



REPORT No.: SZ23040221S01

## Annex E Conducted Power



**Full Power**

GSM850	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)	Ch Delta > 0.5
	128	189	251		128	189	251		
TX Channel	824.2	836.4	848.8		824.2	836.4	848.8		
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8		
GPRS 1 Tx slot	32.10	32.12	32.07	33.00	23.10	23.12	23.07	24.00	0.05
GPRS 2 Tx slots	31.39	31.42	31.33	32.00	25.39	25.42	25.33	26.00	0.09
GPRS 3 Tx slots	29.69	29.73	29.66	30.50	25.43	25.47	25.40	26.24	0.07
GPRS 4 Tx slots	28.66	28.73	28.69	29.50	25.66	25.73	25.69	26.50	0.07
EDGE 1 Tx slot	26.89	27.01	26.95	27.50	17.89	18.01	17.95	18.50	0.12
EDGE 2 Tx slots	25.63	25.72	25.55	26.50	19.63	19.72	19.55	20.50	0.17
EDGE 3 Tx slots	23.28	23.59	23.48	24.00	19.02	19.33	19.22	19.74	0.31
EDGE 4 Tx slots	22.48	22.63	22.52	23.50	19.48	19.63	19.52	20.50	0.15
Mode		Max.	32.12			Max.	25.73		
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	1850.2	1880	1909.8		1850.2	1880	1909.8		
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8		
GPRS 1 Tx slot	28.69	28.73	28.70	29.00	19.69	19.73	19.70	20.00	0.04
GPRS 2 Tx slots	27.84	27.94	27.83	28.00	21.84	21.94	21.83	22.00	0.11
GPRS 3 Tx slots	26.10	26.21	26.18	26.50	21.84	21.95	21.92	22.24	0.11
GPRS 4 Tx slots	25.04	25.16	25.11	25.50	22.04	22.16	22.11	22.50	0.12
EDGE 1 Tx slot	25.11	25.21	25.20	25.50	16.11	16.21	16.20	16.50	0.10
EDGE 2 Tx slots	24.59	24.64	24.55	25.00	18.59	18.64	18.55	19.00	0.09
EDGE 3 Tx slots	22.61	22.71	22.73	23.00	18.35	18.45	18.47	18.74	0.12
EDGE 4 Tx slots	21.55	21.69	21.70	22.00	18.55	18.69	18.70	19.00	0.15
Mode		Max.	28.73			Max.	22.16		
Attenuator	Cable Loss : 0.8								

Band	WCDMA Band II (dBm)			Tune-up Limit (dBm)	WCDMA Band IV (dBm)			Tune-up Limit (dBm)	WCDMA Band V (dBm)			Tune-up Limit (dBm)	
	9262	9400	9538		1312	1413	1513		4132	4182	4233		
TX Channel	9662	9800	9938		1537	1638	1738		4357	4407	4458		
Rx Channel	9662	9800	9938		1537	1638	1738		4357	4407	4458		
Frequency (MHz)	1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6		
3GPP Rel 99	RMC 12.2Kbps	22.10	22.13	22.07	23.00	22.09	22.15	22.11	23.00	22.34	22.43	22.35	23.00
3GPP Rel 6	HSDPA Subtest-1	20.04	20.30	20.52	21.50	20.32	20.45	20.73	21.50	21.41	21.36	21.48	22.00
3GPP Rel 6	HSDPA Subtest-2	18.71	19.09	19.15	20.00	18.73	19.05	19.24	20.00	21.38	21.38	21.44	22.00
3GPP Rel 6	HSDPA Subtest-3	17.22	17.62	17.67	18.50	17.47	17.50	17.64	18.50	20.93	20.90	20.93	21.50
3GPP Rel 6	HSDPA Subtest-4	16.78	17.44	17.04	18.00	17.17	17.22	17.48	18.00	20.88	20.88	20.91	21.50
3GPP Rel 6	HSUPA Subtest-1	18.70	18.73	18.77	19.50	20.84	20.40	20.44	21.00	20.95	20.87	20.96	21.50
3GPP Rel 6	HSUPA Subtest-2	18.70	18.71	18.77	19.50	20.84	20.89	20.94	21.50	21.42	21.39	21.43	22.00
3GPP Rel 6	HSUPA Subtest-3	19.69	19.73	19.75	20.50	19.87	19.93	19.97	20.50	20.43	20.40	20.42	21.00
3GPP Rel 6	HSUPA Subtest-4	18.25	18.26	17.60	18.50	20.85	20.93	20.95	21.50	21.43	21.40	21.46	22.00
3GPP Rel 6	HSUPA Subtest-5	18.50	18.83	19.16	20.00	19.82	19.87	19.95	20.50	20.41	20.37	20.42	21.00
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	20.12	20.15	20.22	21.00	19.90	19.85	19.88	20.50	20.38	20.31	20.34	21.00
Attenuator		Cable Loss	0.8			Cable Loss	0.8			Cable Loss	0.6		
Mode		Max.	22.13			Max.	22.15			Max.	22.43		



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	23.19	23.24	23.19	23.5
20	QPSK	1	49	22.87	23.13	22.98	
20	QPSK	1	99	22.77	22.94	22.86	
20	QPSK	50	0	22.40	22.42	22.32	23
20	QPSK	50	24	22.25	22.29	22.38	
20	QPSK	50	50	22.38	22.45	22.35	
20	QPSK	100	0	22.28	22.47	22.40	23
20	16QAM	1	0	22.36	22.45	22.36	
20	16QAM	1	49	22.19	22.42	22.29	
20	16QAM	1	99	22.21	22.26	22.28	22
20	16QAM	50	0	21.68	21.74	21.70	
20	16QAM	50	24	21.50	21.66	21.59	
20	16QAM	50	50	21.50	21.65	21.51	22
20	16QAM	100	0	21.47	21.62	21.52	
20	64QAM	1	0	21.52	21.64	21.68	
20	64QAM	1	49	21.57	21.59	21.52	22
20	64QAM	1	99	21.47	21.50	21.50	
20	64QAM	50	0	20.67	20.77	20.61	
20	64QAM	50	24	20.64	20.58	20.46	21
20	64QAM	50	50	20.59	20.56	20.63	
20	64QAM	100	0	20.59	20.62	20.48	
Channel				18675	18900	19125	
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	23.16	23.19	23.15	23.5
15	QPSK	1	37	22.84	23.10	22.95	
15	QPSK	1	74	22.73	22.88	22.80	
15	QPSK	36	0	22.35	22.36	22.25	23
15	QPSK	36	20	22.20	22.27	22.34	
15	QPSK	36	39	22.34	22.42	22.30	
15	QPSK	75	0	22.22	22.41	22.36	23
15	16QAM	1	0	22.29	22.41	22.30	
15	16QAM	1	37	22.15	22.38	22.27	
15	16QAM	1	74	22.17	22.22	22.22	22
15	16QAM	36	0	21.62	21.73	21.64	
15	16QAM	36	20	21.41	21.65	21.56	
15	16QAM	36	39	21.47	21.62	21.56	22
15	16QAM	75	0	21.38	21.55	21.44	
15	64QAM	1	0	21.46	21.62	21.61	
15	64QAM	1	37	21.52	21.53	21.46	22
15	64QAM	1	74	21.44	21.45	21.43	
15	64QAM	36	0	20.61	20.72	20.58	
15	64QAM	36	20	20.59	20.56	20.39	21
15	64QAM	36	39	20.55	20.51	20.60	
15	64QAM	75	0	20.56	20.57	20.43	
Channel				18650	18900	19150	
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	23.15	23.17	23.13	23.5
10	QPSK	1	25	22.84	23.08	22.95	
10	QPSK	1	49	22.74	22.90	22.80	
10	QPSK	25	0	22.33	22.37	22.30	23
10	QPSK	25	12	22.20	22.25	22.35	
10	QPSK	25	25	22.31	22.43	22.30	
10	QPSK	50	0	22.24	22.44	22.34	23
10	16QAM	1	0	22.29	22.39	22.32	
10	16QAM	1	25	22.14	22.36	22.26	
10	16QAM	1	49	22.19	22.23	22.25	22
10	16QAM	25	0	21.61	21.76	21.65	
10	16QAM	25	12	21.37	21.65	21.55	
10	16QAM	25	25	21.45	21.60	21.53	22
10	16QAM	50	0	21.39	21.55	21.47	
10	64QAM	1	0	21.46	21.60	21.63	
10	64QAM	1	25	21.52	21.56	21.47	22
10	64QAM	1	49	21.44	21.48	21.45	
10	64QAM	25	0	20.65	20.71	20.59	
10	64QAM	25	12	20.60	20.51	20.39	21
10	64QAM	25	25	20.56	20.50	20.58	
10	64QAM	50	0	20.53	20.58	20.42	
Channel				18625	18900	19175	
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	23.12	23.13	23.11	23.5
5	QPSK	1	12	22.79	23.05	22.91	
5	QPSK	1	24	22.68	22.84	22.74	
5	QPSK	12	0	22.30	22.31	22.23	23
5	QPSK	12	7	22.18	22.20	22.32	
5	QPSK	12	13	22.26	22.38	22.26	
5	QPSK	25	0	22.20	22.40	22.30	23
5	16QAM	1	0	22.23	22.36	22.28	
5	16QAM	1	12	22.11	22.31	22.20	
5	16QAM	1	24	22.15	22.20	22.22	22
5	16QAM	12	0	21.59	21.72	21.60	
5	16QAM	12	7	21.41	21.64	21.49	
5	16QAM	12	13	21.46	21.64	21.53	22
5	16QAM	25	0	21.38	21.50	21.48	
5	64QAM	1	0	21.44	21.54	21.58	
5	64QAM	1	12	21.47	21.52	21.44	22
5	64QAM	1	24	21.41	21.44	21.40	
5	64QAM	12	0	20.62	20.68	20.53	
5	64QAM	12	7	20.56	20.45	20.32	21
5	64QAM	12	13	20.53	20.47	20.54	
5	64QAM	25	0	20.48	20.53	20.40	
Channel				18615	18900	19185	
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	23.12	23.13	23.08	

Band 4 (AWS Band) (dBm) Part 27L (only on channel required)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20050	20175	20300	
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	23.03	23.16	23.09	23.5
20	QPSK	1	49	22.82	23.09	22.84	
20	QPSK	1	99	22.74	22.83	22.75	
20	QPSK	50	0	22.39	22.47	22.37	23
20	QPSK	50	24	22.20	22.34	22.43	
20	QPSK	50	50	22.35	22.46	22.29	
20	QPSK	100	0	22.22	22.54	22.35	23
20	16QAM	1	0	22.31	22.41	22.37	
20	16QAM	1	49	22.21	22.40	22.29	
20	16QAM	1	99	22.15	22.20	22.34	22
20	16QAM	50	0	21.36	21.57	21.47	
20	16QAM	50	24	21.40	21.70	21.60	
20	16QAM	50	50	21.45	21.61	21.58	22
20	16QAM	100	0	21.45	21.59	21.50	
20	64QAM	1	0	21.37	21.49	21.62	
20	64QAM	1	49	21.44	21.46	21.44	22
20	64QAM	1	99	21.43	21.36	21.43	
20	64QAM	50	0	20.55	20.72	20.57	
20	64QAM	50	24	20.49	20.41	20.36	21
20	64QAM	50	50	20.50	20.53	20.46	
20	64QAM	100	0	20.51	20.46	20.43	
Channel				20025	20175	20325	
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	22.97	23.13	23.05	23.5
15	QPSK	1	37	22.77	23.05	22.78	
15	QPSK	1	74	22.71	22.78	22.70	
15	QPSK	36	0	22.34	22.40	22.33	23
15	QPSK	36	20	22.16	22.27	22.40	
15	QPSK	36	39	22.32	22.40	22.25	
15	QPSK	75	0	22.15	22.51	22.32	23
15	16QAM	1	0	22.26	22.37	22.33	
15	16QAM	1	37	22.18	22.36	22.26	
15	16QAM	1	74	22.13	22.18	22.27	22
15	16QAM	36	0	21.32	21.52	21.36	
15	16QAM	36	20	21.44	21.66	21.53	
15	16QAM	36	39	21.39	21.56	21.48	22
15	16QAM	75	0	21.41	21.54	21.39	
15	64QAM	1	0	21.31	21.44	21.56	
15	64QAM	1	37	21.39	21.41	21.41	22
15	64QAM	1	74	21.39	21.32	21.41	
15	64QAM	36	0	20.50	20.69	20.51	
15	64QAM	36	20	20.44	20.34	20.34	21
15	64QAM	36	39	20.43	20.47	20.44	
15	64QAM	75	0	20.46	20.40	20.37	
Channel				20000	20175	20350	
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	22.99	23.10	23.04	23.5
10	QPSK	1	25	22.77	23.03	22.79	
10	QPSK	1	49	22.69	22.78	22.69	
10	QPSK	25	0	22.36	22.40	22.31	23
10	QPSK	25	12	22.16	22.32	22.40	
10	QPSK	25	25	22.30	22.42	22.23	
10	QPSK	50	0	22.15	22.49	22.30	23
10	16QAM	1	0	22.26	22.38	22.31	
10	16QAM	1	25	22.16	22.34	22.22	
10	16QAM	1	49	22.08	22.15	22.30	22
10	16QAM	25	0	21.33	21.50	21.37	
10	16QAM	25	12	21.38	21.66	21.50	
10	16QAM	25	25	21.37	21.57	21.47	22
10	16QAM	50	0	21.41	21.54	21.44	
10	64QAM	1	0	21.35	21.45	21.57	
10	64QAM	1	25	21.42	21.41	21.42	22
10	64QAM	1	49	21.40	21.29	21.40	
10	64QAM	25	0	20.52	20.69	20.50	
10	6						



3	QPSK	1	8	22.78	23.03	22.92	23.5
3	QPSK	1	14	22.70	22.85	22.78	
3	QPSK	8	0	22.30	22.31	22.27	
3	QPSK	8	4	22.13	22.20	22.32	23
3	QPSK	8	7	22.29	22.37	22.26	
3	QPSK	15	0	22.22	22.42	22.31	
3	16QAM	1	0	22.23	22.33	22.26	23
3	16QAM	1	8	22.10	22.32	22.24	
3	16QAM	1	14	22.12	22.20	22.19	
3	16QAM	8	0	21.59	21.77	21.61	22
3	16QAM	8	4	21.40	21.67	21.53	
3	16QAM	8	7	21.48	21.59	21.55	
3	16QAM	15	0	21.40	21.51	21.46	22
3	64QAM	1	0	21.41	21.57	21.58	
3	64QAM	1	8	21.47	21.50	21.43	
3	64QAM	1	14	21.40	21.44	21.38	21
3	64QAM	8	0	20.62	20.66	20.56	
3	64QAM	8	4	20.57	20.46	20.34	
3	64QAM	8	7	20.52	20.44	20.53	21
3	64QAM	15	0	20.51	20.56	20.35	
Channel				18807	18900	19193	
Frequency (MHz)				1850.7	1880	1909.3	(dBm)
1.4	QPSK	1	0	23.11	23.12	23.07	23.5
1.4	QPSK	1	3	22.77	23.02	22.91	
1.4	QPSK	1	5	22.69	22.64	22.77	
1.4	QPSK	3	0	22.29	22.30	22.26	23
1.4	QPSK	3	1	22.12	22.19	22.31	
1.4	QPSK	3	3	22.28	22.36	22.25	
1.4	QPSK	6	0	22.21	22.41	22.30	23
1.4	16QAM	1	0	22.22	22.32	22.25	
1.4	16QAM	1	3	22.09	22.31	22.23	
1.4	16QAM	1	5	22.11	22.19	22.18	23
1.4	16QAM	3	0	21.58	21.76	21.60	
1.4	16QAM	3	1	21.39	21.66	21.52	
1.4	16QAM	3	3	21.47	21.58	21.54	22
1.4	16QAM	6	0	21.39	21.50	21.45	
1.4	64QAM	1	0	21.40	21.56	21.57	
1.4	64QAM	1	3	21.46	21.49	21.42	22
1.4	64QAM	1	5	21.39	21.43	21.37	
1.4	64QAM	3	0	20.61	20.65	20.55	
1.4	64QAM	3	1	20.56	20.45	20.33	21
1.4	64QAM	3	3	20.51	20.43	20.52	
1.4	64QAM	6	0	20.50	20.55	20.34	

3	QPSK	1	8	22.72	23.00	22.71	23.5
3	QPSK	1	14	22.67	22.73	22.65	
3	QPSK	8	0	22.27	22.38	22.28	
3	QPSK	8	4	22.12	22.23	22.33	23
3	QPSK	8	7	22.26	22.35	22.21	
3	QPSK	15	0	22.16	22.47	22.25	
3	16QAM	1	0	22.19	22.29	22.30	23
3	16QAM	1	8	22.10	22.34	22.20	
3	16QAM	1	14	22.03	22.11	22.30	
3	16QAM	8	0	21.28	21.54	21.37	22
3	16QAM	8	4	21.42	21.69	21.52	
3	16QAM	8	7	21.37	21.63	21.52	
3	16QAM	15	0	21.43	21.55	21.43	22
3	64QAM	1	0	21.25	21.40	21.50	
3	64QAM	1	8	21.32	21.37	21.31	
3	64QAM	1	14	21.39	21.24	21.33	21
3	64QAM	8	0	20.47	20.64	20.49	
3	64QAM	8	4	20.40	20.35	20.24	
3	64QAM	8	7	20.44	20.44	20.37	21
3	64QAM	15	0	20.41	20.37	20.35	
Channel				19957	20175	20393	
Frequency (MHz)				1710.7	1732.5	1754.3	(dBm)
1.4	QPSK	1	0	22.86	23.01	22.96	23.5
1.4	QPSK	1	3	22.69	22.97	22.68	
1.4	QPSK	1	5	22.64	22.70	22.62	
1.4	QPSK	3	0	22.24	22.35	22.25	23
1.4	QPSK	3	1	22.09	22.20	22.30	
1.4	QPSK	3	3	22.23	22.32	22.18	
1.4	QPSK	6	0	22.13	22.44	22.22	23
1.4	16QAM	1	0	22.16	22.26	22.27	
1.4	16QAM	1	3	22.07	22.31	22.17	
1.4	16QAM	1	5	22.00	22.08	22.27	23
1.4	16QAM	3	0	21.25	21.51	21.34	
1.4	16QAM	3	1	21.39	21.66	21.49	
1.4	16QAM	3	3	21.34	21.60	21.49	22
1.4	16QAM	6	0	21.40	21.52	21.40	
1.4	64QAM	1	0	21.22	21.37	21.47	
1.4	64QAM	1	3	21.29	21.34	21.28	22
1.4	64QAM	1	5	21.36	21.21	21.30	
1.4	64QAM	3	0	20.44	20.61	20.46	
1.4	64QAM	3	1	20.37	20.32	20.21	21
1.4	64QAM	3	3	20.41	20.41	20.34	
1.4	64QAM	6	0	20.38	20.34	20.32	



