	24	15.72	15.65	15.71	17.5
20	64QAM	50	50	15.6	15.75	15.77	
20	64QAM	100	0	15.72	15.72	15.74	
Channel				18975	18900	19125	
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	16.85	17.13	17.07	17.5
15	QPSK	1	37	16.85	16.91	17.04	
15	QPSK	1	74	16.82	16.7	16.76	
15	QPSK	36	0	15.96	16.07	16.02	16.5
15	QPSK	36	20	15.88	15.96	15.9	
15	QPSK	36	39	15.86	15.82	16.01	
15	QPSK	75	0	15.85	16.03	15.9	17
15	16QAM	1	0	16.28	16.38	16.37	
15	16QAM	1	37	16.21	16.15	16.22	
15	16QAM	1	74	16.12	16.08	16.24	16
15	16QAM	36	0	14.75	14.73	14.82	
15	16QAM	36	20	14.88	14.92	14.98	
15	16QAM	36	39	14.88	14.85	14.93	17
15	16QAM	75	0	14.85	14.99	14.94	
15	64QAM	1	0	15.97	16.09	16.02	
15	64QAM	1	37	15.91	15.91	16.18	16
15	64QAM	1	74	15.81	15.83	15.9	
15	64QAM	36	0	15.47	15.57	15.63	
15	64QAM	36	20	15.66	15.58	15.65	17.5
15	64QAM	36	39	15.54	15.69	15.71	
15	64QAM	75	0	15.66	15.65	15.67	
Channel				18650	18900	19150	
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	16.86	17.13	17.07	17.5
10	QPSK	1	25	16.86	16.89	17.05	
10	QPSK	1	49	16.81	16.7	16.74	
10	QPSK	25	0	15.97	16.07	16.01	16.5
10	QPSK	25	12	15.87	15.95	15.89	
10	QPSK	25	25	15.86	15.82	16	
10	QPSK	50	0	15.84	16.02	15.91	17
10	16QAM	1	0	16.29	16.36	16.36	
10	16QAM	1	25	16.19	16.15	16.23	
10	16QAM	1	49	16.12	16.09	16.25	16
10	16QAM	25	0	14.77	14.74	14.81	
10	16QAM	25	12	14.87	14.93	14.97	
10	16QAM	25	25	14.86	14.84	14.92	17
10	16QAM	50	0	14.86	14.98	14.94	
10	64QAM	1	0	15.97	16.1	16.02	
10	64QAM	1	25	15.9	15.9	16.17	16
10	64QAM	1	49	15.81	15.82	15.9	
10	64QAM	25	0	15.46	15.57	15.62	
10	64QAM	25	12	15.65	15.59	15.66	17.5
10	64QAM	25	25	15.55	15.69	15.72	
10	64QAM	50	0	15.66	15.66	15.68	
Channel				18625	18900	19175	
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	16.85	17.13	17.07	17.5
5	QPSK	1	12	16.86	16.90	17.05	
5	QPSK	1	24	16.82	16.69	16.76	
5	QPSK	12	0	15.96	16.06	16.01	16.5
5	QPSK	12	7	15.88	15.96	15.88	
5	QPSK	12	13	15.85	15.83	16.01	
5	QPSK	25	0	15.85	16.03	15.89	17
5	16QAM	1	0	16.28	16.34	16.35	
5	16QAM	1	12	16.20	16.16	16.23	
5	16QAM	1	24	16.10	16.09	16.26	16
5	16QAM	12	0	14.76	14.73	14.82	
5	16QAM	12	7	14.87	14.94	14.97	
5	16QAM	12	13	14.87	14.85	14.93	17
5	16QAM	25	0	14.86	14.99	14.92	
5	64QAM	1	0	15.97	16.10	16.01	
5	64QAM	1	12	15.90	15.89	16.16	16
5	64QAM	1	24	15.81	15.82	15.91	
5	64QAM	12	0	15.47	15.57	15.61	
5	64QAM	12	7	15.66	15.59	15.65	17.5
5	64QAM	12	13	15.54	15.69	15.70	
5	64QAM	25	0	15.66	15.66	15.68	
Channel				18615	18900	19165	
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	16.85	17.15	17.07	17.5
3	QPSK	1	8	16.87	16.91	17.04	
3	QPSK	1	14	16.81	16.71	16.76	
3	QPSK	8	0	15.97	16.06	16.01	16.5
3	QPSK	8	4	15.87	15.96	15.90	
3	QPSK	8	7	15.85	15.83	16.02	
3	QPSK	15	0	15.85	16.03	15.91	

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	17.50	17.64	17.63	18
20	QPSK	1	49	17.42	17.59	17.51	
20	QPSK	1	99	17.46	17.48	17.47	
20	QPSK	50	0	16.37	16.67	16.52	17
20	QPSK	50	24	16.46	16.55	16.51	
20	QPSK	50	50	16.47	16.31	16.49	
20	QPSK	100	0	16.47	16.63	16.50	17.5
20	16QAM	1	0	16.88	16.94	16.68	
20	16QAM	1	49	16.85	16.80	16.73	
20	16QAM	1	99	16.69	16.74	16.63	16.5
20	16QAM	50	0	15.35	15.49	15.50	
20	16QAM	50	24	15.62	15.52	15.56	
20	16QAM	50	50	15.47	15.43	15.43	17.5
20	16QAM	100	0	15.58	15.39	15.45	
20	64QAM	1	0	16.79	16.84	16.64	
20	64QAM	1	49	16.68	16.70	16.61	16.5
20	64QAM	1	99	16.55	16.55	16.52	
20	64QAM	50	0	15.50	15.55	15.46	
20	64QAM	50	24	15.57	15.45	15.40	17
20	64QAM	50	50	15.31	15.38	15.42	
20	64QAM	100	0	15.35	15.40	15.32	
Channel				20025	20175	20325	
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	17.43	17.58	17.55	18
15	QPSK	1	37	17.36	17.53	17.45	
15	QPSK	1	74	17.41	17.42	17.42	
15	QPSK	36	0	16.31	16.62	16.46	17
15	QPSK	36	20	16.39	16.5	16.44	
15	QPSK	36	39	16.4	16.25	16.42	
15	QPSK	75	0	16.41	16.56	16.44	17.5
15	16QAM	1	0	16.83	16.88	16.62	
15	16QAM	1	37	16.8	16.74	16.68	
15	16QAM	1	74	16.62	16.69	16.58	16.5
15	16QAM	36	0	15.29	15.43	15.45	
15	16QAM	36	20	15.57	15.46	15.5	
15	16QAM	36	39	15.41	15.36	15.36	17
15	16QAM	75	0	15.53	15.33	15.4	
15	64QAM	1	0	16.73	16.79	16.58	
15	64QAM	1	37	16.61	16.63	16.55	16
15	64QAM	1	74	16.5	16.49	16.46	
15	64QAM	36	0	15.44	15.48	15.4	
15	64QAM	36	20	15.5	15.39	15.34	17.5
15	64QAM	36	39	15.25	15.31	15.36	
15	64QAM	75	0	15.28	15.35	15.26	
Channel				20000	20175	20350	
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	17.44	17.58	17.58	23.5
10	QPSK	1	25	17.36	17.54	17.45	
10	QPSK	1	49	17.40	17.41	17.40	
10	QPSK	25	0	16.31	16.62	16.47	22.5
10	QPSK	25	12	16.40	16.48	16.45	
10	QPSK	25	25	16.40	16.24	16.43	
10	QPSK	50	0	16.41	16.57	16.44	22.5
10	16QAM	1	0	16.82	16.88	16.62	
10	16QAM	1	25	16.79	16.74	16.67	
10	16QAM	1	49	16.63	16.68	16.57	21.5
10	16QAM	25	0	15.30	15.42	15.43	
10	16QAM	25	12	15.57	15.46	15.50	
10	16QAM	25	25	15.41	15.38	15.37	22.5
10	16Q						

3	16QAM	1	0	16.28	16.35	16.36	17	
3	16QAM	1	8	16.20	16.15	16.24		
3	16QAM	1	14	16.11	16.08	16.24		
3	16QAM	8	0	14.77	14.72	14.82	16	
3	16QAM	8	4	14.86	14.93	14.97		
3	16QAM	8	7	14.88	14.86	14.93		
3	16QAM	15	0	14.87	14.99	14.93	17	
3	64QAM	1	0	15.92	16.05	15.96		
3	64QAM	1	8	15.85	15.84	16.11		
3	64QAM	1	14	15.76	15.77	15.86	16	
3	64QAM	8	0	15.42	15.52	15.56		
3	64QAM	8	4	15.61	15.54	15.60		
3	64QAM	8	7	15.49	15.64	15.65	17.5	
3	64QAM	15	0	15.61	15.61	15.63		
Channel				1807	1890	19193		Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	17.5	
1.4	QPSK	1	0	16.80	17.10	17.02		
1.4	QPSK	1	3	16.82	16.86	16.99		
1.4	QPSK	1	5	16.76	16.66	16.71		
1.4	QPSK	3	0	15.92	16.01	15.96		
1.4	QPSK	3	1	15.82	15.91	15.85		
1.4	QPSK	3	3	15.80	15.78	15.97		
1.4	QPSK	6	0	15.80	15.98	15.86		
1.4	16QAM	1	0	16.23	16.30	16.31		16.5
1.4	16QAM	1	3	16.15	16.10	16.19		
1.4	16QAM	1	5	16.06	16.03	16.19		
1.4	16QAM	3	0	14.72	14.67	14.77	17	
1.4	16QAM	3	1	14.81	14.88	14.92		
1.4	16QAM	3	3	14.83	14.81	14.88		
1.4	16QAM	6	0	14.82	14.94	14.88	16	
1.4	64QAM	1	0	15.87	16.00	15.91		
1.4	64QAM	1	3	15.80	15.79	16.06		
1.4	64QAM	1	5	15.71	15.72	15.81	17	
1.4	64QAM	3	0	15.37	15.47	15.51		
1.4	64QAM	3	1	15.56	15.49	15.55		
1.4	64QAM	3	3	15.44	15.59	15.60		
1.4	64QAM	6	0	15.56	15.56	15.58		

