



REPORT No.: SZ22120208S01

Annex E Conducted Power

Note:

Conducted power unit: dBm

The target power was recorded in the manufacture document.

**Conducted 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	28.70	28.73	28.71	29.50	19.70	19.73	19.71	20.50	0.07
GPRS 1 Tx slot	28.66	28.70	28.69	29.50	19.66	19.70	19.69	20.50	
GPRS 2 Tx slots	26.35	26.41	26.36	27.00	20.35	20.41	20.36	21.00	0.06
GPRS 3 Tx slots	25.29	25.33	25.30	26.00	21.03	21.07	21.04	21.74	0.04
GPRS 4 Tx slots	23.27	23.35	23.36	24.00	20.27	20.35	20.36	21.00	0.09
EDGE 1 Tx slot	23.10	23.12	23.05	24.00	14.10	14.12	14.05	15.00	0.07
EDGE 2 Tx slots	20.19	20.26	20.22	21.00	14.19	14.26	14.22	15.00	0.07
EDGE 3 Tx slots	18.85	18.91	18.88	19.50	14.59	14.65	14.62	15.24	0.06
EDGE 4 Tx slots	16.72	16.77	16.80	17.50	13.72	13.77	13.80	14.50	0.08
Mode		Max.	28.73			Max.	21.07		
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	28.77	28.80	28.78	29.50	19.77	19.80	19.78	20.50	0.08
GPRS 1 Tx slot	28.72	28.76	28.75	29.50	19.72	19.76	19.75	20.50	
GPRS 2 Tx slots	26.79	26.83	26.80	27.50	20.79	20.83	20.80	21.50	0.04
GPRS 3 Tx slots	25.68	25.75	25.73	26.50	21.42	21.49	21.47	22.24	0.07
GPRS 4 Tx slots	23.38	23.43	23.36	24.00	20.38	20.43	20.36	21.00	0.07
EDGE 1 Tx slot	25.15	25.20	25.17	26.00	16.15	16.20	16.17	17.00	0.05
EDGE 2 Tx slots	22.41	22.45	22.38	23.00	16.41	16.45	16.38	17.00	0.07
EDGE 3 Tx slots	21.33	21.32	21.29	22.00	17.07	17.06	17.03	17.74	0.04
EDGE 4 Tx slots	19.58	19.65	19.57	20.50	16.58	16.65	16.57	17.50	0.08
Mode		Max.	28.80			Max.	21.49		
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	
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	22.82	22.86	22.83	23.50	23.43	23.45	23.40	24.00	23.59	23.63	23.62	24.50
3GPP Rel 6	HSDPA Subtest-1	22.10	22.28	22.29	23.50	23.05	22.97	22.78	24.00	23.28	23.46	23.48	24.50
3GPP Rel 6	HSDPA Subtest-2	22.11	22.14	22.31	23.50	23.07	22.94	22.83	24.00	23.29	23.50	23.51	24.50
3GPP Rel 6	HSDPA Subtest-3	21.94	22.13	22.17	23.00	22.65	22.46	22.33	23.50	22.81	23.01	23.06	24.00
3GPP Rel 6	HSDPA Subtest-4	21.94	22.13	22.16	23.00	22.65	22.46	22.31	23.50	22.81	22.98	23.06	24.00
3GPP Rel 6	HSUPA Subtest-1	22.02	22.09	22.17	23.50	23.05	22.90	22.81	24.00	23.31	23.44	23.44	24.50
3GPP Rel 6	HSUPA Subtest-2	20.59	20.61	20.70	21.50	21.55	21.45	21.31	22.00	21.48	21.60	21.63	22.50
3GPP Rel 6	HSUPA Subtest-3	22.08	22.11	22.17	22.50	22.06	21.92	21.81	23.00	22.90	23.15	23.16	23.50
3GPP Rel 6	HSUPA Subtest-4	20.71	20.85	20.81	21.50	21.06	20.98	20.76	22.00	21.96	22.11	22.08	22.50
3GPP Rel 6	HSUPA Subtest-5	22.16	22.19	22.19	23.50	23.10	22.94	22.78	24.00	22.97	23.14	23.12	24.50
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	21.15	21.21	21.24	22.00	22.04	22.08	22.01	22.50	21.99	22.11	22.07	23.00
Attenuator			Cable Loss	0.8			Cable Loss	0.8			Cable Loss	0.6	
Mode			Max.	22.86			Max.	23.45			Max.	23.63	