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	23.41	23.52	23.39	24.5
10	QPSK	1	25	23.37	23.46	23.31	
10	QPSK	1	49	23.22	23.25	23.23	
10	QPSK	25	0	22.52	22.87	22.59	23.5
10	QPSK	25	12	22.68	22.67	22.62	
10	QPSK	25	25	22.69	22.75	22.62	
10	QPSK	50	0	22.72	22.80	22.69	23.5
10	16QAM	1	0	22.68	22.61	22.49	
10	16QAM	1	25	22.48	22.62	22.57	
10	16QAM	1	49	22.63	22.51	22.51	22.5
10	16QAM	25	0	21.75	21.99	21.96	
10	16QAM	25	12	21.83	22.06	22.01	
10	16QAM	25	25	21.79	22.05	21.84	22.5
10	16QAM	50	0	21.98	22.24	22.10	
10	64QAM	1	0	21.85	22.04	21.87	
10	64QAM	1	25	21.85	21.98	21.99	22.5
10	64QAM	1	49	21.83	22.01	21.99	
10	64QAM	25	0	20.82	20.93	20.82	
10	64QAM	25	12	20.60	20.59	20.79	21.5
10	64QAM	25	25	20.67	20.55	20.69	
10	64QAM	50	0	20.68	20.58	20.60	
Channel				20425	20525	20625	
Frequency (MHz)				826.5	836.5	846.5	
5	QPSK	1	0	23.35	23.46	23.33	24.5
5	QPSK	1	12	23.23	23.41	23.26	
5	QPSK	1	24	23.10	23.22	23.18	
5	QPSK	12	0	22.49	22.82	22.52	23.5
5	QPSK	12	7	22.65	22.64	22.58	
5	QPSK	12	13	22.67	22.68	22.57	
5	QPSK	25	0	22.66	22.78	22.62	23.5
5	16QAM	1	0	22.61	22.57	22.43	
5	16QAM	1	12	22.43	22.59	22.52	
5	16QAM	1	24	22.59	22.46	22.48	22.5
5	16QAM	12	0	21.70	21.95	21.92	
5	16QAM	12	7	21.80	22.03	21.97	
5	16QAM	12	13	21.75	22.00	21.81	22.5
5	16QAM	25	0	21.91	22.19	22.04	
5	64QAM	1	0	21.81	21.99	21.81	
5	64QAM	1	12	21.80	21.95	21.93	22.5
5	64QAM	1	24	21.79	21.95	21.96	
5	64QAM	12	0	20.76	20.87	20.76	
5	64QAM	12	7	20.54	20.55	20.75	21.5
5	64QAM	12	13	20.64	20.50	20.63	
5	64QAM	25	0	20.63	20.53	20.57	
Channel				20415	20525	20635	
Frequency (MHz)				825.5	836.5	847.5	
3	QPSK	1	0	23.34	23.43	23.33	24.5
3	QPSK	1	8	23.21	23.43	23.27	
3	QPSK	1	14	23.07	23.21	23.20	
3	QPSK	8	0	22.50	22.84	22.55	23.5
3	QPSK	8	4	22.65	22.65	22.57	
3	QPSK	8	7	22.63	22.69	22.58	
3	QPSK	15	0	22.66	22.76	22.67	23.5
3	16QAM	1	0	22.62	22.59	22.42	
3	16QAM	1	8	22.46	22.60	22.50	
3	16QAM	1	14	22.58	22.49	22.47	22.5
3	16QAM	8	0	21.71	21.95	21.94	
3	16QAM	8	4	21.80	22.01	21.96	
3	16QAM	8	7	21.73	22.00	21.77	22.5
3	16QAM	15	0	21.93	22.21	22.04	
3	64QAM	1	0	21.80	21.99	21.83	
3	64QAM	1	8	21.82	21.91	21.95	22.5
3	64QAM	1	14	21.78	21.96	21.95	
3	64QAM	8	0	20.78	20.89	20.79	
3	64QAM	8	4	20.57	20.56	20.73	21.5
3	64QAM	8	7	20.61	20.51	20.64	
3	64QAM	15	0	20.65	20.56	20.57	
Channel				20407	20525	20643	
Frequency (MHz)				824.7	836.5	848.3	
1.4	QPSK	1	0	23.36	23.43	23.35	24.5
1.4	QPSK	1	3	23.23	23.42	23.29	
1.4	QPSK	1	5	23.09	23.23	23.22	
1.4	QPSK	3	0	22.52	22.86	22.57	23.5
1.4	QPSK	3	1	22.67	22.67	22.59	
1.4	QPSK	3	3	22.65	22.71	22.60	
1.4	QPSK	6	0	22.68	22.78	22.69	23.5
1.4	16QAM	1	0	22.64	22.61	22.44	
1.4	16QAM	1	3	22.48	22.62	22.52	
1.4	16QAM	1	5	22.60	22.51	22.49	23.5
1.4	16QAM	3	0	21.73	21.97	21.96	
1.4	16QAM	3	1	21.82	22.03	21.98	
1.4	16QAM	3	3	21.75	22.02	21.79	22.5
1.4	16QAM	6	0	21.95	22.23	22.06	
1.4	64QAM	1	0	21.82	22.01	21.85	
1.4	64QAM	1	3	21.84	21.93	21.97	22.5
1.4	64QAM	1	5	21.80	21.98	21.97	
1.4	64QAM	3	0	20.80	20.91	20.81	
1.4	64QAM	3	1	20.59	20.58	20.75	21.5
1.4	64QAM	3	3	20.63	20.53	20.66	
1.4	64QAM	6	0	20.67	20.58	20.59	

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	22.87	22.95	22.87	23.5
20	QPSK	1	49	22.66	22.78	22.70	
20	QPSK	1	99	22.51	22.68	22.58	
20	QPSK	50	0	21.99	22.32	22.04	23
20	QPSK	50	24	22.08	22.04	22.06	
20	QPSK	50	50	22.07	22.16	21.98	
20	QPSK	100	0	22.13	22.14	22.12	23
20	16QAM	1	0	22.00	22.15	21.98	
20	16QAM	1	49	21.79	22.01	21.98	
20	16QAM	1	99	22.11	21.94	21.94	22
20	16QAM	50	0	21.29	21.50	21.46	
20	16QAM	50	24	21.28	21.56	21.56	
20	16QAM	50	50	21.27	21.66	21.40	22
20	16QAM	100	0	21.57	21.66	21.51	
20	64QAM	1	0	21.25	21.45	21.24	
20	64QAM	1	49	21.24	21.30	21.38	22
20	64QAM	1	99	21.17	21.35	21.39	
20	64QAM	50	0	20.33	20.50	20.47	
20	64QAM	50	24	20.30	20.28	20.38	21
20	64QAM	50	50	20.25	20.13	20.26	
20	64QAM	100	0	20.32	20.18	20.08	
Channel				20825	21100	21375	
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	22.84	22.93	22.84	23.5
15	QPSK	1	37	22.61	22.74	22.64	
15	QPSK	1	74	22.47	22.64	22.52	
15	QPSK	36	0	21.94	22.29	22.01	23
15	QPSK	36	20	22.01	22.00	22.03	
15	QPSK	36	39	22.02	22.10	21.96	
15	QPSK	75	0	22.07	22.11	22.09	23
15	16QAM	1	0	21.97	22.05	21.94	
15	16QAM	1	37	21.72	21.95	21.96	
15	16QAM	1	74	22.06	21.88	21.89	22
15	16QAM	36	0	21.24	21.47	21.41	
15	16QAM	36	20	21.22	21.50	21.53	
15	16QAM	36	39	21.22	21.63	21.37	22
15	16QAM	75	0	21.52	21.62	21.46	
15	64QAM	1	0	21.20	21.41	21.20	
15	64QAM	1	37	21.18	21.23	21.32	22
15	64QAM	1	74	21.15	21.31	21.32	
15	64QAM	36	0	20.27	20.47	20.43	
15	64QAM	36	20	20.28	20.22	20.33	21
15	64QAM	36	39	20.21	20.07	20.20	
15	64QAM	75	0	20.28	20.14	20.05	
Channel				20800	21100	21400	
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	22.84	22.92	22.82	23.5
10	QPSK	1	25	22.59	22.73	22.64	
10	QPSK	1	49	22.48	22.65	22.54	
10	QPSK	25	0	21.95	22.27	22.02	23
10	QPSK	25	12	22.06	22.01	22.00	
10	QPSK	25	25	22.04	22.10	21.94	
10	QPSK	50	0	22.10	22.09	22.06	23
10	16QAM	1	0	21.94	22.07	21.96	
10	16QAM	1	25	21.73	21.94	21.93	
10	16QAM	1	49	22.07	21.91	21.89	22
10	16QAM	25	0	21.24	21.46	21.42	
10	16QAM	25	12	21.25	21.52	21.54	
10	16QAM	25	25	21.21	21.60	21.37	22
10	16QAM	50	0	21.53	21.61	21.49	
10	64QAM	1	0	21.20	21.42	21.18	
10	64QAM	1	25	21.19	21.25	21.35	22
10	64QAM	1	49	21.15	21.31	21.34	
10	64QAM	25	0	20.26	20.45	20.43	
10	64QAM	25	12	20.27	20.22	20.34	21
10	64QAM	25	25	20.20	20.10	20.21	
10	64QAM	50	0	20.29</			



Band 12 (700MHz Low Band) (dBm) Part 27F(only on channel required)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				23060	23095	23130	
Frequency (MHz)				704	707.5	711	
10	QPSK	1	0	23.05	23.18	23.16	24
10	QPSK	1	25	22.92	23.10	23.04	
10	QPSK	1	49	22.80	22.87	22.91	
10	QPSK	25	0	22.28	22.53	22.32	23
10	QPSK	25	12	22.42	22.45	22.37	
10	QPSK	25	25	22.33	22.40	22.35	
10	QPSK	50	0	22.48	22.53	22.37	23
10	16QAM	1	0	22.32	22.37	22.22	
10	16QAM	1	25	22.19	22.28	22.28	
10	16QAM	1	49	22.32	22.28	22.23	22
10	16QAM	25	0	21.45	21.67	21.61	
10	16QAM	25	12	21.54	21.75	21.67	
10	16QAM	25	25	21.43	21.73	21.48	22
10	16QAM	50	0	21.74	21.99	21.78	
10	64QAM	1	0	21.11	21.26	21.05	
10	64QAM	1	25	21.12	21.25	21.14	22
10	64QAM	1	49	21.10	21.19	21.14	
10	64QAM	25	0	20.53	20.70	20.47	
10	64QAM	25	12	20.28	20.33	20.46	21
10	64QAM	25	25	20.36	20.28	20.39	
10	64QAM	50	0	20.32	20.33	20.28	
Channel				23035	23095	23155	
Frequency (MHz)				701.5	707.5	713.5	
5	QPSK	1	0	22.98	23.15	23.09	24
5	QPSK	1	12	22.86	23.06	22.96	
5	QPSK	1	24	22.73	22.82	22.86	
5	QPSK	12	0	22.22	22.46	22.28	23
5	QPSK	12	7	22.33	22.39	22.32	
5	QPSK	12	13	22.24	22.34	22.30	
5	QPSK	25	0	22.43	22.49	22.33	23
5	16QAM	1	0	22.30	22.26	22.14	
5	16QAM	1	12	22.11	22.21	22.19	
5	16QAM	1	24	22.24	22.20	22.16	22
5	16QAM	12	0	21.36	21.60	21.54	
5	16QAM	12	7	21.50	21.71	21.63	
5	16QAM	12	13	21.34	21.68	21.40	22
5	16QAM	25	0	21.65	21.90	21.69	
5	64QAM	1	0	21.04	21.19	20.98	
5	64QAM	1	12	21.04	21.20	21.06	22
5	64QAM	1	24	21.06	21.11	21.06	
5	64QAM	12	0	20.45	20.62	20.40	
5	64QAM	12	7	20.20	20.27	20.37	21
5	64QAM	12	13	20.30	20.22	20.30	
5	64QAM	25	0	20.26	20.29	20.19	
Channel				23025	23095	23165	
Frequency (MHz)				700.5	707.5	714.5	
3	QPSK	1	0	22.99	23.07	23.05	24
3	QPSK	1	8	22.82	23.02	22.93	
3	QPSK	1	14	22.68	22.77	22.79	
3	QPSK	8	0	22.13	22.40	22.21	23
3	QPSK	8	4	22.32	22.29	22.24	
3	QPSK	8	7	22.23	22.28	22.25	
3	QPSK	15	0	22.40	22.41	22.28	23
3	16QAM	1	0	22.24	22.21	22.10	
3	16QAM	1	8	22.10	22.16	22.20	
3	16QAM	1	14	22.25	22.17	22.10	22
3	16QAM	8	0	21.32	21.56	21.50	
3	16QAM	8	4	21.44	21.62	21.59	
3	16QAM	8	7	21.28	21.59	21.39	22
3	16QAM	15	0	21.63	21.87	21.65	
3	64QAM	1	0	21.01	21.14	20.96	
3	64QAM	1	8	21.01	21.12	21.04	22
3	64QAM	1	14	21.03	21.05	21.03	
3	64QAM	8	0	20.39	20.57	20.39	
3	64QAM	8	4	20.17	20.20	20.37	21
3	64QAM	8	7	20.21	20.19	20.28	
3	64QAM	15	0	20.21	20.21	20.19	
Channel				23017	23095	23173	
Frequency (MHz)				699.7	707.5	715.3	
1.4	QPSK	1	0	22.94	23.02	23.00	24
1.4	QPSK	1	3	22.77	22.97	22.88	
1.4	QPSK	1	5	22.63	22.72	22.74	
1.4	QPSK	3	0	22.08	22.35	22.16	23
1.4	QPSK	3	1	22.27	22.24	22.19	
1.4	QPSK	3	3	22.18	22.23	22.20	
1.4	QPSK	6	0	22.35	22.36	22.23	23
1.4	16QAM	1	0	22.19	22.16	22.05	
1.4	16QAM	1	3	22.05	22.11	22.15	
1.4	16QAM	1	5	22.20	22.12	22.05	23
1.4	16QAM	3	0	21.27	21.51	21.45	
1.4	16QAM	3	1	21.39	21.57	21.54	
1.4	16QAM	3	3	21.23	21.54	21.34	22
1.4	16QAM	6	0	21.58	21.82	21.60	
1.4	64QAM	1	0	20.96	21.09	20.91	
1.4	64QAM	1	3	20.96	21.07	20.99	22
1.4	64QAM	1	5	20.98	21.00	20.98	
1.4	64QAM	3	0	20.34	20.52	20.34	
1.4	64QAM	3	1	20.12	20.15	20.32	21
1.4	64QAM	3	3	20.16	20.14	20.23	
1.4	64QAM	6	0	20.16	20.16	20.14	

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	23.07	23.11	22.91	24
10	QPSK	1	25	22.86	23.01	22.84	
10	QPSK	1	49	22.76	22.92	22.77	
10	QPSK	25	0	22.06	22.49	22.18	23
10	QPSK	25	12	22.16	22.25	22.11	
10	QPSK	25	25	22.31	22.39	22.23	
10	QPSK	50	0	22.37	22.42	22.38	23
10	16QAM	1	0	22.28	22.33	22.24	
10	16QAM	1	25	22.10	22.26	22.21	
10	16QAM	1	49	22.28	22.12	22.14	22
10	16QAM	25	0	21.43	21.58	21.58	
10	16QAM	25	12	21.55	21.72	21.62	
10	16QAM	25	25	21.35	21.61	21.41	22
10	16QAM	50	0	21.54	21.85	21.65	
10	64QAM	1	0	21.06	21.15	20.86	
10	64QAM	1	25	20.93	21.09	21.20	22
10	64QAM	1	49	20.94	21.03	21.19	
10	64QAM	25	0	20.43	20.51	20.41	
10	64QAM	25	12	20.29	20.20	20.39	21
10	64QAM	25	25	20.40	20.06	20.22	
10	64QAM	50	0	20.33	20.15	20.24	
Channel				23755	23790	23825	
Frequency (MHz)				706.5	710	713.5	
5	QPSK	1	0	22.97	23.02	22.83	24
5	QPSK	1	12	22.80	22.91	22.78	
5	QPSK	1	24	22.70	22.83	22.69	
5	QPSK	12	0	21.99	22.40	22.11	23
5	QPSK	12	7	22.11	22.17	22.01	
5	QPSK	12	13	22.25	22.33	22.17	
5	QPSK	25	0	22.30	22.32	22.29	23
5	16QAM	1	0	22.21	22.24	22.04	
5	16QAM	1	12	22.00	22.23	22.12	
5	16QAM	1	24	22.23	22.03	22.05	22
5	16QAM	12	0	21.38	21.53	21.50	
5	16QAM	12	7	21.45	21.63	21.54	
5	16QAM	12	13	21.26	21.53	21.34	22
5	16QAM	25	0	21.44	21.79	21.58	
5	64QAM	1	0	20.97	21.07	20.80	
5	64QAM	1	12	20.83	21.00	21.11	22
5	64QAM	1	24	20.88	20.93	21.12	
5	64QAM	12	0	20.35	20.44	20.36	
5	64QAM	12	7	20.23	20.12	20.34	21
5	64QAM	12	13	20.33	19.96	20.12	
5	64QAM	25	0	20.25	20.07	20.15	