3	16QAM	1	0	16.81	16.88	16.62	22.5	
3	16QAM	1	8	16.79	16.75	16.67		
3	16QAM	1	14	16.62	16.68	16.58		
3	16QAM	8	0	15.28	15.42	15.43	21.5	
3	16QAM	8	4	15.55	15.46	15.49		
3	16QAM	8	7	15.41	15.36	15.37		
3	16QAM	15	0	15.51	15.34	15.40	22.5	
3	16QAM	1	0	16.69	16.73	16.54		
3	16QAM	1	8	16.58	16.59	16.49		
3	16QAM	1	14	16.44	16.45	16.42	21.5	
3	16QAM	8	0	15.39	15.43	15.34		
3	16QAM	8	4	15.45	15.33	15.29		
3	16QAM	8	7	15.19	15.27	15.30	23.5	
3	16QAM	15	0	15.23	15.29	15.22		
Channel				19957	20175	20393		Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	23.5	
1.4	QPSK	1	0	17.38	17.53	17.52		
1.4	QPSK	1	3	17.30	17.48	17.41		
1.4	QPSK	1	5	17.34	17.38	17.37		
1.4	QPSK	3	0	16.27	16.56	16.41		
1.4	QPSK	3	1	16.36	16.43	16.40		
1.4	QPSK	3	3	16.37	16.20	16.37		
1.4	QPSK	6	0	16.36	16.52	16.40		
1.4	16QAM	1	0	16.76	16.83	16.57		22.5
1.4	16QAM	1	3	16.74	16.70	16.62		
1.4	16QAM	1	5	16.57	16.63	16.53		
1.4	16QAM	3	0	15.23	15.37	15.38	21.5	
1.4	16QAM	3	1	15.50	15.41	15.44		
1.4	16QAM	3	3	15.36	15.31	15.32		
1.4	16QAM	6	0	15.46	15.29	15.35	22.5	
1.4	16QAM	1	0	16.69	16.73	16.54		
1.4	16QAM	1	3	16.58	16.59	16.49		
1.4	16QAM	1	5	16.44	16.45	16.42		
1.4	16QAM	3	0	15.39	15.43	15.34		
1.4	16QAM	3	1	15.45	15.33	15.29	21.5	
1.4	16QAM	3	3	15.19	15.27	15.30		
1.4	16QAM	6	0	15.23	15.29	15.22		

Band 5 (Cellular 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	18.49	18.68	18.82	19
10	QPSK	1	25	18.30	18.56	18.44	
10	QPSK	1	49	18.45	18.36	18.26	
10	QPSK	25	0	17.42	17.56	17.48	18
10	QPSK	25	12	17.58	17.44	17.43	
10	QPSK	25	25	17.52	17.54	17.53	
10	QPSK	50	0	17.48	17.54	17.37	18.5
10	16QAM	1	0	17.99	17.97	17.95	
10	16QAM	1	25	18.06	17.75	17.75	
10	16QAM	1	49	17.73	17.81	17.86	17.5
10	16QAM	25	0	16.51	16.51	16.46	
10	16QAM	25	12	16.58	16.51	16.54	
10	16QAM	25	25	16.49	16.48	16.57	18.5
10	16QAM	50	0	16.67	16.46	16.46	
10	64QAM	1	0	17.68	17.80	17.78	
10	64QAM	1	25	17.71	17.48	17.62	17.5
10	64QAM	1	49	17.55	17.81	17.61	
10	64QAM	25	0	16.43	16.64	16.47	
10	64QAM	25	12	16.64	16.51	16.59	18.5
10	64QAM	25	25	16.57	16.49	16.60	
10	64QAM	50	0	16.54	16.59	16.39	
Channel				20425	20525	20625	
Frequency (MHz)				826.5	836.5	846.5	
5	QPSK	1	0	18.44	18.63	18.55	19
5	QPSK	1	12	18.24	18.50	18.37	
5	QPSK	1	24	18.39	18.31	18.19	
5	QPSK	12	0	17.35	17.51	17.42	18
5	QPSK	12	7	17.51	17.39	17.38	
5	QPSK	12	13	17.45	17.49	17.46	
5	QPSK	25	0	17.42	17.49	17.31	18.5
5	16QAM	1	0	17.94	17.91	17.89	
5	16QAM	1	12	18.00	17.69	17.68	
5	16QAM	1	24	17.66	17.75	17.80	17.5
5	16QAM	12	0	16.44	16.46	16.40	
5	16QAM	12	7	16.52	16.45	16.48	
5	16QAM	12	13	16.43	16.41	16.51	18.5
5	16QAM	25	0	16.62	16.39	16.39	
5	64QAM	1	0	17.61	17.73	17.72	
5	64QAM	1	12	17.65	17.42	17.57	17.5
5	64QAM	1	24	17.48	17.74	17.54	
5	64QAM	12	0	16.37	16.59	16.41	
5	64QAM	12	7	16.58	16.45	16.53	18.5
5	64QAM	12	13	16.52	16.43	16.53	
5	64QAM	25	0	16.49	16.54	16.32	
Channel				20415	20525	20635	
Frequency (MHz)				825.5	836.5	847.5	
3	QPSK	1	0	18.42	18.62	18.56	19
3	QPSK	1	8	18.23	18.50	18.39	
3	QPSK	1	14	18.39	18.30	18.21	
3	QPSK	8	0	17.36	17.51	17.41	18
3	QPSK	8	4	17.52	17.39	17.37	
3	QPSK	8	7	17.45	17.47	17.47	
3	QPSK	15	0	17.41	17.48	17.30	18.5
3	16QAM	1	0	17.93	17.91	17.89	
3	16QAM	1	8	18.01	17.69	17.68	
3	16QAM	1	14	17.67	17.75	17.80	17.5
3	16QAM	8	0	16.45	16.45	16.40	
3	16QAM	8	4	16.52	16.46	16.48	
3	16QAM	8	7	16.42	16.41	16.52	18.5
3	16QAM	15	0	16.61	16.40	16.41	
3	64QAM	1	0	17.62	17.73	17.73	
3	64QAM	1	8	17.64	17.42	17.56	17.5
3	64QAM	1	14	17.48	17.76	17.55	
3	64QAM	8	0	16.36	16.57	16.40	
3	64QAM	8	4	16.58	16.44	16.53	18.5
3	64QAM	8	7	16.52	16.43	16.55	
3	64QAM	15	0	16.47	16.52	16.33	
Channel				20407	20525	20643	
Frequency (MHz)				824.7	836.5	848.3	
1.4	QPSK	1	0	18.42	18.61	18.56	19
1.4	QPSK	1	3	18.24	18.5	18.38	
1.4	QPSK	1	5	18.39	18.30	18.19	
1.4	QPSK	3	0	17.36	17.50	17.41	18
1.4	QPSK	3	1	17.53	17.38	17.37	
1.4	QPSK	3	3	17.46	17.48	17.46	
1.4	QPSK	6	0	17.42	17.49	17.31	18.5
1.4	16QAM	1	0	17.94	17.91	17.89	
1.4	16QAM	1	3	17.99	17.69	17.68	
1.4	16QAM	1	5	17.67	17.76	17.79	17.5
1.4	16QAM	3	0	16.45	16.45	16.40	
1.4	16QAM	3	1	16.52	16.45	16.49	
1.4	16QAM	3	3	16.42	16.43	16.50	18.5
1.4	16QAM	6	0	16.60	16.39	16.39	
1.4	64QAM	1	0	17.63	17.73	17.72	
1.4	64QAM	1	3	17.64	17.43	17.55	17.5
1.4	64QAM	1	5	17.49	17.74	17.55	
1.4	64QAM	3	0	16.36	16.58	16.41	
1.4	64QAM	3	1	16.58	16.44	16.52	18.5
1.4	64QAM	3	3	16.51	16.44	16.54	
1.4	64QAM	6	0	16.47	16.54	16.32	

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	16.13	16.18	16.07	16.5
20	QPSK	1	49	16.05	16.12	16.06	
20	QPSK	1	99	16.02	16.09	16.11	
20	QPSK	50	0	14.9	15.15	14.88	15.5
20	QPSK	50	24	15.01	14.95	14.88	
20	QPSK	50	50	15	15.05	14.93	
20	QPSK	100	0	15.07	15.12	14.99	15.5
20	16QAM	1	0	15.26	15.38	15.43	
20	16QAM	1	49	15.15	15.27	15.3	
20	16QAM	1	99	15.08	15.4	15.22	15.5
20	16QAM	50	0	14.24	14.19	14.2	
20	16QAM	50	24	14.31	14.3	14.13	
20	16QAM	50	50	14.28	14.23	14.21	15.5
20	16QAM	100	0	14.26	14.23	14.25	
20	64QAM	1	0	14.93	14.99	14.98	
20	64QAM	1	49	14.96	15.14	14.94	15.5
20	64QAM	1	99	15.3	15.02	15.28	
20	64QAM	50	0	14.22	14.12	14.14	
20	64QAM	50	24	14.31	14.06	14.17	15.5
20	64QAM	50	50	14.31	14.29	14.32	
20	64QAM	100	0	14.2	14.22	14.24	
Channel				20825	21100	21375	
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	16.07	16.13	16.01	16.5
15	QPSK	1	37	15.99	16.07	16.00	
15	QPSK	1	74	15.97	16.03	16.05	
15	QPSK	36	0	14.84	15.09	14.83	15.5
15	QPSK	36	20	14.94	14.89	14.82	
15	QPSK	36	39	14.93	14.98	14.87	
15	QPSK	75	0	15.02	15.07	14.94	15.5
15	16QAM	1	0	15.20	15.31	15.37	
15	16QAM	1	37	15.09	15.21	15.24	
15	16QAM	1	74	15.01	15.34	15.16	15.5
15	16QAM	36	0	14.18	14.12	14.14	
15	16QAM	36	20	14.24	14.23	14.07	
15	16QAM	36	39	14.21	14.18	14.14	15.5
15	16QAM	75	0	14.19	14.17	14.19	
15	64QAM	1	0	14.87	14.93	14.92	
15	64QAM	1	37	14.91	15.08	14.89	15.5
15	64QAM	1	74	15.24	14.95	15.22	
15	64QAM	36	0	14.17	14.06	14.07	
15	64QAM	36	20	14.24	14.01	14.12	15.5
15	64QAM	36	39	14.26	14.23	14.26	
15	64QAM	75	0	14.15	14.16	14.19	
Channel				20800	21100	21400	
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	16.07	16.12	16.01	16.5
10	QPSK	1	25	15.98	16.06	16.00	
10	QPSK	1	49	15.96	16.04	16.05	
10	QPSK	25	0	14.84	15.08	14.82	15.5
10	QPSK	25	12	14.96	14.89	14.82	
10	QPSK	25	25	14.93	15.00	14.87	
10	QPSK	50	0	15.01	15.06	14.93	15.5
10	16QAM	1	0	15.19	15.31	15.38	
10	16QAM	1	25	15.09	15.20	15.25	
10	16QAM	1	49	15.03	15.35	15.15	15.5
10	16QAM	25	0	14.18	14.13	14.13	
10	16QAM	25	12	14.25	14.24	14.07	
10	16QAM	25	25	14.22	14.17	14.14	15.5
10	16QAM	50	0	14.19	14.17	14.20	
10	64QAM	1	0	14.87	14.93	14.92	
10	64QAM	1	25	14.90	15.07	14.88	15.5
10	64QAM	1	49	15.23	14.96	15.23	
10	64QAM	25	0	14.16	14.07	14.08	
10	64QAM	25	12	14.24	14.01	14.10	15.5
10	64QAM	25	25	14.24	14.24	14.26	
10	64QAM	50	0	14.14	14.16	14.18	
Channel				20775	21100	21	