Band 2 (1900MHz Band) (dBm)							
Part 24F							
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	21.70	21.77	21.72	22.5
20	QPSK	1	49	21.63	21.73	21.70	
20	QPSK	1	99	21.72	21.67	21.65	
20	QPSK	50	0	20.67	20.76	20.63	
20	QPSK	50	24	20.60	20.65	20.68	21.5
20	QPSK	50	50	20.57	20.64	20.64	
20	QPSK	100	0	20.59	20.71	20.67	
20	16QAM	1	0	20.57	20.66	20.59	
20	16QAM	1	49	20.49	20.58	20.41	21.5
20	16QAM	1	99	20.46	20.54	20.53	
20	16QAM	50	0	19.67	19.73	19.70	
20	16QAM	50	24	19.56	19.64	19.57	
20	16QAM	50	50	19.61	19.58	19.63	20.5
20	16QAM	100	0	19.62	19.65	19.61	
20	64QAM	1	0	19.56	19.62	19.54	
20	64QAM	1	49	19.51	19.56	19.53	
20	64QAM	1	99	19.53	19.54	19.55	20.5
20	64QAM	50	0	18.61	18.73	18.71	
20	64QAM	50	24	18.62	18.60	18.59	
20	64QAM	50	50	18.64	18.68	18.64	
20	64QAM	100	0	18.54	18.61	18.56	19.5
Channel				18675	18900	19125	
Frequency (MHz)				1857.5	1880	1902.5	Tune-up limit (dBm)
15	QPSK	1	0	21.60	21.78	21.54	22.5
15	QPSK	1	37	21.76	21.68	21.71	
15	QPSK	1	74	21.51	21.61	21.63	
15	QPSK	36	0	20.58	20.74	20.62	
15	QPSK	36	20	20.69	20.66	20.50	21.5
15	QPSK	36	39	20.55	20.52	20.58	
15	QPSK	75	0	20.51	20.59	20.53	
15	16QAM	1	0	20.59	20.66	20.56	
15	16QAM	1	37	20.28	20.39	20.57	21.5
15	16QAM	1	74	20.21	20.56	20.34	
15	16QAM	36	0	19.53	19.49	19.65	
15	16QAM	36	20	19.59	19.56	19.60	
15	16QAM	36	39	19.62	19.41	19.38	20.5
15	16QAM	75	0	19.70	19.50	19.62	
15	64QAM	1	0	19.44	19.74	19.40	
15	64QAM	1	37	19.56	19.33	19.36	
15	64QAM	1	74	19.49	19.33	19.58	20.5
15	64QAM	36	0	18.53	18.55	18.64	
15	64QAM	36	20	18.55	18.44	18.41	
15	64QAM	36	39	18.60	18.55	18.41	
15	64QAM	75	0	18.65	18.42	18.71	19.5
Channel				18650	18900	19150	
Frequency (MHz)				1855	1880	1905	Tune-up limit (dBm)
10	QPSK	1	0	21.79	21.73	21.76	22.5
10	QPSK	1	25	21.55	21.58	21.65	
10	QPSK	1	49	21.67	21.65	21.70	
10	QPSK	25	0	20.63	20.74	20.66	
10	QPSK	25	12	20.52	20.52	20.56	21.5
10	QPSK	25	25	20.61	20.64	20.50	
10	QPSK	50	0	20.53	20.60	20.63	
10	16QAM	1	0	20.61	20.71	20.48	
10	16QAM	1	25	20.56	20.55	20.49	21.5
10	16QAM	1	49	20.45	20.68	20.51	
10	16QAM	25	0	19.53	19.73	19.52	
10	16QAM	25	12	19.52	19.68	19.50	
10	16QAM	25	25	19.66	19.56	19.50	20.5
10	16QAM	50	0	19.64	19.67	19.57	
10	64QAM	1	0	19.59	19.65	19.61	
10	64QAM	1	25	19.53	19.68	19.60	
10	64QAM	1	49	19.67	19.54	19.63	20.5
10	64QAM	25	0	18.62	18.85	18.77	
10	64QAM	25	12	18.61	18.62	18.60	
10	64QAM	25	25	18.51	18.55	18.67	
10	64QAM	50	0	18.58	18.60	18.66	19.5
Channel				18625	18900	19175	
Frequency (MHz)				1852.5	1880	1907.5	Tune-up limit (dBm)
5	QPSK	1	0	21.67	21.77	21.68	22.5
5	QPSK	1	12	21.49	21.52	21.50	
5	QPSK	1	24	21.58	21.55	21.66	
5	QPSK	12	0	20.75	20.81	20.57	
5	QPSK	12	7	20.60	20.57	20.71	21.5
5	QPSK	12	13	20.49	20.70	20.50	
5	QPSK	25	0	20.69	20.59	20.53	
5	16QAM	1	0	20.70	20.67	20.55	
5	16QAM	1	12	20.37	20.72	20.51	21.5
5	16QAM	1	24	20.64	20.52	20.63	
5	16QAM	12	0	19.53	19.72	19.63	
5	16QAM	12	7	19.51	19.57	19.55	
5	16QAM	12	13	19.63	19.69	19.67	20.5
5	16QAM	25	0	19.40	19.67	19.39	
5	64QAM	1	0	19.65	19.67	19.60	
5	64QAM	1	12	19.44	19.56	19.49	
5	64QAM	1	24	19.55	19.65	19.54	20.5
5	64QAM	12	0	18.53	18.68	18.49	
5	64QAM	12	7	18.49	18.71	18.41	
5	64QAM	12	13	18.57	18.55	18.45	
5	64QAM	25	0	18.30	18.45	18.37	19.5
Channel				18615	18900	19185	
Frequency (MHz)				1851.5	1880	1908.5	Tune-up limit (dBm)
3	QPSK	1	0	21.57	21.75	21.55	22.5
3	QPSK	1	8	21.58	21.55	21.54	
3	QPSK	1	14	21.62	21.70	21.59	
3	QPSK	8	0	20.58	20.70	20.66	
3	QPSK	8	4	20.45	20.62	20.67	21.5
3	QPSK	8	7	20.57	20.64	20.55	
3	QPSK	15	0	20.52	20.68	20.60	
3	16QAM	1	0	20.44	20.81	20.66	