Band 25 (1900MHz Band) (dBm) Part 24E							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				26140	26365	26590	
Frequency (MHz)				1860	1882.5	1905	
20	QPSK	1	0	23.11	23.27	23.17	23.5
20	QPSK	1	49	22.90	23.13	22.96	
20	QPSK	1	99	22.79	23.01	22.83	
20	QPSK	50	0	22.40	22.47	22.38	23
20	QPSK	50	24	22.28	22.35	22.34	
20	QPSK	50	50	22.31	22.38	22.33	
20	QPSK	100	0	22.33	22.44	22.39	23
20	16QAM	1	0	22.36	22.43	22.30	
20	16QAM	1	49	22.20	22.41	22.35	
20	16QAM	1	99	22.19	22.30	22.24	22
20	16QAM	50	0	21.43	21.61	21.50	
20	16QAM	50	24	21.48	21.67	21.62	
20	16QAM	50	50	21.50	21.70	21.45	22
20	16QAM	100	0	21.56	21.59	21.53	
20	64QAM	1	0	21.53	21.58	21.60	
20	64QAM	1	49	21.49	21.51	21.58	22
20	64QAM	1	99	21.44	21.47	21.54	
20	64QAM	50	0	20.63	20.78	20.77	
20	64QAM	50	24	20.57	20.64	20.66	21
20	64QAM	50	50	20.55	20.51	20.58	
20	64QAM	100	0	20.55	20.56	20.53	
Channel				26115	26365	26615	
Frequency (MHz)				1857.5	1882.5	1907.5	
15	QPSK	1	0	23.05	23.20	23.10	23.5
15	QPSK	1	37	22.80	23.06	22.87	
15	QPSK	1	74	22.71	22.95	22.73	
15	QPSK	36	0	22.31	22.42	22.31	23
15	QPSK	36	20	22.23	22.28	22.24	
15	QPSK	36	39	22.26	22.33	22.27	
15	QPSK	75	0	22.25	22.34	22.31	23
15	16QAM	1	0	22.27	22.34	22.21	
15	16QAM	1	37	22.12	22.33	22.29	
15	16QAM	1	74	22.12	22.20	22.14	22
15	16QAM	36	0	21.30	21.51	21.46	
15	16QAM	36	20	21.51	21.63	21.64	
15	16QAM	36	39	21.46	21.59	21.42	22
15	16QAM	75	0	21.52	21.56	21.53	
15	64QAM	1	0	21.44	21.49	21.52	
15	64QAM	1	37	21.44	21.45	21.49	22
15	64QAM	1	74	21.38	21.42	21.46	
15	64QAM	36	0	20.56	20.70	20.68	
15	64QAM	36	20	20.51	20.54	20.58	21
15	64QAM	36	39	20.50	20.46	20.52	
15	64QAM	75	0	20.49	20.48	20.43	
Channel				26090	26365	26640	
Frequency (MHz)				1855	1882.5	1910	
10	QPSK	1	0	23.02	23.17	23.07	23.5
10	QPSK	1	25	22.77	23.03	22.84	
10	QPSK	1	49	22.68	22.92	22.70	
10	QPSK	25	0	22.28	22.39	22.28	23
10	QPSK	25	12	22.20	22.25	22.21	
10	QPSK	25	25	22.23	22.30	22.24	
10	QPSK	50	0	22.22	22.31	22.28	23
10	16QAM	1	0	22.24	22.31	22.18	
10	16QAM	1	25	22.09	22.30	22.26	
10	16QAM	1	49	22.09	22.17	22.11	22
10	16QAM	25	0	21.27	21.50	21.47	
10	16QAM	25	12	21.50	21.67	21.60	
10	16QAM	25	25	21.46	21.60	21.46	22
10	16QAM	50	0	21.52	21.55	21.56	
10	64QAM	1	0	21.41	21.46	21.49	
10	64QAM	1	25	21.41	21.42	21.46	22
10	64QAM	1	49	21.35	21.39	21.43	
10	64QAM	25	0	20.53	20.67	20.65	
10	64QAM	25	12	20.48	20.51	20.55	21
10	64QAM	25	25	20.47	20.43	20.49	
10	64QAM	50	0	20.46	20.45	20.40	
Channel				26065	26365	26665	
Frequency (MHz)				1852.5	1882.5	1912.5	
5	QPSK	1	0	22.99	23.14	23.04	23.5
5	QPSK	1	12	22.74	23.00	22.81	
5	QPSK	1	24	22.65	22.89	22.67	
5	QPSK	12	0	22.25	22.36	22.25	23
5	QPSK	12	7	22.17	22.22	22.18	
5	QPSK	12	13	22.20	22.27	22.21	
5	QPSK	25	0	22.19	22.28	22.25	23
5	16QAM	1	0	22.21	22.28	22.15	
5	16QAM	1	12	22.06	22.27	22.23	
5	16QAM	1	24	22.06	22.14	22.08	22
5	16QAM	12	0	21.30	21.54	21.45	
5	16QAM	12	7	21.45	21.64	21.65	
5	16QAM	12	13	21.50	21.62	21.44	22
5	16QAM	25	0	21.52	21.51	21.53	
5	64QAM	1	0	21.38	21.43	21.46	
5	64QAM	1	12	21.38	21.39	21.43	22
5	64QAM	1	24	21.32	21.36	21.40	
5	64QAM	12	0	20.50	20.64	20.62	
5	64QAM	12	7	20.45	20.48	20.52	21
5	64QAM	12	13	20.44	20.40	20.46	
5	64QAM	25	0	20.43	20.42	20.37	
Channel				26055	26365	26675	
Frequency (MHz)				1851.5	1882.5	1913.5	
3	QPSK	1	0	22.96	23.11	23.01	

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	23.44	23.48	23.39	24
15	QPSK	1	37	23.32	23.40	23.30	
15	QPSK	1	74	23.17	23.27	23.21	
15	QPSK	36	0	22.53	22.85	22.58	23
15	QPSK	36	20	22.66	22.64	22.66	
15	QPSK	36	39	22.62	22.72	22.57	
15	QPSK	75	0	22.69	22.74	22.72	23
15	16QAM	1	0	22.62	22.66	22.52	
15	16QAM	1	37	22.41	22.58	22.55	
15	16QAM	1	74	22.66	22.55	22.49	22
15	16QAM	36	0	21.66	21.82	21.79	
15	16QAM	36	20	21.70	21.93	21.94	
15	16QAM	36	39	21.62	21.71	21.74	22
15	16QAM	75	0	21.61	21.77	21.96	
15	64QAM	1	0	21.53	21.80	21.54	
15	64QAM	1	37	21.56	21.61	21.64	22
15	64QAM	1	74	21.49	21.69	21.64	
15	64QAM	36	0	20.75	20.87	20.82	
15	64QAM	36	20	20.65	20.66	20.82	21
15	64QAM	36	39	20.63	20.53	20.65	
15	64QAM	75	0	20.69	20.60	20.55	
Channel				26740	26865	26990	
Frequency (MHz)				819	831.5	844	
10	QPSK	1	0	23.41	23.46	23.36	24
10	QPSK	1	25	23.29	23.37	23.27	
10	QPSK	1	49	23.14	23.24	23.18	
10	QPSK	25	0	22.50	22.82	22.55	23
10	QPSK	25	12	22.63	22.61	22.63	
10	QPSK	25	25	22.59	22.69	22.54	
10	QPSK	50	0	22.66	22.71	22.69	23
10	16QAM	1	0	22.59	22.63	22.49	
10	16QAM	1	25	22.38	22.55	22.52	
10	16QAM	1	49	22.63	22.52	22.46	22
10	16QAM	25	0	21.63	21.79	21.76	
10	16QAM	25	12	21.67	21.90	21.91	
10	16QAM	25	25	21.59	21.68	21.71	22
10	16QAM	50	0	21.58	21.74	21.93	
10	64QAM	1	0	21.50	21.77	21.51	
10	64QAM	1	25	21.53	21.58	21.61	22
10	64QAM	1	49	21.46	21.66	21.61	
10	64QAM	25	0	20.72	20.84	20.79	
10	64QAM	25	12	20.62	20.63	20.79	21
10	64QAM	25	25	20.60	20.50	20.62	
10	64QAM	50	0	20.66	20.57	20.52	
Channel				26715	26865	27015	
Frequency (MHz)				816.5	831.5	846.5	
5	QPSK	1	0	23.36	23.43	23.31	24
5	QPSK	1	12	23.24	23.32	23.22	
5	QPSK	1	24	23.09	23.19	23.13	
5	QPSK	12	0	22.45	22.77	22.50	23
5	QPSK	12	7	22.58	22.56	22.58	
5	QPSK	12	13	22.54	22.64	22.49	
5	QPSK	25	0	22.61	22.66	22.64	23
5	16QAM	1	0	22.54	22.58	22.44	
5	16QAM	1	12	22.33	22.50	22.47	
5	16QAM	1	24	22.58	22.47	22.41	22
5	16QAM	12	0	21.58	21.74	21.71	
5	16QAM	12	7	21.62	21.85	21.86	
5	16QAM	12	13	21.54	21.63	21.66	22
5	16QAM	25	0	21.53	21.69	21.88	
5	64QAM	1	0	21.45	21.72	21.46	
5	64QAM	1	12	21.48	21.53	21.56	22
5	64QAM	1	24	21.41	21.61	21.56	
5	64QAM	12	0	20.67	20.79	20.74	
5	64QAM	12	7	20.57</			



3	QPSK	1	8	22.71	22.97	22.78	23.5
3	QPSK	1	14	22.62	22.86	22.64	
3	QPSK	8	0	22.22	22.33	22.22	
3	QPSK	8	4	22.14	22.19	22.15	23
3	QPSK	8	7	22.17	22.24	22.18	
3	QPSK	15	0	22.16	22.25	22.22	
3	16QAM	1	0	22.18	22.25	22.12	23
3	16QAM	1	8	22.03	22.24	22.20	
3	16QAM	1	14	22.03	22.11	22.05	
3	16QAM	8	0	21.34	21.53	21.48	22
3	16QAM	8	4	21.48	21.68	21.66	
3	16QAM	8	7	21.53	21.64	21.45	
3	16QAM	15	0	21.57	21.50	21.53	22
3	64QAM	1	0	21.35	21.40	21.43	
3	64QAM	1	8	21.35	21.36	21.40	
3	64QAM	1	14	21.29	21.33	21.37	21
3	64QAM	8	0	20.47	20.61	20.59	
3	64QAM	8	4	20.42	20.45	20.49	
3	64QAM	8	7	20.41	20.37	20.43	21
3	64QAM	15	0	20.40	20.39	20.34	
Channel				26047	26365	26663	
Frequency (MHz)				1850.7	1882.5	1914.3	
1.4	QPSK	1	0	22.94	23.09	22.99	23.5
1.4	QPSK	1	3	22.69	22.95	22.76	
1.4	QPSK	1	5	22.60	22.64	22.62	
1.4	QPSK	3	0	22.20	22.31	22.20	23
1.4	QPSK	3	1	22.12	22.17	22.13	
1.4	QPSK	3	3	22.15	22.22	22.16	
1.4	QPSK	6	0	22.14	22.23	22.20	21.5
1.4	16QAM	1	0	22.16	22.23	22.10	
1.4	16QAM	1	3	22.01	22.22	22.18	
1.4	16QAM	1	5	22.01	22.09	22.03	20.5
1.4	16QAM	3	0	21.32	21.51	21.46	
1.4	16QAM	3	1	21.46	21.66	21.64	
1.4	16QAM	3	3	21.51	21.62	21.43	22
1.4	16QAM	6	0	21.55	21.48	21.51	
1.4	64QAM	1	0	21.33	21.38	21.41	
1.4	64QAM	1	3	21.33	21.34	21.38	21
1.4	64QAM	1	5	21.27	21.31	21.35	
1.4	64QAM	3	0	20.45	20.59	20.57	
1.4	64QAM	3	1	20.40	20.43	20.47	21
1.4	64QAM	3	3	20.39	20.35	20.41	
1.4	64QAM	6	0	20.38	20.37	20.32	

1.4	QPSK	1	3	23.15	23.23	23.13	24
1.4	QPSK	1	5	23.00	23.10	23.04	
1.4	QPSK	3	0	22.36	22.68	22.41	
1.4	QPSK	3	1	22.49	22.47	22.49	23
1.4	QPSK	3	3	22.45	22.55	22.40	
1.4	QPSK	6	0	22.52	22.57	22.55	
1.4	16QAM	1	0	22.45	22.49	22.35	23
1.4	16QAM	1	3	22.24	22.41	22.38	
1.4	16QAM	1	5	22.49	22.38	22.32	
1.4	16QAM	3	0	21.49	21.65	21.62	22
1.4	16QAM	3	1	21.53	21.76	21.77	
1.4	16QAM	3	3	21.45	21.54	21.57	
1.4	16QAM	6	0	21.44	21.60	21.79	22
1.4	64QAM	1	0	21.36	21.63	21.37	
1.4	64QAM	1	3	21.39	21.44	21.47	
1.4	64QAM	1	5	21.32	21.52	21.47	22
1.4	64QAM	3	0	20.58	20.70	20.65	
1.4	64QAM	3	1	20.48	20.49	20.65	
1.4	64QAM	3	3	20.46	20.36	20.48	21
1.4	64QAM	6	0	20.52	20.43	20.38	





Band 66 (dBm)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				132072	132322	132572	
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	23.14	23.30	23.27	
20	QPSK	1	49	22.90	23.19	22.96	23.5
20	QPSK	1	99	22.80	22.96	22.80	
20	QPSK	50	0	22.44	22.57	22.48	
20	QPSK	50	24	22.31	22.41	22.50	23
20	QPSK	50	50	22.41	22.61	22.39	
20	QPSK	100	0	22.31	22.59	22.53	
20	16QAM	1	0	22.45	22.55	22.54	23
20	16QAM	1	49	22.25	22.45	22.34	
20	16QAM	1	99	22.19	22.26	22.47	
20	16QAM	50	0	21.55	21.57	21.47	22
20	16QAM	50	24	21.43	21.51	21.54	
20	16QAM	50	50	21.49	21.51	21.57	
20	16QAM	100	0	21.48	21.57	21.55	22
20	64QAM	1	0	21.49	21.62	21.74	
20	64QAM	1	49	21.49	21.52	21.50	
20	64QAM	1	99	21.56	21.49	21.48	21
20	64QAM	50	0	20.70	20.83	20.66	
20	64QAM	50	24	20.66	20.50	20.41	
20	64QAM	50	50	20.66	20.59	20.64	21
20	64QAM	100	0	20.57	20.61	20.54	
Channel				132047	132322	132597	
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	23.10	23.23	23.23	23.5
15	QPSK	1	37	22.84	23.16	22.91	
15	QPSK	1	74	22.74	22.93	22.78	
15	QPSK	36	0	22.41	22.55	22.45	23
15	QPSK	36	20	22.26	22.36	22.45	
15	QPSK	36	39	22.37	22.56	22.32	
15	QPSK	75	0	22.25	22.54	22.49	23
15	16QAM	1	0	22.41	22.42	22.48	
15	16QAM	1	37	22.20	22.41	22.28	
15	16QAM	1	74	22.17	22.21	22.40	22
15	16QAM	36	0	21.52	21.50	21.35	
15	16QAM	36	20	21.42	21.41	21.47	
15	16QAM	36	39	21.45	21.54	21.45	22
15	16QAM	75	0	21.47	21.49	21.49	
15	64QAM	1	0	21.44	21.59	21.72	
15	64QAM	1	37	21.47	21.48	21.46	22
15	64QAM	1	74	21.49	21.47	21.44	
15	64QAM	36	0	20.68	20.77	20.60	
15	64QAM	36	20	20.62	20.44	20.38	21
15	64QAM	36	39	20.62	20.54	20.57	
15	64QAM	75	0	20.52	20.59	20.51	
Channel				132022	132322	132622	
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	23.07	23.24	23.23	
10	QPSK	1	25	22.88	23.15	22.94	
10	QPSK	1	49	22.77	22.90	22.75	
10	QPSK	25	0	22.39	22.54	22.42	23
10	QPSK	25	12	22.28	22.34	22.47	
10	QPSK	25	25	22.35	22.56	22.36	
10	QPSK	50	0	22.27	22.53	22.49	23
10	16QAM	1	0	22.40	22.45	22.47	
10	16QAM	1	25	22.20	22.42	22.31	
10	16QAM	1	49	22.14	22.20	22.41	22
10	16QAM	25	0	21.50	21.47	21.34	
10	16QAM	25	12	21.43	21.46	21.43	
10	16QAM	25	25	21.44	21.52	21.49	22
10	16QAM	50	0	21.46	21.55	21.46	
10	64QAM	1	0	21.46	21.58	21.68	
10	64QAM	1	25	21.46	21.49	21.47	22
10	64QAM	1	49	21.54	21.45	21.46	
10	64QAM	25	0	20.67	20.77	20.61	
10	64QAM	25	12	20.62	20.46	20.36	21
10	64QAM	25	25	20.59	20.53	20.61	
10	64QAM	50	0	20.54	20.57	20.52	
Channel				131997	132322	132647	
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	23.05	23.20	23.21	
5	QPSK	1	12	22.65	23.09	22.88	
5	QPSK	1	24	22.73	22.86	22.73	
5	QPSK	12	0	22.34	22.50	22.39	23
5	QPSK	12	7	22.22	22.28	22.41	
5	QPSK	12	13	22.33	22.54	22.31	
5	QPSK	25	0	22.21	22.50	22.44	23
5	16QAM	1	0	22.37	22.42	22.44	
5	16QAM	1	12	22.15	22.39	22.29	
5	16QAM	1	24	22.10	22.16	22.37	22
5	16QAM	12	0	21.47	21.51	21.33	
5	16QAM	12	7	21.44	21.47	21.42	
5	16QAM	12	13	21.45	21.53	21.49	22
5	16QAM	25	0	21.41	21.51	21.45	
5	64QAM	1	0	21.43	21.54	21.62	
5	64QAM	1	12	21.44	21.45	21.43	22
5	64QAM	1	24	21.50	21.43	21.42	
5	64QAM	12	0	20.61	20.73	20.58	
5	64QAM	12	7	20.59	20.40	20.31	21
5	64QAM	12	13	20.57	20.49	20.57	
5	64QAM	25	0	20.52	20.53	20.47	
Channel				131987	132322	132657	
Frequency (MHz)				1711.5	1745	1776.5	
3	QPSK	1	0	23.00	23.20	23.19	