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	20.89	21.09	21.08	21.5
10	QPSK	1	25	20.98	21.05	21.08	
10	QPSK	1	49	21.02	20.80	21.03	
10	QPSK	25	0	20.03	20.06	20.06	20.5
10	QPSK	25	12	20.10	20.14	20.05	
10	QPSK	25	25	20.10	20.01	20.09	
10	QPSK	50	0	20.05	20.09	20.05	20.5
10	16QAM	1	0	20.51	20.68	20.53	
10	16QAM	1	25	20.57	20.43	20.60	
10	16QAM	1	49	20.40	20.32	20.45	20.5
10	16QAM	25	0	19.22	19.28	19.21	
10	16QAM	25	12	19.17	19.10	19.12	
10	16QAM	25	25	19.13	19.27	19.16	20.5
10	16QAM	50	0	19.13	19.05	19.17	
10	64QAM	1	0	20.25	20.21	20.37	
10	64QAM	1	25	20.17	20.26	20.10	20.5
10	64QAM	1	49	20.39	20.51	20.17	
10	64QAM	25	0	19.11	19.12	19.06	
10	64QAM	25	12	19.05	19.06	19.17	20.5
10	64QAM	25	25	18.98	18.88	19.07	
10	64QAM	50	0	19.17	19.14	19.03	
Channel				23035	23095	23155	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	QPSK	1	0	20.82	21.04	21.03	21.5
5	QPSK	1	12	20.93	20.99	21.02	
5	QPSK	1	24	20.95	20.74	20.97	
5	QPSK	12	0	19.96	20.01	19.99	20.5
5	QPSK	12	7	20.05	20.08	19.99	
5	QPSK	12	13	20.05	19.95	20.03	
5	QPSK	25	0	19.98	20.03	19.98	20.5
5	16QAM	1	0	20.46	20.62	20.48	
5	16QAM	1	12	20.51	20.36	20.53	
5	16QAM	1	24	20.33	20.26	20.39	20.5
5	16QAM	12	0	19.16	19.22	19.15	
5	16QAM	12	7	19.11	19.05	19.07	
5	16QAM	12	13	19.06	19.22	19.11	20.5
5	16QAM	25	0	19.07	18.99	19.11	
5	64QAM	1	0	20.20	20.16	20.32	
5	64QAM	1	12	20.12	20.20	20.04	20.5
5	64QAM	1	24	20.34	20.45	20.11	
5	64QAM	12	0	19.05	19.06	18.99	
5	64QAM	12	7	18.98	19.00	19.11	20.5
5	64QAM	12	13	18.92	18.82	19.00	
5	64QAM	25	0	19.10	19.09	18.97	
Channel				23025	23095	23165	Tune-up limit (dBm)
Frequency (MHz)				700.5	707.5	714.5	
3	QPSK	1	0	20.82	21.03	21.02	21.5
3	QPSK	1	8	20.93	20.98	21.01	
3	QPSK	1	14	20.97	20.73	20.97	
3	QPSK	8	0	19.96	20.00	19.99	20.5
3	QPSK	8	4	20.04	20.09	19.99	
3	QPSK	8	7	20.04	19.95	20.03	
3	QPSK	15	0	19.98	20.03	19.98	20.5
3	16QAM	1	0	20.45	20.63	20.48	
3	16QAM	1	8	20.51	20.37	20.53	
3	16QAM	1	14	20.33	20.26	20.39	20.5
3	16QAM	8	0	19.16	19.22	19.14	
3	16QAM	8	4	19.11	19.05	19.06	
3	16QAM	8	7	19.08	19.22	19.09	20.5
3	16QAM	15	0	19.07	18.98	19.10	
3	64QAM	1	0	20.19	20.16	20.31	
3	64QAM	1	8	20.12	20.20	20.05	20.5
3	64QAM	1	14	20.33	20.44	20.10	
3	64QAM	8	0	19.05	19.07	19.00	
3	64QAM	8	4	18.99	18.99	19.10	20.5
3	64QAM	8	7	18.91	18.82	19.02	
3	64QAM	15	0	19.11	19.08	18.98	
Channel				23017	23095	23173	Tune-up limit (dBm)
Frequency (MHz)				699.7	707.5	715.3	
1.4	QPSK	1	0	20.82	21.03	21.02	21.5
1.4	QPSK	1	3	20.92	21.00	21.02	
1.4	QPSK	1	5	20.96	20.74	20.97	
1.4	QPSK	3	0	19.98	20.01	20.01	20.5
1.4	QPSK	3	1	20.04	20.08	19.99	
1.4	QPSK	3	3	20.03	19.94	20.03	
1.4	QPSK	6	0	19.99	20.03	19.99	20.5
1.4	16QAM	1	0	20.45	20.61	20.46	
1.4	16QAM	1	3	20.52	20.37	20.55	
1.4	16QAM	1	5	20.35	20.26	20.39	20.5
1.4	16QAM	3	0	19.15	19.21	19.15	
1.4	16QAM	3	1	19.12	19.04	19.06	
1.4	16QAM	3	3	19.07	19.20	19.11	20.5
1.4	16QAM	6	0	19.08	18.98	19.10	
1.4	64QAM	1	0	20.19	20.15	20.32	
1.4	64QAM	1	3	20.11	20.20	20.03	20.5
1.4	64QAM	1	5	20.33	20.45	20.11	
1.4	64QAM	3	0	19.05	19.07	19.00	
1.4	64QAM	3	1	18.99	19.00	19.10	20.5
1.4	64QAM	3	3	18.92	18.81	19.00	
1.4	64QAM	6	0	19.11	19.07	18.97	

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	20.95	21.06	20.87	21.5
10	QPSK	1	25	20.88	20.93	20.79	
10	QPSK	1	49	20.86	20.90	20.85	
10	QPSK	25	0	20.17	20.29	20.10	20.5
10	QPSK	25	12	20.07	20.29	20.05	
10	QPSK	25	25	19.98	20.19	19.94	
10	QPSK	50	0	20.00	19.97	20.03	20.5
10	16QAM	1	0	20.29	20.41	20.39	
10	16QAM	1	25	20.26	20.28	20.19	
10	16QAM	1	49	20.30	20.25	20.28	20.5
10	16QAM	25	0	19.19	19.35	19.30	
10	16QAM	25	12	19.20	19.24	19.27	
10	16QAM	25	25	19.13	19.23	19.09	20.5
10	16QAM	50	0	19.10	19.18	19.02	
10	64QAM	1	0	20.18	20.24	20.18	
10	64QAM	1	25	20.15	20.11	19.97	20.5
10	64QAM	1	49	20.17	20.13	19.95	
10	64QAM	25	0	19.19	19.23	19.16	
10	64QAM	25	12	19.01	19.09	19.06	20.5
10	64QAM	25	25	19.02	19.04	18.99	
10	64QAM	50	0	18.93	18.91	18.93	
Channel				23755	23790	23825	Tune-up limit (dBm)
Frequency (MHz)				706.5	710	713.5	
5	QPSK	1	0	20.88	20.99	20.81	21.5
5	QPSK	1	12	20.82	20.87	20.73	
5	QPSK	1	24	20.80	20.83	20.78	
5	QPSK	12	0	20.10	20.23	20.04	20.5
5	QPSK	12	7	20.01	20.23	19.99	
5	QPSK	12	13	19.93	20.14	19.89	
5	QPSK	25	0	19.93	19.90	19.98	20.5
5	16QAM	1	0	20.24	20.35	20.32	
5	16QAM	1	12	20.21	20.21	20.14	
5	16QAM	1	24	20.23	20.19	20.22	20.5
5	16QAM	12	0	19.14	19.29	19.24	
5	16QAM	12	7	19.13	19.18	19.21	
5	16QAM	12	13	19.06	19.17	19.03	20.5
5	16QAM	25	0	19.03	19.12	18.95	
5	64QAM	1	0	20.12	20.18	20.12	
5	64QAM	1	12	20.09	20.05	19.90	20.5
5	64QAM	1	24	20.10	20.07	19.88	
5	64QAM	12	0	19.13	19.16	19.10	
5	64QAM	12	7	18.96	19.04	19.00	20.5
5	64QAM	12	13	18.97	18.97	18.92	
5	64QAM	25	0	18.87	18.85	18.86	

Band 18 (835MHz Band)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				23925			19.5
Frequency (MHz)				822.5			
15	QPSK	1	0	18.81			19.5
15	QPSK	1	37	18.56			
15	QPSK	1	74	18.57			
15	QPSK	36	0	17.57			18.5
15	QPSK	36	20	17.53			
15	QPSK	36	39	17.56			
15	QPSK	75	0	17.59			18.5
15	16QAM	1	0	18.03			
15	16QAM	1	37	17.83			
15	16QAM	1	74	17.75			18.5
15	16QAM	36	0	16.57			
15	16QAM	36	20	16.55			
15	16QAM	36	39	16.68			18.5
15	16QAM	75	0	16.52			
15	64QAM	1	0	18.03			
15	64QAM	1	25	17.87			18.5
15	64QAM	1	49	17.76			
15	64QAM	25	0	16.52			
15	64QAM	25	12	16.64			18.5
15	64QAM	25	25	16.62			
15	64QAM	50	0	16.57			
Channel				23900	23925	23950	19.5
Frequency (MHz)				820	822.5	825	
10	QPSK	1	0	18.63	18.70	18.68	19.5
10	QPSK	1	25	18.67	18.67	18.56	
10	QPSK	1	49	18.46	18.49	18.62	
10	QPSK	25	0	17.61	17.58	17.63	18.5
10	QPSK	25	12	17.66	17.70	17.63	
10	QPSK	25	25	17.71	17.66	17.78	
10	QPSK	50	0	17.72	17.56	17.61	18.5
10	16QAM	1	0	18.02	18.05	17.88	
10	16QAM	1	25	18.02	17.76	17.80	
10	16QAM	1	49	18.05	17.81	17.71	18.5
10	16QAM	25	0	16.79	16.85	16.65	
10	16QAM	25	12	16.78	16.67	16.56	
10	16QAM	25	25	16.70	16.77	16.71	18.5
10	16QAM	50	0	16.69	16.64	16.70	
10	64QAM	1	0	17.93	18.06	17.98	
10	64QAM	1	25	17.80	17.67	17.93	18.5
10	64QAM	1	49	17.57	17.91	17.87	
10	64QAM	25	0	16.70	16.66	16.60	
10	64QAM	25	12	16.82	16.62	16.63	18.5
10	64QAM	25	25	16.68	16.64	16.71	
10	64QAM	50	0	16.68	16.64	16.64	
Channel				23875	23925	23975	19.5
Frequency (MHz)				817.5	822.5	827.5	
5	QPSK	1	0	18.57	18.64	18.62	19.5
5	QPSK	1	12	18.62	18.62	18.50	
5	QPSK	1	24	18.40	18.43	18.56	
5	QPSK	12	0	17.56	17.51	17.61	18.5
5	QPSK	12	7	17.59	17.64	17.57	
5	QPSK	12	13	17.66	17.60	17.73	
5	QPSK	25	0	17.67	17.50	17.55	18.5
5	16QAM	1	0	17.96	17.99	17.83	
5	16QAM	1	12	17.96	17.71	17.73	
5	16QAM	1	24	17.98	17.75	17.66	18.5
5	16QAM	12	0	16.74	16.79	16.60	
5	16QAM	12	7	16.72	16.61	16.49	
5	16QAM	12	13	16.64	16.72	16.65	18.5
5	16QAM	25	0	16.63	16.58	16.65	
5	64QAM	1	0	17.87	18.01	17.92	
5	64QAM	1	12	17.73	17.62	17.86	18.5
5	64QAM	1	24	17.51	17.85	17.81	
5	64QAM	12	0	16.63	16.61	16.54	
5	64QAM	12	7	16.77	16.57	16.57	18.5
5	64QAM	12	13	16.62	16.57	16.66	
5	64QAM	25	0	16.62	16.58	16.58	

