



REPORT No.: SZ22100161S02

Annex E Conducted Power

Note:

Conducted power unit: dBm

The target power was recorded in the manufacture document.

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	128	189	251		128	189	251		
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8		
GSM 1 Tx slot	32.48	32.51	32.44	33.50	23.48	23.51	23.44	24.50	0.08
GPRS 1 Tx slot	32.49	32.52	32.45	33.50	23.49	23.52	23.45	24.50	
GPRS 2 Tx slots	31.26	31.34	31.31	32.00	25.26	25.34	25.31	26.00	0.08
GPRS 3 Tx slots	29.25	29.27	29.21	30.00	24.99	25.01	24.95	25.74	0.06
GPRS 4 Tx slots	27.08	27.11	27.05	28.00	24.08	24.11	24.05	25.00	0.06
EDGE 1 Tx slot	26.54	26.58	26.41	27.00	17.54	17.58	17.41	18.00	0.17
EDGE 2 Tx slots	25.36	25.41	25.31	26.00	19.36	19.41	19.31	20.00	0.10
EDGE 3 Tx slots	23.44	23.48	23.26	24.00	19.18	19.22	19.00	19.74	0.22
EDGE 4 Tx slots	21.24	21.34	21.21	22.00	18.24	18.34	18.21	19.00	0.13
Mode		Max.	32.52		Max.	25.34			
Attenuator	Cable Loss : 0.6								

GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)	Ch Delta > 0.5
	512	661	810		512	661	810		
TX Channel	512	661	810		512	661	810		
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8		
GSM 1 Tx slot	29.58	29.61	29.54	30.50	20.58	20.61	20.54	21.50	0.09
GPRS 1 Tx slot	29.59	29.62	29.53	30.50	20.59	20.62	20.53	21.50	
GPRS 2 Tx slots	28.43	28.47	28.33	29.00	22.43	22.47	22.33	23.00	0.14
GPRS 3 Tx slots	26.36	26.37	26.39	27.00	22.10	22.11	22.13	22.74	0.03
GPRS 4 Tx slots	24.06	24.11	24.03	25.00	21.06	21.11	21.03	22.00	0.08
EDGE 1 Tx slot	25.61	25.47	25.36	26.00	16.61	16.47	16.36	17.00	0.25
EDGE 2 Tx slots	24.56	24.58	24.43	25.00	18.56	18.58	18.43	19.00	0.15
EDGE 3 Tx slots	22.37	22.41	22.38	23.00	18.11	18.15	18.12	18.74	0.04
EDGE 4 Tx slots	20.40	20.46	20.41	21.00	17.40	17.46	17.41	18.00	0.06
Mode		Max.	29.62		Max.	22.47			
Attenuator	Cable Loss : 0.8								

Band	TX Channel	WCDMA Band II (dBm)			Tune-up Limit (dBm)	WCDMA Band IV (dBm)			Tune-up Limit (dBm)	WCDMA Band V (dBm)			Tune-up Limit (dBm)		
		9262	9400	9538		1312	1413	1513		4132	4182	4233			
	Rx Channel	9662	9800	9938		1537	1638	1738		4357	4407	4458			
	Frequency (MHz)	1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6			
3GPP Rel 99	RMC 12.2Kbps	23.16	23.27	23.24	24.00	23.11	23.15	23.10	24.00	23.17	23.20	23.15	24.00		
3GPP Rel 6	HSDPA Subtest-1	21.91	22.00	22.00	23.00	22.13	22.21	22.03	23.00	22.38	22.35	22.24	23.00		
3GPP Rel 6	HSDPA Subtest-2	21.88	22.01	21.96	23.00	22.10	22.30	22.02	23.00	22.38	22.40	22.29	23.00		
3GPP Rel 6	HSDPA Subtest-3	21.42	21.50	21.43	23.00	21.58	21.76	21.56	23.00	21.88	21.83	21.70	23.00		
3GPP Rel 6	HSDPA Subtest-4	21.37	21.49	21.45	23.00	21.56	21.64	21.56	23.00	21.89	21.85	21.78	23.00		
3GPP Rel 8	DC-HSDPA Subtest-1	21.91	22.03	21.98	23.00	22.15	22.22	22.00	23.00	22.38	22.34	22.24	23.00		
3GPP Rel 8	DC-HSDPA Subtest-2	21.90	22.05	21.99	23.00	22.14	22.24	22.01	23.00	22.35	22.37	22.26	23.00		
3GPP Rel 8	DC-HSDPA Subtest-3	21.42	21.55	21.52	23.00	21.61	21.73	21.47	23.00	21.84	21.86	21.73	23.00		
3GPP Rel 8	DC-HSDPA Subtest-4	21.39	21.54	21.51	23.00	21.57	21.68	21.54	23.00	21.87	21.83	21.74	23.00		
3GPP Rel 6	HSUPA Subtest-1	21.90	22.03	21.98	23.00	22.11	22.19	22.07	23.00	22.36	22.34	22.22	23.00		
3GPP Rel 6	HSUPA Subtest-2	21.45	21.57	21.49	23.00	21.64	21.74	21.59	23.00	21.84	21.87	21.76	23.00		
3GPP Rel 6	HSUPA Subtest-3	21.91	22.01	21.91	23.00	22.05	22.23	22.00	23.00	22.38	22.37	22.23	23.00		
3GPP Rel 6	HSUPA Subtest-4	21.90	22.03	21.99	23.00	22.14	22.22	22.04	23.00	22.37	22.38	22.25	23.00		
3GPP Rel 6	HSUPA Subtest-5	21.91	22.03	21.94	23.00	22.09	22.19	22.07	23.00	22.31	22.36	22.19	23.00		
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	21.38	21.45	21.45	23.00	21.59	21.75	21.55	23.00	21.86	21.81	21.71	23.00		
Attenuator		Cable Loss			0.8		Cable Loss			0.8		Cable Loss			0.6
Mode		Max.	23.27			Max.	23.15			Max.	23.20				

Band	TX Channel	CDMA2000 BC0 (dBm)			Tune-up Limit (dBm)	CDMA2000 BC1 (dBm)			Tune-up Limit (dBm)	
		1013	384	777		25	600	1175		
	Frequency (MHz)	824.7	836.52	848.31		1851.25	1880	1908.75		
	RC1 SO55	23.15	23.22	23.21	24.00	23.19	23.23	23.20	24.00	
	RC3 SO55	23.11	23.15	23.11	24.00	23.12	23.18	23.16	24.00	
	RC3 SO32 (F+SCH)	23.28	23.34	23.24	24.00	23.24	23.25	23.22	24.00	
	RC3 SO32 (+SCH)	23.11	23.20	23.19	24.00	23.19	23.20	23.19	24.00	
Attenuator		Cable Loss			0.6		Cable Loss			0.8
Mode		Max.	23.34			Max.	23.25			

Band 2 (1900MHz Band) (dBm)							
Part 24E							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				18700	18900	19100	24
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	23.12	23.14	23.07	
20	QPSK	1	49	23.11	23.13	23.06	23
20	QPSK	1	99	23.03	23.10	23.07	
20	QPSK	50	0	22.17	22.29	22.18	
20	QPSK	50	24	22.21	22.15	22.13	23
20	QPSK	50	50	22.18	22.21	22.14	
20	QPSK	100	0	22.21	22.22	22.11	
20	16QAM	1	0	22.48	22.39	22.22	23
20	16QAM	1	49	22.36	22.45	22.40	
20	16QAM	1	99	22.46	22.23	22.50	
20	16QAM	50	0	21.29	21.24	21.28	22
20	16QAM	50	24	21.38	21.23	21.22	
20	16QAM	50	50	21.25	21.28	21.30	
20	16QAM	100	0	21.23	21.25	21.21	22
20	64QAM	1	0	21.33	21.47	21.42	
20	64QAM	1	49	21.36	21.40	21.30	
20	64QAM	1	99	21.46	21.34	21.16	22
20	64QAM	50	0	21.31	21.20	21.20	
20	64QAM	50	24	21.14	21.15	21.22	
20	64QAM	50	50	21.27	21.20	21.25	22
20	64QAM	100	0	21.19	21.22	21.21	
Channel				18675	18900	19125	
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	23.04	23.09	23.00	
15	QPSK	1	37	23.08	23.09	23.03	23
15	QPSK	1	74	22.94	23.09	23.06	
15	QPSK	36	0	22.13	22.19	22.08	
15	QPSK	36	20	22.27	22.08	22.09	23
15	QPSK	36	39	22.17	22.14	22.05	
15	QPSK	75	0	22.16	22.14	22.01	
15	16QAM	1	0	22.44	22.33	22.16	23
15	16QAM	1	37	22.43	22.55	22.35	
15	16QAM	1	74	22.48	22.63	22.49	
15	16QAM	36	0	21.28	21.15	21.22	22
15	16QAM	36	20	21.34	21.14	21.14	
15	16QAM	36	39	21.21	21.26	21.28	
15	16QAM	75	0	21.13	21.21	21.20	22
15	64QAM	1	0	21.30	21.46	21.37	
15	64QAM	1	37	21.30	21.30	21.25	
15	64QAM	1	74	21.44	21.29	21.10	22
15	64QAM	36	0	21.28	21.10	21.13	
15	64QAM	36	20	21.05	21.12	21.15	
15	64QAM	36	39	21.23	21.18	21.17	22
15	64QAM	36	75	21.13	21.19	21.20	
Channel				18650	18900	19150	
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	23.11	23.12	23.05	
10	QPSK	1	25	23.04	23.08	23.00	23
10	QPSK	1	49	22.95	23.09	22.99	
10	QPSK	25	0	22.11	22.28	22.13	
10	QPSK	25	12	22.19	22.06	22.12	23
10	QPSK	25	25	22.09	22.19	22.07	
10	QPSK	50	0	22.12	22.18	22.05	
10	16QAM	1	0	22.42	22.34	22.15	23
10	16QAM	1	25	22.42	22.59	22.39	
10	16QAM	1	49	22.44	22.64	22.45	
10	16QAM	25	0	21.21	21.20	21.23	22
10	16QAM	25	12	21.30	21.16	21.18	
10	16QAM	25	25	21.24	21.19	21.26	
10	16QAM	50	0	21.22	21.19	21.12	22
10	64QAM	1	0	21.23	21.38	21.40	
10	64QAM	1	25	21.34	21.39	21.28	
10	64QAM	1	49	21.41	21.27	21.06	22
10	64QAM	25	0	21.30	21.10	21.11	
10	64QAM	25	12	21.06	21.12	21.16	
10	64QAM	25	25	21.23	21.18	21.19	22
10	64QAM	50	0	21.12	21.13	21.19	
Channel				18625	18900	19175	
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	23.10	23.10	23.01	
5	QPSK	1	12	23.01	23.03	23.05	23
5	QPSK	1	24	23.02	23.08	22.98	
5	QPSK	12	0	22.08	22.24	22.12	
5	QPSK	12	7	22.22	22.10	22.04	23
5	QPSK	12	13	22.15	22.15	22.04	
5	QPSK	25	0	22.19	22.18	22.03	
5	16QAM	1	0	22.38	22.37	22.18	23
5	16QAM	1	12	22.41	22.57	22.38	
5	16QAM	1	24	22.46	22.57	22.42	
5	16QAM	12	0	21.27	21.17	21.24	22
5	16QAM	12	7	21.28	21.18	21.14	
5	16QAM	12	13	21.20	21.20	21.26	
5	16QAM	25	0	21.14	21.16	21.12	22
5	64QAM	1	0	21.24	21.44	21.36	
5	64QAM	1	12	21.27	21.35	21.25	
5	64QAM	1	24	21.43	21.31	21.12	22
5	64QAM	12	0	21.29	21.19	21.17	
5	64QAM	12	7	21.11	21.08	21.16	
5	64QAM	12	13	21.23	21.11	21.24	22
5	64QAM	25	0	21.18	21.19	21.12	
Channel				18615	18900	19185	
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	23.01	23.11	22.97	
3	QPSK	1	8	23.05	23.10	23.01	24
3	QPSK	1	14	22.97	23.00	22.98	
3	QPSK	8	0	22.10	22.22	22.14	

Band 4 (AWS Band) (dBm)							
Part 27L (only on channel required)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20050	20175	20300	24
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	23.12	23.16	23.15	
20	QPSK	1	49	23.06	23.07	23.08	23
20	QPSK	1	99	22.98	23.00	23.03	
20	QPSK	50	0	22.17	22.23	22.10	
20	QPSK	50	24	22.15	22.18	22.19	23
20	QPSK	50	50	22.12	22.15	22.21	
20	QPSK	100	0	22.09	22.18	22.13	
20	16QAM	1	0	21.82	22.07	22.13	23
20	16QAM	1	49	22.07	22.13	22.28	
20	16QAM	1	99	22.14	22.13	22.24	
20	16QAM	50	0	21.20	21.16	21.21	22
20	16QAM	50	24	21.23	21.12	21.16	
20	16QAM	50	50	21.28	21.14	21.15	
20	16QAM	100	0	21.20	21.19	21.17	22
20	64QAM	1	0	21.32	21.26	21.30	
20	64QAM	1	49	21.12	21.14	21.30	
20	64QAM	1	99	21.22	21.23	21.34	22
20	64QAM	50	0	21.14	21.11	21.12	
20	64QAM	50	24	21.13	21.15	21.28	
20	64QAM	50	50	21.17	21.14	21.32	22
20	64QAM	100	0	21.15	21.12	21.23	
Channel				20025	20175	20325	
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	23.03	23.04	23.01	
15	QPSK	1	37	22.96	22.92	23.01	23
15	QPSK	1	74	22.87	22.90	22.94	
15	QPSK	36	0	22.03	22.12	22.03	
15	QPSK	36	20	22.07	22.07	22.10	23
15	QPSK	36	39	22.01	22.01	22.09	
15	QPSK	75	0	21.96	22.09	22.03	
15	16QAM	1	0	22.16	22.35	21.98	23
15	16QAM	1	37	22.44	22.39	22.39	
15	16QAM	1	74	22.06	22.07	22.13	
15	16QAM	36	0	21.07	21.10	21.13	22
15	16QAM	36	20	21.11	21.06	21.10	
15	16QAM	36	39	21.16	21.00	21.09	
15	16QAM	75	0	21.12	21.13	21.10	22
15	64QAM	1	0	21.20	21.19	21.15	
15	64QAM	1	37	21.17	21.20	21.19	
15	64QAM	1	74	21.07	21.13	21.28	22
15	64QAM	36	0	21.08	21.03	21.05	
15	64QAM	36	20	21.03	21.00	21.16	
15	64QAM	36	39	21.02	21.05	21.21	22
15	64QAM	36	75	21.05	20.98	21.16	
Channel				20000	20175	20350	
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	23.00	23.09	23.04	
10	QPSK	1	25	22.94	22.96	22.96	23
10	QPSK	1	49	22.89	22.86	22.89	
10	QPSK	25	0	22.04	22.15	21.97	
10	QPSK	25	12	22.02	22.10	22.11	23
10	QPSK	25	25	22.01	22.07	22.14	
10	QPSK	50	0	21.96	22.04	22.06	
10	16QAM	1	0	22.17	22.40	22.07	23
10	16QAM	1	25	22.38	22.46	22.34	
10	16QAM	1	49	22.22	22.06	22.14	
10	16QAM	25	0	21.11	21.04	21.12	22
10	16QAM	25	12	21.17	20.97	21.05	
10	16QAM	25	25	21.18	21.07	21.04	
10	16QAM	50	0	21.14	21.07	21.08	22
10	64QAM	1	0	21.17	21.13	21.21	
10	64QAM	1	25	21.06	21.07	21.24	

3	QPSK	8	4	22.18	22.12	22.11	23
3	QPSK	8	7	22.14	22.13	22.11	
3	QPSK	15	0	22.11	22.13	22.05	
3	16QAM	1	0	22.38	22.38	22.15	23
3	16QAM	1	8	22.42	22.56	22.38	
3	16QAM	1	14	22.48	22.59	22.47	
3	16QAM	8	0	21.22	21.15	21.21	22
3	16QAM	8	4	21.35	21.15	21.16	
3	16QAM	8	7	21.15	21.21	21.27	
3	16QAM	15	0	21.14	21.17	21.18	22
3	64QAM	1	0	21.32	21.40	21.40	
3	64QAM	1	8	21.32	21.34	21.21	
3	64QAM	1	14	21.44	21.29	21.06	22
3	64QAM	8	0	21.25	21.10	21.10	
3	64QAM	8	4	21.09	21.08	21.12	
3	64QAM	8	7	21.18	21.12	21.21	22
3	64QAM	15	0	21.12	21.14	21.18	
Channel				18607	18900	19193	
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	23.01	23.09	22.98	24
1.4	QPSK	1	3	23.01	23.04	22.97	
1.4	QPSK	1	5	22.97	23.08	23.02	
1.4	QPSK	3	0	23.11	23.06	23.11	
1.4	QPSK	3	1	23.10	23.10	23.08	
1.4	QPSK	3	3	23.08	23.12	23.12	
1.4	QPSK	6	0	22.12	22.12	22.01	23
1.4	16QAM	1	0	22.39	22.36	22.13	23
1.4	16QAM	1	3	22.48	22.56	22.39	
1.4	16QAM	1	5	22.43	22.59	22.49	
1.4	16QAM	3	0	22.21	22.21	22.24	
1.4	16QAM	3	1	22.36	22.15	22.12	
1.4	16QAM	3	3	22.18	22.25	22.20	
1.4	16QAM	6	0	21.16	21.15	21.12	22
1.4	64QAM	1	0	21.23	21.38	21.41	22
1.4	64QAM	1	3	21.33	21.35	21.27	
1.4	64QAM	1	5	21.39	21.33	21.11	
1.4	64QAM	3	0	21.23	21.16	21.19	
1.4	64QAM	3	1	21.10	21.14	21.20	
1.4	64QAM	3	3	21.20	21.13	21.20	
1.4	64QAM	6	0	21.10	21.12	21.13	22

3	QPSK	8	4	22.03	22.11	22.11	23
3	QPSK	8	7	21.98	22.08	22.06	
3	QPSK	15	0	21.96	22.08	22.04	
3	16QAM	1	0	22.14	22.41	22.03	23
3	16QAM	1	8	22.40	22.49	22.34	
3	16QAM	1	14	22.02	22.02	22.16	
3	16QAM	8	0	21.10	21.03	21.11	22
3	16QAM	8	4	21.12	21.05	21.07	
3	16QAM	8	7	21.20	21.02	21.04	
3	16QAM	15	0	21.08	21.07	21.08	22
3	64QAM	1	0	21.21	21.17	21.15	
3	64QAM	1	8	21.20	21.20	21.20	
3	64QAM	1	14	21.13	21.09	21.21	22
3	64QAM	8	0	21.03	21.01	21.03	
3	64QAM	8	4	20.98	21.01	21.18	
3	64QAM	8	7	21.09	21.03	21.22	22
3	64QAM	15	0	21.09	21.04	21.08	
Channel				19957	20175	20393	
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	23.01	23.02	23.02	24
1.4	QPSK	1	3	22.95	22.92	23.00	
1.4	QPSK	1	5	22.91	22.94	22.89	
1.4	QPSK	3	0	23.08	23.15	23.00	
1.4	QPSK	3	1	23.03	23.08	23.11	
1.4	QPSK	3	3	23.06	23.06	23.06	
1.4	QPSK	6	0	21.94	22.04	21.99	23
1.4	16QAM	1	0	22.20	22.40	22.06	23
1.4	16QAM	1	3	22.42	22.49	22.37	
1.4	16QAM	1	5	22.00	22.03	22.13	
1.4	16QAM	3	0	22.12	22.10	22.06	
1.4	16QAM	3	1	22.16	22.00	22.05	
1.4	16QAM	3	3	22.13	22.08	22.05	
1.4	16QAM	6	0	21.14	21.09	21.11	22
1.4	64QAM	1	0	21.17	21.14	21.17	22
1.4	64QAM	1	3	21.06	21.01	21.22	
1.4	64QAM	1	5	21.14	21.10	21.28	
1.4	64QAM	3	0	21.00	21.00	21.06	
1.4	64QAM	3	1	20.98	21.00	21.18	
1.4	64QAM	3	3	21.04	21.07	21.18	
1.4	64QAM	6	0	21.05	21.06	21.16	22

Band 5 (Cellular Band) (dBm)							
Part 22H(only on channel required)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20450	20525	20600	24
Frequency (MHz)				829	836.5	844	
10	QPSK	1	0	23.21	23.22	23.14	24
10	QPSK	1	25	23.17	23.20	23.09	
10	QPSK	1	49	23.09	23.16	22.91	
10	QPSK	25	0	22.27	22.35	22.21	23
10	QPSK	25	12	22.34	22.31	22.26	
10	QPSK	25	25	22.26	22.22	22.25	
10	QPSK	50	0	22.15	22.17	22.14	23
10	16QAM	1	0	22.24	22.14	22.10	
10	16QAM	1	25	22.23	22.41	22.27	
10	16QAM	1	49	22.20	22.21	22.13	22
10	16QAM	25	0	21.19	21.10	21.07	
10	16QAM	25	12	21.11	21.07	21.04	
10	16QAM	25	25	21.19	21.15	21.10	22
10	16QAM	50	0	21.23	21.09	21.06	
10	64QAM	1	0	21.25	21.32	21.21	
10	64QAM	1	25	21.12	21.10	21.16	22
10	64QAM	1	49	21.27	21.07	21.23	
10	64QAM	25	0	21.22	21.15	21.10	
10	64QAM	25	12	21.30	21.10	21.15	22
10	64QAM	25	25	21.14	21.15	21.10	
10	64QAM	50	0	21.15	21.12	21.14	
Channel				20425	20525	20625	24
Frequency (MHz)				826.5	836.5	846.5	
5	QPSK	1	0	23.18	23.19	23.11	24
5	QPSK	1	12	23.14	23.14	23.07	
5	QPSK	1	24	23.04	23.11	22.85	
5	QPSK	12	0	22.26	22.32	22.08	23
5	QPSK	12	7	22.30	22.28	22.23	
5	QPSK	12	13	22.16	22.18	22.15	
5	QPSK	25	0	22.20	22.18	22.23	23
5	16QAM	1	0	22.34	22.25	22.20	
5	16QAM	1	12	22.33	22.53	22.39	
5	16QAM	1	24	22.32	22.29	22.25	22
5	16QAM	12	0	21.25	21.21	21.12	
5	16QAM	12	7	21.19	21.18	21.10	
5	16QAM	12	13	21.24	21.23	21.17	22
5	16QAM	25	0	21.33	21.14	21.11	
5	64QAM	1	0	21.19	21.26	21.19	
5	64QAM	1	12	21.02	21.09	21.11	22
5	64QAM	1	24	21.22	20.98	21.14	
5	64QAM	12	0	21.15	21.11	21.04	
5	64QAM	12	7	21.28	21.05	21.09	22
5	64QAM	12	13	21.06	21.06	21.00	
5	64QAM	25	0	21.24	21.22	21.25	
Channel				20415	20525	20635	24
Frequency (MHz)				825.5	836.5	847.5	
3	QPSK	1	0	23.09	23.17	23.13	24
3	QPSK	1	8	23.16	23.14	23.02	
3	QPSK	1	14	23.00	23.09	22.83	
3	QPSK	8	0	22.20	22.31	22.09	23
3	QPSK	8	4	22.30	22.28	22.21	
3	QPSK	8	7	22.02	22.07	22.05	
3	QPSK	15	0	22.07	22.06	22.10	23
3	16QAM	1	0	22.21	22.05	22.06	
3	16QAM	1	8	22.21	22.39	22.20	
3	16QAM	1	14	22.13	22.11	22.11	22
3	16QAM	8	0	21.16	21.04	21.00	
3	16QAM	8	4	21.02	21.04	21.03	
3	16QAM	8	7	21.13	21.05	21.02	22
3	16QAM	15	0	21.19	21.06	21.03	
3	64QAM	1	0	21.17	21.23	21.18	
3	64QAM	1	8	21.11	21.05	21.15	22
3	64QAM	1	14	21.23	21.04	21.20	
3	64QAM	8	0	21.17	21.06	21.06	
3	64QAM	8	4	21.26	21.09	21.11	22
3	64QAM	8	7	21.12	21.06	21.04	
3	64QAM	15	0	21.05	21.11	21.05	
Channel				20407	20525	20643	24
Frequency (MHz)				824.7	836.5	848.3	
1.4	QPSK	1	0	23.19	23.20	23.07	24
1.4	QPSK	1	3	23.12	23.12	23.01	
1.4	QPSK	1	5	23.08	23.13	22.86	
1.4	QPSK	3	0	23.08	23.19	22.93	23
1.4	QPSK	3	1	23.14	23.11	23.04	
1.4	QPSK	3	3	23.03	23.07	23.10	
1.4	QPSK	6	0	22.14	22.04	22.05	23
1.4	16QAM	1	0	22.21	22.09	22.02	
1.4	16QAM	1	3	22.21	22.39	22.17	
1.4	16QAM	1	5	22.19	22.16	22.08	23
1.4	16QAM	3	0	22.24	22.17	22.19	
1.4	16QAM	3	1	22.23	22.18	22.12	
1.4	16QAM	3	3	22.24	22.24	22.22	22
1.4	16QAM	6	0	21.35	21.21	21.18	
1.4	64QAM	1	0	21.38	21.40	21.26	
1.4	64QAM	1	3	21.19	21.16	21.21	22
1.4	64QAM	1	5	21.35	21.11	21.35	
1.4	64QAM	3	0	21.29	21.28	21.21	
1.4	64QAM	3	1	21.36	21.17	21.20	22
1.4	64QAM	3	3	21.19	21.19	21.16	
1.4	64QAM	6	0	21.27	21.24	21.24	

Band 7 (2600MHz Band) (dBm)							
Part 27							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20850	21100	21350	24
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	23.12	23.18	23.14	24
20	QPSK	1	49	23.04	23.11	23.16	
20	QPSK	1	99	23.15	23.16	23.17	
20	QPSK	50	0	22.25	22.38	22.37	23
20	QPSK	50	24	22.32	22.37	22.36	
20	QPSK	50	50	22.35	22.34	22.36	
20	QPSK	100	0	22.40	22.41	22.33	23
20	16QAM	1	0	22.26	22.20	22.25	
20	16QAM	1	49	22.33	22.32	22.24	
20	16QAM	1	99	22.34	22.39	22.35	22
20	16QAM	50	0	21.24	21.39	21.45	
20	16QAM	50	24	21.28	21.33	21.25	
20	16QAM	50	50	21.27	21.38	21.23	22
20	16QAM	100	0	21.26	21.31	21.36	
20	64QAM	1	0	21.29	21.33	21.37	
20	64QAM	1	49	21.33	21.39	21.14	22
20	64QAM	1	99	21.28	21.15	21.05	
20	64QAM	50	0	21.25	21.29	21.33	
20	64QAM	50	24	21.25	21.38	21.17	22
20	64QAM	50	50	21.22	21.37	21.31	
20	64QAM	100	0	21.30	21.29	21.19	
Channel				20825	21100	21375	24
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	23.06	23.16	23.10	24
15	QPSK	1	37	22.96	23.03	23.08	
15	QPSK	1	74	23.08	23.13	23.15	
15	QPSK	36	0	22.22	22.37	22.29	23
15	QPSK	36	20	22.22	22.35	22.30	
15	QPSK	36	39	22.29	22.33	22.34	
15	QPSK	75	0	22.32	22.29	22.24	23
15	16QAM	1	0	22.22	22.19	22.17	
15	16QAM	1	37	22.28	22.23	22.23	
15	16QAM	1	74	22.31	22.38	22.25	22
15	16QAM	36	0	21.17	21.37	21.44	
15	16QAM	36	20	21.25	21.24	21.20	
15	16QAM	36	39	21.23	21.37	21.16	22
15	16QAM	75	0	21.24	21.30	21.35	
15	64QAM	1	0	21.25	21.23	21.35	
15	64QAM	1	37	21.24	21.34	21.10	22
15	64QAM	1	74	21.20	21.10	21.03	
15	64QAM	36	0	21.15	21.21	21.24	
15	64QAM	36	20	21.20	21.34	21.14	22
15	64QAM	36	39	21.12	21.33	21.30	
15	64QAM	75	0	21.29	21.21	21.17	
Channel				20800	21100	21400	24
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	23.00	23.13	23.11	24
10	QPSK	1	25	23.00	23.09	23.06	
10	QPSK	1	49	23.07	23.07	23.10	
10	QPSK	25	0	22.17	22.36	22.27	23
10	QPSK	25	12	22.27	22.33	22.31	
10	QPSK	25	25	22.30	22.24	22.35	
10	QPSK	50	0	22.39	22.36	22.31	23
10	16QAM	1	0	22.18	22.16	22.17	
10	16QAM	1	25	22.29	22.30	22.14	
10	16QAM	1	49	22.28	22.30	22.33	22
10	16QAM	25	0	21.22	21.30	21.43	
10	16QAM	25	12	21.25	21.30	21.15	
10	16QAM	25	25	21.24	21.30	21.17	22
10	16QAM	50	0	21.21	21.30	21.35	
10	64QAM	1	0	21.28	21.31	21.36	
10	64QAM	1	25	21.24	21.34	21.11	22
10	64QAM	1	49	21.24	21.05	20.97	
10	64QAM	25	0	21.16	21.23	21.28	
10	64QAM	25	12	21.21	21.37	21.15	22
10	64QAM	25	25	21.19	21.27	21.25	
10	64QAM	50	0	21.23	21.28	21.11	
Channel				20775	21100	21425	24

Band 12 (700MHz Low Band) (dBm) Part 27F(only on channel required)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				23060	23095	23130	24
Frequency (MHz)				704	707.5	711	
10	QPSK	1	0	23.06	23.11	22.99	
10	QPSK	1	25	22.99	23.02	23.03	23
10	QPSK	1	49	22.89	23.04	23.06	
10	QPSK	25	0	22.22	22.27	22.26	23
10	QPSK	25	12	22.24	22.15	22.22	
10	QPSK	25	25	22.24	22.19	22.16	22
10	QPSK	50	0	22.18	22.27	22.23	
10	16QAM	1	0	22.42	22.39	22.26	23
10	16QAM	1	25	22.17	22.24	22.24	
10	16QAM	1	49	22.22	22.17	22.28	22
10	16QAM	25	0	21.20	21.22	21.33	
10	16QAM	25	12	21.18	21.23	21.20	22
10	16QAM	25	25	21.30	21.27	21.29	
10	16QAM	50	0	21.34	21.28	21.25	22
10	64QAM	1	0	21.34	21.29	21.19	
10	64QAM	1	25	21.40	21.35	21.33	22
10	64QAM	1	49	21.46	21.48	21.42	
10	64QAM	25	0	21.18	21.38	21.22	22
10	64QAM	25	12	21.25	21.31	21.33	
10	64QAM	25	25	21.20	21.27	21.21	22
10	64QAM	50	0	21.24	21.22	21.25	
Channel				23035	23095	23155	24
Frequency (MHz)				701.5	707.5	713.5	
5	QPSK	1	0	22.86	23.01	22.89	
5	QPSK	1	12	22.94	23.01	22.94	23
5	QPSK	1	24	22.88	22.99	23.00	
5	QPSK	12	0	22.19	22.20	22.22	23
5	QPSK	12	7	22.15	22.10	22.19	
5	QPSK	12	13	22.16	22.11	22.15	23
5	QPSK	25	0	22.17	22.14	22.19	
5	16QAM	1	0	22.38	22.34	22.16	23
5	16QAM	1	12	22.07	22.22	22.22	
5	16QAM	1	24	22.17	22.16	22.21	22
5	16QAM	12	0	21.11	21.20	21.25	
5	16QAM	12	7	21.17	21.15	21.12	22
5	16QAM	12	13	21.22	21.19	21.23	
5	16QAM	25	0	21.32	21.18	21.23	22
5	64QAM	1	0	21.32	21.21	21.15	
5	64QAM	1	12	21.32	21.28	21.31	22
5	64QAM	1	24	21.42	21.44	21.32	
5	64QAM	12	0	21.14	21.33	21.19	22
5	64QAM	12	7	21.18	21.28	21.26	
5	64QAM	12	13	21.16	21.22	21.12	22
5	64QAM	25	0	21.23	21.19	21.24	
Channel				23025	23095	23165	24
Frequency (MHz)				700.5	707.5	714.5	
3	QPSK	1	0	22.91	23.09	22.97	
3	QPSK	1	8	22.97	22.97	23.02	23
3	QPSK	1	14	22.87	23.03	22.96	
3	QPSK	8	0	22.21	22.21	22.21	23
3	QPSK	8	4	22.19	22.05	22.18	
3	QPSK	8	7	22.15	22.14	22.09	23
3	QPSK	15	0	22.12	22.14	22.18	
3	16QAM	1	0	22.35	22.34	22.16	22
3	16QAM	1	8	22.12	22.17	22.22	
3	16QAM	1	14	22.12	22.12	22.26	22
3	16QAM	8	0	21.18	21.16	21.31	
3	16QAM	8	4	21.09	21.13	21.12	22
3	16QAM	8	7	21.27	21.23	21.24	
3	16QAM	15	0	21.33	21.23	21.15	22
3	64QAM	1	0	21.30	21.24	21.15	
3	64QAM	1	8	21.37	21.34	21.25	22
3	64QAM	1	14	21.39	21.41	21.35	
3	64QAM	8	0	21.16	21.37	21.12	22
3	64QAM	8	4	21.16	21.23	21.29	
3	64QAM	8	7	21.19	21.20	21.15	22
3	64QAM	15	0	21.18	21.16	21.17	
Channel				23017	23095	23173	24
Frequency (MHz)				699.7	707.5	715.3	
1.4	QPSK	1	0	22.90	23.10	22.91	
1.4	QPSK	1	3	22.97	22.96	23.00	23
1.4	QPSK	1	5	22.88	22.94	22.99	
1.4	QPSK	3	0	23.01	23.05	23.05	23
1.4	QPSK	3	1	23.06	22.94	23.03	
1.4	QPSK	3	3	22.98	22.94	22.92	23
1.4	QPSK	6	0	22.13	22.13	22.15	
1.4	16QAM	1	0	22.37	22.32	22.24	23
1.4	16QAM	1	3	22.10	22.15	22.17	
1.4	16QAM	1	5	22.21	22.07	22.25	23
1.4	16QAM	3	0	22.11	22.21	22.25	
1.4	16QAM	3	1	22.12	22.14	22.11	22
1.4	16QAM	3	3	22.27	22.22	22.25	
1.4	16QAM	6	0	21.28	21.19	21.21	22
1.4	64QAM	1	0	21.32	21.21	21.11	
1.4	64QAM	1	3	21.32	21.27	21.29	22
1.4	64QAM	1	5	21.45	21.43	21.36	
1.4	64QAM	3	0	21.16	21.31	21.21	22
1.4	64QAM	3	1	21.16	21.24	21.32	
1.4	64QAM	3	3	21.15	21.23	21.11	22
1.4	64QAM	6	0	21.22	21.12	21.24	