Band 71 (dBm)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				133222	133322	133372	
Frequency (MHz)				673	683	688	
20	QPSK	1	0	22.86	22.94	22.84	
20	QPSK	1	49	22.77	22.88	22.75	
20	QPSK	1	99	22.68	22.85	22.70	
20	QPSK	50	0	22.01	22.37	22.03	23
20	QPSK	50	24	22.14	22.15	22.13	
20	QPSK	50	50	22.06	22.28	22.03	
20	QPSK	100	0	22.10	22.26	22.18	23
20	16QAM	1	0	22.05	22.19	22.05	
20	16QAM	1	49	21.86	22.05	22.04	
20	16QAM	1	99	22.18	22.02	22.00	22
20	16QAM	50	0	21.26	21.41	21.44	
20	16QAM	50	24	21.23	21.56	21.55	
20	16QAM	50	50	21.21	21.59	21.29	22
20	16QAM	100	0	21.32	21.55	21.43	
20	64QAM	1	0	21.37	21.67	21.41	
20	64QAM	1	49	21.38	21.43	21.44	22
20	64QAM	1	99	21.33	21.47	21.40	
20	64QAM	50	0	20.22	20.41	20.27	
20	64QAM	50	24	20.12	20.17	20.37	21
20	64QAM	50	50	20.04	20.06	20.10	
20	64QAM	100	0	20.16	20.14	20.07	
Channel				133197	133297	133397	
Frequency (MHz)				670.5	680.5	690.5	
15	QPSK	1	0	22.82	22.89	22.79	
15	QPSK	1	37	22.74	22.81	22.69	
15	QPSK	1	74	22.65	22.80	22.64	
15	QPSK	36	0	21.97	22.32	22.01	23
15	QPSK	36	20	22.10	22.13	22.09	
15	QPSK	36	39	22.01	22.22	21.99	
15	QPSK	75	0	22.06	22.20	22.14	23
15	16QAM	1	0	21.98	22.12	22.00	
15	16QAM	1	37	21.82	21.99	22.02	
15	16QAM	1	74	22.11	22.00	21.96	22
15	16QAM	36	0	21.22	21.37	21.40	
15	16QAM	36	20	21.17	21.50	21.53	
15	16QAM	36	39	21.16	21.54	21.25	22
15	16QAM	75	0	21.29	21.51	21.36	
15	64QAM	1	0	21.35	21.63	21.36	
15	64QAM	1	37	21.34	21.36	21.40	22
15	64QAM	1	74	21.29	21.43	21.35	
15	64QAM	36	0	20.18	20.37	20.24	
15	64QAM	36	20	20.05	20.14	20.32	21
15	64QAM	36	39	20.00	20.03	20.04	
15	64QAM	75	0	20.13	20.11	20.05	
Channel				133172	133272	133422	
Frequency (MHz)				668	678	693	
10	QPSK	1	0	22.75	22.83	22.76	
10	QPSK	1	25	22.68	22.77	22.64	
10	QPSK	1	49	22.59	22.75	22.60	
10	QPSK	25	0	21.91	22.28	21.96	23
10	QPSK	25	12	22.06	22.10	22.07	
10	QPSK	25	25	21.95	22.18	21.94	
10	QPSK	50	0	22.04	22.14	22.11	23
10	16QAM	1	0	21.93	22.08	21.97	
10	16QAM	1	25	21.79	21.95	21.96	
10	16QAM	1	49	22.06	21.95	21.89	22
10	16QAM	25	0	21.18	21.30	21.37	
10	16QAM	25	12	21.14	21.48	21.47	
10	16QAM	25	25	21.10	21.52	21.21	22
10	16QAM	50	0	21.26	21.46	21.31	
10	64QAM	1	0	21.33	21.56	21.30	
10	64QAM	1	25	21.28	21.31	21.35	22
10	64QAM	1	49	21.25	21.38	21.32	
10	64QAM	25	0	20.15	20.32	20.20	
10	64QAM	25	12	20.00</			



3	QPSK	1	8	22.84	23.08	22.91	23.5
3	QPSK	1	14	22.71	22.84	22.71	
3	QPSK	8	0	22.37	22.51	22.36	
3	QPSK	8	4	22.25	22.28	22.43	23
3	QPSK	8	7	22.33	22.51	22.30	
3	QPSK	15	0	22.20	22.47	22.45	
3	16QAM	1	0	22.34	22.43	22.41	23
3	16QAM	1	8	22.16	22.37	22.24	
3	16QAM	1	14	22.11	22.15	22.36	
3	16QAM	8	0	21.46	21.51	21.38	22
3	16QAM	8	4	21.43	21.43	21.45	
3	16QAM	8	7	21.41	21.54	21.50	
3	16QAM	15	0	21.42	21.50	21.51	22
3	64QAM	1	0	21.42	21.54	21.64	
3	64QAM	1	8	21.40	21.46	21.42	
3	64QAM	1	14	21.49	21.42	21.42	21
3	64QAM	8	0	20.64	20.74	20.56	
3	64QAM	8	4	20.56	20.43	20.30	
3	64QAM	8	7	20.54	20.49	20.54	21
3	64QAM	15	0	20.49	20.51	20.46	
Channel				131979	132322	132665	
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	22.98	23.18	23.17	23.5
1.4	QPSK	1	3	22.82	23.06	22.89	
1.4	QPSK	1	5	22.69	22.62	22.69	
1.4	QPSK	3	0	22.35	22.49	22.34	
1.4	QPSK	3	1	22.23	22.26	22.41	
1.4	QPSK	3	3	22.31	22.49	22.28	
1.4	QPSK	6	0	22.18	22.45	22.43	23
1.4	16QAM	1	0	22.32	22.41	22.39	
1.4	16QAM	1	3	22.14	22.35	22.22	
1.4	16QAM	1	5	22.09	22.13	22.34	23
1.4	16QAM	3	0	21.44	21.49	21.36	
1.4	16QAM	3	1	21.41	21.41	21.43	
1.4	16QAM	3	3	21.39	21.52	21.48	
1.4	16QAM	6	0	21.40	21.48	21.49	
1.4	64QAM	1	0	21.40	21.52	21.62	22
1.4	64QAM	1	3	21.38	21.44	21.40	
1.4	64QAM	1	5	21.47	21.40	21.40	
1.4	64QAM	3	0	20.62	20.72	20.54	
1.4	64QAM	3	1	20.54	20.41	20.28	
1.4	64QAM	3	3	20.52	20.47	20.52	
1.4	64QAM	6	0	20.47	20.49	20.44	
21							



Band 41 (2496~2690MHz) (dBm)_P3										
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Low Channel	Middle Channel	Middle High Channel	High Channel	Tune-up limit (dBm)	
Channel				39750	40185	40620	41055	41490		
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
20	QPSK	1	0	22.44	22.44	22.58	22.39	22.48	23	
20	QPSK	1	49	22.32	22.32	22.44	22.36	22.38		
20	QPSK	1	99	22.21	22.19	22.23	22.20	22.12		
20	QPSK	50	0	21.69	21.66	21.79	21.52	21.58	22.5	
20	QPSK	50	24	21.64	21.67	21.72	21.60	21.62		
20	QPSK	50	50	21.68	21.60	21.71	21.52	21.69		
20	QPSK	100	0	21.76	21.73	21.70	21.76	21.75	22.5	
20	16QAM	1	0	21.60	21.46	21.68	21.59	21.67		
20	16QAM	1	49	21.41	21.54	21.49	21.29	21.39		
20	16QAM	1	99	21.58	21.38	21.51	21.63	21.63	21.5	
20	16QAM	50	0	21.05	21.09	21.12	20.98	20.95		
20	16QAM	50	24	20.99	21.31	21.28	21.08	21.01		
20	16QAM	50	50	20.94	21.10	21.36	20.93	20.94	21.5	
20	16QAM	100	0	20.92	20.90	20.97	20.81	20.88		
20	64QAM	1	0	20.58	20.61	20.80	20.62	20.63		
20	64QAM	1	49	20.57	20.74	20.73	20.62	20.58	21.5	
20	64QAM	1	99	20.50	20.77	20.74	20.60	20.53		
20	64QAM	50	0	19.75	19.75	19.78	19.66	19.77		
20	64QAM	50	24	19.55	19.81	19.61	19.68	19.58	20.5	
20	64QAM	50	50	19.63	19.55	19.50	19.52	19.55		
20	64QAM	100	0	19.66	19.49	19.63	19.68	19.63		
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)	
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	22.40	22.41	22.52	22.36	22.42	23	
15	QPSK	1	37	22.29	22.27	22.41	22.30	22.33		
15	QPSK	1	74	22.15	22.15	22.18	22.15	22.07		
15	QPSK	36	0	21.54	21.53	21.73	21.50	21.56	22.5	
15	QPSK	36	20	21.59	21.64	21.68	21.56	21.56		
15	QPSK	36	39	21.64	21.57	21.69	21.52	21.64		
15	QPSK	75	0	21.72	21.67	21.67	21.69	21.71	22.5	
15	16QAM	1	0	21.58	21.43	21.59	21.57	21.62		
15	16QAM	1	37	21.34	21.51	21.45	21.24	21.32		
15	16QAM	1	74	21.55	21.33	21.45	21.61	21.59	21.5	
15	16QAM	36	0	21.01	21.06	21.08	20.92	20.89		
15	16QAM	36	20	20.94	21.26	21.23	21.05	20.98		
15	16QAM	36	39	20.90	21.06	21.34	20.90	20.91	21.5	
15	16QAM	75	0	20.88	20.83	20.93	20.75	20.83		
15	64QAM	1	0	20.53	20.57	20.78	20.56	20.61		
15	64QAM	1	37	20.54	20.71	20.71	20.58	20.54	21.5	
15	64QAM	1	74	20.43	20.74	20.71	20.58	20.50		
15	64QAM	36	0	19.69	19.73	19.72	19.61	19.72		
15	64QAM	36	20	19.51	19.79	19.57	19.62	19.53	20.5	
15	64QAM	36	39	19.58	19.48	19.44	19.46	19.52		
15	64QAM	75	0	19.61	19.44	19.57	19.62	19.60		
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)	
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	22.36	22.37	22.48	22.32	22.38	23	
10	QPSK	1	25	22.25	22.23	22.37	22.26	22.29		
10	QPSK	1	49	22.11	22.11	22.14	22.11	22.03		
10	QPSK	25	0	21.50	21.49	21.69	21.46	21.52	22.5	
10	QPSK	25	12	21.55	21.60	21.64	21.52	21.52		
10	QPSK	25	25	21.60	21.53	21.64	21.48	21.60		
10	QPSK	50	0	21.68	21.63	21.63	21.65	21.67	22.5	
10	16QAM	1	0	21.54	21.39	21.55	21.53	21.58		
10	16QAM	1	25	21.30	21.47	21.41	21.20	21.28		
10	16QAM	1	49	21.51	21.29	21.41	21.57	21.55	21.5	
10	16QAM	25	0	20.97	21.02	21.04	20.88	20.85		
10	16QAM	25	12	20.90	21.22	21.19	21.01	20.94		
10	16QAM	25	25	20.86	21.02	21.30	20.86	20.87	21.5	
10	16QAM	50	0	20.84	20.79	20.89	20.71	20.79		
10	16QAM	1	0	20.49	20.53	20.74	20.52	20.57		
10	16QAM	1	25	20.50	20.67	20.67	20.54	20.50	21.5	
10	16QAM	1	49	20.39	20.70	20.67	20.54	20.46		
10	16QAM	25	0	19.65	19.69	19.68	19.57	19.68		
10	16QAM	25	12	19.47	19.75	19.53	19.58	19.49	21	
10	16QAM	25	25	19.54	19.44	19.40	19.42	19.48		
10	16QAM	50	0	19.57	19.40	19.53	19.58	19.56		
Channel				39675	40148	40620	41093	41565	Tune-up limit (dBm)	
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5		
5	QPSK	1	0	22.32	22.33	22.44	22.28	22.34	23	
5	QPSK	1	12	22.21	22.19	22.33	22.22	22.25		
5	QPSK	1	24	22.07	22.07	22.10	22.07	21.99		
5	QPSK	12	0	21.46	21.45	21.65	21.42	21.48	22.5	
5	QPSK	12	7	21.51	21.56	21.60	21.48	21.48		
5	QPSK	12	13	21.56	21.49	21.60	21.44	21.56		
5	QPSK	25	0	21.64	21.59	21.59	21.61	21.63	22.5	
5	16QAM	1	0	21.50	21.35	21.51	21.49	21.54		
5	16QAM	1	12	21.31	21.48	21.42	21.21	21.29		
5	16QAM	1	24	21.52	21.30	21.42	21.58	21.56	21.5	
5	16QAM	12	0	20.98	21.03	21.05	20.89	20.96		
5	16QAM	12	7	20.91	21.23	21.20	21.02	20.95		
5	16QAM	12	13	20.87	21.03	21.31	20.87	20.88	21.5	
5	16QAM	25	0	20.85	20.80	20.90	20.72	20.80		
5	64QAM	1	0	20.50	20.54	20.75	20.53	20.58		
5	64QAM	1	12	20.51	20.68	20.68	20.55	20.51	21.5	
5	64QAM	1	24	20.40	20.71	20.68	20.55	20.47		
5	64QAM	12	0	19.66	19.70	19.69	19.58	19.69		
5	64QAM	12	7	19.48	19.76	19.54	19.59	19.50	20.5	
5	64QAM	12	13	19.55	19.45	19.41	19.43	19.49		
5	64QAM	25	0	19.58	19.41	19.54	19.59	19.57		

Band 41 (2496~2690MHz) (dBm)_P2										
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	26.47	26.38	26.58	26.46	26.44	27	
20	QPSK	1	49	26.34	26.31	26.40	26.31	26.40		
20	QPSK	1	99	26.16	26.15	26.34	26.26	26.22		
20	QPSK	50	0	25.56	25.58	25.89	25.59	25.59	26.5	
20	QPSK	50	24	25.69	25.69	25.62	25.66	25.70		
20	QPSK	50	50	25.69	25.61	25.75	25.53	25.68		
20	QPSK	100	0	25.74	25.73	25.75	25.66	25.72	26.5	
20	16QAM	1	0	25.61	25.58	25.71	25.46	25.64		
20	16QAM	1	49	25.42	25.62	25.55	25.58	25.36		
20	16QAM	1	99	25.66	25.51	25.51	25.43	25.70	26.5	
20	16QAM	50	0	25.13	25.24	25.19	25.22	25.06		
20	16QAM	50	24	25.12	25.32	25.34	25.38	25.18		
20	16QAM	50	50	25.08	25.16	25.48	25.15	25.09	26.5	
20	16QAM	100	0	24.95	24.97	25.13	25.03	24.94		
20	64QAM	1	0	24.57	24.67	24.94	24.59	24.68		
20	64QAM	1	49	24.72	24.72	24.70	24.69	24.63	26.5	
20	64QAM	1	99	24.56	24.68	24.78	24.69	24.53		
20	64QAM	50	0	23.69	23.89	23.82	23.86	23.81		
20	64QAM	50	24	23.69	23.78	23.70	23.85	23.64	24.5	
20	64QAM	50	50	23.64	23.69	23.57	23.62	23.70		
20	64QAM	100	0	23.65	23.57	23.56	23.49	23.74		
Channel				39725	40173	40620	41068	41515	Tune-up limit (dBm)	
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	26.42	26.32	26.52	26.40	26.38	27	
15	QPSK	1	37	26.30	26.27	26.35	26.27	26.33		
15	QPSK	1	74	26.14	26.10					



2.4GHz WLAN ANT 1

Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
802.11b 1Mbps	CH 1	2412	8.81	10.00	11.00	99.57
	CH 7	2442	9.27	10.50	11.00	
	CH 13	2472	8.57	10.00	11.00	
802.11g 6Mbps	CH 1	2412	6.23	7.50	8.00	97.08
	CH 7	2442	6.54	8.00	8.00	
	CH 13	2472	6.18	7.50	8.00	
802.11n-HT20 MCS0	CH 1	2412	5.25	6.50	7.00	96.88
	CH 7	2442	5.53	7.00	7.00	
	CH 13	2472	4.82	6.00	7.00	
802.11n-HT40 MCS0	CH 3	2422	5.10	6.50	6.00	93.93
	CH 9	2437	5.25	6.50	6.00	
	CH 11	2462	4.40	5.50	6.00	

5GHz WLAN ANT 1

Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
802.11a 6Mbps	CH 36	5180	7.71	9.00	12.00	96.94
	CH 44	5220	7.44	8.50	12.00	
	CH 48	5240	7.02	8.50	12.00	
802.11n-HT20 MCS0	CH 36	5180	7.84	9.00	11.50	96.73
	CH 44	5220	7.17	8.50	11.50	
	CH 48	5240	6.59	8.00	11.50	
802.11n-HT40 MCS0	CH 36	5190	6.07	7.50	10.50	93.64
	CH 46	5230	5.11	6.50	10.50	
	CH 36	5180	7.69	9.00	12.00	
802.11ac-VHT20 MCS0	CH 44	5220	7.29	8.50	12.00	96.76
	CH 48	5240	6.88	8.00	12.00	
	CH 38	5190	6.11	7.50	10.50	
802.11ac-VHT40 MCS0	CH 46	5230	5.19	6.50	10.50	93.68
	CH 42	5210	6.45	7.50	11.00	

5GHz WLAN ANT 1

Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
802.11a 6Mbps	CH 52	5260	7.78	9.00	13.00	96.94
	CH 60	5300	7.41	8.50	13.00	
	CH 64	5320	6.70	8.00	13.00	
802.11n-HT20 MCS0	CH 52	5260	7.25	8.50	13.00	96.73
	CH 60	5300	6.99	8.00	13.00	
	CH 64	5320	6.63	8.00	13.00	
802.11n-HT40 MCS0	CH 54	5270	6.88	8.00	12.50	93.64
	CH 62	5310	6.34	7.50	12.50	
	CH 52	5260	7.34	8.50	13.00	
802.11ac-VHT20 MCS0	CH 60	5300	6.98	8.00	13.00	96.76
	CH 64	5320	6.66	8.00	13.00	
	CH 54	5270	6.96	8.00	12.50	
802.11ac-VHT40 MCS0	CH 62	5310	6.26	7.50	12.50	93.68
	CH 58	5290	6.93	8.00	12.50	

