



REPORT No.: SZ22070173S01

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
TX Channel		128	189	251		128	189	251		
Frequency (MHz)		824.2	836.4	848.8		824.2	836.4	848.8		
GSM 1 Tx slot		32.47	32.51	32.46	33.50	23.47	23.51	23.46	24.50	0.06
GPRS 1 Tx slot		32.48	32.52	32.47	33.50	23.48	23.52	23.47	24.50	
GPRS 2 Tx slots		30.51	30.58	30.47	31.50	24.51	24.58	24.47	25.50	0.11
GPRS 3 Tx slots		28.66	28.51	28.49	29.50	24.40	24.25	24.23	25.24	0.17
GPRS 4 Tx slots		26.44	26.59	26.53	27.50	23.44	23.59	23.53	24.50	0.15
EDGE 1 Tx slot		27.05	27.11	27.08	28.00	18.05	18.11	18.08	19.00	0.06
EDGE 2 Tx slots		24.96	25.02	24.94	26.00	18.96	19.02	18.94	20.00	0.08
EDGE 3 Tx slots		23.12	23.15	23.10	24.00	18.86	18.89	18.84	19.74	0.05
EDGE 4 Tx slots		21.08	21.22	21.15	22.00	18.08	18.22	18.15	19.00	0.14
Mode			Max.	32.52			Max.	24.58		
Attenuator		Cable Loss : 0.6								

GSM1900		Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)	Ch Delta > 0.5
TX Channel		512	661	810		512	661	810		
Frequency (MHz)		1850.2	1880	1909.8		1850.2	1880	1909.8		
GSM 1 Tx slot		29.52	29.62	29.53	30.50	20.52	20.62	20.53	21.50	0.11
GPRS 1 Tx slot		29.54	29.63	29.55	30.50	20.54	20.63	20.55	21.50	
GPRS 2 Tx slots		27.48	27.59	27.45	28.50	21.48	21.59	21.45	22.50	0.14
GPRS 3 Tx slots		25.60	25.58	25.56	26.50	21.34	21.32	21.30	22.24	0.04
GPRS 4 Tx slots		23.55	23.61	23.54	24.50	20.55	20.61	20.54	21.50	0.07
EDGE 1 Tx slot		26.24	26.25	26.21	27.00	17.24	17.25	17.21	18.00	0.04
EDGE 2 Tx slots		24.42	24.36	24.26	25.00	18.42	18.36	18.26	19.00	0.16
EDGE 3 Tx slots		22.02	22.05	22.07	23.00	17.76	17.79	17.81	18.74	0.05
EDGE 4 Tx slots		20.11	20.22	20.15	21.00	17.11	17.22	17.15	18.00	0.11
Mode			Max.	29.63			Max.	21.59		
Attenuator		Cable Loss : 0.8								

Band		WCDMA Band II (dBm)			Tune-up Limit (dBm)	WCDMA Band IV (dBm)			Tune-up Limit (dBm)	WCDMA Band V (dBm)			Tune-up Limit (dBm)
TX Channel		9262	9400	9538		1312	1413	1513		4132	4182	4233	
Rx Channel		9662	9800	9938		1537	1638	1738		4357	4407	4458	
Frequency (MHz)		1852.4	1880	1907.6		1712.4	1732.6	1752.6		826.4	836.4	846.6	
3GPP Rel 99	RMC 12.2Kbps	23.24	23.36	23.21	24.00	23.06	23.11	23.04	24.00	23.46	23.55	23.48	24.50
3GPP Rel 6	HSDPA Subtest-1	22.93	22.85	22.90	23.50	22.70	22.69	22.65	23.50	22.78	22.70	22.70	23.50
3GPP Rel 6	HSDPA Subtest-2	22.66	22.54	22.56	23.50	22.74	22.65	22.64	23.50	22.37	22.55	22.43	23.50
3GPP Rel 6	HSDPA Subtest-3	22.75	22.68	22.77	23.50	22.72	22.61	22.59	23.50	22.08	22.26	22.14	23.50
3GPP Rel 6	HSDPA Subtest-4	22.43	22.35	22.42	23.50	22.75	22.62	22.62	23.50	22.00	22.18	22.08	23.50
3GPP Rel 8	DC-HSDPA Subtest-1	22.86	22.82	22.88	23.50	22.42	22.43	22.30	23.50	23.31	23.31	23.35	24.00
3GPP Rel 8	DC-HSDPA Subtest-2	22.85	22.81	22.86	23.50	22.45	22.41	22.35	23.50	23.32	23.36	23.37	24.00
3GPP Rel 8	DC-HSDPA Subtest-3	22.81	22.80	22.84	23.50	22.45	22.40	22.37	23.50	23.37	23.39	23.34	24.00
3GPP Rel 8	DC-HSDPA Subtest-4	22.83	22.81	22.85	23.50	22.46	22.40	22.38	23.50	23.38	23.36	23.37	24.00
3GPP Rel 6	HSUPA Subtest-1	22.81	22.73	22.85	23.50	22.60	22.56	22.57	23.50	23.11	23.23	23.11	24.00
3GPP Rel 6	HSUPA Subtest-2	22.82	22.69	22.83	23.50	22.57	22.58	22.55	23.50	23.22	23.39	23.36	24.00
3GPP Rel 6	HSUPA Subtest-3	22.77	22.79	22.80	23.50	22.57	22.51	22.55	23.50	23.20	23.30	23.36	24.00
3GPP Rel 6	HSUPA Subtest-4	22.81	22.70	22.80	23.50	22.51	22.55	22.50	23.50	23.11	23.36	23.30	24.00
3GPP Rel 6	HSUPA Subtest-5	22.79	22.77	22.79	23.50	22.56	22.52	22.55	23.50	23.22	23.39	23.34	24.00
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	22.73	22.81	22.78	23.50	22.55	22.38	22.45	23.50	23.38	23.22	23.29	24.00
Attenuator			Cable Loss	0.8			Cable Loss	0.8			Cable Loss	0.6	
Mode			Max.	23.36			Max.	23.11			Max.	23.55	

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	23.5
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	22.62	22.65	22.59	23.5
20	QPSK	1	49	22.60	22.54	22.47	
20	QPSK	1	99	22.54	22.50	22.48	
20	QPSK	50	0	21.58	21.67	21.60	
20	QPSK	50	24	21.59	21.64	21.64	22.5
20	QPSK	50	50	21.64	21.60	21.66	
20	QPSK	100	0	21.57	21.66	21.62	
20	16QAM	1	0	21.31	21.31	21.33	
20	16QAM	1	49	21.15	21.45	21.41	22.5
20	16QAM	1	99	21.40	21.25	21.65	
20	16QAM	50	0	21.33	21.30	21.28	
20	16QAM	50	24	21.29	21.34	21.35	
20	16QAM	50	50	21.37	21.34	21.41	22.5
20	16QAM	100	0	21.40	21.41	21.28	
20	64QAM	1	0	21.47	21.66	21.40	
20	64QAM	1	49	21.42	21.60	21.51	
20	64QAM	1	99	21.37	21.70	21.70	22.5
20	64QAM	50	0	21.47	21.39	21.44	
20	64QAM	50	24	21.50	21.44	21.49	
20	64QAM	50	50	21.49	21.50	21.44	
20	64QAM	100	0	21.37	21.34	21.35	23.5
Channel				18675	18900	19125	
Frequency (MHz)				1857.5	1880	1902.5	23.5
15	QPSK	1	0	22.43	22.46	22.37	
15	QPSK	1	37	22.22	22.58	22.46	22.5
15	QPSK	1	74	22.59	22.51	22.59	
15	QPSK	36	0	21.56	21.65	21.64	
15	QPSK	36	20	21.23	21.42	21.39	
15	QPSK	36	39	21.35	21.36	21.33	22.5
15	QPSK	75	0	21.27	21.33	21.29	
15	16QAM	1	0	21.36	21.44	21.38	
15	16QAM	1	37	21.49	21.52	21.38	
15	16QAM	1	74	21.44	21.56	21.56	22.5
15	16QAM	36	0	21.23	21.28	21.31	
15	16QAM	36	20	21.32	21.25	21.38	
15	16QAM	36	39	21.37	21.46	21.43	
15	16QAM	75	0	21.24	21.26	21.35	22.5
15	64QAM	1	0	21.44	21.20	21.26	
15	64QAM	1	37	21.43	21.24	21.66	
15	64QAM	1	74	21.32	21.36	21.51	
15	64QAM	36	0	21.17	21.34	21.22	22.5
15	64QAM	36	20	21.37	21.39	21.29	
15	64QAM	36	39	21.25	21.30	21.39	
15	64QAM	75	0	21.24	21.31	21.30	
Channel				18650	18900	19150	23.5
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	22.47	22.46	22.56	23.5
10	QPSK	1	25	22.51	22.54	22.49	
10	QPSK	1	49	22.47	22.48	22.47	
10	QPSK	25	0	21.74	21.75	21.71	
10	QPSK	25	12	21.70	21.82	21.75	22.5
10	QPSK	25	25	21.61	21.74	21.70	
10	QPSK	50	0	21.35	21.44	21.42	
10	16QAM	1	0	21.83	21.76	21.75	
10	16QAM	1	25	21.52	21.48	21.55	22.5
10	16QAM	1	49	21.47	21.55	21.34	
10	16QAM	25	0	21.37	21.36	21.33	
10	16QAM	25	12	21.53	21.33	21.33	
10	16QAM	25	25	21.33	21.53	21.63	22.5
10	16QAM	50	0	21.22	21.15	21.19	
10	64QAM	1	0	21.41	21.46	21.46	
10	64QAM	1	25	21.44	21.49	21.53	
10	64QAM	1	49	21.11	21.24	21.21	22.5
10	64QAM	25	0	21.41	21.45	21.46	
10	64QAM	25	12	21.44	21.42	21.43	
10	64QAM	25	25	21.37	21.15	21.37	
10	64QAM	50	0	21.38	21.38	21.35	23.5
Channel				18625	18900	19175	
Frequency (MHz)				1852.5	1880	1907.5	23.5
5	QPSK	1	0	22.47	22.52	22.46	
5	QPSK	1	12	22.46	22.41	22.44	22.5
5	QPSK	1	24	22.42	22.50	22.51	
5	QPSK	12	0	21.59	21.50	21.57	
5	QPSK	12	7	21.60	21.65	21.57	22.5
5	QPSK	12	13	21.27	21.26	21.29	
5	QPSK	25	0	21.26	21.24	21.26	
5	16QAM	1	0	21.39	21.29	21.67	
5	16QAM	1	12	21.37	21.30	21.67	22.5
5	16QAM	1	24	21.40	21.27	21.66	
5	16QAM	12	0	21.49	21.63	21.49	
5	16QAM	12	7	21.39	21.39	21.19	
5	16QAM	12	13	21.19	21.52	21.29	22.5
5	16QAM	25	0	21.29	21.75	21.73	
5	64QAM	1	0	21.49	21.21	21.26	
5	64QAM	1	12	21.65	21.31	21.42	
5	64QAM	1	24	21.66	21.30	21.32	22.5
5	64QAM	12	0	21.31	21.24	21.23	
5	64QAM	12	7	21.37	21.21	21.21	
5	64QAM	12	13	21.34	21.30	21.28	
5	64QAM	25	0	21.41	21.21	21.28	23.5
Channel				18615	18900	19185	
Frequency (MHz)				1851.5	1880	1908.5	23.5
3	QPSK	1	0	22.41	22.48	22.40	
3	QPSK	1	8	22.51	22.54	22.37	22.5
3	QPSK	1	14	22.52	22.39	22.39	
3	QPSK	8	0	21.47	21.42	21.44	
3	QPSK	8	4	21.53	21.47	21.48	
3	QPSK	8	7	21.53	21.47	21.43	22.5
3	QPSK	15	0	21.13	21.21	21.14	