Band 17 (700MHz Band) (dBm) 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	24
Frequency (MHz)				709	710	711	
10	QPSK	1	0	23.05	23.07	22.92	
10	QPSK	1	25	23.04	23.06	23.02	23
10	QPSK	1	49	22.95	23.03	23.05	
10	QPSK	25	0	22.15	22.16	22.14	23
10	QPSK	25	12	22.12	22.11	22.11	
10	QPSK	25	25	22.13	22.07	22.08	22
10	QPSK	50	0	22.14	22.12	22.12	
10	16QAM	1	0	22.26	22.42	22.09	23
10	16QAM	1	25	22.08	22.14	22.19	
10	16QAM	1	49	22.22	22.28	22.30	22
10	16QAM	25	0	21.15	21.19	21.07	
10	16QAM	25	12	21.21	21.23	21.22	22
10	16QAM	25	25	21.23	21.17	21.16	
10	16QAM	50	0	21.08	21.12	21.13	22
10	64QAM	1	0	21.13	21.32	21.21	
10	64QAM	1	25	21.36	21.40	21.27	22
10	64QAM	1	49	21.21	21.20	21.18	
10	64QAM	25	0	21.09	21.21	21.10	22
10	64QAM	25	12	21.08	21.15	21.12	
10	64QAM	25	25	21.16	21.19	21.15	22
10	64QAM	50	0	21.12	21.08	21.13	
Channel				23755	23790	23825	24
Frequency (MHz)				706.5	710	713.5	
5	QPSK	1	0	23.04	23.05	22.91	
5	QPSK	1	12	22.97	23.00	23.01	23
5	QPSK	1	24	22.92	22.96	22.99	
5	QPSK	12	0	22.08	22.11	22.11	23
5	QPSK	12	7	22.03	22.01	22.03	
5	QPSK	12	13	22.03	22.00	22.06	23
5	QPSK	25	0	22.09	22.05	22.07	
5	16QAM	1	0	22.23	22.32	22.02	23
5	16QAM	1	12	22.07	22.07	22.09	
5	16QAM	1	24	22.13	22.21	22.20	22
5	16QAM	12	0	21.12	21.15	21.00	
5	16QAM	12	7	21.13	21.14	21.18	22
5	16QAM	12	13	21.22	21.13	21.08	
5	16QAM	25	0	21.04	21.11	21.04	22
5	64QAM	1	0	21.10	21.31	21.17	
5	64QAM	1	12	21.35	21.35	21.19	22
5	64QAM	1	24	21.13	21.19	21.14	
5	64QAM	12	0	20.99	21.14	21.00	22
5	64QAM	12	7	20.99	21.10	21.09	
5	64QAM	12	13	21.13	21.15	21.06	22
5	64QAM	25	0	21.03	21.07	21.11	

Band 18 (835MHz Band) (dBm)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel					23925		
Frequency (MHz)					822.5		
15	QPSK	1	0		23.15		24
15	QPSK	1	37		22.96		
15	QPSK	1	74		22.96		
15	QPSK	36	0		22.29		23
15	QPSK	36	20		22.02		
15	QPSK	36	39		22.06		
15	QPSK	75	0		22.06		23
15	16QAM	1	0		22.11		
15	16QAM	1	37		22.42		
15	16QAM	1	74		22.34		22
15	16QAM	36	0		21.27		
15	16QAM	36	20		21.24		
15	16QAM	36	39		21.18		22
15	16QAM	75	0		21.25		
15	64QAM	1	0		21.38		
15	64QAM	1	25		21.18		22
15	64QAM	1	49		21.05		
15	64QAM	25	0		21.37		
15	64QAM	25	12		21.20		22
15	64QAM	25	25		21.27		
15	64QAM	50	0		21.38		
Channel				23900	23925	23950	Tune-up limit (dBm)
Frequency (MHz)				820	822.5	825	
10	QPSK	1	0	23.06	23.02	22.98	24
10	QPSK	1	25	23.05	23.01	23.00	
10	QPSK	1	49	22.97	23.03	23.02	
10	QPSK	25	0	22.13	22.31	22.47	23
10	QPSK	25	12	22.25	22.34	22.42	
10	QPSK	25	25	22.08	22.36	22.42	
10	QPSK	50	0	22.11	22.28	22.41	23
10	16QAM	1	0	22.59	22.64	22.36	
10	16QAM	1	25	22.76	22.32	22.69	
10	16QAM	1	49	22.60	22.65	22.81	22
10	16QAM	25	0	21.04	21.07	21.28	
10	16QAM	25	12	21.04	21.11	21.23	
10	16QAM	25	25	21.56	21.20	21.23	22
10	16QAM	50	0	21.05	21.17	21.21	
10	64QAM	1	0	20.97	21.55	20.98	
10	64QAM	1	25	21.01	21.22	21.06	22
10	64QAM	1	49	21.06	21.06	20.98	
10	64QAM	25	0	21.12	21.17	21.41	
10	64QAM	25	12	21.25	21.33	21.27	22
10	64QAM	25	25	21.10	21.28	21.30	
10	64QAM	50	0	21.07	21.26	21.42	
Channel				23875	23925	23975	Tune-up limit (dBm)
Frequency (MHz)				817.5	822.5	827.5	
5	QPSK	1	0	22.96	22.93	22.98	24
5	QPSK	1	12	22.87	22.95	22.87	
5	QPSK	1	24	22.92	22.88	22.94	
5	QPSK	12	0	22.19	22.03	22.22	23
5	QPSK	12	7	22.36	22.10	21.99	
5	QPSK	12	13	22.36	22.09	22.20	
5	QPSK	25	0	22.21	22.01	22.11	23
5	16QAM	1	0	22.32	22.26	22.27	
5	16QAM	1	12	22.31	22.20	22.23	
5	16QAM	1	24	22.29	22.14	22.14	22
5	16QAM	12	0	21.63	21.26	21.33	
5	16QAM	12	7	21.57	21.24	21.28	
5	16QAM	12	13	21.33	21.30	21.24	22
5	16QAM	25	0	21.40	21.27	21.37	
5	64QAM	1	0	21.10	21.54	21.33	
5	64QAM	1	12	21.40	21.50	21.24	22
5	64QAM	1	24	21.34	21.50	21.40	
5	64QAM	12	0	21.23	21.28	21.18	
5	64QAM	12	7	21.23	21.32	21.18	22
5	64QAM	12	13	21.50	21.38	21.17	
5	64QAM	25	0	21.50	21.36	21.15	

Band 19 (835MHz Band) (dBm)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel					24075		
Frequency (MHz)					837.5		
15	QPSK	1	0		23.19		24
15	QPSK	1	37		23.10		
15	QPSK	1	74		23.09		
15	QPSK	36	0		22.55		23
15	QPSK	36	20		22.30		
15	QPSK	36	39		22.17		
15	QPSK	75	0		22.18		23
15	16QAM	1	0		22.31		
15	16QAM	1	37		22.23		
15	16QAM	1	74		22.16		22
15	16QAM	36	0		21.38		
15	16QAM	36	20		21.27		
15	16QAM	36	39		21.34		22
15	16QAM	75	0		21.44		
15	64QAM	1	0		21.46		
15	64QAM	1	25		21.28		22
15	64QAM	1	49		21.24		
15	64QAM	25	0		21.45		
15	64QAM	25	12		21.45		22
15	64QAM	25	25		21.51		
15	64QAM	50	0		21.48		
Channel				24050	24075	24100	Tune-up limit (dBm)
Frequency (MHz)				835	837.5	840	
10	QPSK	1	0	23.07	23.11	23.08	24
10	QPSK	1	25	23.10	23.09	23.02	
10	QPSK	1	49	22.96	23.09	23.01	
10	QPSK	25	0	22.49	22.30	22.16	23
10	QPSK	25	12	22.45	22.27	22.06	
10	QPSK	25	25	22.44	22.28	22.13	
10	QPSK	50	0	22.45	22.33	22.15	23
10	16QAM	1	0	22.17	22.49	22.26	
10	16QAM	1	25	22.26	22.35	22.40	
10	16QAM	1	49	22.20	22.19	22.17	22
10	16QAM	25	0	21.46	21.60	21.89	
10	16QAM	25	12	21.47	21.63	21.71	
10	16QAM	25	25	21.64	21.52	21.58	22
10	16QAM	50	0	21.81	21.68	21.70	
10	64QAM	1	0	21.54	21.54	21.36	
10	64QAM	1	25	21.64	21.36	21.38	22
10	64QAM	1	49	21.36	21.35	21.35	
10	64QAM	25	0	21.71	21.48	21.43	
10	64QAM	25	12	21.47	21.49	21.42	22
10	64QAM	25	25	21.37	21.50	21.25	
10	64QAM	50	0	21.67	21.46	21.39	
Channel				24025	24075	24125	Tune-up limit (dBm)
Frequency (MHz)				832.5	837.5	842.5	
5	QPSK	1	0	23.06	23.11	23.07	24
5	QPSK	1	12	23.01	23.05	23.07	
5	QPSK	1	24	22.97	23.09	23.09	
5	QPSK	12	0	22.43	22.25	22.14	23
5	QPSK	12	7	22.53	22.24	22.24	
5	QPSK	12	13	22.42	22.19	22.13	
5	QPSK	25	0	22.46	22.27	22.32	23
5	16QAM	1	0	22.17	22.17	22.18	
5	16QAM	1	12	22.21	22.11	22.08	
5	16QAM	1	24	22.26	22.26	22.31	22
5	16QAM	12	0	21.79	21.61	21.59	
5	16QAM	12	7	21.64	21.66	21.35	
5	16QAM	12	13	21.76	21.61	21.40	22
5	16QAM	25	0	21.31	21.45	21.42	
5	64QAM	1	0	21.55	21.37	21.35	
5	64QAM	1	12	21.44	21.55	21.36	22
5	64QAM	1	24	21.38	21.35	21.35	
5	64QAM	12	0	21.65	21.43	21.26	
5	64QAM	12	7	21.24	21.56	21.27	22
5	64QAM	12	13	21.64	21.53	21.19	
5	64QAM	25	0	21.64	21.43	21.25	

Band 26 for FCC (dBm) (only on channel required)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				26765	26865	26965	24
Frequency (MHz)				821.5	831.5	841.5	
15	QPSK	1	0	23.21	23.22	23.17	24
15	QPSK	1	37	23.19	23.13	23.20	
15	QPSK	1	74	23.18	23.20	22.87	
15	QPSK	36	0	22.30	22.33	22.24	23
15	QPSK	36	20	22.26	22.30	22.16	
15	QPSK	36	39	22.31	22.32	22.26	
15	QPSK	75	0	22.28	22.22	22.19	23
15	16QAM	1	0	22.30	22.14	22.28	
15	16QAM	1	37	22.14	22.17	22.15	
15	16QAM	1	74	22.01	22.11	22.06	22
15	16QAM	36	0	21.27	21.28	21.21	
15	16QAM	36	20	21.00	21.21	21.20	
15	16QAM	36	39	21.26	21.29	21.27	22
15	16QAM	75	0	21.32	21.31	21.25	
15	64QAM	1	0	21.17	21.29	21.30	
15	64QAM	1	37	21.33	21.29	21.26	22
15	64QAM	1	74	21.16	21.14	21.02	
15	64QAM	36	0	21.30	21.20	21.24	
15	64QAM	36	20	21.21	21.23	21.12	22
15	64QAM	36	39	21.25	21.27	21.23	
15	64QAM	75	0	21.21	21.31	21.16	
Channel				26740	26865	26990	24
Frequency (MHz)				819	831.5	844	
10	QPSK	1	0	23.11	23.19	23.14	24
10	QPSK	1	25	23.13	23.07	23.10	
10	QPSK	1	49	23.14	23.16	22.81	
10	QPSK	25	0	22.24	22.28	22.15	23
10	QPSK	25	12	22.22	22.28	22.08	
10	QPSK	25	25	22.30	22.27	22.18	
10	QPSK	50	0	22.26	22.15	22.52	23
10	16QAM	1	0	22.25	22.13	22.18	
10	16QAM	1	25	22.06	22.15	22.08	
10	16QAM	1	49	21.91	22.02	22.04	22
10	16QAM	25	0	21.17	21.27	21.11	
10	16QAM	25	12	20.99	21.19	21.17	
10	16QAM	25	25	21.18	21.19	21.20	22
10	16QAM	50	0	21.24	21.25	21.20	
10	64QAM	1	0	21.11	21.23	21.28	
10	64QAM	1	25	21.31	21.26	21.17	22
10	64QAM	1	49	21.13	21.13	20.98	
10	64QAM	25	0	21.23	21.14	21.17	
10	64QAM	25	12	21.18	21.22	21.11	22
10	64QAM	25	25	21.16	21.26	21.16	
10	64QAM	50	0	21.14	21.24	21.07	
Channel				26715	26865	27015	24
Frequency (MHz)				816.5	831.5	846.5	
5	QPSK	1	0	23.17	23.20	23.14	24
5	QPSK	1	12	23.14	23.07	23.16	
5	QPSK	1	24	23.10	23.11	22.82	
5	QPSK	12	0	22.20	22.31	22.15	23
5	QPSK	12	7	22.19	22.21	22.08	
5	QPSK	12	13	22.26	22.27	22.21	
5	QPSK	25	0	22.25	22.16	22.50	23
5	16QAM	1	0	22.25	22.10	22.25	
5	16QAM	1	12	22.08	22.15	22.10	
5	16QAM	1	24	21.96	22.04	21.96	22
5	16QAM	12	0	21.26	21.20	21.19	
5	16QAM	12	7	20.97	21.20	21.16	
5	16QAM	12	13	21.24	21.23	21.23	22
5	16QAM	25	0	21.22	21.27	21.21	
5	64QAM	1	0	21.09	21.27	21.23	
5	64QAM	1	12	21.24	21.25	21.17	22
5	64QAM	1	24	21.10	21.09	20.96	
5	64QAM	12	0	21.22	21.13	21.20	
5	64QAM	12	7	21.11	21.21	21.05	22
5	64QAM	12	13	21.16	21.26	21.18	
5	64QAM	25	0	21.13	21.24	21.13	
Channel				26705	26865	27025	24
Frequency (MHz)				815.5	831.5	847.5	
3	QPSK	1	0	23.12	23.16	23.15	24
3	QPSK	1	8	23.11	23.07	23.10	
3	QPSK	1	14	23.15	23.16	22.77	
3	QPSK	8	0	22.24	22.26	22.14	23
3	QPSK	8	4	22.19	22.27	22.06	
3	QPSK	8	7	22.26	22.25	22.22	
3	QPSK	15	0	22.22	22.22	22.57	23
3	16QAM	1	0	22.27	22.04	22.26	
3	16QAM	1	8	22.13	22.12	22.07	
3	16QAM	1	14	21.94	22.01	22.05	22
3	16QAM	8	0	21.22	21.25	21.13	
3	16QAM	8	4	20.97	21.12	21.18	
3	16QAM	8	7	21.19	21.24	21.24	22
3	16QAM	15	0	21.24	21.27	21.15	
3	64QAM	1	0	21.13	21.24	21.29	
3	64QAM	1	8	21.28	21.22	21.23	22
3	64QAM	1	14	21.07	21.04	21.18	
3	64QAM	8	0	21.26	21.17	21.19	
3	64QAM	8	4	21.11	21.15	21.05	22
3	64QAM	8	7	21.22	21.21	21.20	
3	64QAM	15	0	21.19	21.25	21.09	
Channel				26697	26865	27033	24
Frequency (MHz)				814.7	831.5	848.3	
1.4	QPSK	1	0	23.13	23.17	23.14	24
1.4	QPSK	1	3	23.13	23.12	23.11	
1.4	QPSK	1	5	23.15	23.11	23.07	
1.4	QPSK	3	0	23.21	23.06	23.02	

Band 66 (dBm)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				132072	132322	132572	24
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	23.09	23.21	23.12	24
20	QPSK	1	49	22.90	23.02	22.87	
20	QPSK	1	99	22.98	22.98	22.95	
20	QPSK	50	0	22.10	22.15	22.13	23
20	QPSK	50	24	22.03	22.11	22.10	
20	QPSK	50	50	22.14	22.09	22.11	
20	QPSK	100	0	22.10	22.15	22.12	23
20	16QAM	1	0	22.40	22.35	22.37	
20	16QAM	1	49	22.27	22.36	22.13	
20	16QAM	1	99	22.21	22.28	22.36	22
20	16QAM	50	0	21.21	21.14	21.13	
20	16QAM	50	24	21.33	21.28	21.16	
20	16QAM	50	50	21.26	21.25	21.22	22
20	16QAM	100	0	21.27	21.24	21.14	
20	64QAM	1	0	21.50	21.47	21.48	
20	64QAM	1	49	21.38	21.48	21.22	22
20	64QAM	1	99	21.29	21.42	21.43	
20	64QAM	50	0	21.18	21.13	21.13	
20	64QAM	50	24	21.25	21.23	21.15	22
20	64QAM	50	50	21.18	21.19	21.19	
20	64QAM	100	0	21.29	21.18	21.07	
Channel				132047	132322	132597	24
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	22.80	23.00	22.96	24
15	QPSK	1	37	22.88	22.95	22.77	
15	QPSK	1	74	22.92	22.97	22.91	
15	QPSK	36	0	21.88	21.92	21.91	23
15	QPSK	36	20	21.94	22.07	22.09	
15	QPSK	36	39	22.05	22.05	22.06	
15	QPSK	75	0	21.90	21.94	22.06	23
15	16QAM	1	0	22.38	22.28	22.35	
15	16QAM	1	37	22.22	22.32	22.09	
15	16QAM	1	74	22.16	22.19	22.29	22
15	16QAM	36	0	21.19	21.09	21.11	
15	16QAM	36	20	21.22	21.26	21.15	
15	16QAM	36	39	21.20	21.16	21.14	22
15	16QAM	75	0	21.20	21.16	21.04	
15	64QAM	1	0	21.45	21.43	21.41	
15	64QAM	1	37	21.29	21.38	21.18	22
15	64QAM	1	74	21.18	21.37	21.41	
15	64QAM	36	0	21.06	21.12	21.05	
15	64QAM	36	20	21.15	21.13	21.14	22
15	64QAM	36	39	21.09	21.17	21.09	
15	64QAM	75	0	21.27	21.16	21.00	
Channel				132022	132322	132622	24
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	22.90	23.00	22.98	24
10	QPSK	1	25	22.78	22.99	22.79	
10	QPSK	1	49	22.88	22.92	22.86	
10	QPSK	25	0	21.88	21.96	21.97	23
10	QPSK	25	12	21.96	22.04	22.02	
10	QPSK	25	25	22.05	22.04	22.05	
10	QPSK	50	0	21.96	21.85	22.11	23
10	16QAM	1	0	22.39	22.29	22.33	
10	16QAM	1	25	22.20	22.32	22.05	
10	16QAM	1	49	22.17	22.23	22.28	22
10	16QAM	25	0	21.09	21.11	21.05	
10	16QAM	25	12	21.30	21.22	21.11	
10	16QAM	25	25	21.15	21.22	21.15	22
10	16QAM	50	0	21.22	21.15	21.10	
10	64QAM	1	0	21.38	21.45	21.38	
10	64QAM	1	25	21.36	21.42	21.16	22
10	64QAM	1	49	21.18	21.39	21.37	

1.4	QPSK	3	1	23.08	23.09	23.01	
1.4	QPSK	3	3	23.06	23.05	23.02	
1.4	QPSK	6	0	22.22	22.16	22.16	23
1.4	16QAM	1	0	22.29	22.04	22.26	
1.4	16QAM	1	3	22.06	22.09	22.10	
1.4	16QAM	1	5	21.97	22.10	21.96	
1.4	16QAM	3	0	22.25	22.18	22.11	
1.4	16QAM	3	1	22.06	22.11	22.14	
1.4	16QAM	3	3	22.24	22.20	22.24	
1.4	16QAM	6	0	21.28	21.21	21.23	22
1.4	64QAM	1	0	21.12	21.28	21.21	
1.4	64QAM	1	3	21.32	21.23	21.24	
1.4	64QAM	1	5	21.15	21.09	20.95	
1.4	64QAM	3	0	21.20	21.14	21.18	
1.4	64QAM	3	1	21.18	21.20	21.11	
1.4	64QAM	3	3	21.17	21.22	21.16	
1.4	64QAM	6	0	21.12	21.24	21.14	22

3	QPSK	8	4	21.99	22.02	22.02	
3	QPSK	8	7	22.05	22.05	22.02	23
3	QPSK	15	0	21.94	21.85	22.02	
3	16QAM	1	0	22.35	22.32	22.27	
3	16QAM	1	8	22.23	22.28	22.11	
3	16QAM	1	14	22.09	22.25	22.35	
3	16QAM	8	0	21.11	21.11	21.06	
3	16QAM	8	4	21.24	21.21	21.14	
3	16QAM	8	7	21.18	21.17	21.21	
3	16QAM	15	0	21.17	21.15	21.09	
3	64QAM	1	0	21.49	21.40	21.47	
3	64QAM	1	8	21.36	21.43	21.20	
3	64QAM	1	14	21.24	21.36	21.33	
3	64QAM	8	0	21.09	21.11	21.03	
3	64QAM	8	4	21.24	21.13	21.14	
3	64QAM	8	7	21.14	21.09	21.13	
3	64QAM	15	0	21.25	21.12	21.01	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	22.85	23.01	22.97	
1.4	QPSK	1	3	22.88	22.96	22.85	
1.4	QPSK	1	5	22.89	22.97	22.85	
1.4	QPSK	3	0	22.99	22.97	23.11	
1.4	QPSK	3	1	23.02	23.04	23.00	
1.4	QPSK	3	3	23.07	23.04	23.01	
1.4	QPSK	6	0	21.98	21.85	22.09	23
1.4	16QAM	1	0	22.32	22.28	22.27	
1.4	16QAM	1	3	22.19	22.31	22.04	
1.4	16QAM	1	5	22.19	22.26	22.30	
1.4	16QAM	3	0	21.96	22.18	21.97	
1.4	16QAM	3	1	22.16	22.13	21.99	
1.4	16QAM	3	3	22.03	22.06	22.05	
1.4	16QAM	6	0	21.20	21.16	21.17	
1.4	64QAM	1	0	21.46	21.39	21.38	
1.4	64QAM	1	3	21.30	21.46	21.19	
1.4	64QAM	1	5	21.27	21.34	21.37	
1.4	64QAM	3	0	21.20	21.15	21.11	
1.4	64QAM	3	1	21.14	21.19	21.13	
1.4	64QAM	3	3	21.14	21.15	21.18	
1.4	64QAM	6	0	21.26	21.13	21.05	22

Band 38(only on channel required) (dBm)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				37850	38000	38150	Tune-up limit (dBm)
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	23.19	23.23	23.21	24
20	QPSK	1	49	23.06	23.19	23.03	
20	QPSK	1	99	23.18	23.15	22.97	
20	QPSK	50	0	22.18	22.25	22.20	23
20	QPSK	50	24	22.21	22.22	22.08	
20	QPSK	50	50	22.18	22.11	22.04	
20	QPSK	100	0	22.21	22.24	22.11	23
20	16QAM	1	0	22.31	22.32	22.20	
20	16QAM	1	49	22.21	22.24	22.28	
20	16QAM	1	99	22.13	22.17	22.14	22
20	16QAM	50	0	21.32	21.39	21.20	
20	16QAM	50	24	21.40	21.35	21.37	
20	16QAM	50	50	21.22	21.27	21.20	22
20	16QAM	100	0	21.31	21.32	21.26	
20	64QAM	1	0	21.36	21.43	21.34	
20	64QAM	1	49	21.18	21.26	21.29	22
20	64QAM	1	99	21.25	21.27	21.28	
20	64QAM	50	0	21.24	21.29	21.24	
20	64QAM	50	24	21.28	21.24	21.20	22
20	64QAM	50	50	21.15	21.22	21.09	
20	64QAM	100	0	21.07	21.25	21.11	
Channel				37825	38000	38175	Tune-up limit (dBm)
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	22.94	23.19	23.10	24
15	QPSK	1	37	23.02	23.16	22.95	
15	QPSK	1	74	23.09	23.05	22.94	
15	QPSK	36	0	22.20	22.28	22.17	23
15	QPSK	36	20	22.29	22.25	22.13	
15	QPSK	36	39	22.28	22.15	22.13	
15	QPSK	75	0	22.15	22.07	22.09	23
15	16QAM	1	0	22.30	22.28	22.13	
15	16QAM	1	37	22.14	22.17	22.20	
15	16QAM	1	74	22.10	22.10	22.07	22
15	16QAM	36	0	21.31	21.37	21.13	
15	16QAM	36	20	21.30	21.32	21.34	
15	16QAM	36	39	21.18	21.25	21.18	22
15	16QAM	75	0	21.27	21.23	21.17	
15	64QAM	1	0	21.30	21.33	21.25	
15	64QAM	1	37	21.10	21.24	21.27	22
15	64QAM	1	74	21.24	21.20	21.24	
15	64QAM	36	0	21.14	21.22	21.14	
15	64QAM	36	20	21.24	21.14	21.12	22
15	64QAM	36	39	21.13	21.20	21.04	
15	64QAM	75	0	21.01	21.24	21.10	
Channel				37800	38000	38200	Tune-up limit (dBm)
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	23.01	23.18	23.06	24
10	QPSK	1	25	23.03	23.17	22.98	
10	QPSK	1	49	23.14	23.07	22.99	
10	QPSK	25	0	22.23	22.34	22.20	23
10	QPSK	25	12	22.30	22.30	22.12	
10	QPSK	25	25	22.27	22.15	22.09	
10	QPSK	50	0	22.25	22.25	22.20	23
10	16QAM	1	0	22.25	22.27	22.19	
10	16QAM	1	25	22.18	22.18	22.24	
10	16QAM	1	49	22.10	22.14	22.13	22
10	16QAM	25	0	21.26	21.35	21.15	
10	16QAM	25	12	21.33	21.32	21.34	
10	16QAM	25	25	21.12	21.23	21.11	22
10	16QAM	50	0	21.25	21.26	21.20	
10	64QAM	1	0	21.33	21.42	21.30	
10	64QAM	1	25	21.17	21.18	21.28	22
10	64QAM	1	49	21.23	21.23	21.26	
10	64QAM	25	0	21.18	21.26	21.22	
10	64QAM	25	12	21.27	21.22	21.16	22
10	64QAM	25	25	21.05	21.14	21.01	
10	64QAM	50	0	21.06	21.22	21.10	
Channel				37775	38000	38225	Tune-up limit (dBm)
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	22.93	23.18	23.11	24
5	QPSK	1	12	23.00	23.17	22.99	
5	QPSK	1	24	23.09	23.10	22.94	
5	QPSK	12	0	22.21	22.31	22.22	23
5	QPSK	12	7	22.19	22.14	22.06	
5	QPSK	12	13	22.10	22.09	21.94	
5	QPSK	25	0	22.20	22.14	22.07	23
5	16QAM	1	0	22.28	22.31	22.15	
5	16QAM	1	12	22.20	22.22	22.23	
5	16QAM	1	24	22.12	22.07	22.04	22
5	16QAM	12	0	21.27	21.31	21.16	
5	16QAM	12	7	21.36	21.32	21.33	
5	16QAM	12	13	21.19	21.22	21.17	22
5	16QAM	25	0	21.22	21.25	21.21	
5	64QAM	1	0	21.33	21.41	21.30	
5	64QAM	1	12	21.14	21.20	21.24	22
5	64QAM	1	24	21.21	21.23	21.27	
5	64QAM	12	0	21.15	21.24	21.23	
5	64QAM	12	7	21.27	21.20	21.19	22
5	64QAM	12	13	21.08	21.15	21.03	
5	64QAM	25	0	20.99	21.15	21.03	

Band 40 (2.3G Band-1) (dBm) Part 27D-1 2305MHz ~ 2315MHz							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				38750			Tune-up limit (dBm)
Frequency (MHz)				2310			
10	QPSK	1	0		23.35		24
10	QPSK	1	25		23.24		
10	QPSK	1	49		23.20		
10	QPSK	25	0		22.49		23
10	QPSK	25	12		22.46		
10	QPSK	25	25		22.42		
10	QPSK	50	0		22.48		23
10	16QAM	1	0		22.45		
10	16QAM	1	25		22.59		
10	16QAM	1	49		22.39		22
10	16QAM	25	0		21.44		
10	16QAM	25	12		21.48		
10	16QAM	25	25		21.48		22
10	16QAM	50	0		21.55		
10	64QAM	1	0		21.54		
10	64QAM	1	25		21.48		22
10	64QAM	1	49		21.58		
10	64QAM	25	0		21.27		
10	64QAM	25	12		21.32		22
10	64QAM	25	25		21.38		
10	64QAM	50	0		21.22		
Channel				38725	38750	38775	Tune-up limit (dBm)
Frequency (MHz)				2307.5	2310	2312.5	
5	QPSK	1	0	23.13	23.16	23.07	24
5	QPSK	1	12	22.92	23.28	23.16	
5	QPSK	1	24	23.29	23.21	23.29	
5	QPSK	12	0	22.26	22.35	22.34	23
5	QPSK	12	7	22.25	22.44	22.41	
5	QPSK	12	13	22.37	22.38	22.35	
5	QPSK	25	0	22.29	22.35	22.31	23
5	16QAM	1	0	22.38	22.46	22.40	
5	16QAM	1	12	22.51	22.54	22.40	
5	16QAM	1	24	22.46	22.58	22.58	22
5	16QAM	12	0	21.25	21.30	21.33	
5	16QAM	12	7	21.34	21.27	21.40	
5	16QAM	12	13	21.39	21.48	21.45	22
5	16QAM	25	0	21.26	21.28	21.37	
5	64QAM	1	0	21.32	21.08	21.14	
5	64QAM	1	12	21.31	21.12	21.54	22
5	64QAM	1	24	21.20	21.24	21.39	
5	64QAM	12	0	21.05	21.22	21.10	
5	64QAM	12	7	21.25	21.27	21.17	22
5	64QAM	12	13	21.13	21.18	21.27	
5	64QAM	25	0	21.12	21.19	21.18	