Band 19 (835MHz Band)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				24075			19.5
Frequency (MHz)				837.5			
15	QPSK	1	0	18.44			19.5
15	QPSK	1	37	18.41			
15	QPSK	1	74	18.36			
15	QPSK	36	0	17.68			18.5
15	QPSK	36	20	17.45			
15	QPSK	36	39	17.50			
15	QPSK	75	0	17.62			18.5
15	16QAM	1	0	17.81			
15	16QAM	1	37	17.77			
15	16QAM	1	74	17.67			18.5
15	16QAM	36	0	16.42			
15	16QAM	36	20	16.31			
15	16QAM	36	39	16.52			18.5
15	16QAM	75	0	16.27			
15	64QAM	1	0	17.76			
15	64QAM	1	25	17.57			18.5
15	64QAM	1	49	17.57			
15	64QAM	25	0	16.40			
15	64QAM	25	12	16.45			18.5
15	64QAM	25	25	16.52			
15	64QAM	50	0	16.32			
Channel				24050	24075	24100	19.5
Frequency (MHz)				835	837.5	840	
10	QPSK	1	0	18.33	18.43	18.26	19.5
10	QPSK	1	25	18.27	18.34	18.30	
10	QPSK	1	49	18.34	18.23	18.23	
10	QPSK	25	0	17.28	17.30	17.39	18.5
10	QPSK	25	12	17.44	17.40	17.45	
10	QPSK	25	25	17.41	17.49	17.44	
10	QPSK	50	0	17.34	17.44	17.40	18.5
10	16QAM	1	0	17.79	17.80	17.71	
10	16QAM	1	25	17.70	17.59	17.56	
10	16QAM	1	49	17.75	17.68	17.57	18.5
10	16QAM	25	0	16.29	16.42	16.27	
10	16QAM	25	12	16.48	16.32	16.33	
10	16QAM	25	25	16.57	16.43	16.55	18.5
10	16QAM	50	0	16.37	16.30	16.39	
10	64QAM	1	0	17.71	17.77	17.70	
10	64QAM	1	25	17.77	17.52	17.58	18.5
10	64QAM	1	49	17.68	17.47	17.50	
10	64QAM	25	0	16.26	16.39	16.41	
10	64QAM	25	12	16.31	16.36	16.39	18.5
10	64QAM	25	25	16.44	16.49	16.47	
10	64QAM	50	0	16.36	16.43	16.20	
Channel				24025	24075	24125	19.5
Frequency (MHz)				832.5	837.5	842.5	
5	QPSK	1	0	18.26	18.36	18.20	19.5
5	QPSK	1	12	18.22	18.28	18.25	
5	QPSK	1	24	18.27	18.18	18.17	
5	QPSK	12	0	17.23	17.23	17.33	18.5
5	QPSK	12	7	17.38	17.33	17.38	
5	QPSK	12	13	17.36	17.44	17.37	
5	QPSK	25	0	17.28	17.37	17.34	18.5
5	16QAM	1	0	17.73	17.73	17.64	
5	16QAM	1	12	17.65	17.52	17.49	
5	16QAM	1	24	17.69	17.63	17.52	18.5
5	16QAM	12	0	16.22	16.37	16.21	
5	16QAM	12	7	16.43	16.26	16.26	
5	16QAM	12	13	16.51	16.36	16.50	18.5
5	16QAM	25	0	16.31	16.24	16.32	
5	64QAM	1	0	17.65	17.70	17.65	
5	64QAM	1	12	17.71	17.46	17.52	18.5
5	64QAM	1	24	17.61	17.41	17.44	
5	64QAM	12	0	16.20	16.32	16.35	
5	64QAM	12	7	16.26	16.29	16.34	18.5
5	64QAM	12	13	16.38	16.43	16.42	
5	64QAM	25	0	16.30	16.37	16.14	

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	19.52	19.62	19.51	20
15	QPSK	1	37	19.51	19.69	19.35	
15	QPSK	1	74	19.49	19.52	19.40	
15	QPSK	36	0	18.15	18.24	18.20	19
15	QPSK	36	20	18.24	18.19	18.17	
15	QPSK	36	39	18.14	18.23	18.22	
15	QPSK	75	0	18.23	18.21	18.17	19
15	16QAM	1	0	18.31	18.66	18.30	
15	16QAM	1	37	18.52	18.54	18.31	
15	16QAM	1	74	18.49	18.63	18.39	18
15	16QAM	36	0	17.62	17.63	17.65	
15	16QAM	36	20	17.64	17.59	17.53	
15	16QAM	36	39	17.63	17.57	17.59	19
15	16QAM	75	0	17.70	17.59	17.63	
15	64QAM	1	0	18.61	18.68	18.65	
15	64QAM	1	37	18.45	18.53	18.40	18
15	64QAM	1	74	18.51	18.56	18.44	
15	64QAM	36	0	17.16	17.16	17.20	
15	64QAM	36	20	17.27	17.14	17.22	19
15	64QAM	36	39	17.24	17.17	17.32	
15	64QAM	75	0	17.21	17.08	17.28	
Channel				26740	26855	26990	
Frequency (MHz)				819	831.5	844	
10	QPSK	1	0	19.47	19.56	19.44	20
10	QPSK	1	25	19.46	19.63	19.29	
10	QPSK	1	49	19.43	19.46	19.33	
10	QPSK	25	0	18.10	18.19	18.13	19
10	QPSK	25	12	18.19	18.12	18.12	
10	QPSK	25	25	18.08	18.17	18.17	
10	QPSK	50	0	18.17	18.15	18.10	19
10	16QAM	1	0	18.25	18.59	18.24	
10	16QAM	1	25	18.47	18.47	18.24	
10	16QAM	1	49	18.43	18.57	18.33	18
10	16QAM	25	0	17.56	17.57	17.59	
10	16QAM	25	12	17.58	17.54	17.48	
10	16QAM	25	25	17.56	17.50	17.53	19
10	16QAM	50	0	17.63	17.52	17.57	
10	64QAM	1	0	18.55	18.62	18.59	
10	64QAM	1	25	18.38	18.47	18.35	18
10	64QAM	1	49	18.45	18.50	18.38	
10	64QAM	25	0	17.10	17.09	17.15	
10	64QAM	25	12	17.22	17.07	17.17	19
10	64QAM	25	25	17.18	17.12	17.23	
10	64QAM	50	0	17.14	17.01	17.27	
Channel				26715	26865	27015	
Frequency (MHz)				816.5	831.5	846.5	
5	QPSK	1	0	19.46	19.57	19.46	20
5	QPSK	1	12	19.45	19.63	19.29	
5	QPSK	1	24	19.43	19.46	19.35	
5	QPSK	12	0	18.09	18.19	18.14	19
5	QPSK	12	7	18.17	18.14	18.11	
5	QPSK	12	13	18.07	18.17	18.15	
5	QPSK	25	0	18.17	18.15	18.10	19
5	16QAM	1	0	18.25	18.60	18.24	
5	16QAM	1	12	18.47	18.48	18.26	
5	16QAM	1	24	18.43	18.57	18.32	18
5	16QAM	12	0	17.57	17.57	17.58	
5	16QAM	12	7	17.59	17.53	17.47	
5	16QAM	12	13	17.57	17.50	17.52	19
5	16QAM	25	0	17.65	17.53	17.57	
5	64QAM	1	0	18.56	18.62	18.58	
5	64QAM	1	12	18.38	18.47	18.34	18
5	64QAM	1	24	18.45	18.51	18.37	
5	64QAM	12	0	17.11	17.10	17.13	
5	64QAM	12	7	17.21	17.07	17.17	19
5	64QAM	12	13	17.17	17.12	17.26	
5	64QAM	25	0	17.16	17.02	17.21	
Channel				26705	26865	27025	
Frequency (MHz)				815.5	831.5	847.5	
3	QPSK	1	0	19.47	19.57	19.45	20
3	QPSK	1	8	19.44	19.62	19.28	
3	QPSK	1	14	19.43	19.45	19.34	
3	QPSK	8	0	18.09	18.17	18.15	19
3	QPSK	8	4	18.18	18.13	18.11	
3	QPSK	8	7	18.08	18.17	18.16	
3	QPSK	15	0	18.16	18.14	18.11	19
3	16QAM	1	0	18.24	18.60	18.25	
3	16QAM	1	8	18.45	18.47	18.25	
3	16QAM	1	14	18.43	18.56	18.32	18
3	16QAM	8	0	17.57	17.58	17.59	
3	16QAM	8	4	17.58	17.53	17.47	
3	16QAM	8	7	17.57	17.51	17.54	19
3	16QAM	15	0	17.64	17.52	17.57	
3	64QAM	1	0	18.54	18.62	18.60	
3	64QAM	1	8	18.39	18.47	18.34	18
3	64QAM	1	14	18.45	18.51	18.39	
3	64QAM	8	0	17.10	17.11	17.15	
3	64QAM	8	4	17.20	17.07	17.15	19
3	64QAM	8	7	17.18	17.10	17.25	
3	64QAM	15	0	17.14	17.02	17.22	
Channel				26697	26865	27033	
Frequency (MHz)				814.7	831.5	848.3	
1.4	QPSK	1	0	19.47	19.55	19.45	20
1.4	QPSK	1	3	19.46	19.64	19.29	
1.4	QPSK	1	5	19.43	19.47	19.34	
1.4	QPSK	3	0	18.09	18.18	18.14	19
1.4	QPSK	3	1	18.18	18.13	18.12	
1.4	QPSK	3	3	18.09	18.17	18.17	
1.4	QPSK	6	0	18.16	18.16	18.11	