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	22.56	22.64	22.63	23.5
20	QPSK	1	49	22.42	22.50	22.49	
20	QPSK	1	99	22.34	22.47	22.59	
20	QPSK	50	0	21.53	21.57	21.54	
20	QPSK	50	24	21.44	21.52	21.52	22.5
20	QPSK	50	50	21.33	21.44	21.45	
20	QPSK	100	0	21.43	21.47	21.54	
20	16QAM	1	0	21.30	21.60	21.47	
20	16QAM	1	49	21.45	21.22	21.36	22.5
20	16QAM	1	99	21.24	21.46	21.30	
20	16QAM	50	0	21.43	21.36	21.50	
20	16QAM	50	24	21.69	21.80	21.69	
20	16QAM	50	50	21.65	21.66	21.66	22.5
20	16QAM	100	0	21.67	21.75	21.76	
20	64QAM	1	0	21.41	21.52	21.74	
20	64QAM	1	49	21.45	21.38	21.26	
20	64QAM	1	99	21.72	21.29	21.76	22.5
20	64QAM	50	0	21.42	21.51	21.46	
20	64QAM	50	24	21.44	21.55	21.49	
20	64QAM	50	50	21.48	21.43	21.45	
20	64QAM	100	0	21.51	21.49	21.58	
Channel				20025	20175	20325	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	22.43	22.47	22.57	23.5
15	QPSK	1	37	22.47	22.56	22.48	
15	QPSK	1	74	22.34	22.56	22.59	
15	QPSK	36	0	21.38	21.45	21.48	
15	QPSK	36	20	21.42	21.55	21.51	22.5
15	QPSK	36	39	21.47	21.46	21.55	
15	QPSK	75	0	21.42	21.44	21.45	
15	16QAM	1	0	21.36	21.58	21.30	
15	16QAM	1	37	21.44	21.44	21.28	22.5
15	16QAM	1	74	21.30	21.60	21.39	
15	16QAM	36	0	21.31	21.33	21.52	
15	16QAM	36	20	21.26	21.33	21.39	
15	16QAM	36	39	21.22	21.31	21.37	22.5
15	16QAM	75	0	21.33	21.34	21.43	
15	64QAM	1	0	21.28	21.59	21.64	
15	64QAM	1	37	21.70	21.46	21.52	
15	64QAM	1	74	21.74	21.45	21.49	22.5
15	64QAM	36	0	21.39	21.46	21.50	
15	64QAM	36	20	21.45	21.47	21.49	
15	64QAM	36	39	21.48	21.44	21.46	
15	64QAM	75	0	21.41	21.52	21.45	
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	22.55	22.54	22.37	23.5
10	QPSK	1	25	22.53	22.46	22.47	
10	QPSK	1	49	22.41	22.24	22.47	
10	QPSK	25	0	21.40	21.62	21.64	
10	QPSK	25	12	21.52	21.58	21.62	22.5
10	QPSK	25	25	21.41	21.52	21.59	
10	QPSK	50	0	21.47	21.57	21.49	
10	16QAM	1	0	21.27	21.42	21.18	
10	16QAM	1	25	21.54	21.28	21.60	22.5
10	16QAM	1	49	21.61	21.51	21.50	
10	16QAM	25	0	21.27	21.26	21.25	
10	16QAM	25	12	21.19	21.29	21.26	
10	16QAM	25	25	21.53	21.44	21.53	22.5
10	16QAM	50	0	21.47	21.51	21.63	
10	64QAM	1	0	21.33	21.41	21.31	
10	64QAM	1	25	21.40	21.69	21.78	
10	64QAM	1	49	21.38	21.42	21.37	22.5
10	64QAM	25	0	21.22	21.36	21.35	
10	64QAM	25	12	21.31	21.42	21.46	
10	64QAM	25	25	21.19	21.31	21.33	
10	64QAM	50	0	21.25	21.32	21.31	
Channel				19975	20175	20375	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1732.5	1752.5	
5	QPSK	1	0	22.52	22.47	22.52	23.5
5	QPSK	1	12	22.51	22.46	22.43	
5	QPSK	1	24	22.26	22.38	22.37	
5	QPSK	12	0	21.48	21.48	21.52	
5	QPSK	12	7	21.48	21.59	21.56	22.5
5	QPSK	12	13	21.43	21.60	21.52	
5	QPSK	25	0	21.46	21.50	21.56	
5	16QAM	1	0	21.17	21.58	21.26	
5	16QAM	1	12	21.28	21.63	21.22	22.5
5	16QAM	1	24	21.22	21.57	21.17	
5	16QAM	12	0	21.21	21.15	21.18	
5	16QAM	12	7	21.24	21.28	21.26	
5	16QAM	12	13	21.51	21.58	21.62	22.5
5	16QAM	25	0	21.52	21.63	21.56	
5	64QAM	1	0	21.29	21.73	21.71	
5	64QAM	1	12	21.67	21.43	21.70	
5	64QAM	1	24	21.63	21.33	21.40	22.5
5	64QAM	12	0	21.30	21.37	21.39	
5	64QAM	12	7	21.29	21.38	21.44	
5	64QAM	12	13	21.30	21.36	21.35	
5	64QAM	25	0	21.25	21.39	21.30	
Channel				19965	20175	20385	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1732.5	1753.5	
3	QPSK	1	0	22.37	22.38	22.50	23.5
3	QPSK	1	8	22.46	22.60	22.54	
3	QPSK	8	0	21.46	21.52	21.53	
3	QPSK	8	4	21.52	21.60	21.62	
3	QPSK	8	7	21.48	21.58	21.58	22.5
3	QPSK	15	0	21.29	21.35	21.29	

3	16QAM	1	0	21.29	21.20	21.14	22.5
3	16QAM	1	8	21.33	21.27	21.23	
3	16QAM	1	14	21.26	21.23	21.11	
3	16QAM	8	0	21.37	21.50	21.42	22.5
3	16QAM	8	4	21.44	21.41	21.47	
3	16QAM	8	7	21.34	21.39	21.42	
3	16QAM	15	0	21.37	21.41	21.36	22.5
3	64QAM	1	0	21.22	21.15	21.18	
3	64QAM	1	8	21.64	21.63	21.23	
3	64QAM	1	14	21.25	21.61	21.25	22.5
3	64QAM	8	0	21.17	21.19	21.03	
3	64QAM	8	4	21.27	21.17	21.17	
3	64QAM	8	7	21.37	21.26	21.12	22.5
3	64QAM	15	0	21.22	21.22	21.20	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	22.47	22.50	22.45	23.5
1.4	QPSK	1	3	22.37	22.35	22.34	
1.4	QPSK	1	5	22.34	22.32	22.30	
1.4	QPSK	3	0	22.34	22.34	22.30	22.5
1.4	QPSK	3	1	22.38	22.35	22.33	
1.4	QPSK	3	3	22.40	22.44	22.33	
1.4	QPSK	6	0	21.43	21.41	21.40	22.5
1.4	16QAM	1	0	21.46	21.46	21.40	
1.4	16QAM	1	3	21.42	21.62	21.60	
1.4	16QAM	1	5	21.30	21.50	21.18	22.5
1.4	16QAM	3	0	21.32	21.37	21.34	
1.4	16QAM	3	1	21.50	21.32	21.37	
1.4	16QAM	3	3	21.52	21.49	21.23	22.5
1.4	16QAM	6	0	21.53	21.46	21.41	
1.4	64QAM	1	0	21.41	21.33	21.36	
1.4	64QAM	1	3	21.43	21.64	21.62	22.5
1.4	64QAM	1	5	21.41	21.76	21.35	
1.4	64QAM	3	0	21.44	21.50	21.51	
1.4	64QAM	3	1	21.53	21.50	21.71	22.5
1.4	64QAM	3	3	21.45	21.59	21.36	
1.4	64QAM	6	0	21.50	21.53	21.42	