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

Channel	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel 39200				24
Frequency (MHz)				
10	QPSK	1	0	23.30
10	QPSK	1	25	23.16
10	QPSK	1	49	23.13
10	QPSK	25	0	22.42
10	QPSK	25	12	22.37
10	QPSK	25	25	22.29
10	QPSK	50	0	22.32
10	16QAM	1	0	22.45
10	16QAM	1	25	22.07
10	16QAM	1	49	22.31
10	16QAM	25	0	21.47
10	16QAM	25	12	21.91
10	16QAM	25	25	21.77
10	16QAM	50	0	21.86
10	64QAM	1	0	21.37
10	64QAM	1	25	21.23
10	64QAM	1	49	21.14
10	64QAM	25	0	21.36
10	64QAM	25	12	21.40
10	64QAM	25	25	21.28
10	64QAM	50	0	21.34
Channel 39175				24
Frequency (MHz)				
5	QPSK	1	0	23.09
5	QPSK	1	12	23.13
5	QPSK	1	24	23.00
5	QPSK	12	0	22.23
5	QPSK	12	7	22.27
5	QPSK	12	13	22.32
5	QPSK	25	0	22.27
5	16QAM	1	0	22.21
5	16QAM	1	12	22.29
5	16QAM	1	24	22.15
5	16QAM	12	0	21.42
5	16QAM	12	7	21.37
5	16QAM	12	13	21.33
5	16QAM	25	0	21.44
5	64QAM	1	0	21.13
5	64QAM	1	12	21.55
5	64QAM	1	24	21.59
5	64QAM	12	0	21.24
5	64QAM	12	7	21.30
5	64QAM	12	13	21.33
5	64QAM	25	0	21.26

Band 41 (2496~2690MHz) (dBm)

BW (MHz)	Modulation	RB Size	RB Offset	Low Channel	Middle Low Channel	Middle Channel	Middle High Channel	High Channel	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	23.16	23.07	23.22	23.06	23.05	24
20	QPSK	1	49	23.07	23.14	22.97	22.99	22.95	
20	QPSK	1	99	23.16	23.01	23.12	23.02	22.94	
20	QPSK	50	0	22.39	22.34	22.40	22.25	22.23	23
20	QPSK	50	24	22.35	22.32	22.26	22.11	22.08	
20	QPSK	50	50	22.37	22.26	22.22	22.05	21.95	
20	QPSK	100	0	22.36	22.32	22.38	22.17	22.25	23
20	16QAM	1	0	22.44	22.46	22.40	22.34	22.35	
20	16QAM	1	49	22.37	22.24	22.34	22.27	22.30	
20	16QAM	1	99	22.30	22.16	22.39	22.25	22.27	22
20	16QAM	50	0	21.45	21.41	21.27	21.21	21.12	
20	16QAM	50	24	21.39	21.24	21.30	21.18	21.15	
20	16QAM	50	50	21.36	21.12	21.15	21.07	21.11	22
20	16QAM	100	0	21.27	21.24	21.30	21.24	21.25	
20	64QAM	1	0	21.35	21.42	21.33	21.23	21.27	
20	64QAM	1	49	21.34	21.06	21.24	21.15	21.17	22
20	64QAM	1	99	21.28	21.19	21.28	21.19	21.22	
20	64QAM	50	0	21.40	21.34	21.21	21.14	20.98	
20	64QAM	50	24	21.30	21.25	21.24	21.12	21.16	22
20	64QAM	50	50	21.17	21.18	21.19	21.08	21.10	
20	64QAM	100	0	21.36	21.31	21.35	21.26	21.25	
Channel				39725	40173	40620	41068	41515	
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	23.11	22.96	23.21	23.00	22.96	24
15	QPSK	1	37	23.06	23.04	22.95	22.94	22.96	
15	QPSK	1	74	23.07	22.95	23.02	22.97	22.93	
15	QPSK	36	0	22.28	22.26	22.36	22.18	22.12	23
15	QPSK	36	20	22.24	22.24	22.22	22.02	22.02	
15	QPSK	36	39	22.36	22.25	22.19	21.96	21.93	
15	QPSK	75	0	22.27	22.26	22.19	22.07	21.98	23
15	16QAM	1	0	22.40	22.34	22.29	22.22	22.29	
15	16QAM	1	37	22.28	22.17	22.32	22.17	22.20	
15	16QAM	1	74	22.26	22.04	22.29	22.22	22.15	22
15	16QAM	36	0	21.38	21.33	21.19	21.11	21.07	
15	16QAM	36	20	21.38	21.15	21.24	21.09	21.12	
15	16QAM	36	39	21.25	21.00	21.06	21.00	21.10	22
15	16QAM	75	0	21.23	21.18	21.29	21.15	21.22	
15	64QAM	1	0	21.24	21.31	21.27	21.13	21.17	
15	64QAM	1	37	21.31	20.98	21.20	21.03	21.08	22
15	64QAM	1	74	21.25	21.16	21.17	21.08	21.18	
15	64QAM	36	0	21.28	21.33	21.11	21.11	20.93	
15	64QAM	36	20	21.19	21.13	21.14	21.03	21.12	22
15	64QAM	36	39	21.12	21.14	21.11	21.07	21.06	
15	64QAM	75	0	21.29	21.22	21.23	21.19	21.23	
Channel				39700	40160	40620	41080	41540	
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	23.07	23.02	23.17	23.00	22.96	24
10	QPSK	1	25	22.99	23.04	22.93	22.99	22.95	
10	QPSK	1	49	23.12	22.96	23.02	23.00	22.97	
10	QPSK	25	0	22.35	22.27	22.32	22.20	22.06	23
10	QPSK	25	12	22.34	22.23	22.25	22.09	21.98	
10	QPSK	25	25	22.36	22.17	22.20	22.02	21.93	
10	QPSK	50	0	22.32	22.24	22.26	22.08	22.00	23
10	16QAM	1	0	22.40	22.35	22.31	22.22	22.28	
10	16QAM	1	25	22.31	22.21	22.24	22.23	22.21	
10	16QAM	1	49	22.27	22.10	22.38	22.21	22.21	22
10	16QAM	25	0	21.34	21.37	21.19	21.16	21.03	
10	16QAM	25	12	21.36	21.20	21.25	21.14	21.04	
10	16QAM	25	25	21.29	21.05	21.08	21.06	21.01	22
10	16QAM	50	0	21.17	21.18	21.26	21.21	21.23	
10	64QAM	1	0	21.30	21.35	21.23	21.16	21.21	
10	64QAM	1	25	21.31	20.96	21.16	21.10	21.08	22
10	64QAM	1	49	21.16	21.11	21.20	21.18	21.12	
10	64QAM	25	0	21.29	21.31	21.11	21.07	20.97	
10	64QAM	25	12	21.26	21.18	21.14	21.10	21.14	22
10	64QAM	25	25	21.16	21.07	21.16	21.05	21.03	
10	64QAM	50	0	21.35	21.29	21.31	21.16	21.21	
Channel				39675	40148	40620	41093	41565	
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	
5	QPSK	1	0	23.05	22.96	23.19	22.98	23.04	24
5	QPSK	1	12	23.05	23.04	22.97	22.96	23.00	
5	QPSK	1	24	23.11	22.94	23.00	22.98	22.99	
5	QPSK	12	0	22.35	22.28	22.33	22.19	22.07	23
5	QPSK	12	7	22.27	22.31	22.18	22.04	22.04	
5	QPSK	12	13	22.25	22.17	22.15	22.02	21.94	
5	QPSK	25	0	22.25	22.30	22.20	22.07	21.94	23
5	16QAM	1	0	22.34	22.38	22.34	22.33	22.33	
5	16QAM	1	12	22.27	22.15	22.23	22.18	22.23	
5	16QAM	1	24	22.19	22.13	22.27	22.24	22.17	23
5	16QAM	12	0	21.34	21.30	21.23	21.09	21.01	
5	16QAM	12	7	21.28	21.18	21.23	21.17	21.06	
5	16QAM	12	13	21.28	21.04	21.08	20.97	21.03	22
5	16QAM	25	0	21.22	21.22	21.25	21.22	21.19	
5	64QAM	1	0	21.29	21.32	21.25	21.15	21.18	
5	64QAM	1	12	21.23	20.96	21.17	21.03	21.13	22
5	64QAM	1	24	21.18	21.09	21.26	21.15	21.20	
5	64QAM	12	0	21.33	21.28	21.18	21.02	20.96	
5	64QAM	12	7	21.18	21.20	21.12	21.04	21.06	22
5	64QAM	12	13	21.08	21.08	21.08	21.04	21.01	
5	64QAM	25	0	21.28	21.23	21.30	21.15	21.22	

n5 (824 ~ 849 MHz)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				166800	167300	167800	Tune-up limit (dBm)
Frequency (MHz)				834	836.5	839	
20	DFT-s-OFDM PI/2 BPSK	1	1	23.20	23.15	23.50	24
20		1	53	23.13	23.26	23.24	
20		1	104	22.91	23.07	23.14	
20		50	1	22.35	22.31	22.33	23
20		50	25	22.40	22.65	22.50	
20		50	50	22.46	22.49	22.36	
20	100	0	22.56	22.33	22.50		
20	DFT-s-OFDM QPSK	1	1	23.42	23.52	23.41	24
20		1	53	23.13	23.28	23.34	
20		1	104	22.82	23.13	23.22	
20		50	1	22.34	22.50	22.46	23
20		50	25	22.25	22.26	22.32	
20		50	50	22.11	22.27	22.32	
20	100	0	22.23	22.35	22.43		
20	DFT-s-OFDM 16QAM	1	1	22.40	22.54	22.55	23
20	DFT-s-OFDM 64QAM	1	1	20.90	21.01	21.05	22
20	DFT-s-OFDM 256QAM	1	1	18.82	19.02	18.87	20
Channel				166300	167300	168300	Tune-up limit (dBm)
Frequency (MHz)				831.5	836.5	841.5	
15	DFT-s-OFDM QPSK	1	1	23.22	23.38	23.26	24
Channel				165800	167300	168800	Tune-up limit (dBm)
Frequency (MHz)				829	836.5	844	
10	DFT-s-OFDM QPSK	1	1	23.37	23.29	23.36	24
Channel				165300	167300	169300	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	DFT-s-OFDM QPSK	1	1	23.41	23.40	23.31	24
Channel				166800	167300	167800	Tune-up limit (dBm)
Frequency (MHz)				834	836.5	839	
20	CP-OFDM QPSK	1	1	22.08	22.03	22.14	23
20	CP-OFDM 16QAM	1	1	21.58	21.53	21.70	22
20	CP-OFDM 64QAM	1	1	20.32	20.32	20.42	21
20	CP-OFDM 256QAM	1	1	17.12	17.16	17.11	18

n41 (2496 ~ 2690MHz)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				509202	513900	518598	523296	528000	26
Frequency (MHz)				2546.01	2569.50	2592.99	2616.50	2640.00	
100	DFT-s-OFDM Pi/2 BPSK	1	1	25.02	25.01	24.99	24.75	25.12	25
100		1	136	25.08	25.09	25.16	25.37	25.23	
100		1	272	24.13	24.28	24.32	24.35	24.43	
100		135	1	23.80	23.76	23.81	23.90	23.95	
100		135	67	24.09	24.08	24.15	24.08	24.03	
100		135	136	23.91	24.02	24.15	24.15	24.16	
100	DFT-s-OFDM QPSK	270	0	23.87	23.90	23.95	24.00	23.98	26
100		1	1	25.27	25.36	25.43	25.23	25.31	
100		1	136	25.07	25.07	25.17	25.25	25.21	
100		1	272	24.11	24.24	24.25	24.38	24.29	
100		135	1	24.45	24.42	24.55	24.42	24.43	
100		135	67	24.16	24.13	24.24	24.31	24.26	
100	DFT-s-OFDM 16QAM	135	136	23.42	23.51	23.58	23.65	23.60	25
100		270	0	23.37	23.38	23.45	23.52	23.49	
100	DFT-s-OFDM 64QAM	1	1	23.61	24.03	24.00	23.95	24.05	25
100	DFT-s-OFDM 256QAM	1	1	22.46	22.35	22.42	22.45	22.34	23
100	DFT-s-OFDM 256QAM	1	1	20.22	20.30	20.24	20.26	20.28	21
Channel				508200	513399	518598	523797	528996	26
Frequency (MHz)				2541	2566.995	2592.99	2618.985	2644.98	
90	DFT-s-OFDM QPSK	1	1	24.83	24.89	24.96	24.96	24.81	26
Channel				507204	512904	518598	524298	529998	26
Frequency (MHz)				2536.02	2564.51	2592.99	2621.49	2649.99	
80	DFT-s-OFDM QPSK	1	1	24.82	24.77	24.77	24.85	24.77	26
Channel				505200	511902	518598	525300	531996	26
Frequency (MHz)				2526.00	2559.50	2592.99	2626.49	2659.98	
60	DFT-s-OFDM QPSK	1	1	24.87	24.87	24.86	25.12	24.40	26
Channel				504204	511401	518598	525798	532998	26
Frequency (MHz)				2521.02	2557.005	2592.99	2628.99	2664.99	
50	DFT-s-OFDM QPSK	1	1	21.31	24.95	24.97	25.28	25.11	26
Channel				503202	510900	518598	526296	534000	26
Frequency (MHz)				2516.01	2554.50	2592.99	2631.50	2670.00	
40	DFT-s-OFDM QPSK	1	1	24.71	25.08	25.14	25.20	25.19	26
Channel				502200	510402	518598	526800	534996	26
Frequency (MHz)				2511.00	2552.00	2592.99	2633.99	2674.98	
30	DFT-s-OFDM QPSK	1	1	25.00	25.02	25.09	25.19	24.30	26
Channel				501204	509801	518598	527298	535998	26
Frequency (MHz)				2506.02	2548.505	2592.99	2636.49	2679.99	
20	DFT-s-OFDM QPSK	1	1	24.85	25.06	25.19	25.20	25.21	26
Channel				509202	513900	518598	523296	528000	24
Frequency (MHz)				2546.01	2569.50	2592.99	2616.50	2640.00	
100	CP-OFDM QPSK	1	1	23.52	23.46	23.36	23.41	23.23	24
100	CP-OFDM 16QAM	1	1	22.47	22.92	22.91	22.85	22.92	23.5
100	CP-OFDM 64QAM	1	1	21.28	21.31	21.29	21.42	21.30	22
100	CP-OFDM 256QAM	1	1	18.22	18.14	18.11	18.09	18.14	19

n66 (1710 ~ 1780 MHz)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				344000	349000	354000	Tune-up limit (dBm)
Frequency (MHz)				1720	1745	1770	
20	DFT-s-OFDM PI/2 BPSK	1	1	23.33	23.31	23.16	24
20		1	53	23.22	23.21	22.76	
20		1	104	23.34	23.32	23.21	
20		53	1	22.58	22.60	22.45	23
20		53	26	22.50	22.52	22.30	
20		53	52	22.37	22.44	22.36	
20	106	0	22.79	22.77	22.64	24	
20	DFT-s-OFDM QPSK	1	1	23.20	23.39		23.25
20		1	53	23.16	22.98		23.16
20		1	104	23.15	23.16		23.28
20		53	1	22.53	22.57		22.45
20		53	26	22.52	22.58		22.47
20		53	52	22.45	22.46	22.38	
20	106	0	22.34	22.20	22.18	23	
20	DFT-s-OFDM 16QAM	1	1	22.41	22.39		22.24
20	DFT-s-OFDM 64QAM	1	1	21.09	21.08		21.01
20	DFT-s-OFDM 256QAM	1	1	19.20	19.10	19.00	20
Channel				343500	349000	354500	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	DFT-s-OFDM QPSK	1	1	23.33	23.26	23.14	24
Channel				343000	349000	355000	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	DFT-s-OFDM QPSK	1	1	23.30	23.19	23.18	24
Channel				342500	349000	355500	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	DFT-s-OFDM QPSK	1	1	23.36	23.26	22.21	24
Channel				344000	349000	354000	Tune-up limit (dBm)
Frequency (MHz)				1720	1745	1770	
20	CP-OFDM QPSK	1	1	22.13	22.10	22.12	23
20	CP-OFDM 16QAM	1	1	21.62	21.60	21.54	22
20	CP-OFDM 64QAM	1	1	20.41	20.41	20.25	21
20	CP-OFDM 256QAM	1	1	16.78	16.86	16.50	17

n77 (3450 MHz ~ 3550 MHz)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			Tune-up limit (dBm)
Frequency (MHz)						3500.01			
100	DFT-s-OFDM Pi/2 BPSK	1	1			23.15			24
100		1	136			22.93			
100		1	271			22.72			
100		135	1			22.33			23
100		135	67			22.21			
100		135	136			22.30			
100		270	0			22.46			
100	DFT-s-OFDM QPSK	1	1			23.21			24
100		1	136			23.18			
100		1	271			23.16			
100		135	1			22.55			23
100		135	67			22.42			
100		135	136			22.38			
100		270	0			22.47			
100	DFT-s-OFDM 16QAM	1	1			22.34			23
100	DFT-s-OFDM 64QAM	1	1			20.90			21.5
100	DFT-s-OFDM 256QAM	1	1			18.49			19
Channel				632668	633000	633334	633666	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3495	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	23.11	22.57	23.18	23.21	23.19	24
Channel				632000	632668	633334	634000	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3490.02	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	22.83	22.73	22.88	22.88	22.67	24
Channel				631334	632334	633334	634332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3485.01	3500.01	3514.98	3529.98	
40	DFT-s-OFDM QPSK	1	1	23.04	23.06	23.11	23.12	23.03	24
Channel				631000	632168	633334	634500	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3482.52	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	22.44	21.50	22.88	23.00	23.06	24
Channel				630668	632000	633334	634666	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3480	3500.01	3519.99	3540	
20	DFT-s-OFDM QPSK	1	1	22.87	22.81	22.93	22.90	22.87	24
Channel						633334			Tune-up limit (dBm)
Frequency (MHz)						3500.01			
100	CP-OFDM QPSK	1	1			21.76			22.5
100	CP-OFDM 16QAM	1	1			21.29			22
100	CP-OFDM 64QAM	1	1			19.68			20.5
100	CP-OFDM 256QAM	1	1			16.63			17

n77 (3700 MHz ~ 3980 MHz)

BW (MHz)	Modulation	RB Size	RB Offset	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				650000	653000	656000	659000	662000	Tune-up limit (dBm)
Frequency (MHz)				3750	3795	3840	3885	3930	
100	DFT-s-OFDM Pi/2 BPSK	1	1	22.95	22.84	22.74	22.84	22.89	24
100		1	136	23.02	22.94	22.81	22.80	22.73	
100		1	271	23.04	22.86	22.59	22.42	22.82	
100		135	1	22.18	22.15	22.13	22.10	22.15	23
100		135	67	22.30	22.40	22.55	22.59	22.50	
100		135	136	22.22	22.13	21.98	21.98	21.96	
100	270	0	22.16	22.20	22.02	22.05	22.03		
100	DFT-s-OFDM QPSK	1	1	23.21	23.22	23.34	23.18	23.22	24
100		1	136	22.88	22.85	22.76	22.73	22.70	
100		1	271	22.96	22.72	22.55	22.41	22.77	
100		135	1	22.58	22.63	22.64	22.58	22.62	23
100		135	67	22.46	22.30	22.57	22.58	22.52	
100		135	136	22.32	22.27	22.09	22.12	22.10	
100	270	0	22.25	22.31	22.13	22.18	22.14		
100	DFT-s-OFDM 16QAM	1	1	21.69	21.69	21.65	21.71	21.60	22
100	DFT-s-OFDM 64QAM	1	1	20.21	20.13	19.94	20.17	20.25	21
100	DFT-s-OFDM 256QAM	1	1	17.97	17.88	17.89	17.95	17.86	18.5
Channel				649334	652668	656000	659332	662666	Tune-up limit (dBm)
Frequency (MHz)				3740	3790.005	3840	3889.995	3940	
80	DFT-s-OFDM QPSK	1	1	22.99	22.95	22.92	22.93	22.92	24
Channel				648668	652334	656000	659666	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.005	3785.01	3840	3894.99	3949.995	
60	DFT-s-OFDM QPSK	1	1	23.05	23.02	23.06	22.98	22.86	24
Channel				648000	652000	656000	660000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3780	3840	3900	3960	
40	DFT-s-OFDM QPSK	1	1	22.68	23.11	22.94	23.04	22.48	24
Channel				647668	651834	656000	660166	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.005	3777.51	3840	3902.49	3965	
30	DFT-s-OFDM QPSK	1	1	23.23	22.69	23.27	23.20	23.10	24
Channel				647334	651668	656000	660332	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3775.005	3840	3905	3969.99	
20	DFT-s-OFDM QPSK	1	1	23.24	23.26	23.13	23.00	23.04	23
Channel				650000	653000	656000	659000	662000	Tune-up limit (dBm)
Frequency (MHz)				3750	3795	3840	3885	3930	
100	CP-OFDM QPSK	1	1	21.19	21.16	21.15	21.19	21.15	22
100	CP-OFDM 16QAM	1	1	20.46	20.45	20.54	20.61	20.52	21
100	CP-OFDM 64QAM	1	1	19.16	19.08	19.12	19.15	19.04	20
100	CP-OFDM 256QAM	1	1	15.90	16.05	15.95	16.01	16.05	17

2CC LTE Downlink											
Configure	CA Configuration	PCC					SCC				Power
		Band	BW (MHz)	UL Channel	UL Fre. (MHz)	UL Mode (Modulation/RB/Offset)	Band	BW (MHz)	DL Channel	DL Fre. (MHz)	CA TX (dBm)
Intra-band& Inter-band	CA_41A-41A	41	20	39750	2506.0	QPSK/1#0	41	20	41490	2680.0	22.77

3CC LTE Downlink															
Configure	CA Configuration	PCC					SCC1				SCC2				Power
		Band	BW (MHz)	UL Channel	UL Fre. (MHz)	UL Mode (Modulation/RB/Offset)	Band	BW (MHz)	DL Channel	DL Fre. (MHz)	Band	BW (MHz)	DL Channel	DL Fre. (MHz)	CA TX (dBm)
Intra-band& Inter-band	CA_41A-41A-41A	41	20	39750	2506.0	QPSK/1#0	41	20	41490	2680.0	41	20	40620	2593.0	22.71

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	128	189	251		128	189	251		
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8		
GSM 1 Tx slot	24.48	24.51	24.44	25.50	15.48	15.51	15.44	16.50	0.08
GPRS 1 Tx slot	24.49	24.52	24.45	25.50	15.49	15.52	15.45	16.50	
GPRS 2 Tx slots	23.26	23.34	23.31	24.00	17.26	17.34	17.31	18.00	0.08
GPRS 3 Tx slots	21.25	21.27	21.21	22.00	16.99	17.01	16.95	17.74	0.06
GPRS 4 Tx slots	19.08	19.11	19.05	20.00	16.08	16.11	16.05	17.00	0.06
EDGE 1 Tx slot	18.54	18.58	18.41	19.00	9.54	9.58	9.41	10.00	0.17
EDGE 2 Tx slots	17.36	17.41	17.31	18.00	11.36	11.41	11.31	12.00	0.10
EDGE 3 Tx slots	15.44	15.48	15.26	16.00	11.18	11.22	11.00	11.74	0.22
EDGE 4 Tx slots	13.24	13.34	13.21	14.00	10.24	10.34	10.21	11.00	0.13
Mode		Max.	24.52		Max.	17.34			
Attenuator	Cable Loss : 0.6								

GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)	Ch Delta > 0.5
	512	661	810		512	661	810		
TX Channel	512	661	810		512	661	810		
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8		
GSM 1 Tx slot	23.58	23.61	23.54	24.50	14.58	14.61	14.54	15.50	0.09
GPRS 1 Tx slot	23.59	23.62	23.53	24.50	14.59	14.62	14.53	15.50	
GPRS 2 Tx slots	22.43	22.47	22.33	23.00	16.43	16.47	16.33	17.00	0.14
GPRS 3 Tx slots	20.36	20.37	20.39	21.00	16.10	16.11	16.13	16.74	0.03
GPRS 4 Tx slots	18.06	18.11	18.03	19.00	15.06	15.11	15.03	16.00	0.08
EDGE 1 Tx slot	19.61	19.47	19.36	20.00	10.61	10.47	10.36	11.00	0.25
EDGE 2 Tx slots	18.56	18.58	18.43	19.00	12.56	12.58	12.43	13.00	0.15
EDGE 3 Tx slots	16.37	16.41	16.38	17.00	12.11	12.15	12.12	12.74	0.04
EDGE 4 Tx slots	14.40	14.46	14.41	15.00	11.40	11.46	11.41	12.00	0.06
Mode		Max.	23.62		Max.	16.47			
Attenuator	Cable Loss : 0.8								

Band	TX Channel	WCDMA Band II (dBm)			Tune-up Limit (dBm)	WCDMA Band IV (dBm)			Tune-up Limit (dBm)	WCDMA Band V (dBm)			Tune-up Limit (dBm)
		9262	9400	9538		1312	1413	1513		4132	4182	4233	
	Rx Channel	9662	9800	9938		1537	1638	1738		4357	4407	4458	
	Frequency (MHz)	1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6	
3GPP Rel 99	RMC 12.2Kbps	18.16	18.27	18.24	19.00	18.11	18.15	18.10	19.00	19.17	19.20	19.15	20.00
3GPP Rel 6	HSDPA Subtest-1	16.91	17.00	17.00	18.00	17.13	17.21	17.03	18.00	18.38	18.35	18.24	19.00
3GPP Rel 6	HSDPA Subtest-2	16.88	17.01	16.96	18.00	17.10	17.30	17.02	18.00	18.38	18.40	18.29	19.00
3GPP Rel 6	HSDPA Subtest-3	16.42	16.50	16.43	18.00	16.58	16.76	16.56	18.00	17.88	17.83	17.70	19.00
3GPP Rel 6	HSDPA Subtest-4	16.37	16.49	16.45	18.00	16.56	16.64	16.56	18.00	17.89	17.85	17.78	19.00
3GPP Rel 8	DC-HSDPA Subtest-1	16.91	17.03	16.98	18.00	17.15	17.22	17.00	18.00	18.38	18.34	18.24	19.00
3GPP Rel 8	DC-HSDPA Subtest-2	16.90	17.05	16.99	18.00	17.14	17.24	17.01	18.00	18.35	18.37	18.26	19.00
3GPP Rel 8	DC-HSDPA Subtest-3	16.42	16.55	16.52	18.00	16.61	16.73	16.47	18.00	17.84	17.86	17.73	19.00
3GPP Rel 8	DC-HSDPA Subtest-4	16.39	16.54	16.51	18.00	16.57	16.68	16.54	18.00	17.87	17.83	17.74	19.00
3GPP Rel 6	HSUPA Subtest-1	16.90	17.03	16.98	18.00	17.11	17.19	17.07	18.00	18.36	18.34	18.22	19.00
3GPP Rel 6	HSUPA Subtest-2	16.45	16.57	16.49	18.00	16.64	16.74	16.59	18.00	17.84	17.87	17.76	19.00
3GPP Rel 6	HSUPA Subtest-3	16.91	17.01	16.91	18.00	17.05	17.23	17.00	18.00	18.38	18.37	18.23	19.00
3GPP Rel 6	HSUPA Subtest-4	16.90	17.03	16.99	18.00	17.14	17.22	17.04	18.00	18.37	18.38	18.25	19.00
3GPP Rel 6	HSUPA Subtest-5	16.91	17.03	16.94	18.00	17.09	17.19	17.07	18.00	18.31	18.36	18.19	19.00
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	16.38	16.45	16.45	18.00	16.59	16.75	16.55	18.00	17.86	17.81	17.71	19.00
Attenuator		Cable Loss			0.8	Cable Loss			0.8	Cable Loss			0.6
Mode		Max.	18.27		Max.	18.15		Max.	19.20				

Band	CDMA2000 BC1 (dBm)			Tune-up Limit (dBm)
	25	600	1175	
TX Channel	25	600	1175	
Frequency (MHz)	1851.25	1880	1908.75	
RC1 SO55	19.19	19.23	19.20	20.00
RC3 SO55	19.12	19.18	19.16	20.00
RC3 SO32 (F+SCH)	19.24	19.25	19.22	20.00
RC3 SO32 (+SCH)	19.19	19.20	19.19	20.00
Attenuator	Cable Loss			0.6
Mode		Max.	19.25	

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

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				18700	18900	19100	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	18.12	18.14	18.07	19
20	QPSK	1	49	18.11	18.13	18.06	
20	QPSK	1	99	18.03	18.10	18.07	
20	QPSK	50	0	17.17	17.29	17.18	18
20	QPSK	50	24	17.21	17.15	17.13	
20	QPSK	50	50	17.18	17.21	17.14	
20	QPSK	100	0	17.21	17.22	17.11	18
20	16QAM	1	0	17.48	17.39	17.22	
20	16QAM	1	49	17.36	17.45	17.40	
20	16QAM	1	99	17.46	17.23	17.50	17
20	16QAM	50	0	16.29	16.24	16.28	
20	16QAM	50	24	16.38	16.23	16.22	
20	16QAM	50	50	16.25	16.28	16.30	17
20	16QAM	100	0	16.23	16.25	16.21	
20	64QAM	1	0	16.33	16.47	16.42	
20	64QAM	1	49	16.36	16.40	16.30	17
20	64QAM	1	99	16.46	16.34	16.16	
20	64QAM	50	0	16.31	16.20	16.20	
20	64QAM	50	24	16.14	16.15	16.22	17
20	64QAM	50	50	16.27	16.20	16.25	
20	64QAM	100	0	16.19	16.22	16.21	
Channel				18675	18900	19125	
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	18.04	18.09	18.00	19
15	QPSK	1	37	18.08	18.09	18.03	
15	QPSK	1	74	17.94	18.09	18.06	
15	QPSK	36	0	17.13	17.19	17.08	18
15	QPSK	36	20	17.27	17.08	17.09	
15	QPSK	36	39	17.17	17.14	17.05	
15	QPSK	75	0	17.16	17.14	17.01	18
15	16QAM	1	0	17.44	17.33	17.16	
15	16QAM	1	37	17.43	17.55	17.35	
15	16QAM	1	74	17.48	17.63	17.49	17
15	16QAM	36	0	16.28	16.15	16.22	
15	16QAM	36	20	16.34	16.14	16.14	
15	16QAM	36	39	16.21	16.26	16.28	17
15	16QAM	75	0	16.13	16.21	16.20	
15	64QAM	1	0	16.30	16.46	16.37	
15	64QAM	1	37	16.30	16.30	16.25	17
15	64QAM	1	74	16.44	16.29	16.10	
15	64QAM	36	0	16.28	16.10	16.13	
15	64QAM	36	20	16.05	16.12	16.15	17
15	64QAM	36	39	16.23	16.18	16.17	
15	64QAM	75	0	16.13	16.19	16.20	
Channel				18650	18900	19150	
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	18.11	18.12	18.05	19
10	QPSK	1	25	18.04	18.08	18.00	
10	QPSK	1	49	17.95	18.09	17.99	
10	QPSK	25	0	17.11	17.28	17.13	18
10	QPSK	25	12	17.19	17.06	17.12	
10	QPSK	25	25	17.09	17.19	17.07	
10	QPSK	50	0	17.12	17.18	17.05	18
10	16QAM	1	0	17.42	17.34	17.15	
10	16QAM	1	25	17.42	17.59	17.39	
10	16QAM	1	49	17.44	17.64	17.45	17
10	16QAM	25	0	16.21	16.20	16.23	
10	16QAM	25	12	16.30	16.16	16.18	
10	16QAM	25	25	16.24	16.19	16.26	17
10	16QAM	50	0	16.22	16.19	16.12	
10	64QAM	1	0	16.23	16.38	16.40	
10	64QAM	1	25	16.34	16.39	16.28	17
10	64QAM	1	49	16.41	16.27	16.06	
10	64QAM	25	0	16.30	16.10	16.11	
10	64QAM	25	12	16.06	16.12	16.16	17
10	64QAM	25	25	16.23	16.18	16.19	
10	64QAM	50	0	16.12	16.13	16.19	
Channel				18625	18900	19175	
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	18.10	18.10	18.01	19
5	QPSK	1	12	18.01	18.03	18.05	
5	QPSK	1	24	18.02	18.08	17.98	
5	QPSK	12	0	17.08	17.24	17.12	18
5	QPSK	12	7	17.22	17.10	17.04	
5	QPSK	12	13	17.15	17.15	17.04	
5	QPSK	25	0	17.19	17.18	17.03	18
5	16QAM	1	0	17.38	17.37	17.18	
5	16QAM	1	12	17.41	17.57	17.38	
5	16QAM	1	24	17.46	17.57	17.42	17
5	16QAM	12	0	16.27	16.17	16.24	
5	16QAM	12	7	16.28	16.18	16.14	
5	16QAM	12	13	16.20	16.20	16.26	17
5	16QAM	25	0	16.14	16.16	16.12	
5	64QAM	1	0	16.24	16.44	16.36	
5	64QAM	1	12	16.27	16.35	16.25	17
5	64QAM	1	24	16.43	16.31	16.12	
5	64QAM	12	0	16.29	16.19	16.17	
5	64QAM	12	7	16.11	16.08	16.16	17
5	64QAM	12	13	16.23	16.11	16.24	
5	64QAM	25	0	16.18	16.19	16.12	
Channel				18615	18900	19185	
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	18.01	18.11	17.97	19
3	QPSK	1	8	18.05	18.10	18.01	
3	QPSK	1	14	17.97	18.00	17.98	
3	QPSK	8	0	17.10	17.22	17.14	