Band 4 (AWS Band) (dBm)							
Part 27I (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	22.11	22.25	22.22	23
20	QPSK	1	49	22.02	22.11	22.07	
20	QPSK	1	99	22.06	22.22	22.11	
20	QPSK	50	0	21.02	21.26	21.06	
20	QPSK	50	24	20.88	21.12	21.00	22
20	QPSK	50	50	20.97	21.17	20.98	
20	QPSK	100	0	21.04	21.08	21.16	
20	16QAM	1	0	20.85	21.06	20.91	
20	16QAM	1	49	20.80	20.88	21.04	22
20	16QAM	1	99	21.01	20.93	20.99	
20	16QAM	50	0	20.12	20.23	19.97	
20	16QAM	50	24	19.94	20.13	20.11	
20	16QAM	50	50	20.04	20.10	20.01	21
20	16QAM	100	0	20.03	20.02	19.90	
20	64QAM	1	0	19.89	20.19	20.16	
20	64QAM	1	49	20.05	20.14	20.01	
20	64QAM	1	99	19.94	19.92	19.89	21
20	64QAM	50	0	18.98	19.14	19.16	
20	64QAM	50	24	19.13	19.19	19.13	
20	64QAM	50	50	18.97	18.92	18.98	
20	64QAM	100	0	18.95	19.19	19.20	20
Channel				20025	20175	20325	
Frequency (MHz)				1717.5	1732.5	1747.5	Tune-up limit (dBm)
15	QPSK	1	0	22.11	22.22	22.13	23
15	QPSK	1	37	21.99	22.12	21.99	
15	QPSK	1	74	22.15	22.06	21.90	
15	QPSK	36	0	21.27	21.31	21.02	
15	QPSK	36	20	21.05	21.10	21.04	22
15	QPSK	36	39	20.89	21.24	20.90	
15	QPSK	75	0	21.12	21.10	20.93	
15	16QAM	1	0	21.09	21.16	21.02	
15	16QAM	1	37	21.09	21.02	20.95	22
15	16QAM	1	74	20.93	21.07	20.98	
15	16QAM	36	0	19.97	20.10	20.25	
15	16QAM	36	20	20.19	20.17	19.88	
15	16QAM	36	39	20.11	19.93	20.07	21
15	16QAM	75	0	19.91	20.10	19.86	
15	64QAM	1	0	20.03	20.22	20.18	
15	64QAM	1	37	19.93	20.08	20.10	
15	64QAM	1	74	20.07	19.85	20.09	21
15	64QAM	36	0	19.15	19.23	19.11	
15	64QAM	36	20	18.86	19.07	19.19	
15	64QAM	36	39	19.07	19.09	19.13	
15	64QAM	75	0	18.85	19.10	18.89	20
Channel				20000	20175	20350	
Frequency (MHz)				1715	1732.5	1750	Tune-up limit (dBm)
10	QPSK	1	0	22.06	22.19	22.09	23
10	QPSK	1	25	22.13	22.16	22.13	
10	QPSK	1	49	22.10	22.08	22.09	
10	QPSK	25	0	21.29	21.20	21.19	
10	QPSK	25	12	20.94	21.05	21.19	22
10	QPSK	25	25	21.09	21.21	21.01	
10	QPSK	50	0	20.99	21.12	21.23	
10	16QAM	1	0	21.21	21.11	21.04	