3	16QAM	1	0	21.37	21.46	21.50	22.5
3	16QAM	1	8	21.59	21.59	21.33	
3	16QAM	1	14	21.50	21.28	21.36	
3	16QAM	8	0	21.29	21.30	21.39	22.5
3	16QAM	8	4	21.39	21.39	21.40	
3	16QAM	8	7	21.61	21.69	21.73	
3	16QAM	15	0	21.61	21.59	21.66	22.5
3	64QAM	1	0	21.28	21.37	21.35	
3	64QAM	1	8	21.47	21.35	21.51	
3	64QAM	1	14	21.28	21.35	21.18	22.5
3	64QAM	8	0	21.26	21.30	21.24	
3	64QAM	8	4	21.36	21.36	21.40	
3	64QAM	8	7	21.32	21.39	21.51	22.5
3	64QAM	15	0	21.47	21.55	21.46	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	22.52	22.57	22.55	23.5
1.4	QPSK	1	3	22.46	22.46	22.50	
1.4	QPSK	1	5	22.32	22.41	22.43	
1.4	QPSK	3	0	22.40	22.37	22.36	22.5
1.4	QPSK	3	1	22.36	22.46	22.51	
1.4	QPSK	3	3	22.35	22.42	22.41	
1.4	QPSK	6	0	21.51	21.53	21.49	22.5
1.4	16QAM	1	0	21.26	21.73	21.39	
1.4	16QAM	1	3	21.39	21.47	21.51	
1.4	16QAM	1	5	21.45	21.61	21.41	22.5
1.4	16QAM	3	0	21.48	21.52	21.43	
1.4	16QAM	3	1	21.49	21.52	21.54	
1.4	16QAM	3	3	21.48	21.60	21.49	22.5
1.4	16QAM	6	0	21.39	21.40	21.31	
1.4	64QAM	1	0	21.17	21.11	21.25	
1.4	64QAM	1	3	21.43	21.41	21.53	22.5
1.4	64QAM	1	5	21.34	21.30	21.14	
1.4	64QAM	3	0	21.25	21.23	21.42	
1.4	64QAM	3	1	21.16	21.31	21.28	22.5
1.4	64QAM	3	3	21.22	21.39	21.27	
1.4	64QAM	6	0	21.21	21.22	21.29	

Band 5 (Celluar Band) (dBm) Part 22H(only on channel required)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20450	20525	20600	24.5
Frequency (MHz)				829	836.5	844	
10	QPSK	1	0	23.59	23.60	23.52	23.5
10	QPSK	1	25	23.45	23.48	23.28	
10	QPSK	1	49	23.37	23.49	23.17	
10	QPSK	25	0	22.56	22.58	22.39	
10	QPSK	25	12	22.32	22.34	22.39	23.5
10	QPSK	25	25	22.32	22.43	22.48	
10	QPSK	50	0	22.38	22.26	22.40	
10	16QAM	1	0	22.42	22.61	22.32	
10	16QAM	1	25	22.65	22.68	22.36	23.5
10	16QAM	1	49	22.48	22.54	22.61	
10	16QAM	25	0	22.57	22.58	22.40	
10	16QAM	25	12	22.51	22.59	22.37	
10	16QAM	25	25	22.54	22.47	22.50	23.5
10	16QAM	50	0	22.55	22.46	22.36	
10	64QAM	1	0	22.51	22.61	22.49	
10	64QAM	1	25	22.48	22.68	22.48	
10	64QAM	1	49	22.37	22.59	22.50	23.5
10	64QAM	25	0	22.48	22.59	22.26	
10	64QAM	25	12	22.47	22.64	22.35	
10	64QAM	25	25	22.59	22.48	22.18	
10	64QAM	50	0	22.55	22.51	22.37	24.5
Channel				20425	20525	20625	
Frequency (MHz)				826.5	836.5	846.5	24.5
5	QPSK	1	0	23.54	23.50	23.48	
5	QPSK	1	12	23.44	23.55	23.39	23.5
5	QPSK	1	24	23.44	23.39	23.39	
5	QPSK	12	0	22.47	22.52	22.38	
5	QPSK	12	7	22.54	22.55	22.47	
5	QPSK	12	13	22.59	22.43	22.38	23.5
5	QPSK	25	0	22.50	22.46	22.38	
5	16QAM	1	0	22.79	22.72	22.48	
5	16QAM	1	12	22.49	22.71	22.47	
5	16QAM	1	24	22.36	22.71	22.54	23.5
5	16QAM	12	0	22.45	22.54	22.53	
5	16QAM	12	7	22.52	22.55	22.37	
5	16QAM	12	13	22.52	22.43	22.48	
5	16QAM	25	0	22.53	22.58	22.53	23.5
5	64QAM	1	0	22.60	22.48	22.59	
5	64QAM	1	12	22.48	22.42	22.56	
5	64QAM	1	24	22.62	22.46	22.40	
5	64QAM	12	0	22.34	22.48	22.28	23.5
5	64QAM	12	7	22.38	22.54	22.32	
5	64QAM	12	13	22.56	22.51	22.08	
5	64QAM	25	0	22.44	22.51	22.12	
Channel				20415	20525	20635	24.5
Frequency (MHz)				825.5	836.5	847.5	
3	QPSK	1	0	23.53	23.54	23.39	24.5
3	QPSK	1	8	23.49	23.50	23.41	
3	QPSK	1	14	23.50	23.48	23.22	
3	QPSK	8	0	22.40	22.53	22.51	
3	QPSK	8	4	22.54	22.60	22.57	23.5
3	QPSK	8	7	22.49	22.51	22.38	
3	QPSK	15	0	22.47	22.53	22.52	
3	16QAM	1	0	22.49	22.60	22.67	
3	16QAM	1	8	22.42	22.68	22.52	23.5
3	16QAM	1	14	22.47	22.73	22.48	
3	16QAM	8	0	22.43	22.52	22.26	
3	16QAM	8	4	22.59	22.70	22.27	
3	16QAM	8	7	22.51	22.57	22.31	23.5
3	16QAM	15	0	22.45	22.47	22.02	
3	64QAM	1	0	22.40	22.28	22.49	
3	64QAM	1	8	22.28	22.52	22.28	
3	64QAM	1	14	22.30	22.48	22.29	23.5
3	64QAM	8	0	22.40	22.50	22.48	
3	64QAM	8	4	22.62	22.46	22.40	
3	64QAM	8	7	22.57	22.49	22.46	
3	64QAM	15	0	22.46	22.56	22.36	24.5
Channel				20407	20525	20643	
Frequency (MHz)				824.7	836.5	848.3	24.5
1.4	QPSK	1	0	23.54	23.51	23.55	
1.4	QPSK	1	3	23.57	23.50	23.57	24.5
1.4	QPSK	1	5	23.46	23.40	23.41	
1.4	QPSK	3	0	23.47	23.53	23.49	
1.4	QPSK	3	1	23.53	23.40	23.50	23.5
1.4	QPSK	3	3	23.54	23.46	23.46	
1.4	QPSK	6	0	22.45	22.44	22.43	
1.4	16QAM	1	0	22.58	22.39	22.56	
1.4	16QAM	1	3	22.38	22.62	22.51	23.5
1.4	16QAM	1	5	22.77	22.45	22.51	
1.4	16QAM	3	0	22.30	22.28	22.42	
1.4	16QAM	3	1	22.33	22.60	22.46	
1.4	16QAM	3	3	22.41	22.52	22.40	23.5
1.4	16QAM	6	0	22.60	22.47	22.51	
1.4	64QAM	1	0	22.13	22.30	22.32	
1.4	64QAM	1	3	22.44	22.45	22.40	
1.4	64QAM	1	5	22.39	22.38	22.26	23.5
1.4	64QAM	3	0	22.05	22.32	22.33	
1.4	64QAM	3	1	22.33	22.27	22.28	
1.4	64QAM	3	3	22.23	22.40	22.44	
1.4	64QAM	6	0	22.44	22.56	22.45	23.5

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	22.60	22.61	22.53	23.5
20	QPSK	1	49	22.55	22.59	22.48	
20	QPSK	1	99	22.50	22.45	22.50	
20	QPSK	50	0	21.59	21.66	21.63	
20	QPSK	50	24	21.35	21.32	21.22	22.5
20	QPSK	50	50	21.45	21.48	21.45	
20	QPSK	100	0	21.40	21.42	21.39	
20	16QAM	1	0	21.36	21.46	21.64	
20	16QAM	1	49	21.51	21.37	21.65	22.5
20	16QAM	1	99	21.45	21.76	21.41	
20	16QAM	50	0	21.30	21.40	21.33	
20	16QAM	50	24	21.35	21.27	21.38	
20	16QAM	50	50	21.43	21.48	21.31	22.5
20	16QAM	100	0	21.31	21.43	21.41	
20	64QAM	1	0	21.19	21.35	21.37	
20	64QAM	1	49	21.47	21.44	21.49	
20	64QAM	1	99	21.45	21.50	21.41	22.5
20	64QAM	50	0	21.39	21.40	21.45	
20	64QAM	50	24	21.44	21.45	21.45	
20	64QAM	50	50	21.48	21.55	21.40	
20	64QAM	100	0	21.41	21.38	21.50	
Channel				20825	21100	21375	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	22.43	22.52	22.52	23.5
15	QPSK	1	37	22.53	22.50	22.54	
15	QPSK	1	74	22.47	22.54	22.54	
15	QPSK	36	0	21.18	21.27	21.29	
15	QPSK	36	20	21.26	21.33	21.28	22.5
15	QPSK	36	39	21.29	21.32	21.36	
15	QPSK	75	0	21.35	21.28	21.30	
15	16QAM	1	0	21.71	21.82	21.89	
15	16QAM	1	37	21.53	21.64	21.62	22.5
15	16QAM	1	74	21.72	21.72	21.94	
15	16QAM	36	0	21.31	21.42	21.44	
15	16QAM	36	20	21.38	21.41	21.40	
15	16QAM	36	39	21.44	21.42	21.31	22.5
15	16QAM	75	0	21.39	21.47	21.39	
15	64QAM	1	0	21.29	21.26	21.14	
15	64QAM	1	37	21.19	21.34	21.43	
15	64QAM	1	74	21.18	21.30	21.36	22.5
15	64QAM	36	0	21.37	21.45	21.44	
15	64QAM	36	20	21.48	21.47	21.54	
15	64QAM	36	39	21.52	21.43	21.45	
15	64QAM	75	0	21.37	21.47	21.42	
Channel				20800	21100	21400	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	22.42	22.29	22.32	23.5
10	QPSK	1	25	22.45	22.35	22.37	
10	QPSK	1	49	22.38	22.35	22.37	
10	QPSK	25	0	21.25	21.25	21.24	
10	QPSK	25	12	21.21	21.33	21.38	22.5
10	QPSK	25	25	21.14	21.32	21.32	
10	QPSK	50	0	21.23	21.35	21.34	
10	16QAM	1	0	21.48	21.66	21.51	
10	16QAM	1	25	21.47	21.49	21.54	22.5
10	16QAM	1	49	21.94	21.84	21.75	
10	16QAM	25	0	21.37	21.25	21.33	
10	16QAM	25	12	21.19	21.36	21.29	
10	16QAM	25	25	21.24	21.27	21.19	22.5
10	16QAM	50	0	21.27	21.36	21.21	
10	64QAM	1	0	21.29	21.25	21.23	
10	64QAM	1	25	21.32	21.57	21.40	
10	64QAM	1	49	21.43	21.67	21.48	22.5
10	64QAM	25	0	21.29	21.27	21.31	
10	64QAM	25	12	21.31	21.42	21.35	
10	64QAM	25	25	21.24	21.14	21.13	
10	64QAM	50	0	21.18	21.24	21.16	
Channel				20775	21100	21425	Tune-up limit (dBm)
Frequency (MHz)				2502.5	2535	2567.5	
5	QPSK	1	0	22.46	22.37	22.27	23.5
5	QPSK	1	12	22.33	22.26	22.34	
5	QPSK	1	24	22.27	22.33	22.37	
5	QPSK	12	0	21.12	21.20	21.12	
5	QPSK	12	7	21.19	21.34	21.26	22.5
5	QPSK	12	13	21.21	21.37	21.22	
5	QPSK	25	0	21.15	21.16	21.11	
5	16QAM	1	0	21.33	21.31	21.37	
5	16QAM	1	12	21.38	21.60	21.50	22.5
5	16QAM	1	24	21.44	21.63	21.45	
5	16QAM	12	0	21.35	21.41	21.32	
5	16QAM	12	7	21.24	21.26	21.22	
5	16QAM	12	13	21.24	21.30	21.43	22.5
5	16QAM	25	0	21.21	21.26	21.28	
5	64QAM	1	0	21.39	21.44	21.40	
5	64QAM	1	12	21.44	21.56	21.44	
5	64QAM	1	24	21.48	21.58	21.54	22.5
5	64QAM	12	0	21.19	21.16	21.21	
5	64QAM	12	7	21.28	21.33	21.12	
5	64QAM	12	13	21.23	21.32	21.18	
5	64QAM	25	0	21.18	21.17	21.22	