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

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20050	20175	20300	
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	18.12	18.16	18.15	19
20	QPSK	1	49	18.06	18.07	18.08	
20	QPSK	1	99	17.98	18.00	18.03	
20	QPSK	50	0	17.17	17.23	17.10	18
20	QPSK	50	24	17.15	17.18	17.19	
20	QPSK	50	50	17.12	17.15	17.21	
20	QPSK	100	0	17.09	17.18	17.13	18
20	16QAM	1	0	16.82	17.07	17.13	
20	16QAM	1	49	17.07	17.13	17.28	
20	16QAM	1	99	17.14	17.13	17.24	17
20	16QAM	50	0	16.20	16.16	16.21	
20	16QAM	50	24	16.23	16.12	16.16	
20	16QAM	50	50	16.28	16.14	16.15	17
20	16QAM	100	0	16.20	16.19	16.17	
20	64QAM	1	0	16.32	16.26	16.30	
20	64QAM	1	49	16.12	16.14	16.30	17
20	64QAM	1	99	16.22	16.23	16.34	
20	64QAM	50	0	16.14	16.11	16.12	
20	64QAM	50	24	16.13	16.15	16.28	17
20	64QAM	50	50	16.17	16.14	16.32	
20	64QAM	100	0	16.15	16.12	16.23	
Channel				20025	20175	20325	
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	18.03	18.04	18.01	19
15	QPSK	1	37	17.96	17.92	18.01	
15	QPSK	1	74	17.87	17.90	17.94	
15	QPSK	36	0	17.03	17.12	17.03	18
15	QPSK	36	20	17.07	17.07	17.10	
15	QPSK	36	39	17.01	17.01	17.09	
15	QPSK	75	0	16.96	17.09	17.03	18
15	16QAM	1	0	17.16	17.35	16.98	
15	16QAM	1	37	17.44	17.39	17.39	
15	16QAM	1	74	17.06	17.07	17.13	17
15	16QAM	36	0	16.07	16.10	16.13	
15	16QAM	36	20	16.11	16.06	16.10	
15	16QAM	36	39	16.16	16.00	16.09	17
15	16QAM	75	0	16.12	16.13	16.10	
15	64QAM	1	0	16.20	16.19	16.15	
15	64QAM	1	37	16.17	16.20	16.19	17
15	64QAM	1	74	16.07	16.13	16.28	
15	64QAM	36	0	16.08	16.03	16.05	
15	64QAM	36	20	16.03	16.00	16.16	17
15	64QAM	36	39	16.02	16.05	16.21	
15	64QAM	75	0	16.05	15.98	16.16	
Channel				20000	20175	20350	
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	18.00	18.09	18.04	19
10	QPSK	1	25	17.94	17.96	17.96	
10	QPSK	1	49	17.89	17.86	17.89	
10	QPSK	25	0	17.04	17.15	16.97	18
10	QPSK	25	12	17.02	17.10	17.11	
10	QPSK	25	25	17.01	17.07	17.14	
10	QPSK	50	0	16.96	17.04	17.06	18
10	16QAM	1	0	17.17	17.40	17.07	
10	16QAM	1	25	17.38	17.46	17.34	
10	16QAM	1	49	17.22	17.06	17.14	17
10	16QAM	25	0	16.11	16.04	16.12	
10	16QAM	25	12	16.17	15.97	16.05	
10	16QAM	25	25	16.18	16.07	16.04	17
10	16QAM	50	0	16.14	16.07	16.08	
10	64QAM	1	0	16.17	16.13	16.21	
10	64QAM	1	25	16.06	16.07	1	

3	QPSK	8	4	17.18	17.12	17.11	18
3	QPSK	8	7	17.14	17.13	17.11	
3	QPSK	15	0	17.11	17.13	17.05	
3	16QAM	1	0	17.38	17.38	17.15	18
3	16QAM	1	8	17.42	17.56	17.38	
3	16QAM	1	14	17.48	17.59	17.47	
3	16QAM	8	0	16.22	16.15	16.21	17
3	16QAM	8	4	16.35	16.15	16.16	
3	16QAM	8	7	16.15	16.21	16.27	
3	16QAM	15	0	16.14	16.17	16.18	17
3	64QAM	1	0	16.32	16.40	16.40	
3	64QAM	1	8	16.32	16.34	16.21	
3	64QAM	1	14	16.44	16.29	16.06	17
3	64QAM	8	0	16.25	16.10	16.10	
3	64QAM	8	4	16.09	16.08	16.12	
3	64QAM	8	7	16.18	16.12	16.21	17
3	64QAM	15	0	16.12	16.14	16.18	
Channel				18607	18900	19193	
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	18.01	18.09	17.98	19
1.4	QPSK	1	3	18.01	18.04	17.97	
1.4	QPSK	1	5	17.97	18.08	18.02	
1.4	QPSK	3	0	18.11	18.06	18.11	
1.4	QPSK	3	1	18.10	18.10	18.08	
1.4	QPSK	3	3	18.08	18.12	18.12	
1.4	QPSK	6	0	17.12	17.12	17.01	18
1.4	16QAM	1	0	17.39	17.36	17.13	18
1.4	16QAM	1	3	17.48	17.56	17.39	
1.4	16QAM	1	5	17.43	17.59	17.49	
1.4	16QAM	3	0	17.21	17.21	17.24	
1.4	16QAM	3	1	17.36	17.15	17.12	
1.4	16QAM	3	3	17.18	17.25	17.20	
1.4	16QAM	6	0	16.16	16.15	16.12	17
1.4	64QAM	1	0	16.23	16.38	16.41	17
1.4	64QAM	1	3	16.33	16.35	16.27	
1.4	64QAM	1	5	16.39	16.33	16.11	
1.4	64QAM	3	0	16.23	16.16	16.19	
1.4	64QAM	3	1	16.10	16.14	16.20	
1.4	64QAM	3	3	16.20	16.13	16.20	
1.4	64QAM	6	0	16.10	16.12	16.13	17

3	QPSK	8	4	17.03	17.11	17.11	18
3	QPSK	8	7	16.98	17.08	17.06	
3	QPSK	15	0	16.96	17.08	17.04	
3	16QAM	1	0	17.14	17.41	17.03	18
3	16QAM	1	8	17.40	17.49	17.34	
3	16QAM	1	14	17.02	17.02	17.16	
3	16QAM	8	0	16.10	16.03	16.11	17
3	16QAM	8	4	16.12	16.05	16.07	
3	16QAM	8	7	16.20	16.02	16.04	
3	16QAM	15	0	16.08	16.07	16.08	17
3	64QAM	1	0	16.21	16.17	16.15	
3	64QAM	1	8	16.20	16.20	16.20	
3	64QAM	1	14	16.13	16.09	16.21	17
3	64QAM	8	0	16.03	16.01	16.03	
3	64QAM	8	4	15.98	16.01	16.18	
3	64QAM	8	7	16.09	16.03	16.22	17
3	64QAM	15	0	16.09	16.04	16.08	
Channel				19957	20175	20393	
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	18.01	18.02	18.02	19
1.4	QPSK	1	3	17.95	17.92	18.00	
1.4	QPSK	1	5	17.91	17.94	17.89	
1.4	QPSK	3	0	18.08	18.15	18.00	
1.4	QPSK	3	1	18.03	18.08	18.11	
1.4	QPSK	3	3	18.06	18.06	18.06	
1.4	QPSK	6	0	16.94	17.04	16.99	18
1.4	16QAM	1	0	17.20	17.40	17.06	18
1.4	16QAM	1	3	17.42	17.49	17.37	
1.4	16QAM	1	5	17.00	17.03	17.13	
1.4	16QAM	3	0	17.12	17.10	17.06	
1.4	16QAM	3	1	17.16	17.00	17.05	
1.4	16QAM	3	3	17.13	17.08	17.05	
1.4	16QAM	6	0	16.14	16.09	16.11	17
1.4	64QAM	1	0	16.17	16.14	16.17	17
1.4	64QAM	1	3	16.06	16.01	16.22	
1.4	64QAM	1	5	16.14	16.10	16.28	
1.4	64QAM	3	0	16.00	16.00	16.06	
1.4	64QAM	3	1	15.98	16.00	16.18	
1.4	64QAM	3	3	16.04	16.07	16.18	
1.4	64QAM	6	0	16.05	16.06	16.16	17

Band 5 (Cellular Band) (dBm)							
Part 22H(only on channel required)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20450	20525	20600	
Frequency (MHz)				829	836.5	844	
10	QPSK	1	0	19.21	19.22	19.14	20
10	QPSK	1	25	19.17	19.20	19.09	
10	QPSK	1	49	19.09	19.16	18.91	
10	QPSK	25	0	18.27	18.35	18.21	19
10	QPSK	25	12	18.34	18.31	18.26	
10	QPSK	25	25	18.26	18.22	18.25	
10	QPSK	50	0	18.15	18.17	18.14	19
10	16QAM	1	0	18.24	18.14	18.10	
10	16QAM	1	25	18.23	18.41	18.27	
10	16QAM	1	49	18.20	18.21	18.13	18
10	16QAM	25	0	17.19	17.10	17.07	
10	16QAM	25	12	17.11	17.07	17.04	
10	16QAM	25	25	17.19	17.15	17.10	18
10	16QAM	50	0	17.23	17.09	17.06	
10	64QAM	1	0	17.25	17.32	17.21	
10	64QAM	1	25	17.12	17.10	17.16	18
10	64QAM	1	49	17.27	17.07	17.23	
10	64QAM	25	0	17.22	17.15	17.10	
10	64QAM	25	12	17.30	17.10	17.15	18
10	64QAM	25	25	17.14	17.15	17.10	
10	64QAM	50	0	17.15	17.12	17.14	
Channel				20425	20525	20625	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	QPSK	1	0	19.18	19.19	19.11	20
5	QPSK	1	12	19.14	19.14	19.07	
5	QPSK	1	24	19.04	19.11	18.85	
5	QPSK	12	0	18.26	18.32	18.08	19
5	QPSK	12	7	18.30	18.28	18.23	
5	QPSK	12	13	18.16	18.18	18.15	
5	QPSK	25	0	18.20	18.18	18.23	19
5	16QAM	1	0	18.34	18.25	18.20	
5	16QAM	1	12	18.33	18.53	18.39	
5	16QAM	1	24	18.32	18.29	18.25	18
5	16QAM	12	0	17.25	17.21	17.12	
5	16QAM	12	7	17.19	17.18	17.10	
5	16QAM	12	13	17.24	17.23	17.17	18
5	16QAM	25	0	17.33	17.14	17.11	
5	64QAM	1	0	17.19	17.26	17.19	
5	64QAM	1	12	17.02	17.09	17.11	18
5	64QAM	1	24	17.22	16.98	17.14	
5	64QAM	12	0	17.15	17.11	17.04	
5	64QAM	12	7	17.28	17.05	17.09	18
5	64QAM	12	13	17.06	17.06	17.00	
5	64QAM	25	0	17.24	17.22	17.25	
Channel				20415	20525	20635	Tune-up limit (dBm)
Frequency (MHz)				825.5	836.5	847.5	
3	QPSK	1	0	19.09	19.17	19.13	20
3	QPSK	1	8	19.16	19.14	19.02	
3	QPSK	1	14	19.00	19.09	18.83	
3	QPSK	8	0	18.20	18.31	18.09	19
3	QPSK	8	4	18.30	18.28	18.21	
3	QPSK	8	7	18.02	18.07	18.05	
3	QPSK	15	0	18.07	18.06	18.10	19
3	16QAM	1	0	18.21	18.05	18.06	
3	16QAM	1	8	18.21	18.39	18.20	
3	16QAM	1	14	18.13	18.11	18.11	18
3	16QAM	8	0	17.16	17.04	17.00	
3	16QAM	8	4	17.02	17.04	17.03	
3	16QAM	8	7	17.13	17.05	17.02	18
3	16QAM	15	0	17.19	17.06	17.03	
3	64QAM	1	0	17.17	17.23	17.18	
3	64QAM	1	8	17.11	17.05	17.15	18
3	64QAM	1	14	17.23	17.04	17.20	
3	64QAM	8	0	17.17	17.06	17.06	
3	64QAM	8	4	17.26	17.09	17.11	18
3	64QAM	8	7	17.12	17.06	17.04	
3	64QAM	15	0	17.05	17.11	17.05	
Channel				20407	20525	20643	Tune-up limit (dBm)
Frequency (MHz)				824.7	836.5	848.3	
1.4	QPSK	1	0	19.19	19.20	19.07	20
1.4	QPSK	1	3	19.12	19.12	19.01	
1.4	QPSK	1	5	19.08	19.13	18.86	
1.4	QPSK	3	0	19.08	19.19	18.93	19
1.4	QPSK	3	1	19.14	19.11	19.04	
1.4	QPSK	3	3	19.03	19.07	19.10	
1.4	QPSK	6	0	18.14	18.04	18.05	19
1.4	16QAM	1	0	18.21	18.09	18.02	
1.4	16QAM	1	3	18.21	18.39	18.17	
1.4	16QAM	1	5	18.19	18.16	18.08	19
1.4	16QAM	3	0	18.24	18.17	18.19	
1.4	16QAM	3	1	18.23	18.18	18.12	
1.4	16QAM	3	3	18.24	18.24	18.22	18
1.4	16QAM	6	0	17.35	17.21	17.18	
1.4	64QAM	1	0	17.38	17.40	17.26	
1.4	64QAM	1	3	17.19	17.16	17.21	18
1.4	64QAM	1	5	17.35	17.11	17.35	
1.4	64QAM	3	0	17.29	17.28	17.21	
1.4	64QAM	3	1	17.36	17.17	17.20	18
1.4	64QAM	3	3	17.19	17.19	17.16	
1.4	64QAM	6	0	17.27	17.24	17.24	

Band 7 (2600MHz Band) (dBm)							
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	17.12	17.18	17.14	18
20	QPSK	1	49	17.04	17.11	17.16	
20	QPSK	1	99	17.15	17.16	17.17	
20	QPSK	50	0	16.25	16.38	16.37	17
20	QPSK	50	24	16.32	16.37	16.36	
20	QPSK	50	50	16.35	16.34	16.36	
20	QPSK	100	0	16.40	16.41	16.33	17
20	16QAM	1	0	16.26	16.20	16.25	
20	16QAM	1	49	16.33	16.32	16.24	
20	16QAM	1	99	16.34	16.39	16.35	16
20	16QAM	50	0	15.24	15.39	15.45	
20	16QAM	50	24	15.28	15.33	15.25	
20	16QAM	50	50	15.27	15.38	15.23	16
20	16QAM	100	0	15.26	15.31	15.36	
20	64QAM	1	0	15.29	15.33	15.37	
20	64QAM	1	49	15.33	15.39	15.14	16
20	64QAM	1	99	15.28	15.15	15.05	
20	64QAM	50	0	15.25	15.29	15.33	
20	64QAM	50	24	15.25	15.38	15.17	16
20	64QAM	50	50	15.22	15.37	15.31	
20	64QAM	100	0	15.30	15.29	15.19	
Channel				20825	21100	21375	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	17.06	17.16	17.10	18
15	QPSK	1	37	16.96	17.03	17.08	
15	QPSK	1	74	17.08	17.13	17.15	
15	QPSK	36	0	16.22	16.37	16.29	17
15	QPSK	36	20	16.22	16.35	16.30	
15	QPSK	36	39	16.29	16.33	16.34	
15	QPSK	75	0	16.32	16.29	16.24	17
15	16QAM	1	0	16.22	16.19	16.17	
15	16QAM	1	37	16.28	16.23	16.23	
15	16QAM	1	74	16.31	16.38	16.25	16
15	16QAM	36	0	15.17	15.37	15.44	
15	16QAM	36	20	15.25	15.24	15.20	
15	16QAM	36	39	15.23	15.37	15.16	16
15	16QAM	75	0	15.24	15.30	15.35	
15	64QAM	1	0	15.25	15.23	15.35	
15	64QAM	1	37	15.24	15.34	15.10	16
15	64QAM	1	74	15.20	15.10	15.03	
15	64QAM	36	0	15.15	15.21	15.24	
15	64QAM	36	20	15.20	15.34	15.14	16
15	64QAM	36	39	15.12	15.33	15.30	
15	64QAM	75	0	15.29	15.21	15.17	
Channel				20800	21100	21400	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	17.00	17.13	17.11	18
10	QPSK	1	25	17.00	17.09	17.06	
10	QPSK	1	49	17.07	17.07	17.10	
10	QPSK	25	0	16.17	16.36	16.27	17
10	QPSK	25	12	16.27	16.33	16.31	
10	QPSK	25	25	16.30	16.24	16.35	
10	QPSK	50	0	16.39	16.36	16.31	17
10	16QAM	1	0	16.18	16.16	16.17	
10	16QAM	1	25	16.29	16.30	16.14	
10	16QAM	1	49	16.28	16.30	16.33	16
10	16QAM	25	0	15.22	15.30	15.43	
10	16QAM	25	12	15.25	15.30	15.15	
10	16QAM	25	25	15.24	15.30	15.17	16
10	16QAM	50	0	15.21	15.30	15.35	
10	64QAM	1	0	15.28	15.31	15.36	
10	64QAM	1	25	15.24	15.34	15.11	16
10	64QAM	1	49	15.24	15.05	14.97	
10	64QAM	25	0	15.16	15.23	15.28	
10	64QAM	25	12	15.21	15.37	15.15	16
10	64QAM	25	25	15.19	15.27	15.25	
10	64QAM	50	0	15.23	15.28	15.11	
Channel							

Band 12 (700MHz Low Band) (dBm) Part 27F(only on channel required)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				23060	23095	23130	21
Frequency (MHz)				704	707.5	711	
10	QPSK	1	0	20.06	20.11	19.99	21
10	QPSK	1	25	19.99	20.02	20.03	
10	QPSK	1	49	19.89	20.04	20.06	
10	QPSK	25	0	19.22	19.27	19.26	20
10	QPSK	25	12	19.24	19.15	19.22	
10	QPSK	25	25	19.24	19.19	19.16	
10	QPSK	50	0	19.18	19.27	19.23	20
10	16QAM	1	0	19.42	19.39	19.26	
10	16QAM	1	25	19.17	19.24	19.24	
10	16QAM	1	49	19.22	19.17	19.28	19
10	16QAM	25	0	18.20	18.22	18.33	
10	16QAM	25	12	18.18	18.23	18.20	
10	16QAM	25	25	18.30	18.27	18.29	19
10	16QAM	50	0	18.34	18.28	18.25	
10	64QAM	1	0	18.34	18.29	18.19	
10	64QAM	1	25	18.40	18.35	18.33	19
10	64QAM	1	49	18.46	18.48	18.42	
10	64QAM	25	0	18.18	18.38	18.22	
10	64QAM	25	12	18.25	18.31	18.33	19
10	64QAM	25	25	18.20	18.27	18.21	
10	64QAM	50	0	18.24	18.22	18.25	
Channel				23035	23095	23155	21
Frequency (MHz)				701.5	707.5	713.5	
5	QPSK	1	0	19.86	20.01	19.89	21
5	QPSK	1	12	19.94	20.01	19.94	
5	QPSK	1	24	19.88	19.99	20.00	
5	QPSK	12	0	19.19	19.20	19.22	20
5	QPSK	12	7	19.15	19.10	19.19	
5	QPSK	12	13	19.16	19.11	19.15	
5	QPSK	25	0	19.17	19.14	19.19	20
5	16QAM	1	0	19.38	19.34	19.16	
5	16QAM	1	12	19.07	19.22	19.22	
5	16QAM	1	24	19.17	19.16	19.21	19
5	16QAM	12	0	18.11	18.20	18.25	
5	16QAM	12	7	18.17	18.15	18.12	
5	16QAM	12	13	18.22	18.19	18.23	19
5	16QAM	25	0	18.32	18.18	18.23	
5	64QAM	1	0	18.32	18.21	18.15	
5	64QAM	1	12	18.32	18.28	18.31	19
5	64QAM	1	24	18.42	18.44	18.32	
5	64QAM	12	0	18.14	18.33	18.19	
5	64QAM	12	7	18.18	18.28	18.26	19
5	64QAM	12	13	18.16	18.22	18.12	
5	64QAM	25	0	18.23	18.19	18.24	
Channel				23025	23095	23165	21
Frequency (MHz)				700.5	707.5	714.5	
3	QPSK	1	0	19.91	20.09	19.97	21
3	QPSK	1	8	19.97	19.97	20.02	
3	QPSK	1	14	19.87	20.03	19.96	
3	QPSK	8	0	19.21	19.21	19.21	20
3	QPSK	8	4	19.19	19.05	19.18	
3	QPSK	8	7	19.15	19.14	19.09	
3	QPSK	15	0	19.12	19.14	19.18	20
3	16QAM	1	0	19.35	19.34	19.16	
3	16QAM	1	8	19.12	19.17	19.22	
3	16QAM	1	14	19.12	19.12	19.26	19
3	16QAM	8	0	18.18	18.16	18.31	
3	16QAM	8	4	18.09	18.13	18.12	
3	16QAM	8	7	18.27	18.23	18.24	19
3	16QAM	15	0	18.33	18.23	18.15	
3	64QAM	1	0	18.30	18.24	18.15	
3	64QAM	1	8	18.37	18.34	18.25	19
3	64QAM	1	14	18.39	18.41	18.35	
3	64QAM	8	0	18.16	18.37	18.12	
3	64QAM	8	4	18.16	18.23	18.29	19
3	64QAM	8	7	18.19	18.20	18.15	
3	64QAM	15	0	18.18	18.16	18.17	
Channel				23017	23095	23173	21
Frequency (MHz)				699.7	707.5	715.3	
1.4	QPSK	1	0	19.90	20.10	19.91	21
1.4	QPSK	1	3	19.97	19.96	20.00	
1.4	QPSK	1	5	19.88	19.94	19.99	
1.4	QPSK	3	0	20.01	20.05	20.05	20
1.4	QPSK	3	1	20.06	19.94	20.03	
1.4	QPSK	3	3	19.98	19.94	19.92	
1.4	QPSK	6	0	19.13	19.13	19.15	20
1.4	16QAM	1	0	19.37	19.32	19.24	
1.4	16QAM	1	3	19.10	19.15	19.17	
1.4	16QAM	1	5	19.21	19.07	19.25	20
1.4	16QAM	3	0	19.11	19.21	19.25	
1.4	16QAM	3	1	19.12	19.14	19.11	
1.4	16QAM	3	3	19.27	19.22	19.25	19
1.4	16QAM	6	0	18.28	18.19	18.21	
1.4	64QAM	1	0	18.32	18.21	18.11	
1.4	64QAM	1	3	18.32	18.27	18.29	19
1.4	64QAM	1	5	18.45	18.43	18.36	
1.4	64QAM	3	0	18.16	18.31	18.21	
1.4	64QAM	3	1	18.16	18.24	18.32	19
1.4	64QAM	3	3	18.15	18.23	18.11	
1.4	64QAM	6	0	18.22	18.12	18.24	

Band 17 (700MHz Band) (dBm) 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	21
Frequency (MHz)				709	710	711	
10	QPSK	1	0	20.05	20.07	19.92	21
10	QPSK	1	25	20.04	20.06	20.02	
10	QPSK	1	49	19.95	20.03	20.05	
10	QPSK	25	0	19.15	19.16	19.14	20
10	QPSK	25	12	19.12	19.11	19.11	
10	QPSK	25	25	19.13	19.07	19.08	
10	QPSK	50	0	19.14	19.12	19.12	20
10	16QAM	1	0	19.26	19.42	19.09	
10	16QAM	1	25	19.08	19.14	19.19	
10	16QAM	1	49	19.22	19.28	19.30	19
10	16QAM	25	0	18.15	18.19	18.07	
10	16QAM	25	12	18.21	18.23	18.22	
10	16QAM	25	25	18.23	18.17	18.16	19
10	16QAM	50	0	18.08	18.12	18.13	
10	64QAM	1	0	18.13	18.32	18.21	
10	64QAM	1	25	18.36	18.40	18.27	19
10	64QAM	1	49	18.21	18.20	18.18	
10	64QAM	25	0	18.09	18.21	18.10	
10	64QAM	25	12	18.08	18.15	18.12	19
10	64QAM	25	25	18.16	18.19	18.15	
10	64QAM	50	0	18.12	18.08	18.13	
Channel				23755	23790	23825	21
Frequency (MHz)				706.5	710	713.5	
5	QPSK	1	0	20.04	20.05	19.91	21
5	QPSK	1	12	19.97	20.00	20.01	
5	QPSK	1	24	19.92	19.96	19.99	
5	QPSK	12	0	19.08	19.11	19.11	20
5	QPSK	12	7	19.03	19.01	19.03	
5	QPSK	12	13	19.03	19.00	19.06	
5	QPSK	25	0	19.09	19.05	19.07	20
5	16QAM	1	0	19.23	19.32	19.02	
5	16QAM	1	12	19.07	19.07	19.09	
5	16QAM	1	24	19.13	19.21	19.20	19
5	16QAM	12	0	18.12	18.15	18.00	
5	16QAM	12	7	18.13	18.14	18.18	
5	16QAM	12	13	18.22	18.13	18.08	19
5	16QAM	25	0	18.04	18.11	18.04	
5	64QAM	1	0	18.10	18.31	18.17	
5	64QAM	1	12	18.35	18.35	18.19	19
5	64QAM	1	24	18.13	18.19	18.14	
5	64QAM	12	0	17.99	18.14	18.00	
5	64QAM	12	7	17.99	18.10	18.09	19
5	64QAM	12	13	18.13	18.15	18.06	
5	64QAM	25	0	18.03	18.07	18.11	

Band 18 (835MHz Band) (dBm)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				23925			20
Frequency (MHz)				822.5			
15	QPSK	1	0		19.15		20
15	QPSK	1	37		18.96		
15	QPSK	1	74		18.96		
15	QPSK	36	0		18.29		19
15	QPSK	36	20		18.02		
15	QPSK	36	39		18.06		
15	QPSK	75	0		18.06		19
15	16QAM	1	0		18.11		
15	16QAM	1	37		18.42		
15	16QAM	1	74		18.34		18
15	16QAM	36	0		17.27		
15	16QAM	36	20		17.24		
15	16QAM	36	39		17.18		18
15	16QAM	75	0		17.25		
15	64QAM	1	0		17.38		
15	64QAM	1	25		17.18		18
15	64QAM	1	49		17.05		
15	64QAM	25	0		17.37		
15	64QAM	25	12		17.20		18
15	64QAM	25	25		17.27		
15	64QAM	50	0		17.36		
Channel				23900	23925	23950	20
Frequency (MHz)				820	822.5	825	
10	QPSK	1	0	19.06	19.02	18.98	20
10	QPSK	1	25	19.05	19.01	19.00	
10	QPSK	1	49	18.97	19.03	19.02	
10	QPSK	25	0	18.13	18.31	18.47	19
10	QPSK	25	12	18.25	18.34	18.42	
10	QPSK	25	25	18.08	18.36	18.42	
10	QPSK	50	0	18.11	18.28	18.41	19
10	16QAM	1	0	18.59	18.64	18.36	
10	16QAM	1	25	18.76	18.32	18.69	
10	16QAM	1	49	18.60	18.65	18.81	19
10	16QAM	25	0	17.04	17.07	17.28	
10	16QAM	25	12	17.04	17.11	17.23	
10	16QAM	25	25	17.56	17.20	17.23	18
10	16QAM	50	0	17.05	17.17	17.21	
10	64QAM	1	0	16.97	17.55	16.98	
10	64QAM	1	25	17.01	17.22	17.06	18
10	64QAM	1	49	17.06	17.06	16.98	
10	64QAM	25	0	17.12	17.17	17.41	
10	64QAM	25	12	17.25	17.33	17.27	18
10	64QAM	25	25	17.10	17.28	17.30	
10	64QAM	50	0	17.07	17.26	17.42	
Channel				23875	23925	23975	20
Frequency (MHz)				817.5	822.5	827.5	
5	QPSK	1	0	18.96	18.93	18.98	20
5	QPSK	1	12	18.87	18.95	18.87	
5	QPSK	1	24	18.92	18.88	18.94	
5	QPSK	12	0	18.19	18.03	18.22	19
5	QPSK	12	7	18.36	18.10	17.99	
5	QPSK	12	13	18.36	18.09	18.20	
5	QPSK	25	0	18.21	18.01	18.11	19
5	16QAM	1	0	18.32	18.26	18.27	
5	16QAM	1	12	18.31	18.20	18.23	
5	16QAM	1	24	18.29	18.14	18.14	18
5	16QAM	12	0	17.63	17.26	17.33	
5	16QAM	12	7	17.57	17.24	17.28	
5	16QAM	12	13	17.33	17.30	17.24	18
5	16QAM	25	0	17.40	17.27	17.37	
5	64QAM	1	0	17.10	17.54	17.33	
5	64QAM	1	12	17.40	17.50	17.24	18
5	64QAM	1	24	17.34	17.50	17.40	
5	64QAM	12	0	17.23	17.28	17.18	
5	64QAM	12	7	17.23	17.32	17.18	18
5	64QAM	12	13	17.50	17.38	17.17	
5	64QAM	25	0	17.50	17.36	17.15	