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3	16QAM	1	8	20.52	20.37	20.46	21.5
3	16QAM	1	14	20.41	20.39	20.50	
3	16QAM	8	0	19.58	19.76	19.71	
3	16QAM	8	4	19.52	19.71	19.42	20.5
3	16QAM	8	7	19.76	19.60	19.73	
3	16QAM	15	0	19.64	19.65	19.36	
3	64QAM	1	0	19.44	19.74	19.43	20.5
3	64QAM	1	8	19.51	19.51	19.52	
3	64QAM	1	14	19.34	19.50	19.38	
3	64QAM	8	0	18.50	18.64	18.54	19.5
3	64QAM	8	4	18.75	18.48	18.51	
3	64QAM	8	7	18.71	18.47	18.60	
3	64QAM	15	0	18.58	18.61	18.61	
Channel				18607	18900	19193	
Frequency (MHz)				1850.7	1880	1909.3	Tune-up limit (dBm)
1.4	QPSK	1	0	21.75	21.76	21.65	22.5
1.4	QPSK	1	3	21.68	21.65	21.57	
1.4	QPSK	1	5	21.72	21.60	21.49	
1.4	QPSK	3	0	20.52	20.75	20.68	
1.4	QPSK	3	1	20.60	20.51	20.52	
1.4	QPSK	3	3	20.53	20.65	20.69	21.5
1.4	QPSK	6	0	20.70	20.83	20.64	
1.4	16QAM	1	0	20.55	20.78	20.53	
1.4	16QAM	1	3	20.55	20.57	20.54	21.5
1.4	16QAM	1	5	20.50	20.66	20.55	
1.4	16QAM	3	0	19.53	19.63	19.80	
1.4	16QAM	3	1	19.56	19.73	19.78	
1.4	16QAM	3	3	19.68	19.58	19.63	
1.4	16QAM	6	0	19.57	19.71	19.60	20.5
1.4	64QAM	1	0	19.63	19.72	19.66	20.5
1.4	64QAM	1	3	19.41	19.48	19.59	
1.4	64QAM	1	5	19.51	19.61	19.70	
1.4	64QAM	3	0	18.57	18.88	18.69	
1.4	64QAM	3	1	18.59	18.61	18.62	
1.4	64QAM	3	3	18.68	18.53	18.51	
1.4	64QAM	6	0	18.66	18.71	18.55	
1.4	64QAM	6	0	18.66	18.71	18.55	19.5

3	16QAM	1	8	20.97	20.88	20.87	22
3	16QAM	1	14	21.05	20.99	20.93	
3	16QAM	8	0	20.04	20.22	20.06	
3	16QAM	8	4	19.91	20.20	19.84	21
3	16QAM	8	7	20.14	20.09	20.09	
3	16QAM	15	0	20.05	20.09	20.09	
3	64QAM	1	0	20.18	20.15	20.16	21
3	64QAM	1	8	20.05	20.13	20.09	
3	64QAM	1	14	19.99	20.10	20.11	
3	64QAM	8	0	18.99	19.07	19.26	20
3	64QAM	8	4	19.07	19.16	19.12	
3	64QAM	8	7	18.95	19.00	19.17	
3	64QAM	15	0	19.02	19.16	18.82	
Channel				19957	20175	20393	
Frequency (MHz)				1710.7	1732.5	1754.3	Tune-up limit (dBm)
1.4	QPSK	1	0	22.14	22.23	22.11	23
1.4	QPSK	1	3	22.17	22.09	21.99	
1.4	QPSK	1	5	21.98	22.13	22.13	
1.4	QPSK	3	0	21.30	21.25	21.27	
1.4	QPSK	3	1	21.19	21.29	21.01	
1.4	QPSK	3	3	21.11	21.21	21.00	22
1.4	QPSK	6	0	21.15	21.16	21.28	
1.4	16QAM	1	0	21.07	21.25	21.17	
1.4	16QAM	1	3	20.94	21.16	21.00	22
1.4	16QAM	1	5	20.92	21.16	20.89	
1.4	16QAM	3	0	20.11	20.17	20.11	
1.4	16QAM	3	1	20.03	20.00	20.11	
1.4	16QAM	3	3	20.02	20.03	20.02	
1.4	16QAM	6	0	20.09	20.19	20.22	21
1.4	64QAM	1	0	19.96	20.24	20.04	21
1.4	64QAM	1	3	19.84	20.16	20.08	
1.4	64QAM	1	5	19.86	19.87	20.03	
1.4	64QAM	3	0	19.11	19.29	19.26	
1.4	64QAM	3	1	19.12	19.07	19.08	
1.4	64QAM	3	3	19.00	19.26	19.03	
1.4	64QAM	6	0	19.06	19.15	19.00	
1.4	64QAM	6	0	19.06	19.15	19.00	20