Band 66							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				132072	132322	132572	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	14.97	15.10	14.91	15.5
20	QPSK	1	49	14.81	14.83	14.93	
20	QPSK	1	99	14.73	15.04	14.87	
20	QPSK	50	0	13.91	14.13	13.94	14.5
20	QPSK	50	24	13.98	13.99	13.95	
20	QPSK	50	50	13.92	14.01	13.98	
20	QPSK	100	0	14.00	14.16	13.91	14.5
20	16QAM	1	0	14.37	14.52	14.18	
20	16QAM	1	49	14.20	14.37	14.19	
20	16QAM	1	99	14.23	14.41	14.15	14.5
20	16QAM	50	0	12.90	12.98	13.05	
20	16QAM	50	24	13.01	13.05	13.04	
20	16QAM	50	50	13.07	13.11	12.93	14.5
20	16QAM	100	0	12.98	12.89	12.83	
20	64QAM	1	0	13.65	13.91	13.84	
20	64QAM	1	49	13.76	13.99	13.69	14.5
20	64QAM	1	99	13.65	13.61	13.62	
20	64QAM	50	0	12.53	12.54	12.66	
20	64QAM	50	24	12.56	12.61	12.52	14.5
20	64QAM	50	50	12.59	12.59	12.53	
20	64QAM	100	0	12.65	12.45	12.59	
Channel				132047	132322	132597	
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	14.94	15.07	14.88	15.5
15	QPSK	1	37	14.78	14.80	14.90	
15	QPSK	1	74	14.70	15.01	14.84	
15	QPSK	36	0	13.88	14.10	13.91	14.5
15	QPSK	36	20	13.95	13.96	13.92	
15	QPSK	36	39	13.89	13.98	13.95	
15	QPSK	75	0	13.97	14.13	13.88	14.5
15	16QAM	1	0	14.34	14.49	14.15	
15	16QAM	1	37	14.17	14.34	14.16	
15	16QAM	1	74	14.20	14.38	14.12	14.5
15	16QAM	36	0	12.87	12.95	13.02	
15	16QAM	36	20	12.98	13.02	13.01	
15	16QAM	36	39	13.04	13.08	12.90	14.5
15	16QAM	75	0	12.95	12.86	12.80	
15	64QAM	1	0	13.62	13.88	13.81	
15	64QAM	1	37	13.73	13.96	13.66	14.5
15	64QAM	1	74	13.62	13.58	13.79	
15	64QAM	36	0	12.50	12.51	12.63	
15	64QAM	36	20	12.53	12.58	12.49	14.5
15	64QAM	36	39	12.56	12.56	12.50	
15	64QAM	75	0	12.62	12.42	12.56	
Channel				132022	132322	132622	
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	14.89	15.02	14.83	15.5
10	QPSK	1	25	14.72	14.74	14.84	
10	QPSK	1	49	14.64	14.95	14.78	
10	QPSK	25	0	13.81	14.03	13.85	14.5
10	QPSK	25	12	13.89	13.90	13.86	
10	QPSK	25	25	13.83	13.91	13.89	
10	QPSK	50	0	13.92	14.06	13.81	14.5
10	16QAM	1	0	14.28	14.43	14.10	
10	16QAM	1	25	14.10	14.29	14.09	
10	16QAM	1	49	14.15	14.32	14.07	14.5
10	16QAM	25	0	12.80	12.89	12.96	
10	16QAM	25	12	12.93	12.96	12.96	
10	16QAM	25	25	12.99	13.02	12.85	14.5
10	16QAM	50	0	12.89</			

1.4	16QAM	1	0	18.26	18.60	18.24	19
1.4	16QAM	1	3	18.46	18.48	18.26	
1.4	16QAM	1	5	18.44	18.57	18.33	
1.4	16QAM	3	0	17.57	17.58	17.59	
1.4	16QAM	3	1	17.58	17.53	17.47	
1.4	16QAM	3	3	17.58	17.50	17.54	
1.4	16QAM	6	0	17.64	17.52	17.56	18
1.4	16QAM	1	0	18.49	18.57	18.55	
1.4	16QAM	1	3	18.34	18.42	18.29	19
1.4	16QAM	1	5	18.40	18.46	18.34	
1.4	16QAM	3	0	17.05	17.06	17.10	
1.4	16QAM	3	1	17.15	17.02	17.10	
1.4	16QAM	3	3	17.13	17.05	17.20	
1.4	16QAM	6	0	17.09	16.97	17.17	

3	16QAM	1	0	14.28	14.43	14.08	14.5	
3	16QAM	1	8	14.11	14.29	14.10		
3	16QAM	1	14	14.15	14.31	14.05		
3	16QAM	8	0	12.81	12.90	12.95	14.5	
3	16QAM	8	4	12.92	12.95	12.96		
3	16QAM	8	7	12.97	13.01	12.84		
3	16QAM	15	0	12.89	12.81	12.74	14.5	
3	64QAM	1	0	13.53	13.79	13.73		
3	64QAM	1	8	13.65	13.87	13.58		
3	64QAM	1	14	13.52	13.49	13.71	14.5	
3	64QAM	8	0	12.42	12.41	12.54		
3	64QAM	8	4	12.43	12.48	12.40		
3	64QAM	8	7	12.47	12.48	12.40	14.5	
3	64QAM	15	0	12.54	12.32	12.47		
Channel				1319.9	1323.22	1326.65		Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3		
1.4	QPSK	1	0	14.84	14.98	14.77	15.5	
1.4	QPSK	1	3	14.67	14.70	14.81		
1.4	QPSK	1	5	14.60	14.92	14.74		
1.4	QPSK	3	0	13.79	14.01	13.81		
1.4	QPSK	3	1	13.85	13.87	13.81		
1.4	QPSK	3	3	13.79	13.89	13.85		
1.4	QPSK	6	0	13.87	14.04	13.78	14.5	
1.4	16QAM	1	0	14.24	14.39	14.04		
1.4	16QAM	1	3	14.07	14.25	14.06	14.5	
1.4	16QAM	1	5	14.11	14.27	14.01		
1.4	16QAM	3	0	12.77	12.86	12.91		
1.4	16QAM	3	1	12.88	12.91	12.92		
1.4	16QAM	3	3	12.93	12.97	12.80		
1.4	16QAM	6	0	12.85	12.77	12.70		
1.4	64QAM	1	0	13.49	13.75	13.69	14.5	
1.4	64QAM	1	3	13.61	13.83	13.54		
1.4	64QAM	1	5	13.48	13.45	13.67	14.5	
1.4	64QAM	3	0	12.38	12.37	12.50		
1.4	64QAM	3	1	12.39	12.44	12.36		
1.4	64QAM	3	3	12.43	12.44	12.36		
1.4	64QAM	6	0	12.50	12.28	12.43		14.5

Band 38							
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	20.16	20.50	20.18	21
20	QPSK	1	49	20.16	20.35	20.22	
20	QPSK	1	99	20.20	20.19	20.18	
20	QPSK	50	0	19.18	19.35	19.22	20
20	QPSK	50	24	19.26	19.25	19.27	
20	QPSK	50	50	19.25	19.24	19.19	
20	QPSK	100	0	19.12	19.24	19.15	20
20	16QAM	1	0	19.48	19.70	19.50	
20	16QAM	1	49	19.40	19.66	19.70	
20	16QAM	1	99	19.24	19.33	19.29	20
20	16QAM	50	0	18.24	18.21	18.14	
20	16QAM	50	24	18.38	18.34	18.26	
20	16QAM	50	50	18.16	18.28	18.18	20
20	16QAM	100	0	18.23	18.10	18.26	
20	64QAM	1	0	19.37	19.51	19.18	
20	64QAM	1	49	19.08	19.22	19.41	20
20	64QAM	1	99	19.28	19.23	19.02	
20	64QAM	50	0	18.14	18.28	18.17	
20	64QAM	50	24	18.34	18.27	18.24	20
20	64QAM	50	50	18.05	18.25	18.18	
20	64QAM	100	0	18.21	18.35	18.06	
Channel				37825	38000	38175	
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	20.11	20.45	20.13	21
15	QPSK	1	37	20.11	20.30	20.17	
15	QPSK	1	74	20.15	20.14	20.13	
15	QPSK	36	0	19.13	19.30	19.17	20
15	QPSK	36	20	19.21	19.20	19.22	
15	QPSK	36	39	19.20	19.19	19.14	
15	QPSK	75	0	19.07	19.19	19.10	20
15	16QAM	1	0	19.43	19.65	19.45	
15	16QAM	1	37	19.35	19.61	19.65	
15	16QAM	1	74	19.19	19.28	19.24	20
15	16QAM	36	0	18.19	18.16	18.09	
15	16QAM	36	20	18.33	18.29	18.21	
15	16QAM	36	39	18.11	18.23	18.13	20
15	16QAM	75	0	18.18	18.05	18.21	
15	64QAM	1	0	19.32	19.46	19.13	
15	64QAM	1	37	19.03	19.17	19.36	20
15	64QAM	1	74	19.21	19.18	18.97	
15	64QAM	36	0	18.09	18.23	18.12	
15	64QAM	36	20	18.29	18.22	18.19	20
15	64QAM	36	39	18.00	18.20	18.13	
15	64QAM	75	0	18.16	18.30	18.01	
Channel				37800	38000	38200	
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	20.06	20.40	20.08	21
10	QPSK	1	25	20.06	20.25	20.12	
10	QPSK	1	49	20.10	20.09	20.08	
10	QPSK	25	0	19.08	19.25	19.12	20
10	QPSK	25	12	19.16	19.15	19.17	
10	QPSK	50	0	19.02	19.14	19.05	
10	16QAM	1	0	19.38	19.60	19.40	20
10	16QAM	1	25	19.30	19.56	19.60	
10	16QAM	1	49	19.14	19.23	19.19	
10	16QAM	25	0	18.14	18.11	18.04	20
10	16QAM	25	12	18.28	18.24	18.16	
10	16QAM	25	25	18.06	18.18	18.08	
10	16QAM	50	0	18.13	18.00	18.16	20
10	64QAM	1	0	19.27	19.41	19.08	
10	64QAM	1	25	18.98	19.12	19.31	
10	64QAM	1	49	19.16	19.13	18.92	20
10	64QAM	25	0	18.04	18.18	18.07	
10	64QAM	25	12	18.24	18.17	18.14	
10	64QAM	25	25	17.95	18.15	18.08	20
10	64QAM	50	0	18.11	18.25	17.96	
Channel				37775	38000	38225	
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	20.01	20.35	20.03	21
5	QPSK	1	12	20.01	20.20	20.07	
5	QPSK	1	24	20.05	20.04	20.03	
5	QPSK	12	0	19.03	19.20	19.07	20
5	QPSK	12	7	19.11	19.10	19.12	
5	QPSK	12	13	19.10	19.09	19.04	
5	QPSK	25	0	18.97	19.09	19.00	20
5	16QAM	1	0	19.33	19.55	19.35	
5	16QAM	1	12	19.25	19.51	19.55	
5	16QAM	1	24	19.09	19.18	19.14	20
5	16QAM	12	0	18.09	18.06	17.99	
5	16QAM	12	7	18.23	18.19	18.11	
5	16QAM	12	13	18.01	18.13	18.03	20
5	16QAM	25	0	18.08	17.95	18.11	
5	64QAM	1	0	19.22	19.36	19.03	
5	64QAM	1	12	18.93	19.07	19.26	20
5	64QAM	1	24	19.11	19.08	18.87	
5	64QAM	12	0	17.99	18.13	18.02	
5	64QAM	12	7	18.19	18.12	18.09	20
5	64QAM	12	13	17.90	18.10	18.03	
5	64QAM	25	0	18.06	18.20	17.91	