Band 19 (835MHz Band) (dBm)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				24075			20
Frequency (MHz)				837.5			
15	QPSK	1	0		19.19		20
15	QPSK	1	37		19.10		
15	QPSK	1	74		19.09		
15	QPSK	36	0		18.55		19
15	QPSK	36	20		18.30		
15	QPSK	36	39		18.17		
15	QPSK	75	0		18.18		19
15	16QAM	1	0		18.31		
15	16QAM	1	37		18.23		
15	16QAM	1	74		18.16		18
15	16QAM	36	0		17.38		
15	16QAM	36	20		17.27		
15	16QAM	36	39		17.34		18
15	16QAM	75	0		17.44		
15	64QAM	1	0		17.46		
15	64QAM	1	25		17.28		18
15	64QAM	1	49		17.24		
15	64QAM	25	0		17.45		
15	64QAM	25	12		17.45		18
15	64QAM	25	25		17.51		
15	64QAM	50	0		17.48		
Channel				24050	24075	24100	20
Frequency (MHz)				835	837.5	840	
10	QPSK	1	0	19.07	19.11	19.08	20
10	QPSK	1	25	19.10	19.09	19.02	
10	QPSK	1	49	18.96	19.09	19.01	
10	QPSK	25	0	18.49	18.30	18.16	19
10	QPSK	25	12	18.45	18.27	18.06	
10	QPSK	25	25	18.44	18.28	18.13	
10	QPSK	50	0	18.45	18.33	18.15	19
10	16QAM	1	0	18.17	18.49	18.26	
10	16QAM	1	25	18.26	18.35	18.40	
10	16QAM	1	49	18.20	18.19	18.17	18
10	16QAM	25	0	17.46	17.60	17.89	
10	16QAM	25	12	17.47	17.63	17.71	
10	16QAM	25	25	17.64	17.52	17.58	18
10	16QAM	50	0	17.81	17.68	17.70	
10	64QAM	1	0	17.54	17.54	17.36	
10	64QAM	1	25	17.64	17.36	17.38	18
10	64QAM	1	49	17.36	17.35	17.35	
10	64QAM	25	0	17.71	17.48	17.43	
10	64QAM	25	12	17.47	17.49	17.42	18
10	64QAM	25	25	17.37	17.50	17.25	
10	64QAM	50	0	17.67	17.46	17.39	
Channel				24025	24075	24125	20
Frequency (MHz)				832.5	837.5	842.5	
5	QPSK	1	0	19.06	19.11	19.07	20
5	QPSK	1	12	19.01	19.05	19.07	
5	QPSK	1	24	18.97	19.09	19.09	
5	QPSK	12	0	18.43	18.25	18.14	19
5	QPSK	12	7	18.53	18.24	18.24	
5	QPSK	12	13	18.42	18.19	18.13	
5	QPSK	25	0	18.46	18.27	18.32	19
5	16QAM	1	0	18.17	18.17	18.18	
5	16QAM	1	12	18.21	18.11	18.08	
5	16QAM	1	24	18.26	18.26	18.31	18
5	16QAM	12	0	17.79	17.61	17.59	
5	16QAM	12	7	17.64	17.66	17.35	
5	16QAM	12	13	17.76	17.61	17.40	18
5	16QAM	25	0	17.31	17.45	17.42	
5	64QAM	1	0	17.55	17.37	17.35	
5	64QAM	1	12	17.44	17.55	17.36	18
5	64QAM	1	24	17.38	17.35	17.35	
5	64QAM	12	0	17.65	17.43	17.26	
5	64QAM	12	7	17.24	17.56	17.27	18
5	64QAM	12	13	17.64	17.53	17.19	
5	64QAM	25	0	17.64	17.43	17.25	

Band 26 for FCC (dBm) (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	20.21	20.22	20.17	21
15	QPSK	1	37	20.19	20.13	20.20	
15	QPSK	1	74	20.18	20.20	19.87	
15	QPSK	36	0	19.30	19.33	19.24	20
15	QPSK	36	20	19.26	19.30	19.16	
15	QPSK	36	39	19.31	19.32	19.26	
15	QPSK	75	0	19.28	19.22	19.19	20
15	16QAM	1	0	19.30	19.14	19.28	
15	16QAM	1	37	19.14	19.17	19.15	
15	16QAM	1	74	19.01	19.11	19.06	19
15	16QAM	36	0	18.27	18.28	18.21	
15	16QAM	36	20	18.00	18.21	18.20	
15	16QAM	36	39	18.26	18.29	18.27	19
15	16QAM	75	0	18.32	18.31	18.25	
15	64QAM	1	0	18.17	18.29	18.30	
15	64QAM	1	37	18.33	18.29	18.26	19
15	64QAM	1	74	18.16	18.14	18.02	
15	64QAM	36	0	18.30	18.20	18.24	
15	64QAM	36	20	18.21	18.23	18.12	19
15	64QAM	36	39	18.25	18.27	18.23	
15	64QAM	75	0	18.21	18.31	18.16	
Channel				26740	26865	26990	
Frequency (MHz)				819	831.5	844	
10	QPSK	1	0	20.11	20.19	20.14	21
10	QPSK	1	25	20.13	20.07	20.10	
10	QPSK	1	49	20.14	20.16	19.81	
10	QPSK	25	0	19.24	19.28	19.15	20
10	QPSK	25	12	19.22	19.28	19.08	
10	QPSK	25	25	19.30	19.27	19.18	
10	QPSK	50	0	19.26	19.15	19.52	20
10	16QAM	1	0	19.25	19.13	19.18	
10	16QAM	1	25	19.06	19.15	19.08	
10	16QAM	1	49	18.91	19.02	19.04	19
10	16QAM	25	0	18.17	18.27	18.11	
10	16QAM	25	12	17.99	18.19	18.17	
10	16QAM	25	25	18.18	18.19	18.20	19
10	16QAM	50	0	18.24	18.25	18.20	
10	64QAM	1	0	18.11	18.23	18.28	
10	64QAM	1	25	18.31	18.26	18.17	19
10	64QAM	1	49	18.13	18.13	17.98	
10	64QAM	25	0	18.23	18.14	18.17	
10	64QAM	25	12	18.18	18.22	18.11	19
10	64QAM	25	25	18.16	18.26	18.16	
10	64QAM	50	0	18.14	18.24	18.07	
Channel				26715	26865	27015	
Frequency (MHz)				816.5	831.5	846.5	
5	QPSK	1	0	20.17	20.20	20.14	21
5	QPSK	1	12	20.14	20.07	20.16	
5	QPSK	1	24	20.10	20.11	19.82	
5	QPSK	12	0	19.20	19.31	19.15	20
5	QPSK	12	7	19.19	19.21	19.08	
5	QPSK	12	13	19.26	19.27	19.21	
5	QPSK	25	0	19.25	19.16	19.50	20
5	16QAM	1	0	19.25	19.10	19.25	
5	16QAM	1	12	19.08	19.15	19.10	
5	16QAM	1	24	18.96	19.04	18.96	19
5	16QAM	12	0	18.26	18.20	18.19	
5	16QAM	12	7	17.97	18.20	18.16	
5	16QAM	12	13	18.24	18.23	18.23	19
5	16QAM	25	0	18.22	18.27	18.21	
5	64QAM	1	0	18.09	18.27	18.23	
5	64QAM	1	12	18.24	18.25	18.17	19
5	64QAM	1	24	18.10	18.09	17.96	
5	64QAM	12	0	18.22	18.13	18.20	
5	64QAM	12	7	18.11	18.21	18.05	19
5	64QAM	12	13	18.16	18.26	18.18	
5	64QAM	25	0	18.13	18.24	18.13	
Channel				26705	26865	27025	
Frequency (MHz)				815.5	831.5	847.5	
3	QPSK	1	0	20.12	20.16	20.15	21
3	QPSK	1	8	20.11	20.07	20.10	
3	QPSK	1	14	20.15	20.16	19.77	
3	QPSK	8	0	19.24	19.26	19.14	20
3	QPSK	8	4	19.19	19.27	19.06	
3	QPSK	8	7	19.26	19.25	19.22	
3	QPSK	15	0	19.22	19.22	19.57	20
3	16QAM	1	0	19.27	19.04	19.26	
3	16QAM	1	8	19.13	19.12	19.07	
3	16QAM	1	14	18.94	19.01	19.05	19
3	16QAM	8	0	18.22	18.25	18.13	
3	16QAM	8	4	17.97	18.12	18.18	
3	16QAM	8	7	18.19	18.24	18.24	19
3	16QAM	15	0	18.24	18.27	18.15	
3	64QAM	1	0	18.13	18.24	18.29	
3	64QAM	1	8	18.28	18.22	18.23	19
3	64QAM	1	14	18.07	18.04	18.18	
3	64QAM	8	0	18.26	18.17	18.19	
3	64QAM	8	4	18.11	18.15	18.05	19
3	64QAM	8	7	18.22	18.21	18.20	
3	64QAM	15	0	18.19	18.25	18.09	
Channel				26697	26865	27033	
Frequency (MHz)				814.7	831.5	848.3	
1.4	QPSK	1	0	20.13	20.17	20.14	21
1.4	QPSK	1	3	20.13	20.12	20.11	
1.4	QPSK	1	5	20.15	20.11	20.07	
1.4	QPSK	3	0	20.21	20.06	20.02	

Band 66 (dBm)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				132072	132322	132572	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	18.09	18.21	18.12	19
20	QPSK	1	49	17.90	18.02	17.87	
20	QPSK	1	99	17.98	17.98	17.95	
20	QPSK	50	0	17.10	17.15	17.13	18
20	QPSK	50	24	17.03	17.11	17.10	
20	QPSK	50	50	17.14	17.09	17.11	
20	QPSK	100	0	17.10	17.15	17.12	18
20	16QAM	1	0	17.40	17.35	17.37	
20	16QAM	1	49	17.27	17.36	17.13	
20	16QAM	1	99	17.21	17.28	17.36	17
20	16QAM	50	0	16.21	16.14	16.13	
20	16QAM	50	24	16.33	16.28	16.16	
20	16QAM	50	50	16.26	16.25	16.22	17
20	16QAM	100	0	16.27	16.24	16.14	
20	64QAM	1	0	16.50	16.47	16.48	
20	64QAM	1	49	16.38	16.48	16.22	17
20	64QAM	1	99	16.29	16.42	16.43	
20	64QAM	50	0	16.18	16.13	16.13	
20	64QAM	50	24	16.25	16.23	16.15	17
20	64QAM	50	50	16.18	16.19	16.19	
20	64QAM	100	0	16.29	16.18	16.07	
Channel				132047	132322	132597	
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	17.80	18.00	17.96	19
15	QPSK	1	37	17.88	17.95	17.77	
15	QPSK	1	74	17.92	17.97	17.91	
15	QPSK	36	0	16.88	16.92	16.91	18
15	QPSK	36	20	16.94	17.07	17.09	
15	QPSK	36	39	17.05	17.05	17.06	
15	QPSK	75	0	16.90	16.94	17.06	18
15	16QAM	1	0	17.38	17.28	17.35	
15	16QAM	1	37	17.22	17.32	17.09	
15	16QAM	1	74	17.16	17.19	17.29	17
15	16QAM	36	0	16.19	16.09	16.11	
15	16QAM	36	20	16.22	16.26	16.15	
15	16QAM	36	39	16.20	16.16	16.14	17
15	16QAM	75	0	16.20	16.16	16.04	
15	64QAM	1	0	16.45	16.43	16.41	
15	64QAM	1	37	16.29	16.38	16.18	17
15	64QAM	1	74	16.18	16.37	16.41	
15	64QAM	36	0	16.06	16.12	16.05	
15	64QAM	36	20	16.15	16.13	16.14	17
15	64QAM	36	39	16.09	16.17	16.09	
15	64QAM	75	0	16.27	16.16	16.00	
Channel				132022	132322	132622	
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	17.90	18.00	17.98	19
10	QPSK	1	25	17.78	17.99	17.79	
10	QPSK	1	49	17.88	17.92	17.86	
10	QPSK	25	0	16.88	16.96	16.97	18
10	QPSK	25	12	16.96	17.04	17.02	
10	QPSK	25	25	17.05	17.04	17.05	
10	QPSK	50	0	16.96	16.85	17.11	18
10	16QAM	1	0	17.39	17.29	17.33	
10	16QAM	1	25	17.20	17.32	17.05	
10	16QAM	1	49	17.17	17.23	17.28	17
10	16QAM	25	0	16.09	16.11	16.05	
10	16QAM	25	12	16.30	16.22	16.11	
10	16QAM	25	25	16.15	16.22	16.15	17
10	16QAM	50	0	16.22	16.15	16.10	
10	64QAM	1	0	16.38	16.45	16.38	
10	64QAM	1	25	16.36	16.42	16.16	17
10	64QAM	1	49	16.18	16.39	16.37	
10	64QAM						

1.4	QPSK	3	1	20.08	20.09	20.01	20
1.4	QPSK	3	3	20.06	20.05	20.02	
1.4	QPSK	6	0	19.22	19.16	19.16	
1.4	16QAM	1	0	19.29	19.04	19.26	20
1.4	16QAM	1	3	19.06	19.09	19.10	
1.4	16QAM	1	5	18.97	19.10	18.96	
1.4	16QAM	3	0	19.25	19.18	19.11	
1.4	16QAM	3	1	19.06	19.11	19.14	
1.4	16QAM	3	3	19.24	19.20	19.24	
1.4	16QAM	6	0	18.28	18.21	18.23	19
1.4	64QAM	1	0	18.12	18.28	18.21	19
1.4	64QAM	1	3	18.32	18.23	18.24	
1.4	64QAM	1	5	18.15	18.09	17.95	
1.4	64QAM	3	0	18.20	18.14	18.18	
1.4	64QAM	3	1	18.18	18.20	18.11	
1.4	64QAM	3	3	18.17	18.22	18.16	
1.4	64QAM	6	0	18.12	18.24	18.14	19

3	QPSK	8	4	16.99	17.02	17.02	18
3	QPSK	8	7	17.05	17.05	17.02	
3	QPSK	15	0	16.94	16.85	17.02	
3	16QAM	1	0	17.35	17.32	17.27	18
3	16QAM	1	8	17.23	17.28	17.11	
3	16QAM	1	14	17.09	17.25	17.35	
3	16QAM	8	0	16.11	16.11	16.06	17
3	16QAM	8	4	16.24	16.21	16.14	
3	16QAM	8	7	16.18	16.17	16.21	
3	16QAM	15	0	16.17	16.15	16.09	17
3	64QAM	1	0	16.49	16.40	16.47	
3	64QAM	1	8	16.36	16.43	16.20	
3	64QAM	1	14	16.24	16.36	16.33	17
3	64QAM	8	0	16.09	16.11	16.03	
3	64QAM	8	4	16.24	16.13	16.14	
3	64QAM	8	7	16.14	16.09	16.13	17
3	64QAM	15	0	16.25	16.12	16.01	
Channel				131979	132322	132665	
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	17.85	18.01	17.97	19
1.4	QPSK	1	3	17.88	17.96	17.85	
1.4	QPSK	1	5	17.89	17.97	17.85	
1.4	QPSK	3	0	17.99	17.97	18.11	18
1.4	QPSK	3	1	18.02	18.04	18.00	
1.4	QPSK	3	3	18.07	18.04	18.01	
1.4	QPSK	6	0	16.98	16.85	17.09	18
1.4	16QAM	1	0	17.32	17.28	17.27	
1.4	16QAM	1	3	17.19	17.31	17.04	
1.4	16QAM	1	5	17.19	17.26	17.30	18
1.4	16QAM	3	0	16.96	17.18	16.97	
1.4	16QAM	3	1	17.16	17.13	16.99	
1.4	16QAM	3	3	17.03	17.06	17.05	17
1.4	16QAM	6	0	16.20	16.16	16.17	
1.4	64QAM	1	0	16.46	16.39	16.38	
1.4	64QAM	1	3	16.30	16.46	16.19	17
1.4	64QAM	1	5	16.27	16.34	16.37	
1.4	64QAM	3	0	16.20	16.15	16.11	
1.4	64QAM	3	1	16.14	16.19	16.13	
1.4	64QAM	3	3	16.14	16.15	16.18	
1.4	64QAM	6	0	16.26	16.13	16.05	

Band 38(only on channel required) (dBm)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	20.19	20.23	20.21	21
20	QPSK	1	49	20.06	20.19	20.03	
20	QPSK	1	99	20.18	20.15	19.97	
20	QPSK	50	0	19.18	19.25	19.20	20
20	QPSK	50	24	19.21	19.22	19.08	
20	QPSK	50	50	19.18	19.11	19.04	
20	QPSK	100	0	19.21	19.24	19.11	20
20	16QAM	1	0	19.31	19.32	19.20	
20	16QAM	1	49	19.21	19.24	19.28	
20	16QAM	1	99	19.13	19.17	19.14	19
20	16QAM	50	0	18.32	18.39	18.20	
20	16QAM	50	24	18.40	18.35	18.37	
20	16QAM	50	50	18.22	18.27	18.20	19
20	16QAM	100	0	18.31	18.32	18.26	
20	64QAM	1	0	18.36	18.43	18.34	
20	64QAM	1	49	18.18	18.26	18.29	19
20	64QAM	1	99	18.25	18.27	18.28	
20	64QAM	50	0	18.24	18.29	18.24	
20	64QAM	50	24	18.28	18.24	18.20	19
20	64QAM	50	50	18.15	18.22	18.09	
20	64QAM	100	0	18.07	18.25	18.11	
Channel				37825	38000	38175	
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	19.94	20.19	20.10	21
15	QPSK	1	37	20.02	20.16	19.95	
15	QPSK	1	74	20.09	20.05	19.94	
15	QPSK	36	0	19.20	19.28	19.17	20
15	QPSK	36	20	19.29	19.25	19.13	
15	QPSK	36	39	19.28	19.15	19.13	
15	QPSK	75	0	19.15	19.07	19.09	20
15	16QAM	1	0	19.30	19.28	19.13	
15	16QAM	1	37	19.14	19.17	19.20	
15	16QAM	1	74	19.10	19.10	19.07	19
15	16QAM	36	0	18.31	18.37	18.13	
15	16QAM	36	20	18.30	18.32	18.34	
15	16QAM	36	39	18.18	18.25	18.18	19
15	16QAM	75	0	18.27	18.23	18.17	
15	64QAM	1	0	18.30	18.33	18.25	
15	64QAM	1	37	18.10	18.24	18.27	19
15	64QAM	1	74	18.24	18.20	18.24	
15	64QAM	36	0	18.14	18.22	18.14	
15	64QAM	36	20	18.24	18.14	18.12	19
15	64QAM	36	39	18.13	18.20	18.04	
15	64QAM	75	0	18.01	18.24	18.10	
Channel				37800	38000	38200	
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	20.01	20.18	20.06	21
10	QPSK	1	25	20.03	20.17	19.98	
10	QPSK	1	49	20.14	20.07	19.99	
10	QPSK	25	0	19.23	19.34	19.20	20
10	QPSK	25	12	19.30	19.30	19.12	
10	QPSK	25	25	19.27	19.15	19.09	
10	QPSK	50	0	19.25	19.25	19.20	20
10	16QAM	1	0	19.25	19.27	19.19	
10	16QAM	1	25	19.18	19.18	19.24	
10	16QAM	1	49	19.10	19.14	19.13	19
10	16QAM	25	0	18.26	18.35	18.15	
10	16QAM	25	12	18.33	18.32	18.34	
10	16QAM	25	25	18.12	18.23	18.11	19
10	16QAM	50	0	18.25	18.26	18.20	
10	64QAM	1	0	18.33	18.42	18.30	
10	64QAM	1	25	18.17	18.18	18.28	19
10	64QAM	1	49	18.23	18.23	18.26	
10	64QAM	25	0	18.18	18.26	18.22	
10	64QAM	25	12	18.27	18.22	18.16	19
10	64QAM	25	25	18.05	18.14	18.01	
10	64QAM	50	0	18.06	18.22	18.10	
Channel				37775	38000	38225	
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	19.93	20.18	20.11	21
5	QPSK	1	12	20.00	20.17	19.99	
5	QPSK	1	24	20.09	20.10	19.94	
5	QPSK	12	0	19.21	19.31	19.22	20
5	QPSK	12	7	19.19	19.14	19.06	
5	QPSK	12	13	19.10	19.09	18.94	
5	QPSK	25	0	19.20	19.14	19.07	20
5	16QAM	1	0	19.28	19.31	19.15	
5	16QAM	1	12	19.20	19.22	19.23	
5	16QAM	1	24	19.12	19.07	19.04	19
5	16QAM	12	0	18.27	18.31	18.16	
5	16QAM	12	7	18.36	18.32	18.33	
5	16QAM	12	13	18.19	18.22	18.17	19
5	16QAM	25	0	18.22	18.25	18.21	
5	64QAM	1	0	18.33	18.41	18.30	
5	64QAM	1	12	18.14	18.20	18.24	19
5	64QAM	1	24	18.21	18.23	18.27	
5	64QAM	12	0	18.15	18.24	18.23	
5	64QAM	12	7	18.27	18.20	18.19	19
5	64QAM	12	13	18.08	18.15	18.03	
5	64QAM	25	0	17.99	18.15	18.03	

Band 40 (2.3G Band-1) (dBm) Part 27D-1 2305MHz ~ 2315MHz							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				38750			
Frequency (MHz)				2310			
10	QPSK	1	0		20.35		21
10	QPSK	1	25		20.24		
10	QPSK	1	49		20.20		
10	QPSK	25	0		19.49		20
10	QPSK	25	12		19.46		
10	QPSK	25	25		19.42		
10	QPSK	50	0		19.48		20
10	16QAM	1	0		19.45		
10	16QAM	1	25		19.59		
10	16QAM	1	49		19.39		19
10	16QAM	25	0		18.44		
10	16QAM	25	12		18.48		
10	16QAM	25	25		18.48		19
10	16QAM	50	0		18.55		
10	64QAM	1	0		18.54		
10	64QAM	1	25		18.48		19
10	64QAM	1	49		18.58		
10	64QAM	25	0		18.27		
10	64QAM	25	12		18.32		19
10	64QAM	25	25		18.38		
10	64QAM	50	0		18.22		
Channel				38725	38750	38775	
Frequency (MHz)				2307.5	2310	2312.5	
5	QPSK	1	0	20.13	20.16	20.07	21
5	QPSK	1	12	19.92	20.28	20.16	
5	QPSK	1	24	20.29	20.21	20.29	
5	QPSK	12	0	19.26	19.35	19.34	20
5	QPSK	12	7	19.25	19.44	19.41	
5	QPSK	12	13	19.37	19.38	19.35	
5	QPSK	25	0	19.29	19.35	19.31	20
5	16QAM	1	0	19.38	19.46	19.40	
5	16QAM	1	12	19.51	19.54	19.40	
5	16QAM	1	24	19.46	19.58	19.58	19
5	16QAM	12	0	18.25	18.30	18.33	
5	16QAM	12	7	18.34	18.27	18.40	
5	16QAM	12	13	18.39	18.48	18.45	19
5	16QAM	25	0	18.26	18.28	18.37	
5	64QAM	1	0	18.32	18.08	18.14	
5	64QAM	1	12	18.31	18.12	18.54	19
5	64QAM	1	24	18.20	18.24	18.39	
5	64QAM	12	0	18.05	18.22	18.10	
5	64QAM	12	7	18.25	18.27	18.17	19
5	64QAM	12	13	18.13	18.18	18.27	
5	64QAM	25	0	18.12	18.19	18.18	

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

BW (MHz)	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				39200			
Frequency (MHz)				2355			
10	QPSK	1	0		20.30		21
10	QPSK	1	25		20.16		
10	QPSK	1	49		20.13		
10	QPSK	25	0		19.42		20
10	QPSK	25	12		19.37		
10	QPSK	25	25		19.29		
10	QPSK	50	0		19.32		20
10	16QAM	1	0		19.45		
10	16QAM	1	25		19.07		
10	16QAM	1	49		19.31		19
10	16QAM	25	0		18.47		
10	16QAM	25	12		18.91		
10	16QAM	25	25		18.77		19
10	16QAM	50	0		18.86		
10	64QAM	1	0		18.37		
10	64QAM	1	25		18.23		19
10	64QAM	1	49		18.14		
10	64QAM	25	0		18.36		
10	64QAM	25	12		18.40		19
10	64QAM	25	25		18.28		
10	64QAM	50	0		18.34		
Channel				39175	39200	39225	Tune-up limit (dBm)
Frequency (MHz)				2352.5	2355	2357.5	
5	QPSK	1	0	20.09	20.13	20.23	21
5	QPSK	1	12	20.13	20.22	20.14	
5	QPSK	1	24	20.00	20.22	20.25	
5	QPSK	12	0	19.23	19.30	19.33	20
5	QPSK	12	7	19.27	19.40	19.36	
5	QPSK	12	13	19.32	19.31	19.40	
5	QPSK	25	0	19.27	19.29	19.30	20
5	16QAM	1	0	19.21	19.43	19.15	
5	16QAM	1	12	19.29	19.29	19.13	
5	16QAM	1	24	19.15	19.45	19.24	19
5	16QAM	12	0	18.42	18.44	18.63	
5	16QAM	12	7	18.37	18.44	18.50	
5	16QAM	12	13	18.33	18.42	18.48	19
5	16QAM	25	0	18.44	18.45	18.54	
5	64QAM	1	0	18.13	18.44	18.49	
5	64QAM	1	12	18.55	18.31	18.37	19
5	64QAM	1	24	18.59	18.30	18.34	
5	64QAM	12	0	18.24	18.31	18.35	
5	64QAM	12	7	18.30	18.32	18.34	19
5	64QAM	12	13	18.33	18.29	18.31	
5	64QAM	25	0	18.26	18.37	18.30	

Band 41 (2496~2690MHz) (dBm)

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	20.16	20.07	20.22	20.06	20.05	21
20	QPSK	1	49	20.07	20.14	19.97	19.99	19.95	
20	QPSK	1	99	20.16	20.01	20.12	20.02	19.94	
20	QPSK	50	0	19.39	19.34	19.40	19.25	19.23	20
20	QPSK	50	24	19.35	19.32	19.26	19.11	19.08	
20	QPSK	50	50	19.37	19.26	19.22	19.05	18.95	
20	QPSK	100	0	19.36	19.32	19.38	19.17	19.25	20
20	16QAM	1	0	19.44	19.46	19.40	19.34	19.35	
20	16QAM	1	49	19.37	19.24	19.34	19.27	19.30	
20	16QAM	1	99	19.30	19.16	19.39	19.25	19.27	19
20	16QAM	50	0	18.45	18.41	18.27	18.21	18.12	
20	16QAM	50	24	18.39	18.24	18.30	18.18	18.15	
20	16QAM	50	50	18.36	18.12	18.15	18.07	18.11	19
20	16QAM	100	0	18.27	18.24	18.30	18.24	18.25	
20	64QAM	1	0	18.35	18.42	18.33	18.23	18.27	
20	64QAM	1	49	18.34	18.06	18.24	18.15	18.17	19
20	64QAM	1	99	18.28	18.19	18.28	18.19	18.22	
20	64QAM	50	0	18.40	18.34	18.21	18.14	17.98	
20	64QAM	50	24	18.30	18.25	18.24	18.12	18.16	19
20	64QAM	50	50	18.17	18.18	18.19	18.08	18.10	
20	64QAM	100	0	18.36	18.31	18.35	18.26	18.25	
Channel				39725	40173	40620	41068	41515	
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	20.11	19.96	20.21	20.00	19.96	21
15	QPSK	1	37	20.06	20.04	19.95	19.94	19.96	
15	QPSK	1	74	20.07	19.95	20.02	19.97	19.93	
15	QPSK	36	0	19.28	19.26	19.36	19.18	19.12	20
15	QPSK	36	20	19.24	19.24	19.22	19.02	19.02	
15	QPSK	36	39	19.36	19.25	19.19	18.96	18.93	
15	QPSK	75	0	19.27	19.26	19.19	19.07	18.98	20
15	16QAM	1	0	19.40	19.34	19.29	19.22	19.29	
15	16QAM	1	37	19.28	19.17	19.32	19.17	19.20	
15	16QAM	1	74	19.26	19.04	19.29	19.22	19.15	19
15	16QAM	36	0	18.38	18.33	18.19	18.11	18.07	
15	16QAM	36	20	18.38	18.15	18.24	18.09	18.12	
15	16QAM	36	39	18.25	18.00	18.06	18.00	18.10	19
15	16QAM	75	0	18.23	18.18	18.29	18.15	18.22	
15	64QAM	1	0	18.24	18.31	18.27	18.13	18.17	
15	64QAM	1	37	18.31	17.98	18.20	18.03	18.08	19
15	64QAM	1	74	18.25	18.16	18.17	18.08	18.18	
15	64QAM	36	0	18.28	18.33	18.11	18.11	17.93	
15	64QAM	36	20	18.19	18.13	18.14	18.03	18.12	19
15	64QAM	36	39	18.12	18.14	18.11	18.07	18.06	
15	64QAM	75	0	18.29	18.22	18.23	18.19	18.23	
Channel				39700	40160	40620	41080	41540	
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	20.07	20.02	20.17	20.00	19.96	21
10	QPSK	1	25	19.99	20.04	19.93	19.99	19.95	
10	QPSK	1	49	20.12	19.96	20.02	20.00	19.97	
10	QPSK	25	0	19.35	19.27	19.32	19.20	19.06	20
10	QPSK	25	12	19.34	19.23	19.25	19.09	18.98	
10	QPSK	25	25	19.36	19.17	19.20	19.02	18.93	
10	QPSK	50	0	19.32	19.24	19.26	19.08	19.00	20
10	16QAM	1	0	19.40	19.35	19.31	19.22	19.28	
10	16QAM	1	25	19.31	19.21	19.24	19.23	19.21	
10	16QAM	1	49	19.27	19.10	19.38	19.21	19.21	19
10	16QAM	25	0	18.34	18.37	18.19	18.16	18.03	
10	16QAM	25	12	18.36	18.20	18.25	18.14	18.04	
10	16QAM	25	25	18.29	18.05	18.08	18.06	18.01	19
10	16QAM	50	0	18.17	18.18	18.26	18.21	18.23	
10	64QAM	1	0	18.30	18.35	18.23	18.16	18.21	
10	64QAM	1	25	18.31	17.96	18.16	18.10	18.08	19
10	64QAM	1	49	18.16	18.11	18.20	18.18	18.12	
10	64QAM	25	0	18.29	18.31	18.11	18.07	17.97	
10	64QAM	25	12	18.26	18.18	18.14	18.10	18.14	19
10	64QAM	25	25	18.16	18.07	18.16	18.05	18.03	
10	64QAM	50	0	18.35	18.29	18.31	18.16	18.21	
Channel				39675	40148	40620	41093	41565	
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	
5	QPSK	1	0	20.05	19.96	20.19	19.98	20.04	21
5	QPSK	1	12	20.05	20.04	19.97	19.96	20.00	
5	QPSK	1	24	20.11	19.94	20.00	19.98	19.99	
5	QPSK	12	0	19.35	19.28	19.33	19.19	19.07	20
5	QPSK	12	7	19.27	19.31	19.18	19.04	19.04	
5	QPSK	12	13	19.25	19.17	19.15	19.02	18.94	
5	QPSK	25	0	19.25	19.30	19.20	19.07	18.94	20
5	16QAM	1	0	19.34	19.38	19.34	19.33	19.33	
5	16QAM	1	12	19.27	19.15	19.23	19.18	19.23	
5	16QAM	1	24	19.19	19.13	19.27	19.24	19.17	19
5	16QAM	12	0	18.34	18.30	18.23	18.09	18.01	
5	16QAM	12	7	18.28	18.18	18.23	18.17	18.06	
5	16QAM	12	13	18.28	18.04	18.06	17.97	18.03	19
5	16QAM	25	0	18.22	18.22	18.25	18.22	18.19	
5	64QAM	1	0	18.29	18.32	18.25	18.15	18.18	
5	64QAM	1	12	18.23	17.96	18.17	18.03	18.13	19
5	64QAM	1	24	18.18	18.09	18.26	18.15	18.20	
5	64QAM	12	0	18.33	18.28	18.18	18.02	17.96	
5	64QAM	12	7	18.18	18.20	18.12	18.04	18.06	19
5	64QAM	12	13	18.08	18.08	18.08	18.04	18.01	
5	64QAM	25	0	18.28	18.23	18.30	18.15	18.22	

n5 (824 ~ 849 MHz)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				166800	167300	167800	
Frequency (MHz)				834	836.5	839	
20	DFT-s-OFDM PI/2 BPSK	1	1	18.20	18.15	18.50	19
20		1	53	18.13	18.26	18.24	
20		1	104	17.91	18.07	18.14	
20		50	1	17.35	17.31	17.33	18
20		50	25	17.40	17.65	17.50	
20		50	50	17.46	17.49	17.36	
20	DFT-s-OFDM QPSK	100	0	17.56	17.33	17.50	19
20		1	1	18.42	18.52	18.41	
20		1	53	18.13	18.28	18.34	
20		1	104	17.82	18.13	18.22	18
20		50	1	17.34	17.50	17.46	
20		50	25	17.25	17.26	17.32	
20	50	50	17.11	17.27	17.32		
20	100	0	17.23	17.35	17.43		
20	DFT-s-OFDM 16QAM	1	1	17.40	17.54	17.55	18
20	DFT-s-OFDM 64QAM	1	1	15.90	16.01	16.05	17
20	DFT-s-OFDM 256QAM	1	1	13.82	14.02	13.87	15
Channel				166300	167300	168300	Tune-up limit (dBm)
Frequency (MHz)				831.5	836.5	841.5	
15	DFT-s-OFDM QPSK	1	1	18.22	18.38	18.26	19
Channel				165800	167300	168800	Tune-up limit (dBm)
Frequency (MHz)				829	836.5	844	
10	DFT-s-OFDM QPSK	1	1	18.37	18.29	18.36	19
Channel				165300	167300	169300	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	DFT-s-OFDM QPSK	1	1	18.41	18.40	18.31	19
Channel				166800	167300	167800	Tune-up limit (dBm)
Frequency (MHz)				834	836.5	839	
20	CP-OFDM QPSK	1	1	17.08	17.03	17.14	18
20	CP-OFDM 16QAM	1	1	16.58	16.53	16.70	17
20	CP-OFDM 64QAM	1	1	15.32	15.32	15.42	16
20	CP-OFDM 256QAM	1	1	12.12	12.16	12.11	13