Band 13(700MHz Band) (dBm)							
Part 27F							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				23230			
Frequency (MHz)				782			24.5
10	QPSK	1	0		23.60		
10	QPSK	1	25		23.41		
10	QPSK	1	49		23.41		
10	QPSK	25	0		22.48		23.5
10	QPSK	25	12		22.21		
10	QPSK	25	25		22.25		
10	QPSK	50	0		22.25		
10	16QAM	1	0		22.30		23.5
10	16QAM	1	25		22.61		
10	16QAM	1	49		22.53		
10	16QAM	25	0		22.46		
10	16QAM	25	12		22.43		23.5
10	16QAM	25	25		22.37		
10	16QAM	50	0		22.44		
10	64QAM	1	0		22.45		
10	64QAM	1	25		22.25		23.5
10	64QAM	1	49		22.12		
10	64QAM	25	0		22.44		
10	64QAM	25	12		22.27		
10	64QAM	25	25		22.34		23.5
10	64QAM	50	0		22.43		
Channel				23205	23230	23255	Tune-up limit (dBm)
Frequency (MHz)				779.5	782	784.5	
5	QPSK	1	0	23.42	23.38	23.34	24.5
5	QPSK	1	12	23.41	23.37	23.36	
5	QPSK	1	24	23.33	23.39	23.38	
5	QPSK	12	0	22.23	22.41	22.57	
5	QPSK	12	7	22.35	22.44	22.52	23.5
5	QPSK	12	13	22.18	22.46	22.52	
5	QPSK	25	0	22.21	22.38	22.51	
5	16QAM	1	0	22.69	22.74	22.46	
5	16QAM	1	12	22.86	22.42	22.79	23.5
5	16QAM	1	24	22.70	22.75	22.91	
5	16QAM	12	0	22.14	22.17	22.38	
5	16QAM	12	7	22.14	22.21	22.33	
5	16QAM	12	13	22.05	22.30	22.33	23.5
5	16QAM	25	0	22.15	22.27	22.31	
5	64QAM	1	0	22.21	22.22	22.22	
5	64QAM	1	12	22.25	22.22	22.30	
5	64QAM	1	24	22.30	22.30	22.22	23.5
5	64QAM	12	0	22.36	22.41	22.35	
5	64QAM	12	7	22.23	22.31	22.25	
5	64QAM	12	13	22.08	22.26	22.28	
5	64QAM	25	0	22.05	22.24	22.40	

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	24
20	QPSK	1	0	23.11	23.17	23.15	
20	QPSK	1	49	22.96	22.95	22.91	
20	QPSK	1	99	22.89	22.88	22.91	
20	QPSK	50	0	22.23	22.30	22.26	23
20	QPSK	50	24	22.04	22.06	22.19	
20	QPSK	50	50	22.08	22.16	22.04	
20	QPSK	100	0	22.06	22.06	21.98	
20	16QAM	1	0	22.11	22.35	22.15	23
20	16QAM	1	49	22.16	22.22	22.33	
20	16QAM	1	99	22.16	22.24	22.13	
20	16QAM	50	0	22.28	22.25	22.22	
20	16QAM	50	24	22.17	22.17	22.18	23
20	16QAM	50	50	22.14	22.06	22.02	
20	16QAM	100	0	22.10	22.13	22.19	
20	64QAM	1	0	22.43	22.20	22.53	
20	64QAM	1	49	22.20	22.53	22.52	23
20	64QAM	1	99	22.43	22.55	22.63	
20	64QAM	50	0	22.39	22.29	22.42	
20	64QAM	50	24	22.33	22.27	22.39	
20	64QAM	50	50	22.35	22.23	22.29	23
20	64QAM	100	0	22.34	22.34	22.32	
Channel				132047	132322	132597	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	23.09	23.13	23.11	24
15	QPSK	1	37	23.13	23.09	23.07	
15	QPSK	1	74	23.07	23.03	23.01	
15	QPSK	36	0	22.17	22.14	22.18	
15	QPSK	36	20	22.17	22.09	22.19	23
15	QPSK	36	39	22.03	22.08	22.05	
15	QPSK	75	0	22.12	22.16	22.09	
15	16QAM	1	0	22.11	21.98	22.28	
15	16QAM	1	37	21.98	22.28	22.21	23
15	16QAM	1	74	22.08	21.98	21.98	
15	16QAM	36	0	22.29	22.29	22.20	
15	16QAM	36	20	22.32	22.31	22.37	
15	16QAM	36	39	22.24	22.39	22.33	23
15	16QAM	75	0	22.34	22.32	22.28	
15	64QAM	1	0	22.65	22.55	22.65	
15	64QAM	1	37	22.67	22.45	22.55	
15	64QAM	1	74	22.32	22.58	22.65	23
15	64QAM	36	0	22.44	22.43	22.56	
15	64QAM	36	20	22.54	22.50	22.51	
15	64QAM	36	39	22.43	22.37	22.41	
15	64QAM	75	0	22.45	22.47	22.44	
Channel				132022	132322	132622	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	23.12	23.12	23.13	24
10	QPSK	1	25	23.02	23.00	23.08	
10	QPSK	1	49	23.16	23.04	22.94	
10	QPSK	25	0	22.48	22.41	22.48	
10	QPSK	25	12	22.45	22.64	22.42	23
10	QPSK	25	25	22.41	22.37	22.29	
10	QPSK	50	0	22.49	22.34	22.53	
10	16QAM	1	0	22.41	22.41	22.61	
10	16QAM	1	25	22.41	22.50	22.62	23
10	16QAM	1	49	22.24	22.44	22.32	
10	16QAM	25	0	22.25	22.42	22.30	
10	16QAM	25	12	22.24	22.44	22.35	
10	16QAM	25	25	22.15	22.20	22.20	23
10	16QAM	50	0	22.31	22.35	22.36	
10	64QAM	1	0	22.48	22.48	22.15	
10	64QAM	1	25	22.15	22.28	22.18	
10	64QAM	1	49	22.15	22.15	22.15	23
10	64QAM	25	0	22.48	22.46	22.48	
10	64QAM	25	12	22.47	22.51	22.55	
10	64QAM	25	25	22.47	22.40	22.42	
10	64QAM	50	0	22.37	22.47	22.48	
Channel				131997	132322	132647	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	23.01	23.04	23.09	24
5	QPSK	1	12	23.04	23.04	23.03	
5	QPSK	1	24	23.12	23.02	23.08	
5	QPSK	12	0	22.17	22.19	22.15	
5	QPSK	12	7	22.19	22.27	22.20	23
5	QPSK	12	13	22.05	22.11	22.12	
5	QPSK	25	0	22.15	22.16	22.15	
5	16QAM	1	0	22.64	22.33	22.34	
5	16QAM	1	12	22.27	22.56	22.51	23
5	16QAM	1	24	22.39	22.28	22.63	
5	16QAM	12	0	22.28	22.39	22.35	
5	16QAM	12	7	22.45	22.37	22.49	
5	16QAM	12	13	22.36	22.30	22.37	23
5	16QAM	25	0	22.37	22.39	22.31	
5	64QAM	1	0	22.15	22.55	22.35	
5	64QAM	1	12	22.45	22.45	22.45	
5	64QAM	1	24	22.28	22.32	22.28	23
5	64QAM	12	0	22.52	22.27	22.48	
5	64QAM	12	7	22.60	22.19	22.50	
5	64QAM	12	13	22.43	22.55	22.50	
5	64QAM	25	0	22.50	22.58	22.45	
Channel				131987	132322	132657	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	23.08	22.99	22.98	24
3	QPSK	1	8	22.95	22.96	23.04	
3	QPSK	1	14	22.86	22.67	22.97	
3	QPSK	8	0	22.43	22.40	22.44	
3	QPSK	8	4	22.38	22.30	22.40	23
3	QPSK	8	7	22.24	22.29	22.26	
3	QPSK	15	0	22.33	22.37	22.30	