Band 40A 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	19.24	19.22	18.87	20
10	QPSK	1	25	19.22	18.87	18.11	
10	QPSK	1	49	18.87	18.11	18.01	
10	QPSK	25	0	18.11	18.01	18.01	19
10	QPSK	25	12	18.01	18.01	18.01	
10	QPSK	25	25	18.01	18.01	18.01	
10	QPSK	50	0	18.02	18.02	18.02	19.5
10	16QAM	1	0	18.93	18.88	18.88	
10	16QAM	1	25	18.88	18.88	18.88	
10	16QAM	1	49	18.55	18.55	18.55	18.5
10	16QAM	25	0	17.08	17.08	17.08	
10	16QAM	25	12	17.18	17.18	17.18	
10	16QAM	25	25	17.04	17.04	17.04	18.5
10	16QAM	50	0	17.06	17.06	17.06	
10	64QAM	1	0	18.04	18.04	18.04	
10	64QAM	1	25	18.29	18.29	18.29	17.5
10	64QAM	1	49	18.25	18.25	18.25	
10	64QAM	25	0	17.15	17.15	17.15	
10	64QAM	25	12	17.02	17.02	17.02	17.5
10	64QAM	25	25	17.02	17.02	17.02	
10	64QAM	50	0	17.11	17.11	17.11	
Channel				38725	38750	38775	
Frequency (MHz)				2307.5	2310	2312.5	
5	QPSK	1	0	18.99	19.19	18.90	20
5	QPSK	1	12	19.00	19.17	18.83	
5	QPSK	1	24	18.89	18.88	18.88	
5	QPSK	12	0	17.56	17.62	17.64	19
5	QPSK	12	7	17.64	17.62	17.59	
5	QPSK	12	13	17.54	17.68	17.63	
5	QPSK	25	0	17.70	17.70	17.58	19.5
5	16QAM	1	0	17.72	18.13	17.69	
5	16QAM	1	12	18.01	17.99	17.73	
5	16QAM	1	24	17.88	18.13	17.88	18.5
5	16QAM	12	0	17.07	17.11	17.10	
5	16QAM	12	7	17.09	16.99	16.93	
5	16QAM	12	13	17.10	17.03	16.98	18.5
5	16QAM	25	0	17.18	17.06	17.06	
5	64QAM	1	0	18.01	18.09	18.14	
5	64QAM	1	12	17.93	17.94	17.79	18.5
5	64QAM	1	24	17.91	18.02	17.90	
5	64QAM	12	0	16.55	16.55	16.66	
5	64QAM	12	7	16.68	16.57	16.71	17.5
5	64QAM	12	13	16.64	16.63	16.80	
5	64QAM	25	0	16.70	16.55	16.71	

Band 40B
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	18.99			19.5
10	QPSK	1	25	18.91			
10	QPSK	1	49	18.74			
10	QPSK	25	0	17.80			18.5
10	QPSK	25	12	17.85			
10	QPSK	25	25	17.76			
10	QPSK	50	0	17.75			18.5
10	16QAM	1	0	18.12			
10	16QAM	1	25	18.06			
10	16QAM	1	49	18.03			18.5
10	16QAM	25	0	16.81			
10	16QAM	25	12	16.89			
10	16QAM	25	25	16.93			18.5
10	16QAM	50	0	16.78			
10	64QAM	1	0	17.88			
10	64QAM	1	25	18.00			18.5
10	64QAM	1	49	17.94			
10	64QAM	25	0	16.76			
10	64QAM	25	12	17.02			18.5
10	64QAM	25	25	16.84			
10	64QAM	50	0	16.82			
Channel				39175	39200	39225	Tune-up limit (dBm)
Frequency (MHz)				2352.5	2355	2357.5	
5	QPSK	1	0	18.92	18.95	18.82	19.5
5	QPSK	1	12	18.85	18.89	18.81	
5	QPSK	1	24	18.67	18.78	18.84	
5	QPSK	12	0	17.86	17.93	17.84	18.5
5	QPSK	12	7	17.82	17.84	17.83	
5	QPSK	12	13	17.81	17.79	17.89	
5	QPSK	25	0	17.80	17.84	17.82	18.5
5	16QAM	1	0	18.09	18.19	18.17	
5	16QAM	1	12	17.87	18.15	18.11	
5	16QAM	1	24	18.11	18.02	18.09	18.5
5	16QAM	12	0	16.83	16.84	16.91	
5	16QAM	12	7	17.01	16.93	16.92	
5	16QAM	12	13	16.95	16.99	16.87	18.5
5	16QAM	25	0	16.82	16.83	16.83	
5	64QAM	1	0	18.18	18.02	17.74	
5	64QAM	1	12	17.98	18.08	17.96	18.5
5	64QAM	1	24	17.59	18.00	17.91	
5	64QAM	12	0	16.59	16.84	16.83	
5	64QAM	12	7	16.91	17.08	16.93	18.5
5	64QAM	12	13	17.00	16.88	17.04	
5	64QAM	25	0	16.96	16.94	16.78	

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	19.30	19.27	19.50	19.29	19.12	20
20	QPSK	1	49	19.21	19.20	19.29	19.07	19.01	
20	QPSK	1	99	22.01	19.12	19.19	19.10	19.04	
20	QPSK	50	0	18.17	18.24	18.38	18.19	18.09	19
20	QPSK	50	24	18.26	18.39	18.18	18.21	18.10	
20	QPSK	50	50	18.18	18.37	18.27	18.07	18.08	
20	QPSK	100	0	18.22	18.30	18.36	18.17	18.07	19
20	16QAM	1	0	18.50	18.54	18.48	18.42	18.55	
20	16QAM	1	49	18.34	18.45	18.79	18.48	18.68	
20	16QAM	1	99	18.37	18.57	18.33	18.32	18.60	19
20	16QAM	50	0	17.27	17.34	17.17	17.18	17.17	
20	16QAM	50	24	17.30	17.30	17.17	17.18	17.08	
20	16QAM	50	50	17.23	17.31	17.34	17.12	17.02	18
20	16QAM	100	0	17.23	17.45	17.21	17.07	16.97	
20	64QAM	1	0	18.14	18.47	18.54	18.03	18.03	
20	64QAM	1	49	17.96	18.26	18.47	18.36	18.13	19
20	64QAM	1	99	18.19	18.59	18.19	18.05	18.02	
20	64QAM	50	0	17.22	17.27	17.25	17.05	17.06	
20	64QAM	50	24	17.26	17.28	17.17	17.21	17.02	18
20	64QAM	50	50	17.29	17.27	17.18	17.07	17.05	
20	64QAM	100	0	17.32	17.29	17.18	17.14	16.94	
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	18.88	19.14	19.23	19.14	19.04	20
15	QPSK	1	37	19.17	19.11	19.09	18.97	19.01	
15	QPSK	1	74	19.08	19.13	19.08	18.85	18.79	
15	QPSK	36	0	18.12	18.17	18.16	18.12	18.10	19
15	QPSK	36	20	18.23	18.29	18.20	18.08	18.08	
15	QPSK	36	39	18.14	18.33	18.19	18.09	18.11	
15	QPSK	75	0	18.19	18.36	18.23	18.07	18.17	19
15	16QAM	1	0	18.22	18.54	18.53	18.79	18.36	
15	16QAM	1	37	18.35	18.54	18.65	18.40	18.23	
15	16QAM	1	74	18.40	18.47	18.52	18.33	18.41	18
15	16QAM	36	0	17.09	17.29	17.16	17.12	17.22	
15	16QAM	36	20	17.24	17.32	17.33	17.08	17.08	
15	16QAM	36	39	17.09	17.30	17.23	17.19	17.09	18
15	16QAM	75	0	17.17	17.32	17.19	17.09	17.07	
15	64QAM	1	0	18.47	18.16	18.35	18.50	18.34	
15	64QAM	1	37	18.18	18.50	17.98	18.08	18.31	19
15	64QAM	1	74	17.89	18.07	18.53	18.30	17.99	
15	64QAM	36	0	17.18	17.24	17.20	17.12	17.14	
15	64QAM	36	20	17.17	17.32	17.39	17.08	17.11	18
15	64QAM	36	39	17.21	17.27	17.28	17.07	17.06	
15	64QAM	75	0	17.23	17.31	17.16	17.11	17.13	
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	19.30	19.40	19.47	19.45	19.29	20
10	QPSK	1	25	19.40	19.47	19.39	19.29	19.25	
10	QPSK	1	49	19.25	19.35	19.27	19.07	19.08	
10	QPSK	25	0	18.33	18.36	18.42	18.23	18.22	19
10	QPSK	25	12	18.40	18.43	18.32	18.34	18.19	
10	QPSK	25	25	18.38	18.47	18.43	18.35	18.22	
10	QPSK	50	0	18.41	18.46	18.40	18.31	18.31	19
10	16QAM	1	0	18.81	18.82	18.69	18.66	18.63	
10	16QAM	1	25	18.86	18.41	18.52	18.67	18.26	
10	16QAM	1	49	18.67	18.88	18.61	18.66	18.44	18
10	16QAM	25	0	17.26	17.49	17.42	17.36	17.33	
10	16QAM	25	12	17.39	17.44	17.42	17.34	17.36	
10	16QAM	25	25	17.37	17.49	17.36	17.44	17.33	18
10	16QAM	50	0	17.45	17.44	17.41	17.37	17.31	
10	16QAM	1	0	18.59	18.61	18.32	18.48	18.58	
10	16QAM	1	25	18.66	18.70	18.38	18.62	18.48	19
10	16QAM	1	49	18.47	18.50	18.37	18.45	18.42	
10	16QAM	25	0	17.37	17.32	17.36	17.30	17.22	
10	16QAM	25	12	17.33	17.55	17.36	17.27	17.24	18
10	16QAM	25	25	17.43	17.39	17.37	17.34	17.29	

10	16QAM	50	0	17.33	17.46	17.28	17.42	17.31	
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	19.26	19.29	19.48	19.11	19.28	20
5	QPSK	1	12	19.36	19.46	19.38	19.21	19.41	
5	QPSK	1	24	19.31	19.45	19.24	19.33	19.22	
5	QPSK	12	0	18.35	18.42	18.29	18.27	18.23	19
5	QPSK	12	7	18.46	18.50	18.38	18.26	18.20	
5	QPSK	12	13	18.29	18.43	18.37	18.27	18.23	
5	QPSK	25	0	18.33	18.38	18.38	18.28	18.23	19
5	16QAM	1	0	18.33	18.80	18.69	18.33	18.57	
5	16QAM	1	12	18.74	18.86	18.88	18.53	18.78	
5	16QAM	1	24	18.67	18.77	18.68	18.45	18.40	18
5	16QAM	12	0	17.41	17.43	17.48	17.26	17.14	
5	16QAM	12	7	17.56	17.53	17.48	17.37	17.27	
5	16QAM	12	13	17.28	17.59	17.45	17.31	17.22	19
5	16QAM	25	0	17.34	17.45	17.39	17.28	17.35	
5	64QAM	1	0	18.55	18.45	18.36	18.37	18.72	
5	64QAM	1	12	18.33	18.68	18.74	18.47	18.46	18
5	64QAM	1	24	18.55	18.74	18.61	18.57	18.37	
5	64QAM	12	0	17.49	17.53	17.41	17.22	17.28	
5	64QAM	12	7	17.47	17.56	17.34	17.28	17.19	18
5	64QAM	12	13	17.39	17.54	17.52	17.30	17.31	
5	64QAM	25	0	17.48	17.40	17.32	17.30	17.25	