n41 (2496 ~ 2690MHz)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				509202	513900	518598	523296	528000	
Frequency (MHz)				2546.01	2569.50	2592.99	2616.50	2640.00	
100	DFT-s-OFDM Pi/2 BPSK	1	1	13.02	13.01	12.99	12.75	13.12	14
100		1	136	13.08	13.09	13.16	13.37	13.23	
100		1	272	12.13	12.28	12.32	12.35	12.43	
100		135	1	11.80	11.76	11.81	11.90	11.95	13
100		135	67	12.09	12.08	12.15	12.08	12.03	
100		135	136	11.91	12.02	12.15	12.15	12.16	
100	DFT-s-OFDM QPSK	270	0	11.87	11.90	11.95	12.00	11.98	14
100		1	1	13.27	13.36	13.43	13.23	13.31	
100		1	136	13.07	13.07	13.17	13.25	13.21	
100		1	272	12.11	12.24	12.25	12.38	12.29	13
100		135	1	12.45	12.42	12.55	12.42	12.43	
100		135	67	12.16	12.13	12.24	12.31	12.26	
100	135	136	11.42	11.51	11.58	11.65	11.60	13	
100	270	0	11.37	11.38	11.45	11.52	11.49		
100	DFT-s-OFDM 16QAM	1	1	11.61	12.03	12.00	11.95	12.05	13
100	DFT-s-OFDM 64QAM	1	1	10.46	10.35	10.42	10.45	10.34	11
100	DFT-s-OFDM 256QAM	1	1	8.22	8.30	8.24	8.26	8.28	9
Channel				508200	513399	518598	523797	528996	
Frequency (MHz)				2541	2566.995	2592.99	2618.985	2644.98	
90	DFT-s-OFDM QPSK	1	1	12.83	12.89	12.96	12.96	12.81	14
Channel				507204	512904	518598	524298	529598	
Frequency (MHz)				2536.02	2564.51	2592.99	2621.49	2649.99	
80	DFT-s-OFDM QPSK	1	1	12.82	12.77	12.77	12.85	12.77	14
Channel				505200	511902	518598	525300	531996	
Frequency (MHz)				2526.00	2559.50	2592.99	2626.49	2659.98	
60	DFT-s-OFDM QPSK	1	1	12.87	12.87	12.86	13.12	12.40	14
Channel				504204	511401	518598	525798	532998	
Frequency (MHz)				2521.02	2557.005	2592.99	2628.99	2664.99	
50	DFT-s-OFDM QPSK	1	1	9.31	12.95	12.97	13.28	13.11	14
Channel				503202	510900	518598	526296	534000	
Frequency (MHz)				2516.01	2554.50	2592.99	2631.50	2670.00	
40	DFT-s-OFDM QPSK	1	1	12.71	13.08	13.14	13.20	13.19	14
Channel				502200	510402	518598	526800	534996	
Frequency (MHz)				2511.00	2552.00	2592.99	2633.99	2674.98	
30	DFT-s-OFDM QPSK	1	1	13.00	13.02	13.09	13.19	12.30	14
Channel				501204	509901	518598	527298	535998	
Frequency (MHz)				2506.02	2549.505	2592.99	2636.49	2679.99	
20	DFT-s-OFDM QPSK	1	1	12.85	13.06	13.19	13.20	13.21	14
Channel				509202	513900	518598	523296	528000	
Frequency (MHz)				2546.01	2569.50	2592.99	2616.50	2640.00	
100	CP-OFDM QPSK	1	1	11.52	11.46	11.36	11.41	11.23	12
100	CP-OFDM 16QAM	1	1	10.47	10.92	10.91	10.85	10.92	11.5
100	CP-OFDM 64QAM	1	1	9.28	9.31	9.29	9.42	9.30	10
100	CP-OFDM 256QAM	1	1	6.22	6.14	6.11	6.09	6.14	7

n66 (1710 ~ 1780 MHz)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				344000	349000	354000	Tune-up limit (dBm)
Frequency (MHz)				1720	1745	1770	
20	DFT-s-OFDM PI/2 BPSK	1	1	16.33	16.31	16.16	17
20		1	53	16.22	16.21	15.76	
20		1	104	16.34	16.32	16.21	
20		53	1	15.58	15.60	15.45	16
20		53	26	15.50	15.52	15.30	
20		53	52	15.37	15.44	15.36	
20	DFT-s-OFDM QPSK	106	0	15.79	15.77	15.64	17
20		1	1	16.20	16.39	16.25	
20		1	53	16.16	15.98	16.16	
20		1	104	16.15	16.16	16.28	16
20		53	1	15.53	15.57	15.45	
20		53	26	15.52	15.58	15.47	
20	DFT-s-OFDM 16QAM	53	52	15.45	15.46	15.38	16
20		106	0	15.34	15.20	15.18	
20		1	1	15.41	15.39	15.24	
20	DFT-s-OFDM 64QAM	1	1	14.09	14.08	14.01	15
20	DFT-s-OFDM 256QAM	1	1	12.20	12.10	12.00	13
Channel				343500	349000	354500	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	DFT-s-OFDM QPSK	1	1	16.33	16.26	16.14	17
Channel				343000	349000	355000	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	DFT-s-OFDM QPSK	1	1	16.30	16.19	16.18	17
Channel				342500	349000	355500	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	DFT-s-OFDM QPSK	1	1	16.36	16.26	15.21	17
Channel				344000	349000	354000	Tune-up limit (dBm)
Frequency (MHz)				1720	1745	1770	
20	CP-OFDM QPSK	1	1	15.13	15.10	15.12	16
20	CP-OFDM 16QAM	1	1	14.62	14.60	14.54	15
20	CP-OFDM 64QAM	1	1	13.41	13.41	13.25	14
20	CP-OFDM 256QAM	1	1	9.78	9.86	9.50	10

n77 (3450 MHz ~ 3550 MHz)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			
Frequency (MHz)						3500.01			
100	DFT-s-OFDM Pi/2 BPSK	1	1			12.15			13
100		1	136			11.93			
100		1	271			11.72			
100		135	1			11.33			12
100		135	67			11.21			
100		135	136			11.30			
100		270	0			11.46			
100	DFT-s-OFDM QPSK	1	1			12.21			13
100		1	136			12.18			
100		1	271			12.16			
100		135	1			11.55			12
100		135	67			11.42			
100		135	136			11.38			
100		270	0			11.47			
100	DFT-s-OFDM 16QAM	1	1			11.34			12
100	DFT-s-OFDM 64QAM	1	1			9.90			10.5
100	DFT-s-OFDM 256QAM	1	1			7.49			8
Channel				632668	633000	633334	633666	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3485	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	12.11	11.57	12.18	12.21	12.19	13
Channel				632000	632668	633334	634000	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3490.02	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	11.83	11.73	11.88	11.88	11.67	13
Channel				631334	632334	633334	634332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3485.01	3500.01	3514.98	3529.98	
40	DFT-s-OFDM QPSK	1	1	12.04	12.06	12.11	12.12	12.03	13
Channel				631000	632168	633334	634500	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3482.52	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	11.44	10.50	11.88	12.00	12.06	13
Channel				630668	632000	633334	634666	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3480	3500.01	3519.99	3540	
20	DFT-s-OFDM QPSK	1	1	11.87	11.81	11.93	11.90	11.87	13
Channel						633334			Tune-up limit (dBm)
Frequency (MHz)						3500.01			
100	CP-OFDM QPSK	1	1			10.76			11.5
100	CP-OFDM 16QAM	1	1			10.29			11
100	CP-OFDM 64QAM	1	1			8.68			9.5
100	CP-OFDM 256QAM	1	1			5.63			6

n77 (3700 MHz ~ 3980 MHz)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				650000	653000	656000	659000	662000	
Frequency (MHz)				3750	3795	3840	3885	3930	
100	DFT-s-OFDM Pi/2 BPSK	1	1	11.95	11.84	11.74	11.84	11.89	13
100		1	136	12.02	11.94	11.81	11.80	11.73	
100		1	271	12.04	11.86	11.59	11.42	11.82	
100		135	1	11.18	11.15	11.13	11.10	11.15	12
100		135	67	11.30	11.40	11.55	11.59	11.50	
100	135	136	11.22	11.13	10.98	10.98	10.96		
100	DFT-s-OFDM QPSK	270	0	11.16	11.20	11.02	11.05	11.03	13
100		1	1	12.21	12.22	12.34	12.18	12.22	
100		1	136	11.88	11.85	11.76	11.73	11.70	
100		1	271	11.96	11.72	11.55	11.41	11.77	12
100		135	1	11.58	11.63	11.64	11.58	11.62	
100		135	67	11.46	11.30	11.57	11.58	11.52	
100		135	136	11.32	11.27	11.09	11.12	11.10	
100	270	0	11.25	11.31	11.13	11.18	11.14		
100	DFT-s-OFDM 16QAM	1	1	10.69	10.69	10.65	10.71	10.80	11
100	DFT-s-OFDM 64QAM	1	1	9.21	9.13	8.94	9.17	9.25	10
100	DFT-s-OFDM 256QAM	1	1	6.97	6.88	6.89	6.95	6.86	7.5
Channel				649334	652668	656000	659332	662666	
Frequency (MHz)				3740	3790.005	3840	3889.995	3940	
80	DFT-s-OFDM QPSK	1	1	11.99	11.95	11.92	11.93	11.92	13
Channel				648668	652334	656000	659666	663332	
Frequency (MHz)				3730.005	3785.01	3840	3894.99	3949.995	
60	DFT-s-OFDM QPSK	1	1	12.05	12.02	12.06	11.98	11.86	13
Channel				648000	652000	656000	660000	664000	
Frequency (MHz)				3720	3780	3840	3900	3960	
40	DFT-s-OFDM QPSK	1	1	11.68	12.11	11.94	12.04	11.48	13
Channel				647698	651834	656000	660166	664332	
Frequency (MHz)				3715.005	3777.51	3840	3902.49	3965	
30	DFT-s-OFDM QPSK	1	1	12.23	11.69	12.27	12.20	12.10	13
Channel				647334	651668	656000	660332	664666	
Frequency (MHz)				3710.01	3775.005	3840	3905	3969.99	
20	DFT-s-OFDM QPSK	1	1	12.24	12.26	12.13	12.00	12.04	13
Channel				650000	653000	656000	659000	662000	
Frequency (MHz)				3750	3795	3840	3885	3930	
100	CP-OFDM QPSK	1	1	10.19	10.16	10.15	10.19	10.15	11
100	CP-OFDM 16QAM	1	1	9.46	9.45	9.54	9.61	9.52	10
100	CP-OFDM 64QAM	1	1	8.16	8.08	8.12	8.15	8.04	9
100	CP-OFDM 256QAM	1	1	4.90	5.05	4.95	5.01	5.05	6

Reduced Power Level 2

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	128	189	251		128	189	251		
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8		
GSM 1 Tx slot	30.98	31.01	30.94	32.00	21.98	22.01	21.94	23.00	0.08
GPRS 1 Tx slot	30.99	31.02	30.95	32.00	21.99	22.02	21.95	23.00	
GPRS 2 Tx slots	29.76	29.84	29.81	30.50	23.76	23.84	23.81	24.50	0.08
GPRS 3 Tx slots	27.75	27.77	27.71	28.50	23.49	23.51	23.45	24.24	0.06
GPRS 4 Tx slots	25.58	25.61	25.55	26.50	22.58	22.61	22.55	23.50	0.06
EDGE 1 Tx slot	25.04	25.08	24.91	25.50	16.04	16.08	15.91	16.50	0.17
EDGE 2 Tx slots	23.86	23.91	23.81	24.50	17.86	17.91	17.81	18.50	0.10
EDGE 3 Tx slots	21.94	21.98	21.76	22.50	17.68	17.72	17.50	18.24	0.22
EDGE 4 Tx slots	19.74	19.84	19.71	20.50	16.74	16.84	16.71	17.50	0.13
Mode		Max.	31.02			Max.	23.84		
Attenuator	Cable Loss : 0.6								

GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)	Ch Delta > 0.5
	512	661	810		512	661	810		
TX Channel	512	661	810		512	661	810		
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8		
GSM 1 Tx slot	25.58	25.61	25.54	26.50	16.58	16.61	16.54	17.50	0.09
GPRS 1 Tx slot	25.59	25.62	25.53	26.50	16.59	16.62	16.53	17.50	
GPRS 2 Tx slots	24.43	24.47	24.33	25.00	18.43	18.47	18.33	19.00	0.14
GPRS 3 Tx slots	22.36	22.37	22.39	23.00	18.10	18.11	18.13	18.74	0.03
GPRS 4 Tx slots	20.06	20.11	20.03	21.00	17.06	17.11	17.03	18.00	0.08
EDGE 1 Tx slot	21.61	21.47	21.36	22.00	12.61	12.47	12.36	13.00	0.25
EDGE 2 Tx slots	20.56	20.58	20.43	21.00	14.56	14.58	14.43	15.00	0.15
EDGE 3 Tx slots	18.37	18.41	18.38	19.00	14.11	14.15	14.12	14.74	0.04
EDGE 4 Tx slots	16.40	16.46	16.41	17.00	13.40	13.46	13.41	14.00	0.06
Mode		Max.	25.62			Max.	18.47		
Attenuator	Cable Loss : 0.8								

Band	TX Channel	WCDMA Band II (dBm)			Tune-up Limit (dBm)	WCDMA Band IV (dBm)			Tune-up Limit (dBm)	WCDMA Band V (dBm)			Tune-up Limit (dBm)		
		9262	9400	9538		1312	1413	1513		4132	4182	4233			
	Rx Channel	9662	9800	9938		1537	1638	1738		4357	4407	4458			
	Frequency (MHz)	1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6			
3GPP Rel 99	RMC 12.2Kbps	17.16	17.27	17.24	18.00	20.11	20.15	20.10	21.00	20.17	20.20	20.15	21.00		
3GPP Rel 6	HSDPA Subtest-1	15.91	16.00	16.00	17.00	19.13	19.21	19.03	20.00	19.38	19.35	19.24	20.00		
3GPP Rel 6	HSDPA Subtest-2	15.88	16.01	15.96	17.00	19.10	19.30	19.02	20.00	19.38	19.40	19.29	20.00		
3GPP Rel 6	HSDPA Subtest-3	15.42	15.50	15.43	17.00	18.58	18.76	18.56	20.00	18.88	18.83	18.70	20.00		
3GPP Rel 6	HSDPA Subtest-4	15.37	15.49	15.45	17.00	18.56	18.64	18.56	20.00	18.89	18.85	18.78	20.00		
3GPP Rel 8	DC-HSDPA Subtest-1	15.91	16.03	15.98	17.00	19.15	19.22	19.00	20.00	19.38	19.34	19.24	20.00		
3GPP Rel 8	DC-HSDPA Subtest-2	15.90	16.05	15.99	17.00	19.14	19.24	19.01	20.00	19.35	19.37	19.26	20.00		
3GPP Rel 8	DC-HSDPA Subtest-3	15.42	15.55	15.52	17.00	18.61	18.73	18.47	20.00	18.84	18.86	18.73	20.00		
3GPP Rel 8	DC-HSDPA Subtest-4	15.39	15.54	15.51	17.00	18.57	18.68	18.54	20.00	18.87	18.83	18.74	20.00		
3GPP Rel 6	HSUPA Subtest-1	15.90	16.03	15.98	17.00	19.11	19.19	19.07	20.00	19.36	19.34	19.22	20.00		
3GPP Rel 6	HSUPA Subtest-2	15.45	15.57	15.49	17.00	18.64	18.74	18.59	20.00	18.84	18.87	18.76	20.00		
3GPP Rel 6	HSUPA Subtest-3	15.91	16.01	15.91	17.00	19.05	19.23	19.00	20.00	19.38	19.37	19.23	20.00		
3GPP Rel 6	HSUPA Subtest-4	15.90	16.03	15.99	17.00	19.14	19.22	19.04	20.00	19.37	19.38	19.25	20.00		
3GPP Rel 6	HSUPA Subtest-5	15.91	16.03	15.94	17.00	19.09	19.19	19.07	20.00	19.31	19.36	19.19	20.00		
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	15.38	15.45	15.45	17.00	18.59	18.75	18.55	20.00	18.86	18.81	18.71	20.00		
Attenuator		Cable Loss			0.8		Cable Loss			0.8		Cable Loss			0.6
Mode		Max.	17.27			Max.	20.15			Max.	20.20				

Band	CDMA2000 BC1 (dBm)			Tune-up Limit (dBm)
	25	600	1175	
TX Channel	25	600	1175	
Frequency (MHz)	1851.25	1880	1908.75	
RC1 SO55	19.19	19.23	19.20	20.00
RC3 SO55	19.12	19.18	19.16	20.00
RC3 SO32 (F+SCH)	19.24	19.25	19.22	20.00
RC3 SO32 (+SCH)	19.19	19.20	19.19	20.00
Attenuator	Cable Loss			0.6
Mode		Max.	19.25	

Band 2 (1900MHz Band) (dBm)								
Part 24E								
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)	
Channel				18700	18900	19100	19	
Frequency (MHz)				1860	1880	1900		
20	QPSK	1	0	18.12	18.14	18.07	18	
20	QPSK	1	49	18.11	18.13	18.06		
20	QPSK	1	99	18.03	18.10	18.07		
20	QPSK	50	0	17.17	17.29	17.18		
20	QPSK	50	24	17.21	17.15	17.13		
20	QPSK	50	50	17.18	17.21	17.14		
20	QPSK	100	0	17.21	17.22	17.11	18	
20	16QAM	1	0	17.48	17.39	17.22		
20	16QAM	1	49	17.36	17.45	17.40		
20	16QAM	1	99	17.46	17.23	17.50		
20	16QAM	50	0	16.29	16.24	16.28		
20	16QAM	50	24	16.38	16.23	16.22		
20	16QAM	50	50	16.25	16.28	16.30	17	
20	16QAM	100	0	16.23	16.25	16.21		
20	64QAM	1	0	16.33	16.47	16.42		
20	64QAM	1	49	16.36	16.40	16.30		
20	64QAM	1	99	16.46	16.34	16.16		
20	64QAM	50	0	16.31	16.20	16.20		
20	64QAM	50	24	16.14	16.15	16.22	17	
20	64QAM	50	50	16.27	16.20	16.25		
20	64QAM	100	0	16.19	16.22	16.21		
Channel				18675	18900	19125		19
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	0	18.04	18.09	18.00		18
15	QPSK	1	37	18.08	18.09	18.03		
15	QPSK	1	74	17.94	18.09	18.06		
15	QPSK	36	0	17.13	17.19	17.08	18	
15	QPSK	36	20	17.27	17.08	17.09		
15	QPSK	36	39	17.17	17.14	17.05		
15	QPSK	75	0	17.16	17.14	17.01	18	
15	16QAM	1	0	17.44	17.33	17.16		
15	16QAM	1	37	17.43	17.55	17.35		
15	16QAM	1	74	17.48	17.63	17.49	17	
15	16QAM	36	0	16.28	16.15	16.22		
15	16QAM	36	20	16.34	16.14	16.14		
15	16QAM	36	39	16.21	16.26	16.28	17	
15	16QAM	75	0	16.13	16.21	16.20		
15	64QAM	1	0	16.30	16.46	16.37		
15	64QAM	1	37	16.30	16.30	16.25	17	
15	64QAM	1	74	16.44	16.29	16.10		
15	64QAM	36	0	16.28	16.10	16.13		
15	64QAM	36	20	16.05	16.12	16.15	17	
15	64QAM	36	39	16.23	16.18	16.17		
15	64QAM	75	0	16.13	16.19	16.20		
Channel				18650	18900	19150	19	
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	0	18.11	18.12	18.05	18	
10	QPSK	1	25	18.04	18.08	18.00		
10	QPSK	1	49	17.95	18.09	17.99		
10	QPSK	25	0	17.11	17.28	17.13	18	
10	QPSK	25	12	17.19	17.06	17.12		
10	QPSK	25	25	17.09	17.19	17.07		
10	QPSK	50	0	17.12	17.18	17.05	18	
10	16QAM	1	0	17.42	17.34	17.15		
10	16QAM	1	25	17.42	17.59	17.39		
10	16QAM	1	49	17.44	17.64	17.45	17	
10	16QAM	25	0	16.21	16.20	16.23		
10	16QAM	25	12	16.30	16.16	16.18		
10	16QAM	25	25	16.24	16.19	16.26	17	
10	16QAM	50	0	16.22	16.19	16.12		
10	64QAM	1	0	16.23	16.38	16.40		
10	64QAM	1	25	16.34	16.39	16.28	17	
10	64QAM	1	49	16.41	16.27	16.06		
10	64QAM	25	0	16.30	16.10	16.11		
10	64QAM	25	12	16.06	16.12	16.16	17	
10	64QAM	25	25	16.23	16.18	16.19		
10	64QAM	50	0	16.12	16.13	16.19		
Channel				18625	18900	19175	19	
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	0	18.10	18.10	18.01	18	
5	QPSK	1	12	18.01	18.03	18.05		
5	QPSK	1	24	18.02	18.08	17.98		
5	QPSK	12	0	17.08	17.24	17.12	18	
5	QPSK	12	7	17.22	17.10	17.04		
5	QPSK	12	13	17.15	17.15	17.04		
5	QPSK	25	0	17.19	17.18	17.03	18	
5	16QAM	1	0	17.38	17.37	17.18		
5	16QAM	1	12	17.41	17.57	17.38		
5	16QAM	1	24	17.46	17.57	17.42	17	
5	16QAM	12	0	16.27	16.17	16.24		
5	16QAM	12	7	16.28	16.18	16.14		
5	16QAM	12	13	16.20	16.20	16.26	17	
5	16QAM	25	0	16.14	16.16	16.12		
5	64QAM	1	0	16.24	16.44	16.36		
5	64QAM	1	12	16.27	16.35	16.25	17	
5	64QAM	1	24	16.43	16.31	16.12		
5	64QAM	12	0	16.29	16.19	16.17		
5	64QAM	12	7	16.11	16.08	16.16	17	
5	64QAM	12	13	16.23	16.11	16.24		
5	64QAM	25	0	16.18	16.19	16.12		
Channel				18615	18900	19185	19	
Frequency (MHz)				1851.5	1880	1908.5		
3	QPSK	1	0	18.01	18.11	17.97	19	
3	QPSK	1	8	18.05	18.10	18.01		
3	QPSK	1	14	17.97	18.00	17.98		
3	QPSK	8	0	17.10	17.22	17.14		

Band 4 (AWS Band) (dBm)								
Part 27L (only on channel required)								
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)	
Channel				20050	20175	20300	15.5	
Frequency (MHz)				1720	1732.5	1745		
20	QPSK	1	0	14.62	14.66	14.65	14.5	
20	QPSK	1	49	14.56	14.57	14.58		
20	QPSK	1	99	14.48	14.50	14.53		
20	QPSK	50	0	13.67	13.73	13.60		
20	QPSK	50	24	13.65	13.68	13.69		
20	QPSK	50	50	13.62	13.65	13.71		
20	QPSK	100	0	13.59	13.68	13.63	14.5	
20	16QAM	1	0	13.32	13.57	13.63		
20	16QAM	1	49	13.57	13.63	13.78		
20	16QAM	1	99	13.64	13.63	13.74		
20	16QAM	50	0	12.70	12.66	12.71		
20	16QAM	50	24	12.73	12.62	12.66		
20	16QAM	50	50	12.78	12.64	12.65	13.5	
20	16QAM	100	0	12.70	12.69	12.67		
20	64QAM	1	0	12.82	12.76	12.80		
20	64QAM	1	49	12.62	12.64	12.80		
20	64QAM	1	99	12.72	12.73	12.84		
20	64QAM	50	0	12.64	12.61	12.62		
20	64QAM	50	24	12.63	12.65	12.78	13.5	
20	64QAM	50	50	12.67	12.64	12.82		
20	64QAM	100	0	12.65	12.62	12.73		
Channel				20025	20175	20325		15.5
Frequency (MHz)				1717.5	1732.5	1747.5		
15	QPSK	1	0	14.53	14.54	14.51		15.5
15	QPSK	1	37	14.46	14.42	14.51		
15	QPSK	1	74	14.37	14.40	14.44		
15	QPSK	36	0	13.53	13.62	13.53	14.5	
15	QPSK	36	20	13.57	13.57	13.60		
15	QPSK	36	39	13.51	13.51	13.59		
15	QPSK	75	0	13.46	13.59	13.53	14.5	
15	16QAM	1	0	13.66	13.85	13.48		
15	16QAM	1	37	13.94	13.89	13.89		
15	16QAM	1	74	13.56	13.57	13.63	13.5	
15	16QAM	36	0	12.57	12.60	12.63		
15	16QAM	36	20	12.61	12.56	12.60		
15	16QAM	36	39	12.66	12.50	12.59	13.5	
15	16QAM	75	0	12.62	12.63	12.60		
15	64QAM	1	0	12.70	12.69	12.65		
15	64QAM	1	37	12.67	12.70	12.69	13.5	
15	64QAM	1	74	12.57	12.63	12.78		
15	64QAM	36	0	12.58	12.53	12.55		
15	64QAM	36	20	12.53	12.50	12.66	13.5	
15	64QAM	36	39	12.52	12.55	12.71		
15	64QAM	75	0	12.55	12.48	12.66		
Channel				20000	20175	20350	15.5	
Frequency (MHz)				1715	1732.5	1750		
10	QPSK	1	0	14.50	14.59	14.54	15.5	
10	QPSK	1	25	14.44	14.46	14.46		
10	QPSK	1	49	14.39	14.36	14.39		
10	QPSK	25	0	13.54	13.65	13.47	14.5	
10	QPSK	25	12	13.52	13.60	13.61		
10	QPSK	25	25	13.51	13.57	13.64		
10	QPSK	50	0	13.46	13.54	13.56	14.5	
10	16QAM	1	0	13.67	13.90	13.57		
10	16QAM	1	25	13.88	13.96	13.84		
10	16QAM	1	49	13.72	13.56	13.64	13.5	
10	16QAM	25	0	12.61	12.54	12.62		
10	16QAM	25	12	12.67	12.47	12.55		
10	16QAM	25	25	12.68	12.57	12.54	13.5	
10	16QAM	50	0	12.64	12.57	12.58		
10	64QAM	1	0	12.67	12.63	12.71		
10	64QAM	1	25	12.56	12.57	12.74	13.5	
10								

3	QPSK	8	4	17.18	17.12	17.11	18
3	QPSK	8	7	17.14	17.13	17.11	
3	QPSK	15	0	17.11	17.13	17.05	
3	16QAM	1	0	17.38	17.38	17.15	18
3	16QAM	1	8	17.42	17.56	17.38	
3	16QAM	1	14	17.48	17.59	17.47	
3	16QAM	8	0	16.22	16.15	16.21	17
3	16QAM	8	4	16.35	16.15	16.16	
3	16QAM	8	7	16.15	16.21	16.27	
3	16QAM	15	0	16.14	16.17	16.18	17
3	64QAM	1	0	16.32	16.40	16.40	
3	64QAM	1	8	16.32	16.34	16.21	
3	64QAM	1	14	16.44	16.29	16.06	17
3	64QAM	8	0	16.25	16.10	16.10	
3	64QAM	8	4	16.09	16.08	16.12	
3	64QAM	8	7	16.18	16.12	16.21	17
3	64QAM	15	0	16.12	16.14	16.18	
Channel				18607	18900	19193	
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	18.01	18.09	17.98	19
1.4	QPSK	1	3	18.01	18.04	17.97	
1.4	QPSK	1	5	17.97	18.08	18.02	
1.4	QPSK	3	0	18.11	18.06	18.11	
1.4	QPSK	3	1	18.10	18.10	18.08	
1.4	QPSK	3	3	18.08	18.12	18.12	
1.4	QPSK	6	0	17.12	17.12	17.01	18
1.4	16QAM	1	0	17.39	17.36	17.13	18
1.4	16QAM	1	3	17.48	17.56	17.39	
1.4	16QAM	1	5	17.43	17.59	17.49	
1.4	16QAM	3	0	17.21	17.21	17.24	
1.4	16QAM	3	1	17.36	17.15	17.12	
1.4	16QAM	3	3	17.18	17.25	17.20	
1.4	16QAM	6	0	16.16	16.15	16.12	17
1.4	64QAM	1	0	16.23	16.38	16.41	17
1.4	64QAM	1	3	16.33	16.35	16.27	
1.4	64QAM	1	5	16.39	16.33	16.11	
1.4	64QAM	3	0	16.23	16.16	16.19	
1.4	64QAM	3	1	16.10	16.14	16.20	
1.4	64QAM	3	3	16.20	16.13	16.20	
1.4	64QAM	6	0	16.10	16.12	16.13	17

3	QPSK	8	4	13.53	13.61	13.61	14.5
3	QPSK	8	7	13.48	13.58	13.56	
3	QPSK	15	0	13.46	13.58	13.54	
3	16QAM	1	0	13.64	13.91	13.53	14.5
3	16QAM	1	8	13.90	13.99	13.84	
3	16QAM	1	14	13.52	13.52	13.66	
3	16QAM	8	0	12.60	12.53	12.61	13.5
3	16QAM	8	4	12.62	12.55	12.57	
3	16QAM	8	7	12.70	12.52	12.54	
3	16QAM	15	0	12.58	12.57	12.58	13.5
3	64QAM	1	0	12.71	12.67	12.65	
3	64QAM	1	8	12.70	12.70	12.70	
3	64QAM	1	14	12.63	12.59	12.71	13.5
3	64QAM	8	0	12.53	12.51	12.53	
3	64QAM	8	4	12.48	12.51	12.68	
3	64QAM	8	7	12.59	12.53	12.72	13.5
3	64QAM	15	0	12.59	12.54	12.58	
Channel				19957	20175	20393	
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	14.51	14.52	14.52	15.5
1.4	QPSK	1	3	14.45	14.42	14.50	
1.4	QPSK	1	5	14.41	14.44	14.39	
1.4	QPSK	3	0	14.58	14.65	14.50	
1.4	QPSK	3	1	14.53	14.58	14.61	
1.4	QPSK	3	3	14.56	14.56	14.56	
1.4	QPSK	6	0	13.44	13.54	13.49	14.5
1.4	16QAM	1	0	13.70	13.90	13.56	14.5
1.4	16QAM	1	3	13.92	13.99	13.87	
1.4	16QAM	1	5	13.50	13.53	13.63	
1.4	16QAM	3	0	13.62	13.60	13.56	
1.4	16QAM	3	1	13.66	13.50	13.55	
1.4	16QAM	3	3	13.63	13.58	13.55	
1.4	16QAM	6	0	12.64	12.59	12.61	13.5
1.4	64QAM	1	0	12.67	12.64	12.67	13.5
1.4	64QAM	1	3	12.56	12.51	12.72	
1.4	64QAM	1	5	12.64	12.60	12.78	
1.4	64QAM	3	0	12.50	12.50	12.56	
1.4	64QAM	3	1	12.48	12.50	12.68	
1.4	64QAM	3	3	12.54	12.57	12.68	
1.4	64QAM	6	0	12.55	12.56	12.66	13.5