5GHz WLAN ANT 1

Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
802.11a 6Mbps	CH 100	5500	3.09	4.50	9.00	96.94
	CH 120	5600	4.26	5.50	9.00	
	CH 144	5720	4.85	6.00	9.00	
802.11n-HT20 MCS0	CH 100	5500	2.19	3.50	8.50	96.73
	CH 120	5600	3.58	5.00	8.50	
	CH 144	5720	4.00	5.50	8.50	
802.11n-HT40 MCS0	CH 102	5510	2.35	3.50	8.50	93.64
	CH 128	5630	3.64	5.00	8.50	
	CH 144	5720	3.37	4.50	8.50	
802.11ac-VHT20 MCS0	CH 100	5500	2.78	4.00	9.00	96.76
	CH 120	5600	3.97	5.00	9.00	
	CH 144	5720	3.53	5.00	9.00	
802.11ac-VHT40 MCS0	CH 102	5510	2.31	3.50	8.50	93.68
	CH 128	5630	3.63	5.00	8.50	
	CH 144	5720	3.36	4.50	8.50	
802.11ac-VHT80 MCS0	CH 108	5530	4.53	6.00	8.50	88.04
	CH 122	5610	4.55	6.00	8.50	
	CH 138	5690	3.87	6.00	8.50	

5GHz WLAN ANT 1

Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
802.11a 6Mbps	CH 149	5745	6.00	7.50	11.00	96.94
	CH 157	5785	5.60	7.00	11.00	
	CH 165	5825	5.01	6.50	11.00	
802.11n-HT20 MCS0	CH 149	5745	3.11	4.50	10.00	96.73
	CH 157	5785	3.16	4.50	10.00	
	CH 165	5825	2.61	4.00	10.00	
802.11n-HT40 MCS0	CH 151	5755	3.09	4.50	9.00	93.64
	CH 159	5795	3.15	4.50	9.00	
	CH 149	5745	4.27	5.50	10.00	
802.11ac-VHT20 MCS0	CH 157	5785	3.91	5.00	10.00	96.76
	CH 165	5825	3.82	5.00	10.00	
	CH 151	5755	3.08	4.50	9.00	
802.11ac-VHT40 MCS0	CH 159	5795	2.68	4.00	9.00	93.68
	CH 155	5775	3.19	4.50	9.00	

Mode	Channel	Frequency (MHz)	1Mbps		2Mbps		3Mbps	
			Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit
BR / EDR	CH 00	2402	8.94	10.00	6.91	7.50	6.74	7.50
	CH 39	2441	9.97	11.00	8.60	10.50	8.45	10.00
	CH 78	2480	7.12	8.00	5.19	6.00	5.02	6.00
Duty Cycle %			76.88		76.98		77.01	

Mode	Channel	Frequency (MHz)	1Mbps		2Mbps	
			Average power (dBm)	Tune-up Limit	Average power (dBm)	Tune-up Limit
LE	CH 00	2402	-6.92	-5.00	-8.90	-8.00
	CH 19	2440	-4.60	-3.50	-7.23	-6.00
	CH 39	2480	-6.20	-5.00	-9.21	-8.00
Duty Cycle %			61.29		32.26	





**Reduced Power**

GSM850	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)	
	128	189	251		128	189	251		
TX Channel	824.2	836.4	848.8		824.2	836.4	848.8		
Frequency (MHz)	24.10	24.12	24.07	25.00	15.10	15.12	15.07	16.00	
GPRS 1 Tx slot	23.39	23.42	23.33	24.00	17.39	17.42	17.33	18.00	
GPRS 2 Tx slots	21.69	21.73	21.66	22.50	17.43	17.47	17.40	18.24	
GPRS 3 Tx slots	20.66	20.73	20.69	21.50	17.66	17.73	17.69	18.50	
GPRS 4 Tx slots	18.89	19.01	18.95	19.50	9.89	10.01	9.95	10.50	
EDGE 1 Tx slot	17.63	17.72	17.55	18.50	11.63	11.72	11.55	12.50	
EDGE 2 Tx slots	15.28	15.59	15.48	16.00	11.02	11.33	11.22	11.74	
EDGE 3 Tx slots	14.48	14.63	14.52	15.50	11.48	11.63	11.52	12.50	
EDGE 4 Tx slots									
Mode		Max.	24.12			Max.	17.73		
Attenuator	Cable Loss : 0.6								

GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)	
	512	661	810		512	661	810		
TX Channel	1850.2	1880	1909.8		1850.2	1880	1909.8		
Frequency (MHz)	20.69	20.73	20.70	21.00	11.69	11.73	11.70	12.00	
GPRS 1 Tx slot	19.84	19.94	19.83	20.00	13.84	13.94	13.83	14.00	
GPRS 2 Tx slots	18.10	18.21	18.18	18.50	13.84	13.95	13.92	14.24	
GPRS 3 Tx slots	17.04	17.16	17.11	17.50	14.04	14.16	14.11	14.50	
GPRS 4 Tx slots	17.11	17.21	17.20	17.50	8.11	8.21	8.20	8.50	
EDGE 1 Tx slot	16.59	16.64	16.55	17.00	10.59	10.64	10.55	11.00	
EDGE 2 Tx slots	14.61	14.71	14.73	15.00	10.35	10.45	10.47	10.74	
EDGE 3 Tx slots	13.55	13.69	13.70	14.00	10.55	10.69	10.70	11.00	
EDGE 4 Tx slots									
Mode		Max.	20.73			Max.	14.16		
Attenuator	Cable Loss : 0.8								

Band	WCDMA Band II (dBm)			Tune-up Limit (dBm)	WCDMA Band IV (dBm)			Tune-up Limit (dBm)
	9262	9400	9538		1312	1413	1513	
TX Channel	9662	9800	9938		1537	1638	1738	
Rx Channel	1852.4	1880	1907.6		1712.4	1732.6	1752.6	
Frequency (MHz)	16.10	16.13	16.07	17.00	15.09	15.15	15.11	16.00
3GPP Rel 99 RMC 12.2Kbps	14.04	14.30	14.52	15.50	13.32	13.45	13.73	14.50
3GPP Rel 6 HSDPA Subtest-1	12.71	13.09	13.15	14.00	11.73	12.05	12.24	13.00
3GPP Rel 6 HSDPA Subtest-2	11.22	11.62	11.67	12.50	10.47	10.50	10.64	11.50
3GPP Rel 6 HSDPA Subtest-3	10.78	11.44	11.04	12.00	10.17	10.22	10.48	11.00
3GPP Rel 6 HSDPA Subtest-4	12.70	12.73	12.77	13.50	13.84	13.40	13.44	14.00
3GPP Rel 6 HSUPA Subtest-1	12.70	12.71	12.77	13.50	13.84	13.89	13.94	14.50
3GPP Rel 6 HSUPA Subtest-2	13.69	13.73	13.75	14.50	12.87	12.93	12.97	13.50
3GPP Rel 6 HSUPA Subtest-3	12.25	12.26	11.60	12.50	13.85	13.93	13.95	14.50
3GPP Rel 6 HSUPA Subtest-4	12.50	12.83	13.16	14.00	12.82	12.87	12.95	13.50
3GPP Rel 7 HSUPA Subtest-5	14.12	14.15	14.22	15.00	12.80	12.85	12.88	13.50
3GPP Rel 7 HSPA+ (16QAM) Subtest-1								
Attenuator	Cable Loss			0.8	Cable Loss			0.8
Mode		Max.	16.13			Max.	15.15	



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	16.19	16.24	16.19	
20	QPSK	1	49	15.87	16.13	15.98	16.5
20	QPSK	1	99	15.77	15.94	15.86	
20	QPSK	50	0	15.40	15.42	15.32	
20	QPSK	50	24	15.25	15.29	15.38	16
20	QPSK	50	50	15.38	15.45	15.35	
20	QPSK	100	0	15.28	15.47	15.40	
20	16QAM	1	0	15.36	15.45	15.36	16
20	16QAM	1	49	15.19	15.42	15.29	
20	16QAM	1	99	15.21	15.26	15.28	
20	16QAM	50	0	14.68	14.74	14.70	15
20	16QAM	50	24	14.50	14.66	14.59	
20	16QAM	50	50	14.50	14.65	14.51	
20	16QAM	100	0	14.47	14.62	14.52	15
20	64QAM	1	0	14.52	14.64	14.68	
20	64QAM	1	49	14.57	14.59	14.52	
20	64QAM	1	99	14.47	14.50	14.50	15
20	64QAM	50	0	13.67	13.77	13.61	
20	64QAM	50	24	13.64	13.58	13.46	
20	64QAM	50	50	13.59	13.56	13.63	14
20	64QAM	100	0	13.59	13.62	13.48	
Channel				18675	18900	19125	
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	16.16	16.19	16.15	16.5
15	QPSK	1	37	15.84	16.10	15.95	
15	QPSK	1	74	15.73	15.88	15.80	
15	QPSK	36	0	15.35	15.36	15.25	16
15	QPSK	36	20	15.20	15.27	15.34	
15	QPSK	36	39	15.34	15.42	15.30	
15	QPSK	75	0	15.22	15.41	15.36	16
15	16QAM	1	0	15.29	15.41	15.30	
15	16QAM	1	37	15.15	15.38	15.27	
15	16QAM	1	74	15.17	15.22	15.22	16
15	16QAM	36	0	14.62	14.73	14.64	
15	16QAM	36	20	14.41	14.65	14.56	
15	16QAM	36	39	14.47	14.62	14.56	15
15	16QAM	75	0	14.38	14.55	14.44	
15	64QAM	1	0	14.46	14.62	14.61	
15	64QAM	1	37	14.52	14.53	14.46	15
15	64QAM	1	74	14.44	14.45	14.43	
15	64QAM	36	0	13.61	13.72	13.58	
15	64QAM	36	20	13.59	13.56	13.39	14
15	64QAM	36	39	13.55	13.51	13.60	
15	64QAM	75	0	13.56	13.57	13.43	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	16.15	16.17	16.13	
10	QPSK	1	25	15.84	16.08	15.95	
10	QPSK	1	49	15.74	15.90	15.80	
10	QPSK	25	0	15.33	15.37	15.30	16
10	QPSK	25	12	15.20	15.25	15.35	
10	QPSK	25	25	15.31	15.43	15.30	
10	QPSK	50	0	15.24	15.44	15.34	16
10	16QAM	1	0	15.29	15.39	15.32	
10	16QAM	1	25	15.14	15.36	15.26	
10	16QAM	1	49	15.19	15.23	15.25	16
10	16QAM	25	0	14.61	14.76	14.65	
10	16QAM	25	12	14.37	14.65	14.55	
10	16QAM	25	25	14.45	14.60	14.53	15
10	16QAM	50	0	14.39	14.55	14.47	
10	64QAM	1	0	14.46	14.60	14.63	
10	64QAM	1	25	14.52	14.56	14.47	15
10	64QAM	1	49	14.44	14.48	14.45	
10	64QAM	25	0	13.65	13.71	13.59	
10	64QAM	25	12	13.60	13.51	13.39	14
10	64QAM	25	25	13.56	13.50	13.58	
10	64QAM	50	0	13.53	13.58	13.42	
Channel				18625	18900	19175	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	16.12	16.13	16.11	
5	QPSK	1	12	15.79	16.05	15.91	
5	QPSK	1	24	15.68	15.84	15.74	
5	QPSK	12	0	15.30	15.31	15.23	16
5	QPSK	12	7	15.18	15.20	15.32	
5	QPSK	12	13	15.26	15.38	15.26	
5	QPSK	25	0	15.20	15.40	15.30	16
5	16QAM	1	0	15.23	15.36	15.28	
5	16QAM	1	12	15.11	15.31	15.20	
5	16QAM	1	24	15.15	15.20	15.22	16
5	16QAM	12	0	14.59	14.72	14.60	
5	16QAM	12	7	14.41	14.64	14.49	
5	16QAM	12	13	14.46	14.64	14.53	15
5	16QAM	25	0	14.38	14.50	14.48	
5	64QAM	1	0	14.44	14.54	14.58	
5	64QAM	1	12	14.47	14.52	14.44	15
5	64QAM	1	24	14.41	14.44	14.40	
5	64QAM	12	0	13.62	13.68	13.53	
5	64QAM	12	7	13.56	13.45	13.32	14
5	64QAM	12	13	13.53	13.47	13.54	
5	64QAM	25	0	13.48	13.53	13.40	
Channel				18615	18900	19185	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	16.12	16.13	16.08	

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	15.03	15.16	15.09	
20	QPSK	1	49	14.82	15.09	14.84	
20	QPSK	1	99	14.74	14.83	14.75	
20	QPSK	50	0	14.39	14.47	14.37	15
20	QPSK	50	24	14.20	14.34	14.43	
20	QPSK	50	50	14.35	14.46	14.29	
20	QPSK	100	0	14.22	14.54	14.35	15
20	16QAM	1	0	14.31	14.41	14.37	
20	16QAM	1	49	14.21	14.40	14.29	
20	16QAM	1	99	14.15	14.20	14.34	15
20	16QAM	50	0	13.36	13.57	13.47	
20	16QAM	50	24	13.40	13.70	13.60	
20	16QAM	50	50	13.45	13.61	13.58	14
20	16QAM	100	0	13.45	13.59	13.50	
20	64QAM	1	0	13.37	13.49	13.62	
20	64QAM	1	49	13.44	13.46	13.44	14
20	64QAM	1	99	13.43	13.36	13.43	
20	64QAM	50	0	12.55	12.72	12.57	
20	64QAM	50	24	12.49	12.41	12.36	13
20	64QAM	50	50	12.50	12.53	12.46	
20	64QAM	100	0	12.51	12.46	12.43	
Channel				20025	20175	20325	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	14.97	15.13	15.05	
15	QPSK	1	37	14.77	15.05	14.78	
15	QPSK	1	74	14.71	14.78	14.70	
15	QPSK	36	0	14.34	14.40	14.33	15
15	QPSK	36	20	14.16	14.27	14.40	
15	QPSK	36	39	14.32	14.40	14.25	
15	QPSK	75	0	14.15	14.51	14.32	15
15	16QAM	1	0	14.26	14.37	14.33	
15	16QAM	1	37	14.18	14.36	14.26	
15	16QAM	1	74	14.13	14.18	14.27	15
15	16QAM	36	0	13.32	13.52	13.36	
15	16QAM	36	20	13.44	13.66	13.53	
15	16QAM	36	39	13.39	13.56	13.48	14
15	16QAM	75	0	13.41	13.54	13.39	
15	64QAM	1	0	13.31	13.44	13.56	
15	64QAM	1	37	13.39	13.41	13.41	14
15	64QAM	1	74	13.39	13.32	13.41	
15	64QAM	36	0	12.50	12.69	12.51	
15	64QAM	36	20	12.44	12.34	12.34	13
15	64QAM	36	39	12.43	12.47	12.44	
15	64QAM	75	0	12.46	12.40	12.37	
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	14.99	15.10	15.04	
10	QPSK	1	25	14.77	15.03	14.79	
10	QPSK	1	49	14.69	14.78	14.69	
10	QPSK	25	0	14.36	14.40	14.31	15
10	QPSK	25	12	14.16	14.32	14.40	
10	QPSK	25	25	14.30	14.42	14.23	
10	QPSK	50	0	14.15	14.49	14.30	15
10	16QAM	1	0	14.26	14.38	14.31	
10	16QAM	1	25	14.16	14.34	14.22	
10	16QAM	1	49	14.08	14.15	14.30	15
10	16QAM	25	0	13.33	13.50	13.37	
10	16QAM	25	12	13.38	13.66	13.50	
10	16QAM	25	25	13.37	13.57	13.47	14
10	16QAM	50	0	13.41	13.54	13.44	
10	64QAM	1	0	13.35	13.45	13.57	
10	64QAM	1	25	13.42	13.41	13.42	14
10	64QAM	1	49	13.40	13.29	13.40	
10	64QAM	25	0	12.52</			



3	QPSK	1	8	15.78	16.03	15.92	16.5
3	QPSK	1	14	15.70	15.85	15.78	
3	QPSK	8	0	15.30	15.31	15.27	
3	QPSK	8	4	15.13	15.20	15.32	16
3	QPSK	8	7	15.29	15.37	15.26	
3	QPSK	15	0	15.22	15.42	15.31	
3	16QAM	1	0	15.23	15.33	15.26	16
3	16QAM	1	8	15.10	15.32	15.24	
3	16QAM	1	14	15.12	15.20	15.19	
3	16QAM	8	0	14.59	14.77	14.61	15
3	16QAM	8	4	14.40	14.67	14.53	
3	16QAM	8	7	14.48	14.59	14.55	
3	16QAM	15	0	14.40	14.51	14.46	15
3	64QAM	1	0	14.41	14.57	14.58	
3	64QAM	1	8	14.47	14.50	14.43	
3	64QAM	1	14	14.40	14.44	14.38	14
3	64QAM	8	0	13.62	13.66	13.56	
3	64QAM	8	4	13.57	13.46	13.34	
3	64QAM	8	7	13.52	13.44	13.53	14
3	64QAM	15	0	13.51	13.56	13.35	
Channel				18807	18900	19193	
Frequency (MHz)				1850.7	1880	1909.3	(dBm)
1.4	QPSK	1	0	16.11	16.12	16.07	16.5
1.4	QPSK	1	3	15.77	16.02	15.91	
1.4	QPSK	1	5	15.69	15.84	15.77	
1.4	QPSK	3	0	15.29	15.30	15.26	16
1.4	QPSK	3	1	15.12	15.19	15.31	
1.4	QPSK	3	3	15.28	15.36	15.25	
1.4	QPSK	6	0	15.21	15.41	15.30	16
1.4	16QAM	1	0	15.22	15.32	15.25	
1.4	16QAM	1	3	15.09	15.31	15.23	
1.4	16QAM	1	5	15.11	15.19	15.18	16
1.4	16QAM	3	0	14.58	14.76	14.60	
1.4	16QAM	3	1	14.39	14.66	14.52	
1.4	16QAM	3	3	14.47	14.58	14.54	15
1.4	16QAM	6	0	14.39	14.50	14.45	
1.4	64QAM	1	0	14.40	14.56	14.57	
1.4	64QAM	1	3	14.46	14.49	14.42	15
1.4	64QAM	1	5	14.39	14.43	14.37	
1.4	64QAM	3	0	13.61	13.65	13.55	
1.4	64QAM	3	1	13.56	13.45	13.33	14
1.4	64QAM	3	3	13.51	13.43	13.52	
1.4	64QAM	6	0	13.50	13.55	13.34	