3	16QAM	1	0	22.02	22.43	22.19	23
3	16QAM	1	8	22.35	22.29	22.28	
3	16QAM	1	14	22.39	22.28	21.98	
3	16QAM	8	0	22.20	22.20	22.11	23
3	16QAM	8	4	22.23	22.22	22.28	
3	16QAM	8	7	22.15	22.30	22.24	
3	16QAM	15	0	22.25	22.23	22.19	
3	64QAM	1	0	22.56	22.46	22.56	23
3	64QAM	1	8	22.58	22.36	22.46	
3	64QAM	1	14	22.23	22.49	22.56	
3	64QAM	8	0	22.35	22.34	22.47	
3	64QAM	8	4	22.45	22.41	22.42	23
3	64QAM	8	7	22.34	22.28	22.32	
3	64QAM	15	0	22.36	22.38	22.35	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	23.02	22.93	22.94	24
1.4	QPSK	1	3	23.08	23.10	23.10	
1.4	QPSK	1	5	23.00	22.88	23.04	
1.4	QPSK	3	0	22.99	22.92	22.99	
1.4	QPSK	3	1	22.96	23.02	22.93	
1.4	QPSK	3	3	22.97	22.93	22.85	
1.4	QPSK	6	0	22.46	22.31	22.50	23
1.4	16QAM	1	0	22.33	22.33	22.53	23
1.4	16QAM	1	3	22.33	22.42	22.54	
1.4	16QAM	1	5	22.16	22.36	22.24	
1.4	16QAM	3	0	22.11	22.08	22.34	
1.4	16QAM	3	1	22.20	22.10	22.22	
1.4	16QAM	3	3	22.21	22.22	22.16	
1.4	16QAM	6	0	22.10	22.01	22.02	23
1.4	64QAM	1	0	22.61	22.46	22.62	23
1.4	64QAM	1	3	22.34	22.43	22.43	
1.4	64QAM	1	5	22.31	22.31	22.42	
1.4	64QAM	3	0	22.40	22.38	22.40	
1.4	64QAM	3	1	22.39	22.43	22.47	
1.4	64QAM	3	3	22.39	22.32	22.34	
1.4	64QAM	6	0	22.29	22.39	22.40	23

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	23.12	23.19	23.16	24
20	QPSK	1	49	23.11	23.13	23.13	
20	QPSK	1	99	23.03	23.09	23.06	
20	QPSK	50	0	22.23	22.45	22.31	23
20	QPSK	50	24	22.16	22.23	22.19	
20	QPSK	50	50	22.20	22.25	22.19	
20	QPSK	100	0	22.08	22.19	22.22	23
20	16QAM	1	0	22.20	22.20	22.13	
20	16QAM	1	49	22.19	21.79	22.19	
20	16QAM	1	99	22.35	22.34	22.45	23
20	16QAM	50	0	22.20	22.34	21.95	
20	16QAM	50	24	22.31	22.13	22.04	
20	16QAM	50	50	22.30	21.94	21.98	23
20	16QAM	100	0	22.31	22.34	22.00	
20	64QAM	1	0	21.47	21.75	21.78	
20	64QAM	1	49	21.47	21.66	21.76	23
20	64QAM	1	99	21.49	21.76	21.80	
20	64QAM	50	0	21.48	21.47	21.36	
20	64QAM	50	24	21.50	21.46	21.45	23
20	64QAM	50	50	21.48	21.25	21.47	
20	64QAM	100	0	21.48	21.44	21.35	
Channel				37825	38000	38175	
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	23.09	23.09	23.10	24
15	QPSK	1	37	23.10	23.02	23.13	
15	QPSK	1	74	22.91	23.13	23.10	
15	QPSK	36	0	22.22	22.47	22.51	23
15	QPSK	36	20	22.36	22.45	22.41	
15	QPSK	36	39	22.43	22.41	22.34	
15	QPSK	75	0	22.31	22.31	22.32	23
15	16QAM	1	0	22.39	22.41	22.31	
15	16QAM	1	37	22.41	22.45	22.13	
15	16QAM	1	74	22.42	22.32	22.12	23
15	16QAM	36	0	22.19	22.15	22.04	
15	16QAM	36	20	22.17	22.31	22.08	
15	16QAM	36	39	22.19	22.21	22.06	23
15	16QAM	75	0	22.15	22.10	22.04	
15	64QAM	1	0	21.61	21.50	21.66	
15	64QAM	1	37	21.49	21.50	21.48	23
15	64QAM	1	74	21.44	21.52	21.69	
15	64QAM	36	0	21.36	21.51	21.44	
15	64QAM	36	20	21.64	21.50	21.38	23
15	64QAM	36	39	21.48	21.48	21.49	
15	64QAM	75	0	21.66	21.48	21.52	
Channel				37800	38000	38200	
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	23.12	23.13	23.13	24
10	QPSK	1	25	23.12	22.92	23.12	
10	QPSK	1	49	23.06	23.08	23.11	
10	QPSK	25	0	22.21	22.07	22.07	23
10	QPSK	25	12	22.41	22.37	22.08	
10	QPSK	25	25	22.42	22.44	22.04	
10	QPSK	50	0	22.43	22.35	22.07	23
10	16QAM	1	0	22.29	22.06	22.37	
10	16QAM	1	25	22.17	22.07	22.47	
10	16QAM	1	49	22.54	22.10	22.19	23
10	16QAM	25	0	22.04	22.15	22.11	
10	16QAM	25	12	22.34	22.04	22.17	
10	16QAM	25	25	22.04	22.18	22.23	23
10	16QAM	50	0	22.16	22.20	22.12	
10	64QAM	1	0	21.51	21.54	21.47	
10	64QAM	1	25	21.42	21.67	21.57	23
10	64QAM	1	49	21.78	21.52	21.57	
10	64QAM	25	0	21.37	21.37	21.47	
10	64QAM	25	12	21.37	21.57	21.58	23
10	64QAM	25	25	21.33	21.53	21.49	
10	64QAM	50	0	21.39	21.55	21.45	
Channel				37775	38000	38225	
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	23.07	23.08	23.11	24
5	QPSK	1	12	22.92	23.13	23.11	
5	QPSK	1	24	22.92	22.91	22.90	
5	QPSK	12	0	22.34	22.82	22.41	23
5	QPSK	12	7	22.48	22.47	22.47	
5	QPSK	12	13	22.36	22.38	22.40	
5	QPSK	25	0	22.40	22.41	22.07	23
5	16QAM	1	0	22.58	22.69	22.59	
5	16QAM	1	12	22.19	22.37	22.07	
5	16QAM	1	24	22.19	22.20	22.19	23
5	16QAM	12	0	22.20	22.25	22.19	
5	16QAM	12	7	22.19	22.21	22.19	
5	16QAM	12	13	22.10	22.22	22.19	23
5	16QAM	25	0	22.37	22.09	22.27	
5	64QAM	1	0	21.48	21.81	21.42	
5	64QAM	1	12	21.75	21.75	21.82	23
5	64QAM	1	24	21.75	21.75	21.72	
5	64QAM	12	0	21.43	21.55	21.51	
5	64QAM	12	7	21.52	21.53	21.44	23
5	64QAM	12	13	21.51	21.54	21.41	
5	64QAM	25	0	21.55	21.57	21.48	