Band 5 (Cellular Band) (dBm)							
Part 22H(only on channel required)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20450	20525	20600	21
Frequency (MHz)				829	836.5	844	
10	QPSK	1	0	20.21	20.22	20.14	
10	QPSK	1	25	20.17	20.20	20.09	20
10	QPSK	1	49	20.09	20.16	19.91	
10	QPSK	25	0	19.27	19.35	19.21	
10	QPSK	25	12	19.34	19.31	19.26	20
10	QPSK	25	25	19.26	19.22	19.25	
10	QPSK	50	0	19.15	19.17	19.14	
10	16QAM	1	0	19.24	19.14	19.10	20
10	16QAM	1	25	19.23	19.41	19.27	
10	16QAM	1	49	19.20	19.21	19.13	
10	16QAM	25	0	18.19	18.10	18.07	19
10	16QAM	25	12	18.11	18.07	18.04	
10	16QAM	25	25	18.19	18.15	18.10	
10	16QAM	50	0	18.23	18.09	18.06	19
10	64QAM	1	0	18.25	18.32	18.21	
10	64QAM	1	25	18.12	18.10	18.16	
10	64QAM	1	49	18.27	18.07	18.23	19
10	64QAM	25	0	18.22	18.15	18.10	
10	64QAM	25	12	18.30	18.10	18.15	
10	64QAM	25	25	18.14	18.15	18.10	19
10	64QAM	50	0	18.15	18.12	18.14	
Channel				20425	20525	20625	
Frequency (MHz)				826.5	836.5	846.5	
5	QPSK	1	0	20.18	20.19	20.11	
5	QPSK	1	12	20.14	20.14	20.07	20
5	QPSK	1	24	20.04	20.11	19.85	
5	QPSK	12	0	19.26	19.32	19.08	
5	QPSK	12	7	19.30	19.28	19.23	20
5	QPSK	12	13	19.16	19.18	19.15	
5	QPSK	25	0	19.20	19.18	19.23	
5	16QAM	1	0	19.34	19.25	19.20	20
5	16QAM	1	12	19.33	19.53	19.39	
5	16QAM	1	24	19.32	19.29	19.25	
5	16QAM	12	0	18.25	18.21	18.12	19
5	16QAM	12	7	18.19	18.18	18.10	
5	16QAM	12	13	18.24	18.23	18.17	
5	16QAM	25	0	18.33	18.14	18.11	19
5	64QAM	1	0	18.19	18.26	18.19	
5	64QAM	1	12	18.02	18.09	18.11	
5	64QAM	1	24	18.22	17.98	18.14	19
5	64QAM	12	0	18.15	18.11	18.04	
5	64QAM	12	7	18.28	18.05	18.09	
5	64QAM	12	13	18.06	18.06	18.00	19
5	64QAM	25	0	18.24	18.22	18.25	
Channel				20415	20525	20635	
Frequency (MHz)				825.5	836.5	847.5	
3	QPSK	1	0	20.09	20.17	20.13	
3	QPSK	1	8	20.16	20.14	20.02	20
3	QPSK	1	14	20.00	20.09	19.83	
3	QPSK	8	0	19.20	19.31	19.09	
3	QPSK	8	4	19.30	19.28	19.21	20
3	QPSK	8	7	19.02	19.07	19.05	
3	QPSK	15	0	19.07	19.06	19.10	
3	16QAM	1	0	19.21	19.05	19.06	20
3	16QAM	1	8	19.21	19.39	19.20	
3	16QAM	1	14	19.13	19.11	19.11	
3	16QAM	8	0	18.16	18.04	18.00	19
3	16QAM	8	4	18.02	18.04	18.03	
3	16QAM	8	7	18.13	18.05	18.02	
3	16QAM	15	0	18.19	18.06	18.03	19
3	64QAM	1	0	18.17	18.23	18.18	
3	64QAM	1	8	18.11	18.05	18.15	
3	64QAM	1	14	18.23	18.04	18.20	19
3	64QAM	8	0	18.17	18.06	18.06	
3	64QAM	8	4	18.26	18.09	18.11	
3	64QAM	8	7	18.12	18.06	18.04	19
3	64QAM	15	0	18.05	18.11	18.05	
Channel				20407	20525	20643	
Frequency (MHz)				824.7	836.5	848.3	
1.4	QPSK	1	0	20.19	20.20	20.07	
1.4	QPSK	1	3	20.12	20.12	20.01	20
1.4	QPSK	1	5	20.08	20.13	19.86	
1.4	QPSK	3	0	20.08	20.19	19.93	
1.4	QPSK	3	1	20.14	20.11	20.04	20
1.4	QPSK	3	3	20.03	20.07	20.10	
1.4	QPSK	6	0	19.14	19.04	19.05	
1.4	16QAM	1	0	19.21	19.09	19.02	20
1.4	16QAM	1	3	19.21	19.39	19.17	
1.4	16QAM	1	5	19.19	19.16	19.08	
1.4	16QAM	3	0	19.24	19.17	19.19	19
1.4	16QAM	3	1	19.23	19.18	19.12	
1.4	16QAM	3	3	19.24	19.24	19.22	
1.4	16QAM	6	0	18.35	18.21	18.18	19
1.4	64QAM	1	0	18.38	18.40	18.26	
1.4	64QAM	1	3	18.19	18.16	18.21	
1.4	64QAM	1	5	18.35	18.11	18.35	19
1.4	64QAM	3	0	18.29	18.28	18.21	
1.4	64QAM	3	1	18.36	18.17	18.20	
1.4	64QAM	3	3	18.19	18.19	18.16	19
1.4	64QAM	6	0	18.27	18.24	18.24	

Band 7 (2600MHz Band) (dBm)							
Part 27							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20850	21100	21350	17.5
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	16.62	16.68	16.64	
20	QPSK	1	49	16.54	16.61	16.66	16.5
20	QPSK	1	99	16.65	16.66	16.67	
20	QPSK	50	0	15.75	15.88	15.87	
20	QPSK	50	24	15.82	15.87	15.86	16.5
20	QPSK	50	50	15.85	15.84	15.86	
20	QPSK	100	0	15.90	15.91	15.83	
20	16QAM	1	0	15.76	15.70	15.75	16.5
20	16QAM	1	49	15.83	15.82	15.74	
20	16QAM	1	99	15.84	15.89	15.85	
20	16QAM	50	0	14.74	14.89	14.95	15.5
20	16QAM	50	24	14.78	14.83	14.75	
20	16QAM	50	50	14.77	14.88	14.73	
20	16QAM	100	0	14.76	14.81	14.86	15.5
20	64QAM	1	0	14.79	14.83	14.87	
20	64QAM	1	49	14.83	14.89	14.64	
20	64QAM	1	99	14.78	14.65	14.55	15.5
20	64QAM	50	0	14.75	14.79	14.83	
20	64QAM	50	24	14.75	14.88	14.67	
20	64QAM	50	50	14.72	14.87	14.81	15.5
20	64QAM	100	0	14.80	14.79	14.69	
Channel				20825	21100	21375	
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	16.56	16.66	16.60	
15	QPSK	1	37	16.46	16.53	16.58	16.5
15	QPSK	1	74	16.58	16.63	16.65	
15	QPSK	36	0	15.72	15.87	15.79	
15	QPSK	36	20	15.72	15.85	15.80	16.5
15	QPSK	36	39	15.79	15.83	15.84	
15	QPSK	75	0	15.82	15.79	15.74	
15	16QAM	1	0	15.72	15.69	15.67	16.5
15	16QAM	1	37	15.78	15.73	15.73	
15	16QAM	1	74	15.81	15.88	15.75	
15	16QAM	36	0	14.67	14.87	14.94	15.5
15	16QAM	36	20	14.75	14.74	14.70	
15	16QAM	36	39	14.73	14.87	14.66	
15	16QAM	75	0	14.74	14.80	14.85	15.5
15	64QAM	1	0	14.75	14.73	14.85	
15	64QAM	1	37	14.74	14.84	14.60	
15	64QAM	1	74	14.70	14.60	14.53	15.5
15	64QAM	36	0	14.65	14.71	14.74	
15	64QAM	36	20	14.70	14.84	14.64	
15	64QAM	36	39	14.62	14.83	14.80	15.5
15	64QAM	75	0	14.79	14.71	14.67	
Channel				20800	21100	21400	
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	16.50	16.63	16.61	
10	QPSK	1	25	16.50	16.59	16.56	16.5
10	QPSK	1	49	16.57	16.57	16.60	
10	QPSK	25	0	15.67	15.86	15.77	
10	QPSK	25	12	15.77	15.83	15.81	16.5
10	QPSK	25	25	15.80	15.74	15.85	
10	QPSK	50	0	15.89	15.86	15.81	
10	16QAM	1	0	15.68	15.66	15.67	16.5
10	16QAM	1	25	15.79	15.80	15.64	
10	16QAM	1	49	15.78	15.80	15.83	
10	16QAM	25	0	14.72	14.80	14.93	15.5
10	16QAM	25	12	14.75	14.80	14.65	
10	16QAM	25	25	14.74	14.80	14.67	
10	16QAM	50	0	14.71	14.80	14.85	15.5
10	64QAM	1	0	14.78	14.81	14.86	
10	64QAM	1	25	14.74	14.84	14.61	
10	64QAM	1	49	14.74	14.55	14.47	15.5
10	64QAM	25	0	14.66	14.73	14.78	
10	64QAM	25	12	14.71	14.87	14.65	
10	64QAM	25	25	14.69	14.77	14.75	15.5
10	64QAM	50	0	14.73	14.78	14.61	
Channel				20775</			

Band 12 (700MHz Low Band) (dBm) Part 27F(only on channel required)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				23060	23095	23130	
Frequency (MHz)				704	707.5	711	
10	QPSK	1	0	20.06	20.11	19.99	21
10	QPSK	1	25	19.99	20.02	20.03	
10	QPSK	1	49	19.89	20.04	20.06	
10	QPSK	25	0	19.22	19.27	19.26	
10	QPSK	25	12	19.24	19.15	19.22	20
10	QPSK	25	25	19.24	19.19	19.16	
10	QPSK	50	0	19.18	19.27	19.23	
10	16QAM	1	0	19.42	19.39	19.26	
10	16QAM	1	25	19.17	19.24	19.24	20
10	16QAM	1	49	19.22	19.17	19.28	
10	16QAM	25	0	18.20	18.22	18.33	
10	16QAM	25	12	18.18	18.23	18.20	
10	16QAM	25	25	18.30	18.27	18.29	19
10	16QAM	50	0	18.34	18.28	18.25	
10	64QAM	1	0	18.34	18.29	18.19	
10	64QAM	1	25	18.40	18.35	18.33	
10	64QAM	1	49	18.46	18.48	18.42	19
10	64QAM	25	0	18.18	18.38	18.22	
10	64QAM	25	12	18.25	18.31	18.33	
10	64QAM	25	25	18.20	18.27	18.21	
10	64QAM	50	0	18.24	18.22	18.25	
Channel				23035	23095	23155	
Frequency (MHz)				701.5	707.5	713.5	
5	QPSK	1	0	19.86	20.01	19.89	21
5	QPSK	1	12	19.94	20.01	19.94	
5	QPSK	1	24	19.88	19.99	20.00	
5	QPSK	12	0	19.19	19.20	19.22	20
5	QPSK	12	7	19.15	19.10	19.19	
5	QPSK	12	13	19.16	19.11	19.15	
5	QPSK	25	0	19.17	19.14	19.19	20
5	16QAM	1	0	19.38	19.34	19.16	
5	16QAM	1	12	19.07	19.22	19.22	
5	16QAM	1	24	19.17	19.16	19.21	19
5	16QAM	12	0	18.11	18.20	18.25	
5	16QAM	12	7	18.17	18.15	18.12	
5	16QAM	12	13	18.22	18.19	18.23	19
5	16QAM	25	0	18.32	18.18	18.23	
5	64QAM	1	0	18.32	18.21	18.15	
5	64QAM	1	12	18.32	18.28	18.31	19
5	64QAM	1	24	18.42	18.44	18.32	
5	64QAM	12	0	18.14	18.33	18.19	
5	64QAM	12	7	18.18	18.28	18.26	19
5	64QAM	12	13	18.16	18.22	18.12	
5	64QAM	25	0	18.23	18.19	18.24	
Channel				23025	23095	23165	
Frequency (MHz)				700.5	707.5	714.5	
3	QPSK	1	0	19.91	20.09	19.97	21
3	QPSK	1	8	19.97	19.97	20.02	
3	QPSK	1	14	19.87	20.03	19.96	
3	QPSK	8	0	19.21	19.21	19.21	20
3	QPSK	8	4	19.19	19.05	19.18	
3	QPSK	8	7	19.15	19.14	19.09	
3	QPSK	15	0	19.12	19.14	19.18	20
3	16QAM	1	0	19.35	19.34	19.16	
3	16QAM	1	8	19.12	19.17	19.22	
3	16QAM	1	14	19.12	19.12	19.26	19
3	16QAM	8	0	18.18	18.16	18.31	
3	16QAM	8	4	18.09	18.13	18.12	
3	16QAM	8	7	18.27	18.23	18.24	19
3	16QAM	15	0	18.33	18.23	18.15	
3	64QAM	1	0	18.30	18.24	18.15	
3	64QAM	1	8	18.37	18.34	18.25	19
3	64QAM	1	14	18.39	18.41	18.35	
3	64QAM	8	0	18.16	18.37	18.12	
3	64QAM	8	4	18.16	18.23	18.29	19
3	64QAM	8	7	18.19	18.20	18.15	
3	64QAM	15	0	18.18	18.16	18.17	
Channel				23017	23095	23173	
Frequency (MHz)				699.7	707.5	715.3	
1.4	QPSK	1	0	19.90	20.10	19.91	21
1.4	QPSK	1	3	19.97	19.96	20.00	
1.4	QPSK	1	5	19.88	19.94	19.99	
1.4	QPSK	3	0	20.01	20.05	20.05	
1.4	QPSK	3	1	20.06	19.94	20.03	20
1.4	QPSK	3	3	19.98	19.94	19.92	
1.4	QPSK	6	0	19.13	19.13	19.15	
1.4	16QAM	1	0	19.37	19.32	19.24	
1.4	16QAM	1	3	19.10	19.15	19.17	20
1.4	16QAM	1	5	19.21	19.07	19.25	
1.4	16QAM	3	0	19.11	19.21	19.25	
1.4	16QAM	3	1	19.12	19.14	19.11	
1.4	16QAM	3	3	19.27	19.22	19.25	19
1.4	16QAM	6	0	18.28	18.19	18.21	
1.4	64QAM	1	0	18.32	18.21	18.11	
1.4	64QAM	1	3	18.32	18.27	18.29	
1.4	64QAM	1	5	18.45	18.43	18.36	19
1.4	64QAM	3	0	18.16	18.31	18.21	
1.4	64QAM	3	1	18.16	18.24	18.32	
1.4	64QAM	3	3	18.15	18.23	18.11	
1.4	64QAM	6	0	18.22	18.12	18.24	19

Band 17 (700MHz Band) (dBm) 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	21.05	21.07	20.92	22
10	QPSK	1	25	21.04	21.06	21.02	
10	QPSK	1	49	20.95	21.03	21.05	
10	QPSK	25	0	20.15	20.16	20.14	
10	QPSK	25	12	20.12	20.11	20.11	21
10	QPSK	25	25	20.13	20.07	20.08	
10	QPSK	50	0	20.14	20.12	20.12	
10	16QAM	1	0	20.26	20.42	20.09	
10	16QAM	1	25	20.08	20.14	20.19	21
10	16QAM	1	49	20.22	20.28	20.30	
10	16QAM	25	0	19.15	19.19	19.07	
10	16QAM	25	12	19.21	19.23	19.22	
10	16QAM	25	25	19.23	19.17	19.16	20
10	16QAM	50	0	19.08	19.12	19.13	
10	64QAM	1	0	19.13	19.32	19.21	
10	64QAM	1	25	19.36	19.40	19.27	
10	64QAM	1	49	19.21	19.20	19.18	20
10	64QAM	25	0	19.09	19.21	19.10	
10	64QAM	25	12	19.08	19.15	19.12	
10	64QAM	25	25	19.16	19.19	19.15	
10	64QAM	50	0	19.12	19.08	19.13	
Channel				23755	23790	23825	
Frequency (MHz)				706.5	710	713.5	
5	QPSK	1	0	21.04	21.05	20.91	22
5	QPSK	1	12	20.97	21.00	21.01	
5	QPSK	1	24	20.92	20.96	20.99	
5	QPSK	12	0	20.08	20.11	20.11	21
5	QPSK	12	7	20.03	20.01	20.03	
5	QPSK	12	13	20.03	20.00	20.06	
5	QPSK	25	0	20.09	20.05	20.07	21
5	16QAM	1	0	20.23	20.32	20.02	
5	16QAM	1	12	20.07	20.07	20.09	
5	16QAM	1	24	20.13	20.21	20.20	20
5	16QAM	12	0	19.12	19.15	19.00	
5	16QAM	12	7	19.13	19.14	19.18	
5	16QAM	12	13	19.22	19.13	19.08	20
5	16QAM	25	0	19.04	19.11	19.04	
5	64QAM	1	0	19.10	19.31	19.17	
5	64QAM	1	12	19.35	19.35	19.19	20
5	64QAM	1	24	19.13	19.19	19.14	
5	64QAM	12	0	18.99	19.14	19.00	
5	64QAM	12	7	18.99	19.10	19.09	20
5	64QAM	12	13	19.13	19.15	19.06	
5	64QAM	25	0	19.03	19.07	19.11	

Band 18 (835MHz Band) (dBm)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				23925			21
Frequency (MHz)				822.5			
15	QPSK	1	0		20.15		21
15	QPSK	1	37		19.96		
15	QPSK	1	74		19.96		
15	QPSK	36	0		19.29		20
15	QPSK	36	20		19.02		
15	QPSK	36	39		19.06		
15	QPSK	75	0		19.06		20
15	16QAM	1	0		19.11		
15	16QAM	1	37		19.42		
15	16QAM	1	74		19.34		19
15	16QAM	36	0		18.27		
15	16QAM	36	20		18.24		
15	16QAM	36	39		18.18		19
15	16QAM	75	0		18.25		
15	64QAM	1	0		18.38		
15	64QAM	1	25		18.18		19
15	64QAM	1	49		18.05		
15	64QAM	25	0		18.37		
15	64QAM	25	12		18.20		19
15	64QAM	25	25		18.27		
15	64QAM	50	0		18.38		
Channel				23900	23925	23950	21
Frequency (MHz)				820	822.5	825	
10	QPSK	1	0	20.06	20.02	19.98	21
10	QPSK	1	25	20.05	20.01	20.00	
10	QPSK	1	49	19.97	20.03	20.02	
10	QPSK	25	0	19.13	19.31	19.47	20
10	QPSK	25	12	19.25	19.34	19.42	
10	QPSK	25	25	19.08	19.36	19.42	
10	QPSK	50	0	19.11	19.28	19.41	20
10	16QAM	1	0	19.59	19.64	19.36	
10	16QAM	1	25	19.76	19.32	19.69	
10	16QAM	1	49	19.60	19.65	19.81	19
10	16QAM	25	0	18.04	18.07	18.28	
10	16QAM	25	12	18.04	18.11	18.23	
10	16QAM	25	25	18.56	18.20	18.23	19
10	16QAM	50	0	18.05	18.17	18.21	
10	64QAM	1	0	17.97	18.55	17.98	
10	64QAM	1	25	18.01	18.22	18.06	19
10	64QAM	1	49	18.06	18.06	17.98	
10	64QAM	25	0	18.12	18.17	18.41	
10	64QAM	25	12	18.25	18.33	18.27	19
10	64QAM	25	25	18.10	18.28	18.30	
10	64QAM	50	0	18.07	18.26	18.42	
Channel				23875	23925	23975	21
Frequency (MHz)				817.5	822.5	827.5	
5	QPSK	1	0	19.96	19.93	19.98	21
5	QPSK	1	12	19.87	19.95	19.87	
5	QPSK	1	24	19.92	19.88	19.94	
5	QPSK	12	0	19.19	19.03	19.22	20
5	QPSK	12	7	19.36	19.10	18.99	
5	QPSK	12	13	19.36	19.09	19.20	
5	QPSK	25	0	19.21	19.01	19.11	20
5	16QAM	1	0	19.32	19.26	19.27	
5	16QAM	1	12	19.31	19.20	19.23	
5	16QAM	1	24	19.29	19.14	19.14	19
5	16QAM	12	0	18.63	18.26	18.33	
5	16QAM	12	7	18.57	18.24	18.28	
5	16QAM	12	13	18.33	18.30	18.24	19
5	16QAM	25	0	18.40	18.27	18.37	
5	64QAM	1	0	18.10	18.54	18.33	
5	64QAM	1	12	18.40	18.50	18.24	19
5	64QAM	1	24	18.34	18.50	18.40	
5	64QAM	12	0	18.23	18.28	18.18	
5	64QAM	12	7	18.23	18.32	18.18	19
5	64QAM	12	13	18.50	18.38	18.17	
5	64QAM	25	0	18.50	18.36	18.15	

Band 19 (835MHz Band) (dBm)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				24075			21
Frequency (MHz)				837.5			
15	QPSK	1	0		20.19		21
15	QPSK	1	37		20.10		
15	QPSK	1	74		20.09		
15	QPSK	36	0		19.55		20
15	QPSK	36	20		19.30		
15	QPSK	36	39		19.17		
15	QPSK	75	0		19.18		20
15	16QAM	1	0		19.31		
15	16QAM	1	37		19.23		
15	16QAM	1	74		19.16		19
15	16QAM	36	0		18.38		
15	16QAM	36	20		18.27		
15	16QAM	36	39		18.34		19
15	16QAM	75	0		18.44		
15	64QAM	1	0		18.46		
15	64QAM	1	25		18.28		19
15	64QAM	1	49		18.24		
15	64QAM	25	0		18.45		
15	64QAM	25	12		18.45		19
15	64QAM	25	25		18.51		
15	64QAM	50	0		18.48		
Channel				24050	24075	24100	21
Frequency (MHz)				835	837.5	840	
10	QPSK	1	0	20.07	20.11	20.08	21
10	QPSK	1	25	20.10	20.09	20.02	
10	QPSK	1	49	19.96	20.09	20.01	
10	QPSK	25	0	19.49	19.30	19.16	20
10	QPSK	25	12	19.45	19.27	19.06	
10	QPSK	25	25	19.44	19.28	19.13	
10	QPSK	50	0	19.45	19.33	19.15	20
10	16QAM	1	0	19.17	19.49	19.26	
10	16QAM	1	25	19.26	19.35	19.40	
10	16QAM	1	49	19.20	19.19	19.17	19
10	16QAM	25	0	18.46	18.60	18.89	
10	16QAM	25	12	18.47	18.63	18.71	
10	16QAM	25	25	18.64	18.52	18.58	19
10	16QAM	50	0	18.81	18.68	18.70	
10	64QAM	1	0	18.54	18.54	18.36	
10	64QAM	1	25	18.64	18.36	18.38	19
10	64QAM	1	49	18.36	18.35	18.35	
10	64QAM	25	0	18.71	18.48	18.43	
10	64QAM	25	12	18.47	18.49	18.42	19
10	64QAM	25	25	18.37	18.50	18.25	
10	64QAM	50	0	18.67	18.46	18.39	
Channel				24025	24075	24125	21
Frequency (MHz)				832.5	837.5	842.5	
5	QPSK	1	0	20.06	20.11	20.07	21
5	QPSK	1	12	20.01	20.05	20.07	
5	QPSK	1	24	19.97	20.09	20.09	
5	QPSK	12	0	19.43	19.25	19.14	20
5	QPSK	12	7	19.53	19.24	19.24	
5	QPSK	12	13	19.42	19.19	19.13	
5	QPSK	25	0	19.46	19.27	19.32	20
5	16QAM	1	0	19.17	19.17	19.18	
5	16QAM	1	12	19.21	19.11	19.08	
5	16QAM	1	24	19.26	19.26	19.31	19
5	16QAM	12	0	18.79	18.61	18.59	
5	16QAM	12	7	18.64	18.66	18.35	
5	16QAM	12	13	18.76	18.61	18.40	19
5	16QAM	25	0	18.31	18.45	18.42	
5	64QAM	1	0	18.55	18.37	18.35	
5	64QAM	1	12	18.44	18.55	18.36	19
5	64QAM	1	24	18.38	18.35	18.35	
5	64QAM	12	0	18.65	18.43	18.26	
5	64QAM	12	7	18.24	18.56	18.27	19
5	64QAM	12	13	18.64	18.53	18.19	
5	64QAM	25	0	18.64	18.43	18.25	

Band 26 for FCC (dBm) (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	21
Frequency (MHz)				821.5	831.5	841.5	
15	QPSK	1	0	20.21	20.22	20.17	21
15	QPSK	1	37	20.19	20.13	20.20	
15	QPSK	1	74	20.18	20.20	19.87	
15	QPSK	36	0	19.30	19.33	19.24	20
15	QPSK	36	20	19.26	19.30	19.16	
15	QPSK	36	39	19.31	19.32	19.26	
15	QPSK	75	0	19.28	19.22	19.19	20
15	16QAM	1	0	19.30	19.14	19.28	
15	16QAM	1	37	19.14	19.17	19.15	
15	16QAM	1	74	19.01	19.11	19.06	19
15	16QAM	36	0	18.27	18.28	18.21	
15	16QAM	36	20	18.00	18.21	18.20	
15	16QAM	36	39	18.26	18.29	18.27	19
15	16QAM	75	0	18.32	18.31	18.25	
15	64QAM	1	0	18.17	18.29	18.30	
15	64QAM	1	37	18.33	18.29	18.26	19
15	64QAM	1	74	18.16	18.14	18.02	
15	64QAM	36	0	18.30	18.20	18.24	
15	64QAM	36	20	18.21	18.23	18.12	19
15	64QAM	36	39	18.25	18.27	18.23	
15	64QAM	75	0	18.21	18.31	18.16	
Channel				26740	26865	26990	21
Frequency (MHz)				819	831.5	844	
10	QPSK	1	0	20.11	20.19	20.14	21
10	QPSK	1	25	20.13	20.07	20.10	
10	QPSK	1	49	20.14	20.16	19.81	
10	QPSK	25	0	19.24	19.28	19.15	20
10	QPSK	25	12	19.22	19.28	19.08	
10	QPSK	25	25	19.30	19.27	19.18	
10	QPSK	50	0	19.26	19.15	19.52	20
10	16QAM	1	0	19.25	19.13	19.18	
10	16QAM	1	25	19.06	19.15	19.08	
10	16QAM	1	49	18.91	19.02	19.04	19
10	16QAM	25	0	18.17	18.27	18.11	
10	16QAM	25	12	17.99	18.19	18.17	
10	16QAM	25	25	18.18	18.19	18.20	19
10	16QAM	50	0	18.24	18.25	18.20	
10	64QAM	1	0	18.11	18.23	18.28	
10	64QAM	1	25	18.31	18.26	18.17	19
10	64QAM	1	49	18.13	18.13	17.98	
10	64QAM	25	0	18.23	18.14	18.17	
10	64QAM	25	12	18.18	18.22	18.11	19
10	64QAM	25	25	18.16	18.26	18.16	
10	64QAM	50	0	18.14	18.24	18.07	
Channel				26715	26865	27015	21
Frequency (MHz)				816.5	831.5	846.5	
5	QPSK	1	0	20.17	20.20	20.14	21
5	QPSK	1	12	20.14	20.07	20.16	
5	QPSK	1	24	20.10	20.11	19.82	
5	QPSK	12	0	19.20	19.31	19.15	20
5	QPSK	12	7	19.19	19.21	19.08	
5	QPSK	12	13	19.26	19.27	19.21	
5	QPSK	25	0	19.25	19.16	19.50	20
5	16QAM	1	0	19.25	19.10	19.25	
5	16QAM	1	12	19.08	19.15	19.10	
5	16QAM	1	24	18.96	19.04	18.96	19
5	16QAM	12	0	18.26	18.20	18.19	
5	16QAM	12	7	17.97	18.20	18.16	
5	16QAM	12	13	18.24	18.23	18.23	19
5	16QAM	25	0	18.22	18.27	18.21	
5	64QAM	1	0	18.09	18.27	18.23	
5	64QAM	1	12	18.24	18.25	18.17	19
5	64QAM	1	24	18.10	18.09	17.96	
5	64QAM	12	0	18.22	18.13	18.20	
5	64QAM	12	7	18.11	18.21	18.05	19
5	64QAM	12	13	18.16	18.26	18.18	
5	64QAM	25	0	18.13	18.24	18.13	
Channel				26705	26865	27025	21
Frequency (MHz)				815.5	831.5	847.5	
3	QPSK	1	0	20.12	20.16	20.15	21
3	QPSK	1	8	20.11	20.07	20.10	
3	QPSK	1	14	20.15	20.16	19.77	
3	QPSK	8	0	19.24	19.26	19.14	20
3	QPSK	8	4	19.19	19.27	19.06	
3	QPSK	8	7	19.26	19.25	19.22	
3	QPSK	15	0	19.22	19.22	19.57	20
3	16QAM	1	0	19.27	19.04	19.26	
3	16QAM	1	8	19.13	19.12	19.07	
3	16QAM	1	14	18.94	19.01	19.05	19
3	16QAM	8	0	18.22	18.25	18.13	
3	16QAM	8	4	17.97	18.12	18.18	
3	16QAM	8	7	18.19	18.24	18.24	19
3	16QAM	15	0	18.24	18.27	18.15	
3	64QAM	1	0	18.13	18.24	18.29	
3	64QAM	1	8	18.28	18.22	18.23	19
3	64QAM	1	14	18.07	18.04	18.18	
3	64QAM	8	0	18.26	18.17	18.19	
3	64QAM	8	4	18.11	18.15	18.05	19
3	64QAM	8	7	18.22	18.21	18.20	
3	64QAM	15	0	18.19	18.25	18.09	
Channel				26697	26865	27033	21
Frequency (MHz)				814.7	831.5	848.3	
1.4	QPSK	1	0	20.13	20.17	20.14	21
1.4	QPSK	1	3	20.13	20.12	20.11	
1.4	QPSK	1	5	20.15	20.11	20.07	
1.4	QPSK	3	0	20.21	20.06	20.02	

Band 66 (dBm)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				132072	132322	132572	19
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	18.09	18.21	18.12	19
20	QPSK	1	49	17.90	18.02	17.87	
20	QPSK	1	99	17.98	17.98	17.95	
20	QPSK	50	0	17.10	17.15	17.13	18
20	QPSK	50	24	17.03	17.11	17.10	
20	QPSK	50	50	17.14	17.09	17.11	
20	QPSK	100	0	17.10	17.15	17.12	18
20	16QAM	1	0	17.40	17.35	17.37	
20	16QAM	1	49	17.27	17.36	17.13	
20	16QAM	1	99	17.21	17.28	17.36	17
20	16QAM	50	0	16.21	16.14	16.13	
20	16QAM	50	24	16.33	16.28	16.16	
20	16QAM	50	50	16.26	16.25	16.22	17
20	16QAM	100	0	16.27	16.24	16.14	
20	64QAM	1	0	16.50	16.47	16.48	
20	64QAM	1	49	16.38	16.48	16.22	17
20	64QAM	1	99	16.29	16.42	16.43	
20	64QAM	50	0	16.18	16.13	16.13	
20	64QAM	50	24	16.25	16.23	16.15	17
20	64QAM	50	50	16.18	16.19	16.19	
20	64QAM	100	0	16.29	16.18	16.07	
Channel				132047	132322	132597	19
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	17.80	18.00	17.96	19
15	QPSK	1	37	17.88	17.95	17.77	
15	QPSK	1	74	17.92	17.97	17.91	
15	QPSK	36	0	16.88	16.92	16.91	18
15	QPSK	36	20	16.94	17.07	17.09	
15	QPSK	36	39	17.05	17.05	17.06	
15	QPSK	75	0	16.90	16.94	17.06	18
15	16QAM	1	0	17.38	17.28	17.35	
15	16QAM	1	37	17.22	17.32	17.09	
15	16QAM	1	74	17.16	17.19	17.29	17
15	16QAM	36	0	16.19	16.09	16.11	
15	16QAM	36	20	16.22	16.26	16.15	
15	16QAM	36	39	16.20	16.16	16.14	17
15	16QAM	75	0	16.20	16.16	16.04	
15	64QAM	1	0	16.45	16.43	16.41	
15	64QAM	1	37	16.29	16.38	16.18	17
15	64QAM	1	74	16.18	16.37	16.41	
15	64QAM	36	0	16.06	16.12	16.05	
15	64QAM	36	20	16.15	16.13	16.14	17
15	64QAM	36	39	16.09	16.17	16.09	
15	64QAM	75	0	16.27	16.16	16.00	
Channel				132022	132322	132622	19
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	17.90	18.00	17.98	19
10	QPSK	1	25	17.78	17.99	17.79	
10	QPSK	1	49	17.88	17.92	17.86	
10	QPSK	25	0	16.88	16.96	16.97	18
10	QPSK	25	12	16.96	17.04	17.02	
10	QPSK	25	25	17.05	17.04	17.05	
10	QPSK	50	0	16.96	16.85	17.11	18
10	16QAM	1	0	17.39	17.29	17.33	
10	16QAM	1	25	17.20	17.32	17.05	
10	16QAM	1	49	17.17	17.23	17.28	17
10	16QAM	25	0	16.09	16.11	16.05	
10	16QAM	25	12	16.30	16.22	16.11	
10	16QAM	25	25	16.15	16.22	16.15	17
10	16QAM	50	0	16.22	16.15	16.10	
10	64QAM	1	0	16.38	16.45	16.38	
10	64QAM	1	25	16.36	16.42	16.16	17
10	64QAM	1	49	16.18	16.39	16.37	