3	QPSK	1	8	14.72	15.00	14.71	15.5
3	QPSK	1	14	14.67	14.73	14.65	
3	QPSK	8	0	14.27	14.38	14.28	
3	QPSK	8	4	14.12	14.23	14.33	15
3	QPSK	8	7	14.26	14.35	14.21	
3	QPSK	15	0	14.16	14.47	14.25	
3	16QAM	1	0	14.19	14.29	14.30	15
3	16QAM	1	8	14.10	14.34	14.20	
3	16QAM	1	14	14.03	14.11	14.30	
3	16QAM	8	0	13.28	13.54	13.37	14
3	16QAM	8	4	13.42	13.69	13.52	
3	16QAM	8	7	13.37	13.63	13.52	
3	16QAM	15	0	13.43	13.55	13.43	14
3	64QAM	1	0	13.25	13.40	13.50	
3	64QAM	1	8	13.32	13.37	13.31	
3	64QAM	1	14	13.39	13.24	13.33	13
3	64QAM	8	0	12.47	12.64	12.49	
3	64QAM	8	4	12.40	12.35	12.24	
3	64QAM	8	7	12.44	12.44	12.37	13
3	64QAM	15	0	12.41	12.37	12.35	
Channel				19957	20175	20393	
Frequency (MHz)				1710.7	1732.5	1754.3	(dBm)
1.4	QPSK	1	0	14.86	15.01	14.96	15.5
1.4	QPSK	1	3	14.69	14.97	14.68	
1.4	QPSK	1	5	14.64	14.70	14.62	
1.4	QPSK	3	0	14.24	14.35	14.25	15
1.4	QPSK	3	1	14.09	14.20	14.30	
1.4	QPSK	3	3	14.23	14.32	14.18	
1.4	QPSK	6	0	14.13	14.44	14.22	15
1.4	16QAM	1	0	14.16	14.26	14.27	
1.4	16QAM	1	3	14.07	14.31	14.17	
1.4	16QAM	1	5	14.00	14.08	14.27	15
1.4	16QAM	3	0	13.25	13.51	13.34	
1.4	16QAM	3	1	13.39	13.66	13.49	
1.4	16QAM	3	3	13.34	13.60	13.49	14
1.4	16QAM	6	0	13.40	13.52	13.40	
1.4	64QAM	1	0	13.22	13.37	13.47	
1.4	64QAM	1	3	13.29	13.34	13.28	14
1.4	64QAM	1	5	13.36	13.21	13.30	
1.4	64QAM	3	0	12.44	12.61	12.46	
1.4	64QAM	3	1	12.37	12.32	12.21	13
1.4	64QAM	3	3	12.41	12.41	12.34	
1.4	64QAM	6	0	12.38	12.34	12.32	



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	21.44	21.55	21.42	22.5
10	QPSK	1	25	21.40	21.49	21.34	
10	QPSK	1	49	21.25	21.28	21.26	
10	QPSK	25	0	20.55	20.90	20.62	21.5
10	QPSK	25	12	20.71	20.70	20.65	
10	QPSK	25	25	20.72	20.78	20.65	
10	QPSK	50	0	20.75	20.83	20.72	21.5
10	16QAM	1	0	20.71	20.64	20.52	
10	16QAM	1	25	20.51	20.65	20.60	
10	16QAM	1	49	20.66	20.54	20.54	20.5
10	16QAM	25	0	19.78	20.02	19.99	
10	16QAM	25	12	19.86	20.09	20.04	
10	16QAM	25	25	19.82	20.08	19.87	20.5
10	16QAM	50	0	20.01	20.27	20.13	
10	64QAM	1	0	19.88	20.07	19.90	
10	64QAM	1	25	19.88	20.01	20.02	20.5
10	64QAM	1	49	19.86	20.04	20.02	
10	64QAM	25	0	18.85	18.96	18.85	
10	64QAM	25	12	18.63	18.62	18.62	19.5
10	64QAM	25	25	18.70	18.58	18.72	
10	64QAM	50	0	18.71	18.61	18.63	
Channel				20425	20525	20625	
Frequency (MHz)				826.5	836.5	846.5	
5	QPSK	1	0	21.35	21.46	21.33	22.5
5	QPSK	1	12	21.23	21.41	21.26	
5	QPSK	1	24	21.10	21.22	21.18	
5	QPSK	12	0	20.49	20.82	20.52	21.5
5	QPSK	12	7	20.65	20.64	20.58	
5	QPSK	12	13	20.67	20.68	20.57	
5	QPSK	25	0	20.66	20.78	20.62	21.5
5	16QAM	1	0	20.61	20.57	20.43	
5	16QAM	1	12	20.43	20.59	20.52	
5	16QAM	1	24	20.59	20.46	20.48	20.5
5	16QAM	12	0	19.70	19.95	19.92	
5	16QAM	12	7	19.80	20.03	19.97	
5	16QAM	12	13	19.75	20.00	19.81	20.5
5	16QAM	25	0	19.91	20.19	20.04	
5	64QAM	1	0	19.81	19.99	19.81	
5	64QAM	1	12	19.80	19.95	19.93	20.5
5	64QAM	1	24	19.79	19.95	19.96	
5	64QAM	12	0	18.76	18.87	18.76	
5	64QAM	12	7	18.54	18.55	18.75	19.5
5	64QAM	12	13	18.64	18.50	18.63	
5	64QAM	25	0	18.63	18.53	18.57	
Channel				20415	20525	20635	
Frequency (MHz)				825.5	836.5	847.5	
3	QPSK	1	0	21.34	21.43	21.33	22.5
3	QPSK	1	8	21.21	21.43	21.27	
3	QPSK	1	14	21.07	21.21	21.20	
3	QPSK	8	0	20.50	20.84	20.55	21.5
3	QPSK	8	4	20.65	20.65	20.57	
3	QPSK	8	7	20.63	20.69	20.58	
3	QPSK	15	0	20.66	20.76	20.67	21.5
3	16QAM	1	0	20.62	20.59	20.42	
3	16QAM	1	8	20.46	20.60	20.50	
3	16QAM	1	14	20.58	20.49	20.47	20.5
3	16QAM	8	0	19.71	19.95	19.94	
3	16QAM	8	4	19.80	20.01	19.96	
3	16QAM	8	7	19.73	20.00	19.77	20.5
3	16QAM	15	0	19.93	20.21	20.04	
3	64QAM	1	0	19.80	19.99	19.83	
3	64QAM	1	8	19.82	19.91	19.95	20.5
3	64QAM	1	14	19.78	19.96	19.95	
3	64QAM	8	0	18.78	18.89	18.79	
3	64QAM	8	4	18.57	18.56	18.73	19.5
3	64QAM	8	7	18.61	18.51	18.64	
3	64QAM	15	0	18.65	18.56	18.57	
Channel				20407	20525	20643	
Frequency (MHz)				824.7	836.5	848.3	
1.4	QPSK	1	0	21.36	21.43	21.35	22.5
1.4	QPSK	1	3	21.23	21.42	21.29	
1.4	QPSK	1	5	21.09	21.23	21.22	
1.4	QPSK	3	0	20.52	20.86	20.57	21.5
1.4	QPSK	3	1	20.67	20.67	20.59	
1.4	QPSK	3	3	20.65	20.71	20.60	
1.4	QPSK	6	0	20.68	20.78	20.69	21.5
1.4	16QAM	1	0	20.64	20.61	20.44	
1.4	16QAM	1	3	20.48	20.62	20.52	
1.4	16QAM	1	5	20.60	20.51	20.49	21.5
1.4	16QAM	3	0	19.73	19.97	19.96	
1.4	16QAM	3	1	19.82	20.03	19.98	
1.4	16QAM	3	3	19.75	20.02	19.79	20.5
1.4	16QAM	6	0	19.95	20.23	20.06	
1.4	64QAM	1	0	19.82	20.01	19.85	
1.4	64QAM	1	3	19.84	19.93	19.97	20.5
1.4	64QAM	1	5	19.80	19.98	19.97	
1.4	64QAM	3	0	18.80	18.91	18.81	
1.4	64QAM	3	1	18.59	18.58	18.75	19.5
1.4	64QAM	3	3	18.63	18.53	18.66	
1.4	64QAM	6	0	18.67	18.58	18.59	

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	12.87	12.95	12.87	13.5
20	QPSK	1	49	12.66	12.78	12.70	
20	QPSK	1	99	12.51	12.68	12.58	
20	QPSK	50	0	11.99	12.32	12.04	12.5
20	QPSK	50	24	12.08	12.04	12.06	
20	QPSK	50	50	12.07	12.16	11.98	
20	QPSK	100	0	12.13	12.14	12.12	12.5
20	16QAM	1	0	12.00	12.15	11.98	
20	16QAM	1	49	11.79	12.01	11.98	
20	16QAM	1	99	12.11	11.94	11.94	11.5
20	16QAM	50	0	11.29	11.50	11.46	
20	16QAM	50	24	11.28	11.56	11.56	
20	16QAM	50	50	11.27	11.66	11.40	11.5
20	16QAM	100	0	11.57	11.66	11.51	
20	64QAM	1	0	11.25	11.45	11.24	
20	64QAM	1	49	11.24	11.30	11.38	11.5
20	64QAM	1	99	11.17	11.35	11.39	
20	64QAM	50	0	10.33	10.50	10.47	
20	64QAM	50	24	10.30	10.28	10.38	10.5
20	64QAM	50	50	10.25	10.13	10.26	
20	64QAM	100	0	10.32	10.18	10.08	
Channel				20825	21100	21375	
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	12.84	12.93	12.84	13.5
15	QPSK	1	37	12.61	12.74	12.64	
15	QPSK	1	74	12.47	12.64	12.52	
15	QPSK	36	0	11.94	12.29	12.01	12.5
15	QPSK	36	20	12.01	12.00	12.03	
15	QPSK	36	39	12.02	12.10	11.96	
15	QPSK	75	0	12.07	12.11	12.09	12.5
15	16QAM	1	0	11.97	12.05	11.94	
15	16QAM	1	37	11.72	11.95	11.96	
15	16QAM	1	74	12.06	11.88	11.89	11.5
15	16QAM	36	0	11.24	11.47	11.41	
15	16QAM	36	20	11.22	11.50	11.53	
15	16QAM	36	39	11.22	11.63	11.37	11.5
15	16QAM	75	0	11.52	11.62	11.46	
15	64QAM	1	0	11.20	11.41	11.20	
15	64QAM	1	37	11.18	11.23	11.32	11.5
15	64QAM	1	74	11.15	11.31	11.32	
15	64QAM	36	0	10.27	10.47	10.43	
15	64QAM	36	20	10.28	10.22	10.33	10.5
15	64QAM	36	39	10.21	10.07	10.20	
15	64QAM	75	0	10.28	10.14	10.05	
Channel				20800	21100	21400	
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	12.84	12.92	12.82	13.5
10	QPSK	1	25	12.59	12.73	12.64	
10	QPSK	1	49	12.48	12.65	12.54	
10	QPSK	25	0	11.95	12.27	12.02	12.5
10	QPSK	25	12	12.06	12.01	12.00	
10	QPSK	25	25	12.04	12.10	11.94	
10	QPSK	50	0	12.10	12.09	12.06	12.5
10	16QAM	1	0	11.94	12.07	11.96	
10	16QAM	1	25	11.73	11.94	11.93	
10	16QAM	1	49	12.07	11.91	11.89	11.5
10	16QAM	25	0	11.24	11.46	11.42	
10	16QAM	25	12	11.25	11.52	11.54	
10	16QAM	25	25	11.21	11.60	11.37	11.5
10	16QAM	50	0	11.53	11.61	11.49	
10	64QAM	1	0	11.20	11.42	11.18	
10	64QAM	1	25	11.19	11.25	11.35	11.5
10	64QAM	1	49	11.15	11.31	11.34	
10	64QAM	25	0	10.26	10.45	10.43	
10	64QAM	25	12	10.27	10.22	10.34	10.5
10	64QAM	25	25	10.20	10.10	10.21	
10</							





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	21.05	21.18	21.16	22
10	QPSK	1	25	20.92	21.10	21.04	
10	QPSK	1	49	20.80	20.87	20.91	
10	QPSK	25	0	20.28	20.53	20.32	21
10	QPSK	25	12	20.42	20.45	20.37	
10	QPSK	25	25	20.33	20.40	20.35	
10	QPSK	50	0	20.48	20.53	20.37	21
10	16QAM	1	0	20.32	20.37	20.22	
10	16QAM	1	25	20.19	20.28	20.28	
10	16QAM	1	49	20.32	20.28	20.23	20
10	16QAM	25	0	19.45	19.67	19.61	
10	16QAM	25	12	19.54	19.75	19.67	
10	16QAM	25	25	19.43	19.73	19.48	20
10	16QAM	50	0	19.74	19.99	19.78	
10	64QAM	1	0	19.11	19.26	19.05	
10	64QAM	1	25	19.12	19.25	19.14	20
10	64QAM	1	49	19.10	19.19	19.14	
10	64QAM	25	0	18.53	18.70	18.47	
10	64QAM	25	12	18.28	18.33	18.46	19
10	64QAM	25	25	18.36	18.28	18.39	
10	64QAM	50	0	18.32	18.33	18.28	
Channel				23035	23095	23155	
Frequency (MHz)				701.5	707.5	713.5	
5	QPSK	1	0	20.98	21.15	21.09	22
5	QPSK	1	12	20.86	21.06	20.96	
5	QPSK	1	24	20.73	20.82	20.86	
5	QPSK	12	0	20.22	20.46	20.28	21
5	QPSK	12	7	20.33	20.39	20.32	
5	QPSK	12	13	20.24	20.34	20.30	
5	QPSK	25	0	20.43	20.49	20.33	21
5	16QAM	1	0	20.30	20.26	20.14	
5	16QAM	1	12	20.11	20.21	20.19	
5	16QAM	1	24	20.24	20.20	20.16	20
5	16QAM	12	0	19.36	19.60	19.54	
5	16QAM	12	7	19.50	19.71	19.63	
5	16QAM	12	13	19.34	19.68	19.40	20
5	16QAM	25	0	19.65	19.90	19.69	
5	64QAM	1	0	19.04	19.19	18.98	
5	64QAM	1	12	19.04	19.20	19.06	20
5	64QAM	1	24	19.06	19.11	19.06	
5	64QAM	12	0	18.45	18.62	18.40	
5	64QAM	12	7	18.20	18.27	18.37	19
5	64QAM	12	13	18.30	18.22	18.30	
5	64QAM	25	0	18.26	18.29	18.19	
Channel				23025	23095	23165	
Frequency (MHz)				700.5	707.5	714.5	
3	QPSK	1	0	20.99	21.07	21.05	22
3	QPSK	1	8	20.82	21.02	20.93	
3	QPSK	1	14	20.68	20.77	20.79	
3	QPSK	8	0	20.13	20.40	20.21	21
3	QPSK	8	4	20.32	20.29	20.24	
3	QPSK	8	7	20.23	20.28	20.25	
3	QPSK	15	0	20.40	20.41	20.28	21
3	16QAM	1	0	20.24	20.21	20.10	
3	16QAM	1	8	20.10	20.16	20.20	
3	16QAM	1	14	20.25	20.17	20.10	20
3	16QAM	8	0	19.32	19.56	19.50	
3	16QAM	8	4	19.44	19.62	19.59	
3	16QAM	8	7	19.28	19.59	19.39	20
3	16QAM	15	0	19.63	19.87	19.65	
3	64QAM	1	0	19.01	19.14	18.96	
3	64QAM	1	8	19.01	19.12	19.04	20
3	64QAM	1	14	19.03	19.05	19.03	
3	64QAM	8	0	18.39	18.57	18.39	
3	64QAM	8	4	18.17	18.20	18.37	19
3	64QAM	8	7	18.21	18.19	18.28	
3	64QAM	15	0	18.21	18.21	18.19	
Channel				23017	23095	23173	
Frequency (MHz)				699.7	707.5	715.3	
1.4	QPSK	1	0	20.94	21.02	21.00	22
1.4	QPSK	1	3	20.77	20.97	20.88	
1.4	QPSK	1	5	20.63	20.72	20.74	
1.4	QPSK	3	0	20.08	20.35	20.16	21
1.4	QPSK	3	1	20.27	20.24	20.19	
1.4	QPSK	3	3	20.18	20.23	20.20	
1.4	QPSK	6	0	20.35	20.36	20.23	21
1.4	16QAM	1	0	20.19	20.16	20.05	
1.4	16QAM	1	3	20.05	20.11	20.15	
1.4	16QAM	1	5	20.20	20.12	20.05	21
1.4	16QAM	3	0	19.27	19.51	19.45	
1.4	16QAM	3	1	19.39	19.57	19.54	
1.4	16QAM	3	3	19.23	19.54	19.34	20
1.4	16QAM	6	0	19.58	19.82	19.60	
1.4	64QAM	1	0	18.96	19.09	18.91	
1.4	64QAM	1	3	18.96	19.07	18.99	20
1.4	64QAM	1	5	18.98	19.00	18.98	
1.4	64QAM	3	0	18.34	18.52	18.34	
1.4	64QAM	3	1	18.12	18.15	18.32	19
1.4	64QAM	3	3	18.16	18.14	18.23	
1.4	64QAM	6	0	18.16	18.16	18.14	