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	23
Frequency (MHz)				829	836.5	844	
10	QPSK	1	0	22.16	22.46	22.38	23
10	QPSK	1	25	22.14	22.39	22.28	
10	QPSK	1	49	22.19	22.27	22.38	
10	QPSK	25	0	21.25	21.40	21.22	
10	QPSK	25	12	21.35	21.19	21.29	22
10	QPSK	25	25	21.14	21.19	21.25	
10	QPSK	50	0	21.32	21.30	21.19	
10	16QAM	1	0	21.29	21.25	21.36	
10	16QAM	1	25	21.28	21.35	21.08	22
10	16QAM	1	49	21.10	21.27	21.15	
10	16QAM	25	0	20.22	20.33	20.44	
10	16QAM	25	12	20.19	20.20	20.21	
10	16QAM	25	25	20.26	20.31	20.35	21
10	16QAM	50	0	20.04	20.32	20.33	
10	64QAM	1	0	20.24	20.39	20.21	
10	64QAM	1	25	20.00	20.01	20.23	
10	64QAM	1	49	20.18	20.13	20.28	21
10	64QAM	25	0	19.17	19.26	19.27	
10	64QAM	25	12	19.14	19.07	19.16	
10	64QAM	25	25	19.14	19.21	19.39	
10	64QAM	50	0	19.08	19.19	19.22	20
Channel				20425	20525	20625	
Frequency (MHz)				826.5	836.5	846.5	
5	QPSK	1	0	22.20	22.44	22.26	23
5	QPSK	1	12	22.26	22.11	22.10	
5	QPSK	1	24	22.28	22.36	22.42	
5	QPSK	12	0	21.24	21.47	21.27	
5	QPSK	12	7	21.14	21.27	21.43	22
5	QPSK	12	13	21.21	21.27	21.41	
5	QPSK	25	0	21.18	21.13	21.13	
5	16QAM	1	0	21.14	21.37	21.07	
5	16QAM	1	12	21.09	21.29	21.18	22
5	16QAM	1	24	21.16	20.96	21.00	
5	16QAM	12	0	20.43	20.43	20.44	
5	16QAM	12	7	20.32	20.23	20.09	
5	16QAM	12	13	20.35	20.26	20.24	21
5	16QAM	25	0	20.02	20.26	20.35	
5	64QAM	1	0	19.99	20.15	20.19	
5	64QAM	1	12	20.10	20.12	19.96	
5	64QAM	1	24	20.05	20.18	20.10	21
5	64QAM	12	0	19.09	19.28	19.14	
5	64QAM	12	7	19.32	19.32	19.20	
5	64QAM	12	13	19.24	19.38	19.37	
5	64QAM	25	0	19.25	19.37	19.30	20
Channel				20415	20525	20635	
Frequency (MHz)				825.5	836.5	847.5	
3	QPSK	1	0	22.36	22.41	22.26	23
3	QPSK	1	8	22.33	22.26	22.15	
3	QPSK	1	14	22.27	22.37	22.12	
3	QPSK	8	0	21.24	21.42	21.20	
3	QPSK	8	4	21.00	21.36	21.36	22
3	QPSK	8	7	21.30	21.39	21.25	
3	QPSK	15	0	21.23	21.48	21.21	
3	16QAM	1	0	21.23	21.34	20.96	
3	16QAM	1	8	21.17	21.22	21.08	22
3	16QAM	1	14	21.07	21.22	21.22	
3	16QAM	8	0	20.06	20.25	20.37	
3	16QAM	8	4	20.22	20.25	20.22	
3	16QAM	8	7	20.03	20.28	20.37	21
3	16QAM	15	0	20.12	20.23	20.11	
3	64QAM	1	0	20.21	20.15	20.11	
3	64QAM	1	8	20.26	20.20	20.18	
3	64QAM	1	14	20.14	20.26	20.30	21
3	64QAM	8	0	19.30	19.15	19.38	
3	64QAM	8	4	19.34	19.09	19.16	
3	64QAM	8	7	19.21	19.17	19.31	
3	64QAM	15	0	19.19	19.33	19.17	20
Channel				20407	20525	20643	
Frequency (MHz)				824.7	836.5	848.3	
1.4	QPSK	1	0	22.41	22.43	22.28	23
1.4	QPSK	1	3	22.04	22.15	22.25	
1.4	QPSK	1	5	22.29	22.07	22.32	
1.4	QPSK	3	0	21.40	21.49	21.16	
1.4	QPSK	3	1	21.23	21.17	21.17	22
1.4	QPSK	3	3	21.15	21.19	21.22	
1.4	QPSK	6	0	21.28	21.18	21.19	
1.4	16QAM	1	0	21.06	21.34	21.16	
1.4	16QAM	1	3	21.19	21.05	20.98	22
1.4	16QAM	1	5	21.06	21.17	21.11	
1.4	16QAM	3	0	20.15	20.28	20.18	
1.4	16QAM	3	1	20.25	20.29	20.12	
1.4	16QAM	3	3	20.14	20.20	20.19	21
1.4	16QAM	6	0	20.16	20.37	20.19	
1.4	64QAM	1	0	19.95	20.37	20.12	
1.4	64QAM	1	3	20.28	19.96	20.07	
1.4	64QAM	1	5	20.29	20.23	20.21	21
1.4	64QAM	3	0	19.26	19.30	19.35	
1.4	64QAM	3	1	19.34	19.31	19.24	
1.4	64QAM	3	3	19.10	19.40	19.21	
1.4	64QAM	6	0	19.14	19.29	19.24	20