Band 41 (2535~2655MHz) (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				40140	40390	40640	40890	41140	
Frequency (MHz)				2545	2570	2595	2620	2645	
20	QPSK	1	0	23.02	23.12	23.14	23.07	23.08	
20	QPSK	1	49	22.98	23.07	23.07	23.08	23.08	24
20	QPSK	1	99	22.92	23.08	23.03	23.13	22.88	
20	QPSK	50	0	22.18	22.20	22.24	22.22	22.17	
20	QPSK	50	24	22.18	22.16	22.01	21.98	21.98	23
20	QPSK	50	50	22.21	22.14	22.06	22.05	22.12	
20	QPSK	100	0	22.18	22.21	22.12	22.06	22.02	
20	16QAM	1	0	22.22	22.38	22.05	22.12	22.02	23
20	16QAM	1	49	22.21	22.26	22.05	22.00	22.02	
20	16QAM	1	99	22.28	22.18	22.12	22.10	22.12	
20	16QAM	50	0	22.19	22.28	22.05	22.35	22.02	23
20	16QAM	50	24	22.17	22.49	22.02	22.12	22.02	
20	16QAM	50	50	22.23	22.55	22.48	22.09	22.12	
20	16QAM	100	0	22.17	22.48	22.43	22.12	22.01	23
20	64QAM	1	0	22.60	22.51	22.51	22.34	22.30	
20	64QAM	1	49	22.53	22.63	22.33	22.62	22.30	
20	64QAM	1	99	22.43	22.38	22.29	22.38	22.26	23
20	64QAM	50	0	22.39	22.35	22.32	22.27	22.36	
20	64QAM	50	24	22.24	22.51	22.39	22.36	22.29	
20	64QAM	50	50	22.34	22.50	22.53	22.42	22.35	23
20	64QAM	100	0	22.32	22.60	22.56	22.24	22.36	
Channel				40115	40378	40640	40903	41165	Tune-up limit (dBm)
Frequency (MHz)				2542.5	2568.8	2595	2621.3	2647.5	
15	QPSK	1	0	22.68	22.84	23.04	22.91	22.90	
15	QPSK	1	37	22.67	23.02	23.08	22.91	23.01	24
15	QPSK	1	74	22.67	23.00	23.01	22.84	22.81	
15	QPSK	36	0	21.84	22.18	22.03	22.23	22.84	
15	QPSK	36	20	22.09	22.23	22.03	22.19	22.91	23
15	QPSK	36	39	22.25	22.26	22.02	22.22	22.86	
15	QPSK	75	0	22.03	22.28	22.05	22.25	22.83	
15	16QAM	1	0	21.97	22.09	22.42	22.03	22.22	23
15	16QAM	1	37	22.18	22.26	21.99	22.09	22.23	
15	16QAM	1	74	22.14	22.18	21.56	21.93	21.85	
15	16QAM	36	0	22.01	22.25	21.96	22.12	22.30	23
15	16QAM	36	20	22.06	22.19	21.92	22.08	22.32	
15	16QAM	36	39	22.13	22.32	22.42	22.12	22.08	
15	16QAM	75	0	22.04	22.33	21.90	22.12	21.68	23
15	64QAM	1	0	22.42	22.32	22.56	22.20	22.70	
15	64QAM	1	37	22.70	22.46	22.70	22.33	21.82	
15	64QAM	1	74	22.67	22.39	22.49	22.67	21.55	23
15	64QAM	36	0	22.11	22.45	22.27	22.41	22.19	
15	64QAM	36	20	22.26	22.56	22.71	22.34	22.20	
15	64QAM	36	39	22.21	22.55	22.68	22.40	22.29	23
15	64QAM	75	0	22.19	22.56	22.68	22.44	22.21	
Channel				40090	40365	40640	40915	41190	Tune-up limit (dBm)
Frequency (MHz)				2540	2567.5	2595	2622.5	2650	
10	QPSK	1	0	22.72	22.93	23.01	22.89	22.88	
10	QPSK	1	25	22.92	22.98	22.88	22.84	22.83	24
10	QPSK	1	49	22.69	22.85	23.08	23.08	22.84	
10	QPSK	25	0	22.00	22.43	22.31	22.27	22.08	
10	QPSK	25	12	22.08	22.42	22.20	22.27	22.08	23
10	QPSK	25	25	22.12	22.51	22.15	22.31	22.44	
10	QPSK	50	0	22.17	22.55	22.23	22.29	21.68	
10	16QAM	1	0	22.03	21.94	22.09	22.34	21.88	23
10	16QAM	1	25	22.21	22.03	22.24	22.17	21.92	
10	16QAM	1	49	22.07	21.99	22.16	22.30	22.07	
10	16QAM	25	0	22.07	22.02	22.30	22.48	21.73	23
10	16QAM	25	12	22.20	21.99	22.16	22.42	21.49	
10	16QAM	25	25	22.17	22.06	22.28	22.55	22.00	
10	16QAM	50	0	22.15	21.98	22.22	22.40	21.76	23
10	64QAM	1	0	22.05	22.41	22.01	22.35	22.41	
10	64QAM	1	25	22.08	22.53	22.18	22.40	22.36	
10	64QAM	1	49	22.06	22.42	22.05	22.31	22.17	23
10	64QAM	25	0	22.13	22.56	22.26	22.44	22.33	
10	64QAM	25	12	22.16	22.53	22.15	22.44	22.08	
10	64QAM	25	25	22.25	22.57	22.24	22.41	22.31	23
10	64QAM	50	0	22.21	22.54	22.29	22.50	22.37	
Channel				40085	40353	40640	40928	41215	Tune-up limit (dBm)
Frequency (MHz)				2537.5	2566.3	2595	2623.80	2652.5	
5	QPSK	1	0	22.81	22.78	23.01	22.98	22.79	
5	QPSK	1	12	22.80	22.93	22.88	23.01	22.83	24
5	QPSK	1	24	22.93	22.84	22.98	22.71	22.84	
5	QPSK	12	0	22.02	22.16	22.20	22.29	22.00	
5	QPSK	12	7	22.10	22.29	22.53	22.35	22.22	23
5	QPSK	12	13	22.04	22.29	22.27	22.41	22.28	
5	QPSK	25	0	22.07	22.30	22.28	22.43	22.21	
5	16QAM	1	0	22.31	22.13	22.29	21.96	22.12	23
5	16QAM	1	12	21.92	22.30	22.46	22.14	22.02	
5	16QAM	1	24	21.78	22.16	22.27	21.99	22.28	
5	16QAM	12	0	21.96	21.91	22.13	22.11	22.08	23
5	16QAM	12	7	22.08	21.86	22.23	22.22	22.21	
5	16QAM	12	13	22.14	21.99	22.13	22.15	22.00	
5	16QAM	25	0	22.49	22.48	22.20	22.29	22.37	23
5	64QAM	1	0	22.61	22.46	22.73	22.28	22.31	
5	64QAM	1	12	22.61	22.47	22.66	22.37	22.27	
5	64QAM	1	24	22.46	22.32	22.59	22.23	22.60	23
5	64QAM	12	0	22.41	22.50	22.19	22.31	22.27	
5	64QAM	12	7	22.42	22.12	22.41	22.49	22.35	
5	64QAM	12	13	22.40	22.11	22.20	22.37	22.26	23
5	64QAM	25	0	22.14	22.11	22.26	22.46	22.08	

2.4GHz WLAN ANT 1

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	16.87	18.50	16.00	100.00
		CH 6	2437	16.31	18.00	17.00	
		CH 11	2462	16.19	18.00	16.00	
	802.11g 6Mbps	CH 1	2412	11.40	13.00	12.00	98.57
		CH 6	2437	15.72	17.50	16.00	
		CH 11	2462	11.75	13.50	10.00	
	802.11n-HT20 MCS0	CH 1	2412	12.14	14.00	12.00	97.97
		CH 6	2437	14.53	16.50	15.00	
		CH 11	2462	10.75	12.50	10.00	

Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
BR / EDR	CH 00	2402	6.06	3.66	3.68
	CH 39	2441	7.05	3.20	3.17
	CH 78	2480	5.62	3.20	3.15
Tune-up Limit			9	5	5
Duty Cycle %			77.2	77.2	76.8

Mode	Channel	Frequency (MHz)	Average power (dBm)
			GFSK
LE	CH 00	2402	0.39
	CH 19	2440	0.21
	CH 39	2480	0.24
Tune-up Limit			2
Duty Cycle %			62.81

Reduced Power

GSM1900		Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)	Ch Delta > 0.5
TX Channel		512	661	810		512	661	810		
Frequency (MHz)		1850.2	1880	1909.8		1850.2	1880	1909.8		
GSM 1 Tx slot		28.52	28.62	28.53	29.50	19.52	19.62	19.53	20.50	0.11
GPRS 1 Tx slot		28.54	28.63	28.55	29.50	19.54	19.63	19.55	20.50	
GPRS 2 Tx slots		26.48	26.59	26.45	27.50	20.48	20.59	20.45	21.50	0.14
GPRS 3 Tx slots		24.60	24.58	24.56	25.50	20.34	20.32	20.30	21.24	0.04
GPRS 4 Tx slots		22.55	22.61	22.54	23.50	19.55	19.61	19.54	20.50	0.07
EDGE 1 Tx slot		25.24	25.25	25.21	26.00	16.24	16.25	16.21	17.00	0.04
EDGE 2 Tx slots		23.42	23.36	23.26	24.00	17.42	17.36	17.26	18.00	0.16
EDGE 3 Tx slots		21.02	21.05	21.07	22.00	16.76	16.79	16.81	17.74	0.05
EDGE 4 Tx slots		19.11	19.22	19.15	20.00	16.11	16.22	16.15	17.00	0.11
Mode			Max.	28.63			Max.	20.59		
Attenuator		Cable Loss : 0.8								

Band		WCDMA Band II (dBm)			Tune-up Limit (dBm)	WCDMA Band IV (dBm)			Tune-up Limit (dBm)
TX Channel		9262	9400	9538		1312	1413	1513	
Rx Channel		9662	9800	9938		1537	1638	1738	
Frequency (MHz)		1852.4	1880	1907.6		1712.4	1732.6	1752.6	
3GPP Rel 99	RMC 12.2Kbps	20.24	20.36	20.21	21.00	21.06	21.11	21.04	22.00
3GPP Rel 6	HSDPA Subtest-1	19.93	19.85	19.90	20.50	20.70	20.69	20.65	21.50
3GPP Rel 6	HSDPA Subtest-2	19.66	19.54	19.56	20.50	20.74	20.65	20.64	21.50
3GPP Rel 6	HSDPA Subtest-3	19.75	19.68	19.77	20.50	20.72	20.61	20.59	21.50
3GPP Rel 6	HSDPA Subtest-4	19.43	19.35	19.42	20.50	20.75	20.62	20.62	21.50
3GPP Rel 8	DC-HSDPA Subtest-1	19.86	19.82	19.88	20.50	20.42	20.43	20.30	21.50
3GPP Rel 8	DC-HSDPA Subtest-2	19.85	19.81	19.86	20.50	20.45	20.41	20.35	21.50
3GPP Rel 8	DC-HSDPA Subtest-3	19.81	19.80	19.84	20.50	20.45	20.40	20.37	21.50
3GPP Rel 8	DC-HSDPA Subtest-4	19.83	19.81	19.85	20.50	20.46	20.40	20.38	21.50
3GPP Rel 6	HSUPA Subtest-1	19.81	19.73	19.85	20.50	20.60	20.56	20.57	21.50
3GPP Rel 6	HSUPA Subtest-2	19.82	19.69	19.83	20.50	20.57	20.58	20.55	21.50
3GPP Rel 6	HSUPA Subtest-3	19.77	19.79	19.80	20.50	20.57	20.51	20.55	21.50
3GPP Rel 6	HSUPA Subtest-4	19.81	19.70	19.80	20.50	20.51	20.55	20.50	21.50
3GPP Rel 6	HSUPA Subtest-5	19.79	19.77	19.79	20.50	20.56	20.52	20.55	21.50
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	19.73	19.81	19.78	20.50	20.55	20.38	20.45	21.50
Attenuator			Cable Loss	0.8			Cable Loss	0.8	
Mode			Max.	20.36			Max.	21.11	