Reduced Power Level 2

GSM1900 TX Channel	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)
	512	661	810		512	661	810	
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8	
GSM 1 Tx slot	28.15	28.01	28.05	28.50	19.15	19.01	19.05	19.50
GPRS 1 Tx slot	28.03	27.88	27.93	28.50	19.03	18.88	18.93	19.50
GPRS 2 Tx slots	26.84	26.97	26.89	27.50	20.84	20.97	20.89	21.50
GPRS 3 Tx slots	24.69	24.72	24.68	25.50	20.43	20.46	20.42	21.24
GPRS 4 Tx slots	22.79	22.64	22.58	23.50	19.79	19.64	19.58	20.50
EDGE 1 Tx slot	21.67	21.78	21.84	22.00	12.67	12.78	12.84	13.00
EDGE 2 Tx slots	20.91	20.92	20.96	21.50	14.91	14.92	14.96	15.50
EDGE 3 Tx slots	20.29	20.32	20.30	20.50	16.03	16.06	16.04	16.24
EDGE 4 Tx slots	18.05	18.11	18.17	18.50	15.05	15.11	15.17	15.50

Band 7 (Reduced Power Level 2) Part 27

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20850	21100	21350	Tune-up limit (dBm)
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	18.51	18.67	18.51	19
20	QPSK	1	49	18.51	18.53	18.43	
20	QPSK	1	99	18.4	18.48	18.49	
20	QPSK	50	0	17.33	17.45	17.27	18
20	QPSK	50	24	17.48	17.4	17.3	
20	QPSK	50	50	17.32	17.46	17.37	
20	QPSK	100	0	17.45	17.47	17.36	
20	16QAM	1	0	17.58	17.67	17.79	18
20	16QAM	1	49	17.53	17.65	17.75	
20	16QAM	1	99	17.51	17.71	17.54	
20	16QAM	50	0	16.36	16.35	16.33	17
20	16QAM	50	24	16.38	16.38	16.26	
20	16QAM	50	50	16.47	16.4	16.36	
20	16QAM	100	0	16.3	16.33	16.33	
20	64QAM	1	0	17.28	17.43	17.33	18
20	64QAM	1	49	17.43	17.55	17.27	
20	64QAM	1	99	17.6	17.35	17.62	
20	64QAM	50	0	16.28	16.28	16.31	17
20	64QAM	50	24	16.4	16.26	16.29	
20	64QAM	50	50	16.49	16.46	16.5	
20	64QAM	100	0	16.38	16.42	16.34	
Channel				20825	21100	21375	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	18.44	18.62	18.46	19
15	QPSK	1	37	18.46	18.47	18.37	
15	QPSK	1	74	18.34	18.43	18.44	
15	QPSK	36	0	17.26	17.38	17.20	18
15	QPSK	36	20	17.42	17.34	17.24	
15	QPSK	36	39	17.26	17.40	17.31	
15	QPSK	75	0	17.39	17.41	17.31	
15	16QAM	1	0	17.53	17.61	17.72	18
15	16QAM	1	37	17.47	17.59	17.69	
15	16QAM	1	74	17.45	17.65	17.49	
15	16QAM	36	0	16.31	16.28	16.27	17
15	16QAM	36	20	16.32	16.32	16.20	
15	16QAM	36	39	16.42	16.35	16.31	
15	16QAM	75	0	16.25	16.27	16.26	
15	64QAM	1	0	17.21	17.37	17.27	18
15	64QAM	1	37	17.36	17.50	17.22	
15	64QAM	1	74	17.54	17.29	17.57	
15	64QAM	36	0	16.22	16.23	16.25	17
15	64QAM	36	20	16.34	16.19	16.23	
15	64QAM	36	39	16.43	16.40	16.44	
15	64QAM	75	0	16.31	16.35	16.28	
Channel				20800	21100	21400	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	18.44	18.61	18.45	19
10	QPSK	1	25	18.45	18.48	18.36	
10	QPSK	1	49	18.35	18.42	18.42	
10	QPSK	25	0	17.27	17.40	17.21	18
10	QPSK	25	12	17.43	17.34	17.23	
10	QPSK	25	25	17.25	17.40	17.31	
10	QPSK	50	0	17.39	17.40	17.30	
10	16QAM	1	0	17.53	17.61	17.74	18
10	16QAM	1	25	17.48	17.59	17.68	
10	16QAM	1	49	17.44	17.64	17.48	
10	16QAM	25	0	16.30	16.29	16.28	

10	16QAM	25	12	16.33	16.32	16.19	17
10	16QAM	25	25	16.41	16.35	16.30	
10	16QAM	50	0	16.24	16.27	16.27	
10	64QAM	1	0	17.22	17.36	17.28	18
10	64QAM	1	25	17.37	17.49	17.21	
10	64QAM	1	49	17.54	17.30	17.57	
10	64QAM	25	0	16.21	16.23	16.24	17
10	64QAM	25	12	16.33	16.20	16.22	
10	64QAM	25	25	16.44	16.39	16.43	
10	64QAM	50	0	16.31	16.35	16.28	
Channel				20775	21100	21425	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	18.45	18.59	18.45	19
5	QPSK	1	12	18.45	18.48	18.37	
5	QPSK	1	24	18.34	18.42	18.43	
5	QPSK	12	0	17.27	17.40	17.22	18
5	QPSK	12	7	17.43	17.34	17.25	
5	QPSK	12	13	17.27	17.41	17.31	
5	QPSK	25	0	17.40	17.41	17.30	
5	16QAM	1	0	17.52	17.61	17.72	18
5	16QAM	1	12	17.47	17.59	17.70	
5	16QAM	1	24	17.45	17.65	17.49	
5	16QAM	12	0	16.31	16.29	16.27	17
5	16QAM	12	7	16.32	16.32	16.21	
5	16QAM	12	13	16.40	16.35	16.31	
5	16QAM	25	0	16.25	16.27	16.28	
5	64QAM	1	0	17.23	17.37	17.28	
5	64QAM	1	12	17.38	17.49	17.22	18
5	64QAM	1	24	17.53	17.28	17.55	
5	64QAM	12	0	16.23	16.22	16.25	17
5	64QAM	12	7	16.35	16.20	16.23	
5	64QAM	12	13	16.43	16.39	16.44	
5	64QAM	25	0	16.33	16.35	16.28	

n41 (Reduced Power Level 3)

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	Tune-up limit (dBm)
Frequency (MHz)				2546	2569.5	2593	2616.5	2640	
100	DFT-s-OFDM PI/2 BPSK	1	1	10.01	10.13	10.20	10.04	10.13	11.50
100		1	136	10.00	10.03	10.19	10.06	10.15	
100		1	272	9.77	9.66	9.64	9.76	9.71	
100		135	1	10.09	10.25	10.20	10.08	10.10	11.50
100		135	67	10.12	10.19	10.24	10.07	10.22	
100		135	136	10.11	10.20	10.19	10.19	10.24	
100	270	0	10.06	10.14	10.21	10.18	10.20		
100	DFT-s-OFDM QPSK	1	1	10.07	10.18	10.26	10.06	10.12	11.50
100		1	136	10.08	10.04	10.14	10.04	10.08	
100		1	272	9.84	9.72	9.64	9.89	9.74	
100		135	1	10.04	10.19	10.20	10.08	10.00	11.50
100		135	67	10.02	10.11	10.18	10.01	10.12	
100		135	136	10.03	10.16	10.12	10.14	10.15	
100	270	0	10.01	10.12	10.13	10.10	10.08		
100	DFT-s-OFDM 16QAM	1	1	9.96	10.16	10.14	9.97	10.11	11.50
100	DFT-s-OFDM 64QAM	1	1	9.29	9.40	9.52	9.34	9.40	10.50
100	DFT-s-OFDM 256QAM	1	1	7.43	7.60	7.68	7.49	7.52	9.00
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	10.09	10.01	10.13	9.93	10.06	11.50
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	10.04	10.10	10.15	9.97	10.02	11.50
Channel				506202	512400	518598	524798	531000	Tune-up limit (dBm)
Frequency (MHz)				2531	2562	2593	2624	2655	
70	DFT-s-OFDM PI/2 BPSK	1	1	10.03	10.10	10.17	10.12	9.85	11.50
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	10.08	9.97	10.04	10.11	10.00	11.00
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	10.06	9.99	10.09	10.07	10.13	11.50
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	10.24	10.21	10.30	10.26	10.27	11.50
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	10.20	10.22	10.31	10.29	10.27	11.50
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	9.99	10.32	10.33	10.28	10.31	11.50
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	10.23	10.19	10.31	10.08	10.03	11.50
100	CP-OFDM 16QAM	1	1	10.20	10.19	10.21	10.05	9.96	11.50
100	CP-OFDM 64QAM	1	1	8.43	8.57	8.68	8.51	8.40	10.00
100	CP-OFDM 256QAM	1	1	5.55	5.63	5.74	5.69	5.66	7.00

Reduced Power Level 4

5GHz WLAN ANT 5							
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %	
802.11a 6Mbps	CH 36	5180	10.34	11.00	12	99.06	
	CH 44	5220	10.11	11.00	12		
	CH 48	5240	10.15	9.00	12		
802.11n-HT20 MCS0	CH 36	5180	8.39	9.00	10	99.63	
	CH 44	5220	8.63	9.00	10		
	CH 48	5240	8.07	9.50	10		
802.11n-HT40 MCS0	CH 38	5190	8.91	9.50	11	99.63	
	CH 46	5230	9.16	10.00	11		
	CH 36	5180	9.13	9.50	11		
802.11ac-VHT20 MCS0	CH 44	5220	8.84	9.50	11	99.63	
	CH 46	5240	8.97	9.50	11		
	CH 38	5190	8.89	10.00	11		
802.11ac-VHT40 MCS0	CH 46	5230	9.12	10.00	11	99.63	
	CH 42	5210	9.75	10.00	12		
802.11ax-HEW20 MCS0 (RU242)	CH 36	5180	9.17	9.50	11	99.63	
	CH 44	5220	8.92	9.50	11		
	CH 48	5240	8.91	7.50	11		
802.11ax-HEW20 MCS0 (RU26)	CH 36	5180	6.86	7.50	10	99.61	
	CH 44	5220	7.08	8.00	10		
	CH 48	5240	7.37	10.50	10		
802.11ax-HEW40 MCS0	CH 38	5190	9.7	10.50	12	99.63	
	CH 46	5230	9.94	10.50	12		
802.11ax-HEW80 MCS0	CH 42	5210	9.82	10.50	12	99.63	