1.4	QPSK	3	1	20.08	20.09	20.01	
1.4	QPSK	3	3	20.06	20.05	20.02	
1.4	QPSK	6	0	19.22	19.16	19.16	20
1.4	16QAM	1	0	19.29	19.04	19.26	
1.4	16QAM	1	3	19.06	19.09	19.10	
1.4	16QAM	1	5	18.97	19.10	18.96	
1.4	16QAM	3	0	19.25	19.18	19.11	20
1.4	16QAM	3	1	19.06	19.11	19.14	
1.4	16QAM	3	3	19.24	19.20	19.24	
1.4	16QAM	6	0	18.28	18.21	18.23	19
1.4	64QAM	1	0	18.12	18.28	18.21	
1.4	64QAM	1	3	18.32	18.23	18.24	
1.4	64QAM	1	5	18.15	18.09	17.95	
1.4	64QAM	3	0	18.20	18.14	18.18	19
1.4	64QAM	3	1	18.18	18.20	18.11	
1.4	64QAM	3	3	18.17	18.22	18.16	
1.4	64QAM	6	0	18.12	18.24	18.14	19

3	QPSK	8	4	16.99	17.02	17.02	
3	QPSK	8	7	17.05	17.05	17.02	18
3	QPSK	15	0	16.94	16.85	17.02	
3	16QAM	1	0	17.35	17.32	17.27	
3	16QAM	1	8	17.23	17.28	17.11	18
3	16QAM	1	14	17.09	17.25	17.35	
3	16QAM	8	0	16.11	16.11	16.06	
3	16QAM	8	4	16.24	16.21	16.14	
3	16QAM	8	7	16.18	16.17	16.21	17
3	16QAM	15	0	16.17	16.15	16.09	
3	64QAM	1	0	16.49	16.40	16.47	
3	64QAM	1	8	16.36	16.43	16.20	17
3	64QAM	1	14	16.24	16.36	16.33	
3	64QAM	8	0	16.09	16.11	16.03	
3	64QAM	8	4	16.24	16.13	16.14	
3	64QAM	8	7	16.14	16.09	16.13	17
3	64QAM	15	0	16.25	16.12	16.01	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	17.85	18.01	17.97	
1.4	QPSK	1	3	17.88	17.96	17.85	
1.4	QPSK	1	5	17.89	17.97	17.85	19
1.4	QPSK	3	0	17.99	17.97	18.11	
1.4	QPSK	3	1	18.02	18.04	18.00	
1.4	QPSK	3	3	18.07	18.04	18.01	
1.4	QPSK	6	0	16.98	16.85	17.09	18
1.4	16QAM	1	0	17.32	17.28	17.27	
1.4	16QAM	1	3	17.19	17.31	17.04	
1.4	16QAM	1	5	17.19	17.26	17.30	
1.4	16QAM	3	0	16.96	17.18	16.97	18
1.4	16QAM	3	1	17.16	17.13	16.99	
1.4	16QAM	3	3	17.03	17.06	17.05	
1.4	16QAM	6	0	16.20	16.16	16.17	17
1.4	64QAM	1	0	16.46	16.39	16.38	
1.4	64QAM	1	3	16.30	16.46	16.19	
1.4	64QAM	1	5	16.27	16.34	16.37	
1.4	64QAM	3	0	16.20	16.15	16.11	17
1.4	64QAM	3	1	16.14	16.19	16.13	
1.4	64QAM	3	3	16.14	16.15	16.18	
1.4	64QAM	6	0	16.26	16.13	16.05	17

Band 38(only on channel required) (dBm)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				37850	38000	38150	
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	20.19	20.23	20.21	21
20	QPSK	1	49	20.06	20.19	20.03	
20	QPSK	1	99	20.18	20.15	19.97	
20	QPSK	50	0	19.18	19.25	19.20	20
20	QPSK	50	24	19.21	19.22	19.08	
20	QPSK	50	50	19.18	19.11	19.04	
20	QPSK	100	0	19.21	19.24	19.11	20
20	16QAM	1	0	19.31	19.32	19.20	
20	16QAM	1	49	19.21	19.24	19.28	
20	16QAM	1	99	19.13	19.17	19.14	19
20	16QAM	50	0	18.32	18.39	18.20	
20	16QAM	50	24	18.40	18.35	18.37	
20	16QAM	50	50	18.22	18.27	18.20	19
20	16QAM	100	0	18.31	18.32	18.26	
20	64QAM	1	0	18.36	18.43	18.34	
20	64QAM	1	49	18.18	18.26	18.29	19
20	64QAM	1	99	18.25	18.27	18.28	
20	64QAM	50	0	18.24	18.29	18.24	
20	64QAM	50	24	18.28	18.24	18.20	19
20	64QAM	50	50	18.15	18.22	18.09	
20	64QAM	100	0	18.07	18.25	18.11	
Channel				37825	38000	38175	
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	19.94	20.19	20.10	21
15	QPSK	1	37	20.02	20.16	19.95	
15	QPSK	1	74	20.09	20.05	19.94	
15	QPSK	36	0	19.20	19.28	19.17	20
15	QPSK	36	20	19.29	19.25	19.13	
15	QPSK	36	39	19.28	19.15	19.13	
15	QPSK	75	0	19.15	19.07	19.09	20
15	16QAM	1	0	19.30	19.28	19.13	
15	16QAM	1	37	19.14	19.17	19.20	
15	16QAM	1	74	19.10	19.10	19.07	19
15	16QAM	36	0	18.31	18.37	18.13	
15	16QAM	36	20	18.30	18.32	18.34	
15	16QAM	36	39	18.18	18.25	18.18	19
15	16QAM	75	0	18.27	18.23	18.17	
15	64QAM	1	0	18.30	18.33	18.25	
15	64QAM	1	37	18.10	18.24	18.27	19
15	64QAM	1	74	18.24	18.20	18.24	
15	64QAM	36	0	18.14	18.22	18.14	
15	64QAM	36	20	18.24	18.14	18.12	19
15	64QAM	36	39	18.13	18.20	18.04	
15	64QAM	75	0	18.01	18.24	18.10	
Channel				37800	38000	38200	
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	20.01	20.18	20.06	21
10	QPSK	1	25	20.03	20.17	19.98	
10	QPSK	1	49	20.14	20.07	19.99	
10	QPSK	25	0	19.23	19.34	19.20	20
10	QPSK	25	12	19.30	19.30	19.12	
10	QPSK	25	25	19.27	19.15	19.09	
10	QPSK	50	0	19.25	19.25	19.20	20
10	16QAM	1	0	19.25	19.27	19.19	
10	16QAM	1	25	19.18	19.18	19.24	
10	16QAM	1	49	19.10	19.14	19.13	19
10	16QAM	25	0	18.26	18.35	18.15	
10	16QAM	25	12	18.33	18.32	18.34	
10	16QAM	25	25	18.12	18.23	18.11	19
10	16QAM	50	0	18.25	18.26	18.20	
10	64QAM	1	0	18.33	18.42	18.30	
10	64QAM	1	25	18.17	18.18	18.28	19
10	64QAM	1	49	18.23	18.23	18.26	
10	64QAM	25	0	18.18	18.26	18.22	
10	64QAM	25	12	18.27	18.22	18.16	19
10	64QAM	25	25	18.05	18.14	18.01	
10	64QAM	50	0	18.06	18.22	18.10	
Channel				37775	38000	38225	
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	19.93	20.18	20.11	21
5	QPSK	1	12	20.00	20.17	19.99	
5	QPSK	1	24	20.09	20.10	19.94	
5	QPSK	12	0	19.21	19.31	19.22	20
5	QPSK	12	7	19.19	19.14	19.06	
5	QPSK	12	13	19.10	19.09	18.94	
5	QPSK	25	0	19.20	19.14	19.07	20
5	16QAM	1	0	19.28	19.31	19.15	
5	16QAM	1	12	19.20	19.22	19.23	
5	16QAM	1	24	19.12	19.07	19.04	19
5	16QAM	12	0	18.27	18.31	18.16	
5	16QAM	12	7	18.36	18.32	18.33	
5	16QAM	12	13	18.19	18.22	18.17	19
5	16QAM	25	0	18.22	18.25	18.21	
5	64QAM	1	0	18.33	18.41	18.30	
5	64QAM	1	12	18.14	18.20	18.24	19
5	64QAM	1	24	18.21	18.23	18.27	
5	64QAM	12	0	18.15	18.24	18.23	
5	64QAM	12	7	18.27	18.20	18.19	19
5	64QAM	12	13	18.08	18.15	18.03	
5	64QAM	25	0	17.99	18.15	18.03	

Band 40 (2.3G Band-1) (dBm) Part 27D-1 2305MHz ~ 2315MHz							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				38750			
Frequency (MHz)				2310			
10	QPSK	1	0		20.35		21
10	QPSK	1	25		20.24		
10	QPSK	1	49		20.20		
10	QPSK	25	0		19.49		20
10	QPSK	25	12		19.46		
10	QPSK	25	25		19.42		
10	QPSK	50	0		19.48		20
10	16QAM	1	0		19.45		
10	16QAM	1	25		19.59		
10	16QAM	1	49		19.39		19
10	16QAM	25	0		18.44		
10	16QAM	25	12		18.48		
10	16QAM	25	25		18.48		19
10	16QAM	50	0		18.55		
10	64QAM	1	0		18.54		
10	64QAM	1	25		18.48		19
10	64QAM	1	49		18.58		
10	64QAM	25	0		18.27		
10	64QAM	25	12		18.32		19
10	64QAM	25	25		18.38		
10	64QAM	50	0		18.22		
Channel				38725	38750	38775	
Frequency (MHz)				2307.5	2310	2312.5	
5	QPSK	1	0	20.13	20.16	20.07	21
5	QPSK	1	12	19.92	20.28	20.16	
5	QPSK	1	24	20.29	20.21	20.29	
5	QPSK	12	0	19.26	19.35	19.34	20
5	QPSK	12	7	19.25	19.44	19.41	
5	QPSK	12	13	19.37	19.38	19.35	
5	QPSK	25	0	19.29	19.35	19.31	20
5	16QAM	1	0	19.38	19.46	19.40	
5	16QAM	1	12	19.51	19.54	19.40	
5	16QAM	1	24	19.46	19.58	19.58	19
5	16QAM	12	0	18.25	18.30	18.33	
5	16QAM	12	7	18.34	18.27	18.40	
5	16QAM	12	13	18.39	18.48	18.45	19
5	16QAM	25	0	18.26	18.28	18.37	
5	64QAM	1	0	18.32	18.08	18.14	
5	64QAM	1	12	18.31	18.12	18.54	19
5	64QAM	1	24	18.20	18.24	18.39	
5	64QAM	12	0	18.05	18.22	18.10	
5	64QAM	12	7	18.25	18.27	18.17	19
5	64QAM	12	13	18.13	18.18	18.27	
5	64QAM	25	0	18.12	18.19	18.18	

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

BW (MHz)	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				39200			
Frequency (MHz)				2355			
10	QPSK	1	0		20.30		21
10	QPSK	1	25		20.16		
10	QPSK	1	49		20.13		
10	QPSK	25	0		19.42		20
10	QPSK	25	12		19.37		
10	QPSK	25	25		19.29		
10	QPSK	50	0		19.32		20
10	16QAM	1	0		19.45		
10	16QAM	1	25		19.07		
10	16QAM	1	49		19.31		19
10	16QAM	25	0		18.47		
10	16QAM	25	12		18.91		
10	16QAM	25	25		18.77		19
10	16QAM	50	0		18.86		
10	64QAM	1	0		18.37		
10	64QAM	1	25		18.23		19
10	64QAM	1	49		18.14		
10	64QAM	25	0		18.36		
10	64QAM	25	12		18.40		19
10	64QAM	25	25		18.28		
10	64QAM	50	0		18.34		
Channel				39175	39200	39225	Tune-up limit (dBm)
Frequency (MHz)				2352.5	2355	2357.5	
5	QPSK	1	0	20.09	20.13	20.23	21
5	QPSK	1	12	20.13	20.22	20.14	
5	QPSK	1	24	20.00	20.22	20.25	
5	QPSK	12	0	19.23	19.30	19.33	20
5	QPSK	12	7	19.27	19.40	19.36	
5	QPSK	12	13	19.32	19.31	19.40	
5	QPSK	25	0	19.27	19.29	19.30	20
5	16QAM	1	0	19.21	19.43	19.15	
5	16QAM	1	12	19.29	19.29	19.13	
5	16QAM	1	24	19.15	19.45	19.24	19
5	16QAM	12	0	18.42	18.44	18.63	
5	16QAM	12	7	18.37	18.44	18.50	
5	16QAM	12	13	18.33	18.42	18.48	19
5	16QAM	25	0	18.44	18.45	18.54	
5	64QAM	1	0	18.13	18.44	18.49	
5	64QAM	1	12	18.55	18.31	18.37	19
5	64QAM	1	24	18.59	18.30	18.34	
5	64QAM	12	0	18.24	18.31	18.35	
5	64QAM	12	7	18.30	18.32	18.34	19
5	64QAM	12	13	18.33	18.29	18.31	
5	64QAM	25	0	18.26	18.37	18.30	

Band 41 (2496~2690MHz) (dBm)

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	20.16	20.07	20.22	20.06	20.05	21
20	QPSK	1	49	20.07	20.14	19.97	19.99	19.95	
20	QPSK	1	99	20.16	20.01	20.12	20.02	19.94	
20	QPSK	50	0	19.39	19.34	19.40	19.25	19.23	20
20	QPSK	50	24	19.35	19.32	19.26	19.11	19.08	
20	QPSK	50	50	19.37	19.26	19.22	19.05	18.95	
20	QPSK	100	0	19.36	19.32	19.38	19.17	19.25	20
20	16QAM	1	0	19.44	19.46	19.40	19.34	19.35	
20	16QAM	1	49	19.37	19.24	19.34	19.27	19.30	
20	16QAM	1	99	19.30	19.16	19.39	19.25	19.27	19
20	16QAM	50	0	18.45	18.41	18.27	18.21	18.12	
20	16QAM	50	24	18.39	18.24	18.30	18.18	18.15	
20	16QAM	50	50	18.36	18.12	18.15	18.07	18.11	19
20	16QAM	100	0	18.27	18.24	18.30	18.24	18.25	
20	64QAM	1	0	18.35	18.42	18.33	18.23	18.27	
20	64QAM	1	49	18.34	18.06	18.24	18.15	18.17	19
20	64QAM	1	99	18.28	18.19	18.28	18.19	18.22	
20	64QAM	50	0	18.40	18.34	18.21	18.14	17.98	
20	64QAM	50	24	18.30	18.25	18.24	18.12	18.16	19
20	64QAM	50	50	18.17	18.18	18.19	18.08	18.10	
20	64QAM	100	0	18.36	18.31	18.35	18.26	18.25	
Channel				39725	40173	40620	41068	41515	
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	20.11	19.96	20.21	20.00	19.96	21
15	QPSK	1	37	20.06	20.04	19.95	19.94	19.96	
15	QPSK	1	74	20.07	19.95	20.02	19.97	19.93	
15	QPSK	36	0	19.28	19.26	19.36	19.18	19.12	20
15	QPSK	36	20	19.24	19.24	19.22	19.02	19.02	
15	QPSK	36	39	19.36	19.25	19.19	18.96	18.93	
15	QPSK	75	0	19.27	19.26	19.19	19.07	18.98	20
15	16QAM	1	0	19.40	19.34	19.29	19.22	19.29	
15	16QAM	1	37	19.28	19.17	19.32	19.17	19.20	
15	16QAM	1	74	19.26	19.04	19.29	19.22	19.15	19
15	16QAM	36	0	18.38	18.33	18.19	18.11	18.07	
15	16QAM	36	20	18.38	18.15	18.24	18.09	18.12	
15	16QAM	36	39	18.25	18.00	18.06	18.00	18.10	19
15	16QAM	75	0	18.23	18.18	18.29	18.15	18.22	
15	64QAM	1	0	18.24	18.31	18.27	18.13	18.17	
15	64QAM	1	37	18.31	17.98	18.20	18.03	18.08	19
15	64QAM	1	74	18.25	18.16	18.17	18.08	18.18	
15	64QAM	36	0	18.28	18.33	18.11	18.11	17.93	
15	64QAM	36	20	18.19	18.13	18.14	18.03	18.12	19
15	64QAM	36	39	18.12	18.14	18.11	18.07	18.06	
15	64QAM	75	0	18.29	18.22	18.23	18.19	18.23	
Channel				39700	40160	40620	41080	41540	
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	20.07	20.02	20.17	20.00	19.96	21
10	QPSK	1	25	19.99	20.04	19.93	19.99	19.95	
10	QPSK	1	49	20.12	19.96	20.02	20.00	19.97	
10	QPSK	25	0	19.35	19.27	19.32	19.20	19.06	20
10	QPSK	25	12	19.34	19.23	19.25	19.09	18.98	
10	QPSK	25	25	19.36	19.17	19.20	19.02	18.93	
10	QPSK	50	0	19.32	19.24	19.26	19.08	19.00	20
10	16QAM	1	0	19.40	19.35	19.31	19.22	19.28	
10	16QAM	1	25	19.31	19.21	19.24	19.23	19.21	
10	16QAM	1	49	19.27	19.10	19.38	19.21	19.21	19
10	16QAM	25	0	18.34	18.37	18.19	18.16	18.03	
10	16QAM	25	12	18.36	18.20	18.25	18.14	18.04	
10	16QAM	25	25	18.29	18.05	18.08	18.06	18.01	19
10	16QAM	50	0	18.17	18.18	18.26	18.21	18.23	
10	64QAM	1	0	18.30	18.35	18.23	18.16	18.21	
10	64QAM	1	25	18.31	17.96	18.16	18.10	18.08	19
10	64QAM	1	49	18.16	18.11	18.20	18.18	18.12	
10	64QAM	25	0	18.29	18.31	18.11	18.07	17.97	
10	64QAM	25	12	18.26	18.18	18.14	18.10	18.14	19
10	64QAM	25	25	18.16	18.07	18.16	18.05	18.03	
10	64QAM	50	0	18.35	18.29	18.31	18.16	18.21	
Channel				39675	40148	40620	41093	41565	
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	
5	QPSK	1	0	20.05	19.96	20.19	19.98	20.04	21
5	QPSK	1	12	20.05	20.04	19.97	19.96	20.00	
5	QPSK	1	24	20.11	19.94	20.00	19.98	19.99	
5	QPSK	12	0	19.35	19.28	19.33	19.19	19.07	20
5	QPSK	12	7	19.27	19.31	19.18	19.04	19.04	
5	QPSK	12	13	19.25	19.17	19.15	19.02	18.94	
5	QPSK	25	0	19.25	19.30	19.20	19.07	18.94	20
5	16QAM	1	0	19.34	19.38	19.34	19.33	19.33	
5	16QAM	1	12	19.27	19.15	19.23	19.18	19.23	
5	16QAM	1	24	19.19	19.13	19.27	19.24	19.17	19
5	16QAM	12	0	18.34	18.30	18.23	18.09	18.01	
5	16QAM	12	7	18.28	18.18	18.23	18.17	18.06	
5	16QAM	12	13	18.28	18.04	18.06	17.97	18.03	19
5	16QAM	25	0	18.22	18.22	18.25	18.22	18.19	
5	64QAM	1	0	18.29	18.32	18.25	18.15	18.18	
5	64QAM	1	12	18.23	17.96	18.17	18.03	18.13	19
5	64QAM	1	24	18.18	18.09	18.26	18.15	18.20	
5	64QAM	12	0	18.33	18.28	18.18	18.02	17.96	
5	64QAM	12	7	18.18	18.20	18.12	18.04	18.06	19
5	64QAM	12	13	18.08	18.08	18.08	18.04	18.01	
5	64QAM	25	0	18.28	18.23	18.30	18.15	18.22	

Reduced Power Level 3

n41 (2496 ~ 2690MHz)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				509202	513900	518598	523296	528000	13
Frequency (MHz)				2546.01	2569.50	2592.99	2616.50	2640.00	
100	DFT-s-OFDM PI/2 BPSK	1	1	12.02	12.01	11.99	11.75	12.12	13
100		1	136	12.08	12.09	12.16	12.37	12.23	
100		1	272	11.13	11.28	11.32	11.35	11.43	
100		135	1	10.80	10.76	10.81	10.90	10.95	12
100		135	67	11.09	11.08	11.15	11.08	11.03	
100		135	136	10.91	11.02	11.15	11.15	11.16	
100	270	0	10.87	10.90	10.95	11.00	10.98	13	
100	DFT-s-OFDM QPSK	1	1	12.27	12.36	12.43	12.23		12.31
100		1	136	12.07	12.07	12.17	12.25		12.21
100		1	272	11.11	11.24	11.25	11.38		11.29
100		135	1	11.45	11.42	11.55	11.42		11.43
100		135	67	11.16	11.13	11.24	11.31		11.26
100		135	136	10.42	10.51	10.58	10.65	10.60	
100	270	0	10.37	10.38	10.45	10.52	10.49	12	
100	DFT-s-OFDM 16QAM	1	1	10.61	11.03	11.00	10.95		11.05
100	DFT-s-OFDM 64QAM	1	1	9.46	9.35	9.42	9.45		9.34
100	DFT-s-OFDM 256QAM	1	1	7.22	7.30	7.24	7.26	7.28	8
Channel				508200	513399	518598	523797	528996	13
Frequency (MHz)				2541	2566.995	2592.99	2618.985	2644.98	
90	DFT-s-OFDM QPSK	1	1	11.83	11.89	11.96	11.96	11.81	13
Channel				507204	512904	518598	524296	529998	13
Frequency (MHz)				2536.02	2564.51	2592.99	2621.49	2649.99	
80	DFT-s-OFDM QPSK	1	1	11.82	11.77	11.77	11.85	11.77	13
Channel				505200	511902	518598	525300	531996	13
Frequency (MHz)				2526.00	2559.50	2592.99	2626.49	2659.98	
60	DFT-s-OFDM QPSK	1	1	11.87	11.87	11.86	12.12	11.40	13
Channel				504204	511401	518598	525798	532998	13
Frequency (MHz)				2521.02	2557.005	2592.99	2628.99	2664.99	
50	DFT-s-OFDM QPSK	1	1	8.31	11.95	11.97	12.28	12.11	13
Channel				503202	510900	518598	526296	534000	13
Frequency (MHz)				2516.01	2554.50	2592.99	2631.50	2670.00	
40	DFT-s-OFDM QPSK	1	1	11.71	12.08	12.14	12.20	12.19	13
Channel				502200	510402	518598	526800	534996	13
Frequency (MHz)				2511.00	2552.00	2592.99	2633.99	2674.98	
30	DFT-s-OFDM QPSK	1	1	12.00	12.02	12.09	12.19	11.30	13
Channel				501204	509901	518598	527298	535998	13
Frequency (MHz)				2506.02	2549.505	2592.99	2636.49	2679.99	
20	DFT-s-OFDM QPSK	1	1	11.85	12.06	12.19	12.20	12.21	13
Channel				509202	513900	518598	523296	528000	11
Frequency (MHz)				2546.01	2569.50	2592.99	2616.50	2640.00	
100	CP-OFDM QPSK	1	1	10.52	10.46	10.36	10.41	10.23	11
100	CP-OFDM 16QAM	1	1	9.47	9.92	9.91	9.85	9.92	10.5
100	CP-OFDM 64QAM	1	1	8.28	8.31	8.29	8.42	8.30	9
100	CP-OFDM 256QAM	1	1	5.22	5.14	5.11	5.09	5.14	6

n66 (1710 ~ 1780 MHz)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				344000	349000	354000	16
Frequency (MHz)				1720	1745	1770	
20	DFT-s-OFDM PI/2 BPSK	1	1	15.33	15.31	15.16	16
20		1	53	15.22	15.21	14.76	
20		1	104	15.34	15.32	15.21	
20		53	1	14.58	14.60	14.45	15
20		53	26	14.50	14.52	14.30	
20		53	52	14.37	14.44	14.36	
20	DFT-s-OFDM QPSK	106	0	14.79	14.77	14.64	16
20		1	1	15.20	15.39	15.25	
20		1	53	15.16	14.98	15.16	
20		1	104	15.15	15.16	15.28	15
20		53	1	14.53	14.57	14.45	
20		53	26	14.52	14.58	14.47	
20	DFT-s-OFDM 16QAM	53	52	14.45	14.46	14.38	15
20		106	0	14.34	14.20	14.18	
20	DFT-s-OFDM 64QAM	1	1	14.41	14.39	14.24	15
20	DFT-s-OFDM 256QAM	1	1	13.09	13.08	13.01	14
20	DFT-s-OFDM 256QAM	1	1	11.20	11.10	11.00	12
Channel				343500	349000	354500	16
Frequency (MHz)				1717.5	1745	1772.5	
15	DFT-s-OFDM QPSK	1	1	15.33	15.26	15.14	16
Channel				343000	349000	355000	16
Frequency (MHz)				1715	1745	1775	
10	DFT-s-OFDM QPSK	1	1	15.30	15.19	15.18	16
Channel				342500	349000	355500	16
Frequency (MHz)				1712.5	1745	1777.5	
5	DFT-s-OFDM QPSK	1	1	15.36	15.26	14.21	16
Channel				344000	349000	354000	15
Frequency (MHz)				1720	1745	1770	
20	CP-OFDM QPSK	1	1	14.13	14.10	14.12	15
20	CP-OFDM 16QAM	1	1	13.62	13.60	13.54	14
20	CP-OFDM 64QAM	1	1	12.41	12.41	12.25	13
20	CP-OFDM 256QAM	1	1	8.78	8.86	8.50	9

n77 (3450 MHz ~ 3550 MHz)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			
Frequency (MHz)						3500.01			
100	DFT-s-OFDM PI/2 BPSK	1	1			11.15			12
100		1	136			10.93			
100		1	271			10.72			
100		135	1			10.33			11
100		135	67			10.21			
100		135	136			10.30			
100		270	0			10.46			
100	DFT-s-OFDM QPSK	1	1			11.21			12
100		1	136			11.18			
100		1	271			11.16			
100		135	1			10.55			11
100		135	67			10.42			
100		135	136			10.38			
100		270	0			10.47			
100	DFT-s-OFDM 16QAM	1	1			10.34			11
100	DFT-s-OFDM 64QAM	1	1			8.90			9.5
100	DFT-s-OFDM 256QAM	1	1			6.49			7
Channel				632668	633000	633334	633666	634000	Tune-up limit (dBm)
Frequency (MHz)				3490.02	3495	3500.01	3504.99	3510	
80	DFT-s-OFDM QPSK	1	1	11.11	10.57	11.18	11.21	11.19	12
Channel				632000	632668	633334	634000	634666	Tune-up limit (dBm)
Frequency (MHz)				3480	3490.02	3500.01	3510	3519.99	
60	DFT-s-OFDM QPSK	1	1	10.83	10.73	10.88	10.88	10.67	12
Channel				631334	632334	633334	634332	635332	Tune-up limit (dBm)
Frequency (MHz)				3470.01	3485.01	3500.01	3514.98	3529.98	
40	DFT-s-OFDM QPSK	1	1	11.04	11.06	11.11	11.12	11.03	12
Channel				631000	632168	633334	634500	635666	Tune-up limit (dBm)
Frequency (MHz)				3465	3482.52	3500.01	3517.5	3534.99	
30	DFT-s-OFDM QPSK	1	1	10.44	9.50	10.88	11.00	11.06	12
Channel				630668	632000	633334	634666	636000	Tune-up limit (dBm)
Frequency (MHz)				3460.02	3480	3500.01	3519.99	3540	
20	DFT-s-OFDM QPSK	1	1	10.87	10.81	10.93	10.90	10.87	12
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel						633334			
Frequency (MHz)						3500.01			
100	CP-OFDM QPSK	1	1			10.76			11.5
100	CP-OFDM 16QAM	1	1			10.29			11
100	CP-OFDM 64QAM	1	1			8.68			9.5
100	CP-OFDM 256QAM	1	1			5.63			6

n77 (3700 MHz ~ 3980 MHz)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Low/Middle Channel	Middle Channel	Middle/High Channel	High Channel	Tune-up limit (dBm)
Channel				650000	653000	656000	659000	662000	Tune-up limit (dBm)
Frequency (MHz)				3750	3795	3840	3885	3930	
100	DFT-s-OFDM PI/2 BPSK	1	1	10.95	10.84	10.74	10.84	10.89	12
100		1	136	11.02	10.94	10.81	10.80	10.73	
100		1	271	11.04	10.86	10.59	10.42	10.82	
100		135	1	10.18	10.15	10.13	10.10	10.15	11
100		135	67	10.30	10.40	10.55	10.59	10.50	
100		135	136	10.22	10.13	9.98	9.98	9.96	
100	DFT-s-OFDM QPSK	270	0	10.16	10.20	10.02	10.05	10.03	12
100		1	1	11.21	11.22	11.34	11.18	11.22	
100		1	136	10.88	10.85	10.76	10.73	10.70	
100		1	271	10.96	10.72	10.55	10.41	10.77	11
100		135	1	10.58	10.63	10.64	10.58	10.62	
100		135	67	10.46	10.30	10.57	10.58	10.52	
100	DFT-s-OFDM 256QAM	135	136	10.32	10.27	10.09	10.12	10.10	10
100		270	0	10.25	10.31	10.13	10.18	10.14	
100	DFT-s-OFDM 16QAM	1	1	9.69	9.69	9.65	9.71	9.60	10
100	DFT-s-OFDM 64QAM	1	1	8.21	8.13	7.94	8.17	8.25	9
100	DFT-s-OFDM 256QAM	1	1	5.97	5.88	5.89	5.95	5.86	6.5
Channel				649334	652668	656000	659332	662666	Tune-up limit (dBm)
Frequency (MHz)				3740	3790.005	3840	3889.995	3940	
80	DFT-s-OFDM QPSK	1	1	10.99	10.95	10.92	10.93	10.92	12
Channel				648668	652334	656000	659666	663332	Tune-up limit (dBm)
Frequency (MHz)				3730.005	3785.01	3840	3894.99	3949.995	
60	DFT-s-OFDM QPSK	1	1	11.05	11.02	11.06	10.98	10.86	12
Channel				648000	652000	656000	660000	664000	Tune-up limit (dBm)
Frequency (MHz)				3720	3780	3840	3900	3960	
40	DFT-s-OFDM QPSK	1	1	10.68	11.11	10.94	11.04	10.48	12
Channel				647668	651834	656000	660166	664332	Tune-up limit (dBm)
Frequency (MHz)				3715.005	3777.51	3840	3902.49	3965	
30	DFT-s-OFDM QPSK	1	1	11.23	10.69	11.27	11.20	11.10	12
Channel				647334	651668	656000	660332	664666	Tune-up limit (dBm)
Frequency (MHz)				3710.01	3775.005	3840	3905	3969.99	
20	DFT-s-OFDM QPSK	1	1	11.24	11.26	11.13	11.00	11.04	23
Channel				650000	653000	656000	659000	662000	Tune-up limit (dBm)
Frequency (MHz)				3750	3795	3840	3885	3930	
100	CP-OFDM QPSK	1	1	9.19	9.16	9.15	9.19	9.15	10
100	CP-OFDM 16QAM	1	1	8.46	8.45	8.54	8.61	8.52	9
100	CP-OFDM 64QAM	1	1	7.16	7.08	7.12	7.15	7.04	8
100	CP-OFDM 256QAM	1	1	3.90	4.05	3.95	4.01	4.05	5