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	Tune-up limit (dBm)
Frequency (MHz)				18660	18860	19060	
20	QPSK	1	0	19.12	19.15	19.09	20
20	QPSK	1	49	19.10	19.04	18.97	
20	QPSK	1	99	19.04	19.00	18.96	
20	QPSK	50	0	18.08	18.17	18.10	
20	QPSK	50	24	18.09	18.14	18.14	19
20	QPSK	50	50	18.14	18.10	18.16	
20	QPSK	100	0	18.07	18.16	18.12	
20	16QAM	1	0	17.81	17.81	17.83	
20	16QAM	1	49	17.65	17.95	17.91	19
20	16QAM	1	99	17.90	17.75	18.15	
20	16QAM	50	0	17.83	17.80	17.78	
20	16QAM	50	24	17.79	17.84	17.85	
20	16QAM	50	50	17.87	17.84	17.91	19
20	16QAM	100	0	17.90	17.91	17.78	
20	64QAM	1	0	17.97	18.16	17.90	
20	64QAM	1	49	17.92	18.10	18.01	
20	64QAM	1	99	17.87	18.20	18.20	19
20	64QAM	50	0	17.97	17.89	17.94	
20	64QAM	50	24	18.00	17.94	17.99	
20	64QAM	50	50	17.99	18.00	17.94	
20	64QAM	100	0	17.87	17.84	17.85	Tune-up limit (dBm)
Channel				18675	18900	19125	
Frequency (MHz)				1857.5	1880	1902.5	Tune-up limit (dBm)
15	QPSK	1	0	18.93	18.96	18.87	
15	QPSK	1	37	18.72	19.08	18.96	20
15	QPSK	1	74	19.09	19.01	19.09	
15	QPSK	36	0	18.06	18.15	18.14	
15	QPSK	36	20	17.73	17.92	17.89	
15	QPSK	36	39	17.85	17.86	17.83	19
15	QPSK	75	0	17.77	17.83	17.79	
15	16QAM	1	0	17.86	17.94	17.88	
15	16QAM	1	37	17.99	18.02	17.88	
15	16QAM	1	74	17.94	18.06	18.06	19
15	16QAM	36	0	17.73	17.78	17.81	
15	16QAM	36	20	17.82	17.75	17.88	
15	16QAM	36	39	17.87	17.96	17.93	
15	16QAM	75	0	17.74	17.76	17.85	19
15	64QAM	1	0	17.94	17.70	17.76	
15	64QAM	1	37	17.93	17.74	18.16	
15	64QAM	1	74	17.82	17.86	18.01	
15	64QAM	36	0	17.67	17.84	17.72	19
15	64QAM	36	20	17.87	17.89	17.79	
15	64QAM	36	39	17.75	17.80	17.89	
15	64QAM	75	0	17.74	17.81	17.80	
Channel				18650	18900	19150	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	18.97	18.96	19.06	20
10	QPSK	1	25	19.01	19.04	18.99	
10	QPSK	1	49	18.97	18.98	18.97	
10	QPSK	25	0	18.24	18.25	18.21	
10	QPSK	25	12	18.20	18.32	18.25	19
10	QPSK	25	25	18.11	18.24	18.20	
10	QPSK	50	0	17.85	17.94	17.92	
10	16QAM	1	0	18.33	18.26	18.25	
10	16QAM	1	25	18.02	17.98	18.05	19
10	16QAM	1	49	17.97	18.05	17.84	
10	16QAM	25	0	17.87	17.86	17.83	
10	16QAM	25	12	18.03	17.83	17.83	
10	16QAM	25	25	17.83	18.03	18.13	19
10	16QAM	50	0	17.72	17.65	17.69	
10	64QAM	1	0	17.91	17.96	17.96	
10	64QAM	1	25	17.94	17.99	18.03	
10	64QAM	1	49	17.61	17.74	17.71	19
10	64QAM	25	0	17.91	17.95	17.96	
10	64QAM	25	12	17.94	17.92	17.93	
10	64QAM	25	25	17.87	17.65	17.87	
10	64QAM	50	0	17.88	17.88	17.85	Tune-up limit (dBm)
Channel				18625	18900	19175	
Frequency (MHz)				1852.5	1880	1907.5	Tune-up limit (dBm)
5	QPSK	1	0	18.97	19.02	18.96	
5	QPSK	1	12	18.96	18.91	18.94	20
5	QPSK	1	24	18.92	19.00	19.01	
5	QPSK	12	0	18.09	18.00	18.07	
5	QPSK	12	7	18.10	18.15	18.07	19
5	QPSK	12	13	17.77	17.76	17.79	
5	QPSK	25	0	17.76	17.74	17.76	
5	16QAM	1	0	17.89	17.79	18.17	
5	16QAM	1	12	17.87	17.80	18.17	19
5	16QAM	1	24	17.90	17.77	18.16	
5	16QAM	12	0	17.99	18.13	17.99	
5	16QAM	12	7	17.89	17.89	17.69	
5	16QAM	12	13	17.69	18.02	17.79	19
5	16QAM	25	0	17.79	18.25	18.23	
5	64QAM	1	0	17.99	17.71	17.76	
5	64QAM	1	12	18.15	17.81	17.92	
5	64QAM	1	24	18.16	17.80	17.82	19
5	64QAM	12	0	17.81	17.74	17.73	
5	64QAM	12	7	17.87	17.71	17.71	
5	64QAM	12	13	17.84	17.80	17.78	
5	64QAM	25	0	17.91	17.71	17.78	Tune-up limit (dBm)
Channel				18615	18900	19185	
Frequency (MHz)				1851.5	1880	1908.5	Tune-up limit (dBm)
3	QPSK	1	0	18.91	18.98	18.90	
3	QPSK	1	8	19.01	19.04	18.87	20
3	QPSK	1	14	19.02	18.89	18.89	
3	QPSK	8	0	17.97	17.92	17.94	
3	QPSK	8	4	18.03	17.97	17.98	
3	QPSK	8	7	18.03	17.97	17.93	19
3	QPSK	15	0	17.63	17.71	17.64	

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	Tune-up limit (dBm)
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	21.06	21.14	21.13	22
20	QPSK	1	49	20.92	21.00	20.99	
20	QPSK	1	99	20.84	20.97	21.09	
20	QPSK	50	0	20.03	20.07	20.04	
20	QPSK	50	24	19.94	20.02	20.02	21
20	QPSK	50	50	19.93	19.94	19.95	
20	QPSK	100	0	19.93	19.97	20.04	
20	16QAM	1	0	19.80	20.10	19.97	
20	16QAM	1	49	19.95	19.72	19.86	21
20	16QAM	1	99	19.74	19.96	19.80	
20	16QAM	50	0	19.93	19.86	20.00	
20	16QAM	50	24	20.19	20.30	20.19	
20	16QAM	50	50	20.15	20.16	20.16	21
20	16QAM	100	0	20.17	20.25	20.26	
20	64QAM	1	0	19.91	20.02	20.24	
20	64QAM	1	49	19.95	19.88	19.76	
20	64QAM	1	99	20.22	19.79	20.26	21
20	64QAM	50	0	19.92	20.01	19.96	
20	64QAM	50	24	19.94	20.05	19.99	
20	64QAM	50	50	19.98	19.93	19.95	
20	64QAM	100	0	20.01	19.99	20.08	Tune-up limit (dBm)
Channel				20025	20175	20325	
Frequency (MHz)				1717.5	1732.5	1747.5	Tune-up limit (dBm)
15	QPSK	1	0	20.93	20.97	21.07	
15	QPSK	1	37	20.97	21.06	20.98	22
15	QPSK	1	74	20.84	21.06	21.09	
15	QPSK	36	0	19.88	19.95	19.98	
15	QPSK	36	20	19.92	20.05	20.01	
15	QPSK	36	39	19.97	19.96	20.05	21
15	QPSK	75	0	19.92	19.94	19.95	
15	16QAM	1	0	19.86	20.08	19.80	
15	16QAM	1	37	19.94	19.94	19.78	
15	16QAM	1	74	19.80	20.10	19.89	21
15	16QAM	36	0	19.81	19.83	20.02	
15	16QAM	36	20	19.76	19.83	19.89	
15	16QAM	36	39	19.72	19.81	19.87	
15	16QAM	75	0	19.83	19.84	19.93	21
15	64QAM	1	0	19.78	20.09	20.14	
15	64QAM	1	37	20.20	19.96	20.02	
15	64QAM	1	74	20.24	19.95	19.99	
15	64QAM	36	0	19.89	19.96	20.00	21
15	64QAM	36	20	19.95	19.97	19.99	
15	64QAM	36	39	19.98	19.94	19.96	
15	64QAM	75	0	19.91	20.02	19.95	
Channel				20000	20175	20350	Tune-up limit (dBm)
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	21.05	21.04	20.87	22
10	QPSK	1	25	21.03	20.96	20.97	
10	QPSK	1	49	20.91	20.74	20.97	
10	QPSK	25	0	19.90	20.12	20.14	
10	QPSK	25	12	20.02	20.08	20.12	21</

3	16QAM	1	0	17.79	17.70	17.64	19
3	16QAM	1	8	17.83	17.77	17.73	
3	16QAM	1	14	17.76	17.73	17.61	
3	16QAM	8	0	17.87	18.00	17.92	19
3	16QAM	8	4	17.94	17.91	17.97	
3	16QAM	8	7	17.84	17.89	17.92	
3	16QAM	15	0	17.87	17.91	17.86	19
3	64QAM	1	0	17.72	17.65	17.68	
3	64QAM	1	8	18.14	18.13	17.73	
3	64QAM	1	14	17.75	18.11	17.75	19
3	64QAM	8	0	17.67	17.69	17.53	
3	64QAM	8	4	17.77	17.67	17.67	
3	64QAM	8	7	17.87	17.76	17.62	19
3	64QAM	15	0	17.72	17.72	17.70	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	18.97	19.00	18.95	20
1.4	QPSK	1	3	18.87	18.85	18.84	
1.4	QPSK	1	5	18.84	18.82	18.80	
1.4	QPSK	3	0	18.84	18.84	18.80	
1.4	QPSK	3	1	18.88	18.85	18.83	
1.4	QPSK	3	3	18.90	18.94	18.83	
1.4	QPSK	6	0	17.93	17.91	17.90	19
1.4	16QAM	1	0	17.96	17.96	17.90	19
1.4	16QAM	1	3	17.92	18.12	18.10	
1.4	16QAM	1	5	17.80	18.00	17.68	
1.4	16QAM	3	0	17.82	17.87	17.84	
1.4	16QAM	3	1	18.00	17.82	17.87	
1.4	16QAM	3	3	18.02	17.99	17.73	
1.4	16QAM	6	0	18.03	17.96	17.91	19
1.4	64QAM	1	0	17.91	17.83	17.86	19
1.4	64QAM	1	3	17.93	18.14	18.02	
1.4	64QAM	1	5	17.91	18.26	17.85	
1.4	64QAM	3	0	17.94	18.00	18.01	
1.4	64QAM	3	1	18.03	18.00	18.21	
1.4	64QAM	3	3	17.95	18.09	17.86	
1.4	64QAM	6	0	18.00	18.03	17.92	19