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	21.07	21.11	20.91	22
10	QPSK	1	25	20.86	21.01	20.84	
10	QPSK	1	49	20.76	20.92	20.77	
10	QPSK	25	0	20.06	20.49	20.18	21
10	QPSK	25	12	20.16	20.25	20.11	
10	QPSK	25	25	20.31	20.39	20.23	
10	QPSK	50	0	20.37	20.42	20.38	21
10	16QAM	1	0	20.28	20.33	20.24	
10	16QAM	1	25	20.10	20.26	20.21	
10	16QAM	1	49	20.28	20.12	20.14	20
10	16QAM	25	0	19.43	19.58	19.58	
10	16QAM	25	12	19.55	19.72	19.62	
10	16QAM	25	25	19.35	19.61	19.41	20
10	16QAM	50	0	19.54	19.85	19.65	
10	64QAM	1	0	19.06	19.15	18.86	
10	64QAM	1	25	18.93	19.09	19.20	20
10	64QAM	1	49	18.94	19.03	19.19	
10	64QAM	25	0	18.43	18.51	18.41	
10	64QAM	25	12	18.29	18.20	18.39	19
10	64QAM	25	25	18.40	18.06	18.22	
10	64QAM	50	0	18.33	18.15	18.24	
Channel				23755	23790	23825	
Frequency (MHz)				706.5	710	713.5	
5	QPSK	1	0	20.97	21.02	20.83	22
5	QPSK	1	12	20.80	20.91	20.78	
5	QPSK	1	24	20.70	20.83	20.69	
5	QPSK	12	0	19.99	20.40	20.11	21
5	QPSK	12	7	20.11	20.17	20.01	
5	QPSK	12	13	20.25	20.33	20.17	
5	QPSK	25	0	20.30	20.32	20.29	21
5	16QAM	1	0	20.21	20.24	20.04	
5	16QAM	1	12	20.00	20.23	20.12	
5	16QAM	1	24	20.23	20.03	20.05	20
5	16QAM	12	0	19.38	19.53	19.50	
5	16QAM	12	7	19.45	19.63	19.54	
5	16QAM	12	13	19.26	19.53	19.34	20
5	16QAM	25	0	19.44	19.79	19.58	
5	64QAM	1	0	18.97	19.07	18.80	
5	64QAM	1	12	18.83	19.00	19.11	20
5	64QAM	1	24	18.88	18.93	19.12	
5	64QAM	12	0	18.35	18.44	18.36	
5	64QAM	12	7	18.23	18.12	18.34	19
5	64QAM	12	13	18.33	17.96	18.12	
5	64QAM	25	0	18.25	18.07	18.15	



Band 25 (1900MHz Band) (dBm) Part 24E							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				26140	26365	26590	
Frequency (MHz)				1860	1882.5	1905	
20	QPSK	1	0	16.11	16.27	16.17	16.5
20	QPSK	1	49	15.90	16.13	15.96	
20	QPSK	1	99	15.79	16.01	15.83	
20	QPSK	50	0	15.40	15.47	15.38	16
20	QPSK	50	24	15.28	15.35	15.34	
20	QPSK	50	50	15.31	15.38	15.33	
20	QPSK	100	0	15.33	15.44	15.39	16
20	16QAM	1	0	15.36	15.43	15.30	
20	16QAM	1	49	15.20	15.41	15.35	
20	16QAM	1	99	15.19	15.30	15.24	15
20	16QAM	50	0	14.43	14.61	14.50	
20	16QAM	50	24	14.48	14.67	14.62	
20	16QAM	50	50	14.50	14.70	14.45	15
20	16QAM	100	0	14.56	14.59	14.53	
20	64QAM	1	0	14.53	14.58	14.60	
20	64QAM	1	49	14.49	14.51	14.58	15
20	64QAM	1	99	14.44	14.47	14.54	
20	64QAM	50	0	13.63	13.78	13.77	
20	64QAM	50	24	13.57	13.64	13.66	14
20	64QAM	50	50	13.55	13.51	13.58	
20	64QAM	100	0	13.55	13.56	13.53	
Channel				26115	26365	26615	
Frequency (MHz)				1857.5	1882.5	1907.5	
15	QPSK	1	0	16.05	16.20	16.10	16.5
15	QPSK	1	37	15.80	16.06	15.87	
15	QPSK	1	74	15.71	15.95	15.73	
15	QPSK	36	0	15.31	15.42	15.31	16
15	QPSK	36	20	15.23	15.28	15.24	
15	QPSK	36	39	15.26	15.33	15.27	
15	QPSK	75	0	15.25	15.34	15.31	16
15	16QAM	1	0	15.27	15.34	15.21	
15	16QAM	1	37	15.12	15.33	15.29	
15	16QAM	1	74	15.12	15.20	15.14	15
15	16QAM	36	0	14.30	14.51	14.46	
15	16QAM	36	20	14.51	14.63	14.64	
15	16QAM	36	39	14.46	14.59	14.42	15
15	16QAM	75	0	14.52	14.56	14.53	
15	64QAM	1	0	14.44	14.49	14.52	
15	64QAM	1	37	14.44	14.45	14.49	15
15	64QAM	1	74	14.38	14.42	14.46	
15	64QAM	36	0	13.56	13.70	13.68	
15	64QAM	36	20	13.51	13.54	13.58	14
15	64QAM	36	39	13.50	13.46	13.52	
15	64QAM	75	0	13.49	13.48	13.43	
Channel				26090	26365	26640	
Frequency (MHz)				1855	1882.5	1910	
10	QPSK	1	0	16.02	16.17	16.07	16.5
10	QPSK	1	25	15.77	16.03	15.84	
10	QPSK	1	49	15.68	15.92	15.70	
10	QPSK	25	0	15.28	15.39	15.28	16
10	QPSK	25	12	15.20	15.25	15.21	
10	QPSK	25	25	15.23	15.30	15.24	
10	QPSK	50	0	15.22	15.31	15.28	16
10	16QAM	1	0	15.24	15.31	15.18	
10	16QAM	1	25	15.09	15.30	15.26	
10	16QAM	1	49	15.09	15.17	15.11	15
10	16QAM	25	0	14.27	14.50	14.47	
10	16QAM	25	12	14.50	14.67	14.60	
10	16QAM	25	25	14.46	14.60	14.46	15
10	16QAM	50	0	14.52	14.55	14.56	
10	64QAM	1	0	14.41	14.46	14.49	
10	64QAM	1	25	14.41	14.42	14.46	15
10	64QAM	1	49	14.35	14.39	14.43	
10	64QAM	25	0	13.53	13.67	13.65	
10	64QAM	25	12	13.48	13.51	13.55	14
10	64QAM	25	25	13.47	13.43	13.49	
10	64QAM	50	0	13.46	13.45	13.40	
Channel				26065	26365	26665	
Frequency (MHz)				1852.5	1882.5	1912.5	
5	QPSK	1	0	15.99	16.14	16.04	16.5
5	QPSK	1	12	15.74	16.00	15.81	
5	QPSK	1	24	15.65	15.89	15.67	
5	QPSK	12	0	15.25	15.36	15.25	16
5	QPSK	12	7	15.17	15.22	15.18	
5	QPSK	12	13	15.20	15.27	15.21	
5	QPSK	25	0	15.19	15.28	15.25	16
5	16QAM	1	0	15.21	15.28	15.15	
5	16QAM	1	12	15.06	15.27	15.23	
5	16QAM	1	24	15.06	15.14	15.08	15
5	16QAM	12	0	14.30	14.54	14.45	
5	16QAM	12	7	14.45	14.64	14.65	
5	16QAM	12	13	14.50	14.62	14.44	15
5	16QAM	25	0	14.52	14.51	14.53	
5	64QAM	1	0	14.38	14.43	14.46	
5	64QAM	1	12	14.38	14.39	14.43	15
5	64QAM	1	24	14.32	14.36	14.40	
5	64QAM	12	0	13.50	13.64	13.62	
5	64QAM	12	7	13.45	13.48	13.52	14
5	64QAM	12	13	13.44	13.40	13.46	
5	64QAM	25	0	13.43	13.42	13.37	
Channel				26055	26365	26675	
Frequency (MHz)				1851.5	1882.5	1913.5	
3	QPSK	1	0	15.96	16.11	16.01	

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	21.47	21.51	21.49	22
15	QPSK	1	37	21.32	21.40	21.30	
15	QPSK	1	74	21.17	21.27	21.21	
15	QPSK	36	0	20.53	20.85	20.58	21
15	QPSK	36	20	20.66	20.64	20.66	
15	QPSK	36	39	20.62	20.72	20.57	
15	QPSK	75	0	20.69	20.74	20.72	21
15	16QAM	1	0	20.62	20.66	20.52	
15	16QAM	1	37	20.41	20.58	20.55	
15	16QAM	1	74	20.66	20.55	20.49	20
15	16QAM	36	0	19.66	19.82	19.79	
15	16QAM	36	20	19.70	19.93	19.94	
15	16QAM	36	39	19.62	19.71	19.74	20
15	16QAM	75	0	19.61	19.77	19.96	
15	64QAM	1	0	19.53	19.80	19.54	
15	64QAM	1	37	19.56	19.61	19.64	20
15	64QAM	1	74	19.49	19.69	19.64	
15	64QAM	36	0	18.75	18.87	18.82	
15	64QAM	36	20	18.65	18.66	18.82	19
15	64QAM	36	39	18.63	18.53	18.65	
15	64QAM	75	0	18.69	18.60	18.55	
Channel				26740	26865	26990	
Frequency (MHz)				819	831.5	844	
10	QPSK	1	0	21.41	21.46	21.36	22
10	QPSK	1	25	21.29	21.37	21.27	
10	QPSK	1	49	21.14	21.24	21.18	
10	QPSK	25	0	20.50	20.82	20.55	21
10	QPSK	25	12	20.63	20.61	20.63	
10	QPSK	25	25	20.59	20.69	20.54	
10	QPSK	50	0	20.66	20.71	20.69	21
10	16QAM	1	0	20.59	20.63	20.49	
10	16QAM	1	25	20.38	20.55	20.52	
10	16QAM	1	49	20.63	20.52	20.46	20
10	16QAM	25	0	19.63	19.79	19.76	
10	16QAM	25	12	19.67	19.90	19.91	
10	16QAM	25	25	19.59	19.68	19.71	20
10	16QAM	50	0	19.58	19.74	19.93	
10	64QAM	1	0	19.50	19.77	19.51	
10	64QAM	1	25	19.53	19.58	19.61	20
10	64QAM	1	49	19.46	19.66	19.61	
10	64QAM	25	0	18.72	18.84	18.79	
10	64QAM	25	12	18.62	18.63	18.79	19
10	64QAM	25	25	18.60	18.50	18.62	
10	64QAM	50	0	18.66	18.57	18.52	
Channel				26715	26865	27015	
Frequency (MHz)				816.5	831.5	846.5	
5	QPSK	1	0	21.36	21.43	21.31	22
5	QPSK	1	12	21.24	21.32	21.22	
5	QPSK	1	24	21.09	21.19	21.13	
5	QPSK	12	0	20.45	20.77	20.50	21
5	QPSK	12	7	20.58	20.56	20.58	
5	QPSK	12	13	20.54	20.64	20.49	
5	QPSK	25	0	20.61	20.66	20.64	21
5	16QAM	1	0	20.54	20.58	20.44	
5	16QAM	1	12	20.33	20.50	20.47	
5	16QAM	1	24	20.58	20.47	20.41	20
5	16QAM	12	0	19.58	19.74	19.71	
5	16QAM	12	7	19.62	19.85	19.86	
5	16QAM	12	13	19.54	19.63	19.66	20
5	16QAM	25	0	19.53	19.69	19.88	
5	64QAM	1	0	19.45	19.72	19.46	
5	64QAM	1	12	19.48	19.53	19.56	20
5	64QAM	1	24	19.41	19.61	19.56	
5	64QAM	12	0	18.67	18.79	18.74	
5	64QAM	12	7	18.57</			



3	QPSK	1	8	15.71	15.97	15.78	16.5
3	QPSK	1	14	15.62	15.86	15.64	
3	QPSK	8	0	15.22	15.33	15.22	
3	QPSK	8	4	15.14	15.19	15.15	16
3	QPSK	8	7	15.17	15.24	15.18	
3	QPSK	15	0	15.16	15.25	15.22	
3	16QAM	1	0	15.18	15.25	15.12	16
3	16QAM	1	8	15.03	15.24	15.20	
3	16QAM	1	14	15.03	15.11	15.05	
3	16QAM	8	0	14.34	14.53	14.48	15
3	16QAM	8	4	14.48	14.68	14.66	
3	16QAM	8	7	14.53	14.64	14.45	
3	16QAM	15	0	14.57	14.50	14.53	15
3	64QAM	1	0	14.35	14.40	14.43	
3	64QAM	1	8	14.35	14.36	14.40	
3	64QAM	1	14	14.29	14.33	14.37	14
3	64QAM	8	0	13.47	13.61	13.59	
3	64QAM	8	4	13.42	13.45	13.49	
3	64QAM	8	7	13.41	13.37	13.43	14
3	64QAM	15	0	13.40	13.39	13.34	
Channel				26047	26365	26683	
Frequency (MHz)				1850.7	1882.5	1914.3	
1.4	QPSK	1	0	15.94	16.09	15.99	16.5
1.4	QPSK	1	3	15.69	15.95	15.76	
1.4	QPSK	1	5	15.60	15.64	15.62	
1.4	QPSK	3	0	15.20	15.31	15.20	16
1.4	QPSK	3	1	15.12	15.17	15.13	
1.4	QPSK	3	3	15.15	15.22	15.16	
1.4	QPSK	6	0	15.14	15.23	15.20	14.5
1.4	16QAM	1	0	15.16	15.23	15.10	
1.4	16QAM	1	3	15.01	15.22	15.18	
1.4	16QAM	1	5	15.01	15.09	15.03	13.5
1.4	16QAM	3	0	14.32	14.51	14.46	
1.4	16QAM	3	1	14.46	14.66	14.64	
1.4	16QAM	3	3	14.51	14.62	14.43	15
1.4	16QAM	6	0	14.55	14.48	14.51	
1.4	64QAM	1	0	14.33	14.38	14.41	
1.4	64QAM	1	3	14.33	14.34	14.38	14
1.4	64QAM	1	5	14.27	14.31	14.35	
1.4	64QAM	3	0	13.45	13.59	13.57	
1.4	64QAM	3	1	13.40	13.43	13.47	14
1.4	64QAM	3	3	13.39	13.35	13.41	
1.4	64QAM	6	0	13.38	13.37	13.32	

1.4	QPSK	1	3	21.15	21.23	21.13	22
1.4	QPSK	1	5	21.00	21.10	21.04	
1.4	QPSK	3	0	20.36	20.68	20.41	
1.4	QPSK	3	1	20.49	20.47	20.49	21
1.4	QPSK	3	3	20.45	20.55	20.40	
1.4	QPSK	6	0	20.52	20.57	20.55	
1.4	16QAM	1	0	20.45	20.49	20.35	21
1.4	16QAM	1	3	20.24	20.41	20.38	
1.4	16QAM	1	5	20.49	20.38	20.32	
1.4	16QAM	3	0	19.49	19.65	19.62	20
1.4	16QAM	3	1	19.53	19.76	19.77	
1.4	16QAM	3	3	19.45	19.54	19.57	
1.4	16QAM	6	0	19.44	19.60	19.79	20
1.4	64QAM	1	0	19.36	19.63	19.37	
1.4	64QAM	1	3	19.39	19.44	19.47	
1.4	64QAM	1	5	19.32	19.52	19.47	19
1.4	64QAM	3	0	18.58	18.70	18.65	
1.4	64QAM	3	1	18.48	18.49	18.65	
1.4	64QAM	3	3	18.46	18.36	18.48	19
1.4	64QAM	6	0	18.52	18.43	18.38	