Reduced Power Level 5

5.2GHz WLAN ANT 6							
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %	
802.11a 6Mbps	CH 36	5180	12.38	13.00	15	99.06	
	CH 44	5220	13.21	14.00	15		
	CH 48	5240	12.42	13.00	15		
802.11n-HT20 MCS0	CH 36	5180	12.48	13.00	16	99.63	
	CH 44	5220	13.20	14.00	16		
	CH 48	5240	12.54	13.00	16		
802.11n-HT40 MCS0	CH 38	5190	11.84	12.00	14	99.63	
	CH 46	5230	11.69	12.00	14		
	CH 36	5180	10.52	11.00	14		
802.11ac-VHT20 MCS0	CH 44	5220	10.39	11.00	14	99.63	
	CH 46	5240	11.16	12.00	14		
	CH 38	5190	10.04	10.50	13		
802.11ac-VHT40 MCS0	CH 46	5230	10.75	11.50	13	99.63	
	CH 42	5210	10.25	11.00	13		
802.11ax-HEW20 MCS0 (RU242)	CH 36	5180	10.56	11.00	14	99.63	
	CH 44	5220	10.47	11.00	14		
	CH 48	5240	11.23	12.00	14		
802.11ax-HEW20 MCS0 (RU26)	CH 36	5180	9.86	10.50	10	99.61	
	CH 44	5220	10.28	11.00	10		
	CH 48	5240	10.36	11.00	10		
802.11ax-HEW40 MCS0	CH 38	5190	10.05	10.50	13	99.63	
	CH 46	5230	10.03	10.50	13		
802.11ax-HEW80 MCS0	CH 42	5210	10.32	12.00	13	99.63	

5GHz WLAN ANT 5							
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %	
802.11a 6Mbps	CH 52	5260	8.59	9.00	10	99.06	
	CH 60	5300	8.68	9.00	10		
	CH 64	5320	9.48	10.00	10		
802.11n-HT20 MCS0	CH 52	5260	7.39	8.00	10	99.63	
	CH 60	5300	8.51	9.00	10		
	CH 64	5320	7.43	8.00	10		
802.11n-HT40 MCS0	CH 54	5270	8.56	9.00	11	99.63	
	CH 62	5310	8.23	9.00	11		
802.11ac-VHT20 MCS0	CH 52	5260	8.21	9.50	11	99.63	
	CH 60	5300	8.38	9.50	11		
	CH 64	5320	8.42	9.50	11		
802.11ac-VHT40 MCS0	CH 54	5270	8.34	9.50	11	99.63	
	CH 62	5310	8.89	10.00	11		
802.11ac-VHT80 MCS0	CH 58	5290	8.35	10.00	12	99.63	
	CH 52	5260	9.01	9.50	11		
802.11ax-HEW20 MCS0 (RU242)	CH 60	5300	8.89	9.50	11	99.63	
	CH 64	5320	9.23	10.00	11		
	CH 52	5260	7.62	8.00	10		
802.11ax-HEW20 MCS0 (RU26)	CH 60	5300	7.50	8.00	10	99.61	
	CH 64	5320	7.74	8.00	10		
	CH 54	5270	8.40	9.00	12		
802.11ax-HEW40 MCS0	CH 62	5310	8.97	9.50	12	99.63	
	CH 58	5290	8.70	9.50	12		

5.3GHz WLAN ANT 6							
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %	
802.11a 6Mbps	CH 52	5260	13.04	13.50	16	99.06	
	CH 60	5300	13.45	14.00	16		
	CH 64	5320	13.09	13.50	16		
802.11n-HT20 MCS0	CH 52	5260	12.94	13.50	16	99.63	
	CH 60	5300	13.05	13.50	16		
	CH 64	5320	13.02	13.50	16		
802.11n-HT40 MCS0	CH 54	5270	11.84	12.50	14	99.63	
	CH 62	5310	11.62	12.00	14		
802.11ac-VHT20 MCS0	CH 52	5260	10.82	11.50	14	99.63	
	CH 60	5300	10.81	11.50	14		
	CH 64	5320	11.19	12.00	14		
802.11ac-VHT40 MCS0	CH 54	5270	10.56	11.00	13	99.63	
	CH 62	5310	10.81	11.50	13		
802.11ac-VHT80 MCS0	CH 58	5290	10.13	11.00	13	99.63	
	CH 52	5260	10.82	11.50	14		
802.11ax-HEW20 MCS0 (RU242)	CH 60	5300	11.09	11.50	14	99.63	
	CH 64	5320	11.13	11.50	14		
	CH 52	5260	10.60	11.00	10		
802.11ax-HEW20 MCS0 (RU26)	CH 60	5300	10.49	11.00	10	99.61	
	CH 64	5320	10.84	11.50	10		
	CH 54	5270	11.12	11.50	13		
802.11ax-HEW40 MCS0	CH 62	5310	11.33	12.00	13	99.63	
	CH 58	5290	11.28	12.00	13		

5GHz WLAN ANT 5							
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %	
802.11a 6Mbps	CH 100	5500	7.01	7.50	10	99.06	
	CH 120	5600	7.32	8.00	10		
	CH 144	5720	8.15	9.00	10		
802.11n-HT20 MCS0	CH 100	5500	6.03	6.50	10	99.63	
	CH 120	5600	7.45	8.00	10		
	CH 144	5720	7.29	8.00	10		
802.11n-HT40 MCS0	CH 102	5510	7.66	8.50	11	99.63	
	CH 126	5630	7.49	10.00	11		
802.11ac-VHT20 MCS0	CH 142	5710	7.28	10.00	11	99.63	
	CH 100	5500	6.23	7.00	11		
	CH 120	5600	7.65	9.00	11		
802.11ac-VHT40 MCS0	CH 144	5720	7.64	9.00	11	99.63	
	CH 102	5510	7.31	8.50	11		
	CH 126	5630	7.98	9.50	11		
802.11ac-VHT80 MCS0	CH 142	5710	7.95	9.50	11	99.63	
	CH 106	5530	7.28	8.50	12		
802.11ax-HEW20 MCS0 (RU242)	CH 122	5610	7.06	10.00	12	99.63	
	CH 138	5690	7.12	10.00	12		
	CH 100	5500	6.43	7.00	11		
802.11ax-HEW20 MCS0 (RU26)	CH 120	5600	8.12	9.00	11	99.63	
	CH 144	5720	8.14	9.00	11		
	CH 100	5500	6.84	7.50	10		
802.11ax-HEW40 MCS0	CH 120	5600	6.77	7.50	10	99.61	
	CH 144	5720	6.48	7.00	10		
	CH 102	5510	7.98	9.00	12		
802.11ax-HEW80 MCS0	CH 126	5630	7.27	8.00	12	99.63	
	CH 142	5710	6.93	7.50	12		
	CH 106	5530	6.91	7.50	12		
802.11ax-HEW80 MCS0	CH 122	5610	7.12	8.00	12	99.63	
	CH 138	5690	6.9	7.50	12		

5.5 WLAN ANT 6							
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %	
802.11a 6Mbps	CH 100	5500	13.14	14.00	16	99.06	
	CH 120	5600	13.64	14.50	16		
	CH 144	5720	13.15	14.00	16		
802.11n-HT20 MCS0	CH 100	5500	13.03	13.50	16	99.63	
	CH 120	5600	13.38	14.00	16		
	CH 144	5720	13.27	14.00	16		
802.11n-HT40 MCS0	CH 102	5510	11.44	12.00	14	99.63	
	CH 126	5630	11.97	12.50	14		
	CH 142	5710	12.01	12.50	14		
802.11ac-VHT20 MCS0	CH 100	5500	10.94	11.50	14	99.63	
	CH 120	5600	10.97	11.50	14		
	CH 144	5720	10.74	11.50	14		
802.11ac-VHT40 MCS0	CH 102	5510	10.82	11.50	13	99.63	
	CH 126	5630	10.98	11.50	13		
	CH 142	5710	10.97	11.50	13		
802.11ac-VHT80 MCS0	CH 106	5530	10.31	11.00	13	99.63	
	CH 122	5610	10.47	11.00	13		
	CH 138	5690	10.54	11.00	13		
802.11ax-HEW20 MCS0 (RU242)	CH 100	5500	10.95	11.50	14	99.63	
	CH 120	5600	10.92	11.50	14		
	CH 144	5720	10.86	11.50	14		
802.11ax-HEW20 MCS0 (RU26)	CH 102	5510	9.69	10.00	10	99.61	
	CH 118	5590	9.52	10.00	10		
	CH 142	5710	9.47	10.00	10		
802.11ax-HEW40 MCS0	CH 102	5510	10.37	11.00	13	99.63	
	CH 126	5630	10.64	11.50	13		
	CH 142	5710	10.69	11.50	13		
802.11ax-HEW80 MCS0	CH 106	5530	9.11	9.50	13	99.63	
	CH 122	5610	10.43	11.00	13		
	CH 138	5690	10.59	11.00	13		

5GHz WLAN ANT 5							
Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %	
802.11a MCS0	CH 149	5745	10.90	11.50	12	99.06	
	CH 157	5785	10.68	11.00	12		
	CH 165	5825	10.54	11.00	12		
802.11n-HT20 MCS0	CH 149	5745	8.22	9.00	10	99.63	
	CH 157	5785	8.04	8.50	10		
	CH 165	5825	7.78	8.50	10		
802.11n-HT40 MCS0	CH 151	5755	10.57	11.00	11	99.63	
	CH 159	5795	10.38	11.00	11		
802.11ax-HEW80 MCS0	CH 149	5745	9.12	10.00			

802.11ac-VHT80 MCS0	CH 155	5775	10.3	11.00	12	99.63
802.11ax-HEW20 MCS0 (RU242)	CH 149	5745	9.11	10.00	11	99.63
	CH 157	5785	9.06	12.50	11	
	CH 165	5825	9.01	9.50	11	
802.11ax-HEW20 MCS0 (RU26)	CH 149	5745	7.42	8.00	10	99.61
	CH 157	5785	7.56	8.00	10	
	CH 165	5825	7.64	8.00	10	
802.11ax-HEW40 MCS0	CH 151	5755	10.33	11.00	12	99.63
	CH 159	5795	10.3	11.00	12	
802.11ax-HEW80 MCS0	CH 155	5775	10.36	11.00	12	99.63

802.11ac-VHT80 MCS0	CH 155	5775	11.45	12.00	13	99.63
802.11ax-HEW20 MCS0 (RU242)	CH 149	5745	11.84	12.50	14	99.63
	CH 157	5785	11.91	12.50	14	
	CH 165	5825	11.82	12.50	14	
802.11ax-HEW20 MCS0 (RU26)	CH 149	5745	10.51	11.00	10	99.61
	CH 157	5785	10.58	11.00	10	
	CH 165	5825	10.62	11.00	10	
802.11ax-HEW40 MCS0	CH 151	5755	11.56	12.00	13	99.63
	CH 159	5795	11.54	12.00	13	
802.11ax-HEW80 MCS0	CH 155	5775	11.52	12.00	13	99.63