3	16QAM	1	0	19.87	19.96	20.00	21
3	16QAM	1	8	20.09	20.09	19.83	
3	16QAM	1	14	20.00	19.78	19.86	
3	16QAM	8	0	19.79	19.80	19.89	21
3	16QAM	8	4	19.89	19.89	19.90	
3	16QAM	8	7	20.11	20.19	20.23	
3	16QAM	15	0	20.11	20.09	20.16	21
3	64QAM	1	0	19.78	19.87	19.85	
3	64QAM	1	8	19.97	19.85	20.01	
3	64QAM	1	14	19.78	19.85	19.68	21
3	64QAM	8	0	19.76	19.80	19.74	
3	64QAM	8	4	19.86	19.86	19.90	
3	64QAM	8	7	19.82	19.89	20.01	21
3	64QAM	15	0	19.97	20.05	19.96	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	21.02	21.07	21.05	22
1.4	QPSK	1	3	20.96	20.96	21.00	
1.4	QPSK	1	5	20.82	20.91	20.93	
1.4	QPSK	3	0	20.90	20.87	20.86	
1.4	QPSK	3	1	20.86	20.96	21.01	
1.4	QPSK	3	3	20.85	20.92	20.91	
1.4	QPSK	6	0	20.01	20.03	19.99	21
1.4	16QAM	1	0	19.76	20.23	19.89	21
1.4	16QAM	1	3	19.89	19.97	20.01	
1.4	16QAM	1	5	19.95	20.11	19.91	
1.4	16QAM	3	0	19.98	20.02	19.93	
1.4	16QAM	3	1	19.99	20.02	20.04	
1.4	16QAM	3	3	19.98	20.10	19.99	
1.4	16QAM	6	0	19.89	19.90	19.81	21
1.4	64QAM	1	0	19.67	19.61	19.75	21
1.4	64QAM	1	3	19.93	19.91	20.03	
1.4	64QAM	1	5	19.84	19.80	19.64	
1.4	64QAM	3	0	19.75	19.73	19.92	
1.4	64QAM	3	1	19.66	19.81	19.78	
1.4	64QAM	3	3	19.72	19.89	19.77	
1.4	64QAM	6	0	19.71	19.72	19.79	21

Band 66 (dBm)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				132072	132322	132572	Tune-up limit (dBm)
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	20.61	20.67	20.65	21.5
20	QPSK	1	49	20.46	20.45	20.41	
20	QPSK	1	99	20.39	20.38	20.41	
20	QPSK	50	0	19.73	19.80	19.76	20.5
20	QPSK	50	24	19.54	19.56	19.69	
20	QPSK	50	50	19.58	19.66	19.54	
20	QPSK	100	0	19.56	19.56	19.48	20.5
20	16QAM	1	0	19.61	19.85	19.65	
20	16QAM	1	49	19.66	19.72	19.83	
20	16QAM	1	99	19.66	19.84	19.63	20.5
20	16QAM	50	0	19.78	19.75	19.72	
20	16QAM	50	24	19.67	19.67	19.68	
20	16QAM	50	50	19.64	19.56	19.52	20.5
20	16QAM	100	0	19.60	19.63	19.69	
20	64QAM	1	0	19.93	19.70	20.03	20.5
20	64QAM	1	49	19.70	20.03	20.02	
20	64QAM	1	99	19.93	20.05	20.13	
20	64QAM	50	0	19.89	19.79	19.92	20.5
20	64QAM	50	24	19.83	19.77	19.89	
20	64QAM	50	50	19.85	19.73	19.79	
20	64QAM	100	0	19.84	19.84	19.82	
Channel				132047	132322	132597	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	20.59	20.63	20.61	21.5
15	QPSK	1	37	20.63	20.59	20.57	
15	QPSK	1	74	20.57	20.53	20.51	
15	QPSK	36	0	19.67	19.64	19.68	20.5
15	QPSK	36	20	19.67	19.59	19.69	
15	QPSK	36	39	19.53	19.58	19.55	
15	QPSK	75	0	19.62	19.66	19.59	20.5
15	16QAM	1	0	19.61	19.48	19.78	
15	16QAM	1	37	19.48	19.78	19.71	
15	16QAM	1	74	19.58	19.48	19.48	20.5
15	16QAM	36	0	19.79	19.79	19.70	
15	16QAM	36	20	19.82	19.61	19.87	
15	16QAM	36	39	19.74	19.89	19.83	20.5
15	16QAM	75	0	19.84	19.82	19.78	
15	64QAM	1	0	20.15	20.05	20.15	
15	64QAM	1	37	20.17	19.95	20.05	20.5
15	64QAM	1	74	19.82	20.08	20.15	
15	64QAM	36	0	19.94	19.93	20.06	20.5
15	64QAM	36	20	20.04	20.00	20.01	
15	64QAM	36	39	19.93	19.87	19.91	
15	64QAM	75	0	19.95	19.97	19.94	
Channel				132022	132322	132622	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	20.62	20.62	20.63	21.5
10	QPSK	1	25	20.52	20.50	20.58	
10	QPSK	1	49	20.66	20.54	20.44	
10	QPSK	25	0	19.98	19.91	19.98	20.5
10	QPSK	25	12	19.95	20.14	19.92	
10	QPSK	25	25	19.91	19.87	19.79	
10	QPSK	50	0	19.99	19.84	20.03	20.5
10	16QAM	1	0	19.91	19.91	20.11	
10	16QAM	1	25	19.91	20.00	20.12	
10	16QAM	1	49	19.74	19.94	19.82	20.5
10	16QAM	25	0	19.75	19.92	19.80	
10	16QAM	25	12	19.74	19.94	19.85	
10	16QAM	25	25	19.65	19.70	19.70	20.5
10	16QAM	50	0	19.81	19.85	19.86	
10	64QAM	1	0	19.98	19.98	19.65	
10	64QAM	1	25	19.65	19.78	19.68	20.5
10	64QAM	1	49	19.65	19.65	19.65	
10	64QAM	25	0	19.98	19.96	19.98	
10	64QAM	25	12	19.97	20.01	20.05	20.5
10	64QAM	25	25	19.97	19.90	19.92	
10	64QAM	50	0	19.87	19.97	19.98	
Channel				131997	132322	132647	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	20.51	20.54	20.59	21.5
5	QPSK	1	12	20.54	20.54	20.53	
5	QPSK	1	24	20.62	20.52	20.58	
5	QPSK	12	0	19.67	19.69	19.65	20.5
5	QPSK	12	7	19.69	19.77	19.70	
5	QPSK	12	13	19.55	19.61	19.62	
5	QPSK	25	0	19.65	19.66	19.65	20.5
5	16QAM	1	0	20.14	19.83	19.84	
5	16QAM	1	12	19.77	20.06	20.01	
5	16QAM	1	24	19.89	19.78	20.13	20.5
5	16QAM	12	0	19.78	19.89	19.85	
5	16QAM	12	7	19.95	19.87	19.99	
5	16QAM	12	13	19.86	19.80	19.87	20.5
5	16QAM	25	0	19.87	19.89	19.81	
5	64QAM	1	0	19.65	20.05	19.85	
5	64QAM	1	12	19.95	19.95	19.95	20.5
5	64QAM	1	24	19.78	19.82	19.78	
5	64QAM	12	0	20.02	19.77	19.98	
5	64QAM	12	7	20.10	19.69	20.00	20.5
5	64QAM	12	13	19.93	20.05	20.00	
5	64QAM	25	0	20.00	20.08	19.95	
Channel				131987	132322	132657	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	20.58	20.49	20.48	21.5
3	QPSK	1	8	20.45	20.46	20.54	
3	QPSK	1	14	20.36	20.17	20.47	
3	QPSK	8	0	19.93	19.90	19.94	20.5
3	QPSK	8	4	19.88	19.80	19.90	
3	QPSK	8	7	19.74	19.79	19.76	
3	QPSK	15	0	19.83	19.87	19.80	

3	16QAM	1	0	19.52	19.93	19.69	20.5
3	16QAM	1	8	19.85	19.79	19.78	
3	16QAM	1	14	19.89	19.78	19.48	
3	16QAM	8	0	19.70	19.70	19.61	20.5
3	16QAM	8	4	19.73	19.72	19.78	
3	16QAM	8	7	19.65	19.80	19.74	
3	16QAM	15	0	19.75	19.73	19.69	20.5
3	64QAM	1	0	20.06	19.96	20.06	
3	64QAM	1	8	20.08	19.86	19.96	
3	64QAM	1	14	19.73	19.99	20.06	20.5
3	64QAM	8	0	19.85	19.84	19.97	
3	64QAM	8	4	19.95	19.91	19.92	
3	64QAM	8	7	19.84	19.78	19.82	20.5
3	64QAM	15	0	19.86	19.88	19.85	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	20.52	20.43	20.44	21.5
1.4	QPSK	1	3	20.58	20.60	20.60	
1.4	QPSK	1	5	20.50	20.38	20.54	
1.4	QPSK	3	0	20.49	20.42	20.49	
1.4	QPSK	3	1	20.46	20.52	20.43	
1.4	QPSK	3	3	20.47	20.43	20.35	20.5
1.4	QPSK	6	0	19.96	19.81	20.00	
1.4	16QAM	1	0	19.83	19.83	20.03	20.5
1.4	16QAM	1	3	19.83	19.92	20.04	
1.4	16QAM	1	5	19.66	19.86	19.74	
1.4	16QAM	3	0	19.61	19.58	19.84	
1.4	16QAM	3	1	19.70	19.60	19.72	
1.4	16QAM	3	3	19.71	19.72	19.66	20.5
1.4	16QAM	6	0	19.60	19.51	19.52	
1.4	64QAM	1	0	20.11	19.96	20.12	20.5
1.4	64QAM	1	3	19.84	19.93	19.93	
1.4	64QAM	1	5	19.81	19.81	19.92	
1.4	64QAM	3	0	19.90	19.88	19.90	
1.4	64QAM	3	1	19.89	19.93	19.97	
1.4	64QAM	3	3	19.89	19.82	19.84	20.5
1.4	64QAM	6	0	19.79	19.89	19.90	

2.4GHz WLAN ANT 1

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	15.87	17.50	15.00	100.00
		CH 6	2437	15.31	17.00	16.00	
		CH 11	2462	15.19	17.00	15.00	
	802.11g 6Mbps	CH 1	2412	10.40	12.00	11.00	98.57
		CH 6	2437	14.72	16.50	15.00	
		CH 11	2462	10.75	12.50	9.00	
	802.11n-HT20 MCS0	CH 1	2412	11.14	13.00	11.00	97.97
		CH 6	2437	13.53	15.50	14.00	
		CH 11	2462	9.75	11.50	9.00	