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	15.14	15.30	15.27	
20	QPSK	1	49	14.90	15.19	14.96	15.5
20	QPSK	1	99	14.80	14.96	14.80	
20	QPSK	50	0	14.44	14.57	14.48	
20	QPSK	50	24	14.31	14.41	14.50	15
20	QPSK	50	50	14.41	14.61	14.39	
20	QPSK	100	0	14.31	14.59	14.53	
20	16QAM	1	0	14.45	14.55	14.54	15
20	16QAM	1	49	14.25	14.45	14.34	
20	16QAM	1	99	14.19	14.26	14.47	
20	16QAM	50	0	13.55	13.57	13.47	14
20	16QAM	50	24	13.43	13.51	13.54	
20	16QAM	50	50	13.49	13.51	13.57	
20	16QAM	100	0	13.48	13.57	13.55	14
20	64QAM	1	0	13.49	13.62	13.74	
20	64QAM	1	49	13.49	13.52	13.50	
20	64QAM	1	99	13.56	13.49	13.48	13
20	64QAM	50	0	12.70	12.83	12.66	
20	64QAM	50	24	12.66	12.50	12.41	
20	64QAM	50	50	12.66	12.59	12.64	13
20	64QAM	100	0	12.57	12.61	12.54	
Channel				132047	132322	132597	
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	15.10	15.23	15.23	15.5
15	QPSK	1	37	14.84	15.16	14.91	
15	QPSK	1	74	14.74	14.93	14.78	
15	QPSK	36	0	14.41	14.55	14.45	15
15	QPSK	36	20	14.26	14.36	14.45	
15	QPSK	36	39	14.37	14.56	14.32	
15	QPSK	75	0	14.25	14.54	14.49	15
15	16QAM	1	0	14.41	14.42	14.48	
15	16QAM	1	37	14.20	14.41	14.28	
15	16QAM	1	74	14.17	14.21	14.40	14
15	16QAM	36	0	13.52	13.50	13.35	
15	16QAM	36	20	13.42	13.41	13.47	
15	16QAM	36	39	13.45	13.54	13.45	14
15	16QAM	75	0	13.47	13.49	13.49	
15	64QAM	1	0	13.44	13.59	13.72	
15	64QAM	1	37	13.47	13.48	13.46	14
15	64QAM	1	74	13.49	13.47	13.44	
15	64QAM	36	0	12.68	12.77	12.60	
15	64QAM	36	20	12.62	12.44	12.38	13
15	64QAM	36	39	12.62	12.54	12.57	
15	64QAM	75	0	12.52	12.59	12.51	
Channel				132022	132322	132622	
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	15.07	15.24	15.23	
10	QPSK	1	25	14.88	15.15	14.94	
10	QPSK	1	49	14.77	14.90	14.75	
10	QPSK	25	0	14.39	14.54	14.42	15
10	QPSK	25	12	14.28	14.34	14.47	
10	QPSK	25	25	14.35	14.56	14.36	
10	QPSK	50	0	14.27	14.53	14.49	15
10	16QAM	1	0	14.40	14.45	14.47	
10	16QAM	1	25	14.20	14.42	14.31	
10	16QAM	1	49	14.14	14.20	14.41	14
10	16QAM	25	0	13.50	13.47	13.34	
10	16QAM	25	12	13.43	13.46	13.43	
10	16QAM	25	25	13.44	13.52	13.49	14
10	16QAM	50	0	13.46	13.55	13.46	
10	64QAM	1	0	13.46	13.58	13.68	
10	64QAM	1	25	13.46	13.49	13.47	14
10	64QAM	1	49	13.54	13.45	13.46	
10	64QAM	25	0	12.67	12.77	12.61	
10	64QAM	25	12	12.62	12.46	12.36	13
10	64QAM	25	25	12.59	12.53	12.61	
10	64QAM	50	0	12.54	12.57	12.52	
Channel				131997	132322	132647	
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	15.05	15.20	15.21	
5	QPSK	1	12	14.85	15.09	14.88	
5	QPSK	1	24	14.73	14.86	14.73	
5	QPSK	12	0	14.34	14.50	14.39	15
5	QPSK	12	7	14.22	14.28	14.41	
5	QPSK	12	13	14.33	14.54	14.31	
5	QPSK	25	0	14.21	14.50	14.44	15
5	16QAM	1	0	14.37	14.42	14.44	
5	16QAM	1	12	14.15	14.39	14.29	
5	16QAM	1	24	14.10	14.16	14.37	14
5	16QAM	12	0	13.47	13.51	13.33	
5	16QAM	12	7	13.44	13.47	13.42	
5	16QAM	12	13	13.45	13.53	13.49	14
5	16QAM	25	0	13.41	13.51	13.45	
5	64QAM	1	0	13.43	13.54	13.62	
5	64QAM	1	12	13.44	13.45	13.43	14
5	64QAM	1	24	13.50	13.43	13.42	
5	64QAM	12	0	12.61	12.73	12.58	
5	64QAM	12	7	12.59	12.40	12.31	13
5	64QAM	12	13	12.57	12.49	12.57	
5	64QAM	25	0	12.52	12.53	12.47	
Channel				131987	132322	132657	
Frequency (MHz)				1711.5	1745	1776.5	
3	QPSK	1	0	15.00	15.20	15.19	

Band 71 (dBm)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				133222	133322	133372	
Frequency (MHz)				673	683	688	
20	QPSK	1	0	21.86	21.94	21.84	
20	QPSK	1	49	21.77	21.88	21.75	
20	QPSK	1	99	21.68	21.85	21.70	
20	QPSK	50	0	21.01	21.37	21.03	22
20	QPSK	50	24	21.14	21.15	21.13	
20	QPSK	50	50	21.06	21.28	21.03	
20	QPSK	100	0	21.10	21.26	21.18	22
20	16QAM	1	0	21.05	21.19	21.05	
20	16QAM	1	49	20.86	21.05	21.04	
20	16QAM	1	99	21.18	21.02	21.00	21
20	16QAM	50	0	20.26	20.41	20.44	
20	16QAM	50	24	20.23	20.56	20.55	
20	16QAM	50	50	20.21	20.59	20.29	21
20	16QAM	100	0	20.32	20.55	20.43	
20	64QAM	1	0	20.37	20.67	20.41	
20	64QAM	1	49	20.38	20.43	20.44	21
20	64QAM	1	99	20.33	20.47	20.40	
20	64QAM	50	0	19.22	19.41	19.27	
20	64QAM	50	24	19.12	19.17	19.37	20
20	64QAM	50	50	19.04	19.06	19.10	
20	64QAM	100	0	19.16	19.14	19.07	
Channel				133197	133297	133397	
Frequency (MHz)				670.5	680.5	690.5	
15	QPSK	1	0	21.82	21.89	21.79	
15	QPSK	1	37	21.74	21.81	21.69	
15	QPSK	1	74	21.65	21.80	21.64	
15	QPSK	36	0	20.97	21.32	21.01	22
15	QPSK	36	20	21.10	21.13	21.09	
15	QPSK	36	39	21.01	21.22	20.99	
15	QPSK	75	0	21.06	21.20	21.14	22
15	16QAM	1	0	20.98	21.12	21.00	
15	16QAM	1	37	20.82	20.99	21.02	
15	16QAM	1	74	21.11	21.00	20.96	21
15	16QAM	36	0	20.22	20.37	20.40	
15	16QAM	36	20	20.17	20.50	20.53	
15	16QAM	36	39	20.16	20.54	20.25	21
15	16QAM	75	0	20.29	20.51	20.36	
15	64QAM	1	0	20.35	20.63	20.36	
15	64QAM	1	37	20.34	20.36	20.40	21
15	64QAM	1	74	20.29	20.43	20.35	
15	64QAM	36	0	19.18	19.37	19.24	
15	64QAM	36	20	19.05	19.14	19.32	20
15	64QAM	36	39	19.00	19.03	19.04	
15	64QAM	75	0	19.13	19.11	19.05	
Channel				133172	133272	133422	
Frequency (MHz)				668	678	693	
10	QPSK	1	0	21.75	21.83	21.76	
10	QPSK	1	25	21.68	21.77	21.64	
10	QPSK	1	49	21.59	21.75	21.60	
10	QPSK	25	0	20.91	21.28	20.96	22
10	QPSK	25	12	21.06	21.10	21.07	
10	QPSK	25	25	20.95	21.18	20.94	
10	QPSK	50	0	21.04	21.14	21.11	22
10	16QAM	1	0	20.93	21.08	20.97	
10	16QAM	1	25	20.79	20.95	20.96	
10	16QAM	1	49	21.06	20.95	20.89	21
10	16QAM	25	0	20.18	20.30	20.37	
10	16QAM	25	12	20.14	20.48	20.47	
10	16QAM	25	25	20.10	20.52	20.21	21
10	16QAM	50	0	20.26	20.46	20.31	
10	64QAM	1	0	20.33	20.56	20.30	
10	64QAM	1	25	20.28	20.31	20.35	21
10	64QAM	1	49	20.25	20.38	20.32	
10	64QAM	25	0	19.15	19.32	19.20	
10	64QAM	25	12	19.00</			



3	QPSK	1	8	14.84	15.08	14.91	15.5
3	QPSK	1	14	14.71	14.84	14.71	
3	QPSK	8	0	14.37	14.51	14.36	
3	QPSK	8	4	14.25	14.28	14.43	15
3	QPSK	8	7	14.33	14.51	14.30	
3	QPSK	15	0	14.20	14.47	14.45	
3	16QAM	1	0	14.34	14.43	14.41	
3	16QAM	1	8	14.16	14.37	14.24	15
3	16QAM	1	14	14.11	14.15	14.36	
3	16QAM	8	0	13.46	13.51	13.38	
3	16QAM	8	4	13.43	13.43	13.45	
3	16QAM	8	7	13.41	13.54	13.50	14
3	16QAM	15	0	13.42	13.50	13.51	
3	64QAM	1	0	13.42	13.54	13.64	
3	64QAM	1	8	13.40	13.46	13.42	14
3	64QAM	1	14	13.49	13.42	13.42	
3	64QAM	8	0	12.64	12.74	12.56	
3	64QAM	8	4	12.56	12.43	12.30	
3	64QAM	8	7	12.54	12.49	12.54	13
3	64QAM	15	0	12.49	12.51	12.46	
Channel				131979	132322	132665	Tune-up limit
Frequency (MHz)				1710.7	1745	1779.3	(dBm)
1.4	QPSK	1	0	14.98	15.18	15.17	
1.4	QPSK	1	3	14.82	15.06	14.89	
1.4	QPSK	1	5	14.69	14.82	14.69	15.5
1.4	QPSK	3	0	14.35	14.49	14.34	
1.4	QPSK	3	1	14.23	14.26	14.41	
1.4	QPSK	3	3	14.31	14.49	14.28	
1.4	QPSK	6	0	14.18	14.45	14.43	15
1.4	16QAM	1	0	14.32	14.41	14.39	
1.4	16QAM	1	3	14.14	14.35	14.22	
1.4	16QAM	1	5	14.09	14.13	14.34	
1.4	16QAM	3	0	13.44	13.49	13.36	15
1.4	16QAM	3	1	13.41	13.41	13.43	
1.4	16QAM	3	3	13.39	13.52	13.48	
1.4	16QAM	6	0	13.40	13.48	13.49	14
1.4	64QAM	1	0	13.40	13.52	13.62	
1.4	64QAM	1	3	13.38	13.44	13.40	
1.4	64QAM	1	5	13.47	13.40	13.40	14
1.4	64QAM	3	0	12.62	12.72	12.54	
1.4	64QAM	3	1	12.54	12.41	12.28	
1.4	64QAM	3	3	12.52	12.47	12.52	
1.4	64QAM	6	0	12.47	12.49	12.44	13



Band 41 (2496~2690MHz) (dBm)_P3										
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	14.44	14.44	14.58	14.39	14.48		
20	QPSK	1	49	14.32	14.32	14.44	14.36	14.38	15	
20	QPSK	1	99	14.21	14.19	14.23	14.20	14.12		
20	QPSK	50	0	13.69	13.66	13.79	13.52	13.58		
20	QPSK	50	24	13.64	13.67	13.72	13.60	13.62	14.5	
20	QPSK	50	50	13.68	13.60	13.71	13.56	13.69		
20	QPSK	100	0	13.76	13.73	13.70	13.72	13.75		
20	16QAM	1	0	13.60	13.46	13.68	13.59	13.67		
20	16QAM	1	49	13.41	13.54	13.49	13.29	13.39	14.5	
20	16QAM	1	99	13.58	13.38	13.51	13.63	13.63		
20	16QAM	50	0	13.05	13.09	13.12	12.98	12.95		
20	16QAM	50	24	12.99	13.31	13.28	13.08	13.01	13.5	
20	16QAM	50	50	12.94	13.10	13.36	12.93	12.94		
20	16QAM	100	0	12.92	12.90	12.97	12.81	12.88		
20	64QAM	1	0	12.58	12.61	12.80	12.62	12.63		
20	64QAM	1	49	12.57	12.74	12.73	12.62	12.58	13.5	
20	64QAM	1	99	12.50	12.77	12.74	12.60	12.53		
20	64QAM	50	0	11.75	11.75	11.78	11.66	11.77		
20	64QAM	50	24	11.55	11.81	11.61	11.68	11.58	12.5	
20	64QAM	50	50	11.63	11.55	11.50	11.52	11.55		
20	64QAM	100	0	11.66	11.49	11.63	11.68	11.63		
Channel				39725	40173	40620	41068	41515		
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	14.40	14.41	14.52	14.36	14.42	15	
15	QPSK	1	37	14.29	14.27	14.41	14.30	14.33		
15	QPSK	1	74	14.15	14.15	14.18	14.15	14.07		
15	QPSK	36	0	13.54	13.53	13.73	13.50	13.56	14.5	
15	QPSK	36	20	13.59	13.64	13.68	13.56	13.56		
15	QPSK	36	39	13.64	13.57	13.69	13.52	13.64		
15	QPSK	75	0	13.72	13.67	13.67	13.69	13.71		
15	16QAM	1	0	13.58	13.43	13.59	13.57	13.62		
15	16QAM	1	37	13.34	13.51	13.45	13.24	13.32	14.5	
15	16QAM	1	74	13.55	13.33	13.45	13.61	13.59		
15	16QAM	36	0	13.01	13.06	13.08	12.92	12.89		
15	16QAM	36	20	12.94	13.26	13.23	13.05	12.98	13.5	
15	16QAM	36	39	12.90	13.06	13.34	12.90	12.91		
15	16QAM	75	0	12.88	12.83	12.93	12.75	12.83		
15	64QAM	1	0	12.53	12.57	12.78	12.56	12.61		
15	64QAM	1	37	12.54	12.71	12.71	12.58	12.54	13.5	
15	64QAM	1	74	12.43	12.74	12.71	12.58	12.50		
15	64QAM	36	0	11.69	11.73	11.72	11.61	11.72		
15	64QAM	36	20	11.51	11.79	11.57	11.62	11.53	12.5	
15	64QAM	36	39	11.58	11.48	11.44	11.46	11.52		
15	64QAM	75	0	11.61	11.44	11.57	11.62	11.60		
Channel				39700	40160	40620	41080	41540		
Frequency (MHz)				2501	2547	2593	2639	2685		
10	QPSK	1	0	14.36	14.37	14.48	14.32	14.38	15	
10	QPSK	1	25	14.25	14.23	14.37	14.26	14.29		
10	QPSK	1	49	14.11	14.11	14.14	14.11	14.03		
10	QPSK	25	0	13.50	13.49	13.69	13.46	13.52	14.5	
10	QPSK	25	12	13.55	13.60	13.64	13.52	13.52		
10	QPSK	25	25	13.60	13.53	13.64	13.48	13.60		
10	QPSK	50	0	13.68	13.63	13.63	13.65	13.67		
10	16QAM	1	0	13.54	13.39	13.55	13.53	13.58		
10	16QAM	1	25	13.30	13.47	13.41	13.20	13.28	14.5	
10	16QAM	1	49	13.51	13.29	13.41	13.57	13.55		
10	16QAM	25	0	12.97	13.02	13.04	12.88	12.85		
10	16QAM	25	12	12.91	13.22	13.19	13.01	12.94	13.5	
10	16QAM	25	25	12.86	13.02	13.30	12.86	12.87		
10	16QAM	50	0	12.84	12.79	12.89	12.71	12.79		
10	16QAM	1	0	12.49	12.53	12.74	12.52	12.57		
10	16QAM	1	25	12.50	12.67	12.67	12.54	12.50	21.5	
10	16QAM	1	49	12.39	12.70	12.67	12.54	12.46		
10	16QAM	25	0	11.65	11.69	11.68	11.57	11.68		
10	16QAM	25	12	11.47	11.75	11.53	11.58	11.49	13	
10	16QAM	25	25	11.54	11.44	11.40	11.42	11.48		
10	16QAM	50	0	11.57	11.40	11.53	11.58	11.56		
Channel				39675	40148	40620	41093	41565		
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5		
5	QPSK	1	0	14.32	14.33	14.44	14.28	14.34	15	
5	QPSK	1	12	14.21	14.19	14.33	14.22	14.25		
5	QPSK	1	24	14.07	14.07	14.10	14.07	13.99		
5	QPSK	12	0	13.46	13.45	13.65	13.42	13.48	14.5	
5	QPSK	12	7	13.51	13.56	13.60	13.48	13.48		
5	QPSK	12	13	13.56	13.49	13.60	13.44	13.56		
5	QPSK	25	0	13.64	13.59	13.59	13.61	13.63		
5	16QAM	1	0	13.50	13.35	13.51	13.49	13.54		
5	16QAM	1	12	13.31	13.48	13.42	13.21	13.29	14.5	
5	16QAM	1	24	13.52	13.30	13.42	13.58	13.56		
5	16QAM	12	0	12.98	13.03	13.05	12.89	12.96		
5	16QAM	12	7	12.91	13.23	13.20	13.02	12.95	13.5	
5	16QAM	12	13	12.87	13.03	13.31	12.87	12.88		
5	16QAM	25	0	12.85	12.80	12.90	12.72	12.80		
5	64QAM	1	0	12.50	12.54	12.75	12.53	12.58		
5	64QAM	1	12	12.51	12.68	12.68	12.55	12.51	13.5	
5	64QAM	1	24	12.40	12.71	12.68	12.55	12.47		
5	64QAM	12	0	11.66	11.70	11.69	11.58	11.69		
5	64QAM	12	7	11.48	11.76	11.54	11.59	11.50	12.5	
5	64QAM	12	13	11.55	11.45	11.41	11.43	11.49		
5	64QAM	25	0	11.58	11.41	11.54	11.59	11.57		

Band 41 (2496~2690MHz) (dBm)_P2										
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	18.47	18.38	18.58	18.46	18.44	19	
20	QPSK	1	49	18.34	18.31	18.40	18.31	18.40		
20	QPSK	1	99	18.16	18.15	18.34	18.26	18.22		
20	QPSK	50	0	17.56	17.58	17.89	17.59	17.59	18.5	
20	QPSK	50	24	17.69	17.69	17.62	17.66	17.70		
20	QPSK	50	50	17.69	17.61	17.75	17.53	17.68		
20	QPSK	100	0	17.74	17.73	17.77	17.66	17.72		
20	16QAM	1	0	17.61	17.58	17.71	17.46	17.64		
20	16QAM	1	49	17.42	17.62	17.55	17.58	17.36	18.5	
20	16QAM	1	99	17.66	17.51	17.51	17.43	17.70		
20	16QAM	50	0	17.13	17.24	17.19	17.22	17.06		
20	16QAM	50	24	17.12	17.32	17.34	17.38	17.18	17.5	
20	16QAM	50	50	17.08	17.16	17.48	17.15	17.09		
20	16QAM	100	0	16.95	16.97	17.13	17.03	16.94		
20	64QAM	1	0	16.57	16.67	16.94	16.59	16.68		
20	64QAM	1	49	16.72	16.72	16.70	16.69	16.63	17.5	
20	64QAM	1	99	16.56	16.68	16.78	16.69	16.53		
20	64QAM	50	0	15.69	15.89	15.82	15.86	15.81	16.5	
20	64QAM	50	24	15.69	15.78	15.70	15.85	15.64		
20	64QAM	50	50	15.64	15.69	15.57	15.62	15.70		
20	64QAM	100	0	15.65	15.57	15.56	15.49	15.74		
Channel				39725	40173	40620	41068	41515		
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
15	QPSK	1	0	18						