Band 12 (700MHz Low Band) (dBm)							
Part 27E(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	22.5
Frequency (MHz)				704	707.5	711	
10	QPSK	1	0	21.70	21.79	21.71	22.5
10	QPSK	1	25	21.63	21.66	21.66	
10	QPSK	1	49	21.63	21.61	21.72	
10	QPSK	25	0	20.73	20.59	20.47	
10	QPSK	25	12	20.68	20.60	20.43	21.5
10	QPSK	25	25	20.71	20.48	20.41	
10	QPSK	50	0	20.44	20.56	20.72	
10	16QAM	1	0	20.49	20.61	20.50	
10	16QAM	1	25	20.57	20.55	20.52	21.5
10	16QAM	1	49	20.47	20.36	20.49	
10	16QAM	25	0	19.73	19.77	19.56	
10	16QAM	25	12	19.39	19.47	19.54	
10	16QAM	25	25	19.59	19.54	19.57	20.5
10	16QAM	50	0	19.46	19.43	19.62	
10	64QAM	1	0	19.54	19.52	19.55	
10	64QAM	1	25	19.47	19.62	19.35	
10	64QAM	1	49	19.48	19.29	19.58	20.5
10	64QAM	25	0	18.59	18.53	18.57	
10	64QAM	25	12	18.37	18.45	18.46	
10	64QAM	25	25	18.41	18.61	18.42	
10	64QAM	50	0	18.58	18.42	18.50	19.5
Channel				23035	23095	23155	
Frequency (MHz)				701.5	707.5	713.5	
5	QPSK	1	0	21.54	21.77	21.62	22.5
5	QPSK	1	12	21.63	21.60	21.54	
5	QPSK	1	24	21.56	21.52	21.52	
5	QPSK	12	0	20.61	20.65	20.52	
5	QPSK	12	7	20.46	20.57	20.59	21.5
5	QPSK	12	13	20.65	20.60	20.62	
5	QPSK	25	0	20.49	20.64	20.52	
5	16QAM	1	0	20.60	20.56	20.36	
5	16QAM	1	12	20.56	20.37	20.42	21.5
5	16QAM	1	24	20.41	20.40	20.61	
5	16QAM	12	0	19.53	19.68	19.58	
5	16QAM	12	7	19.51	19.69	19.56	
5	16QAM	12	13	19.63	19.68	19.40	20.5
5	16QAM	25	0	19.37	19.53	19.37	
5	64QAM	1	0	19.64	19.43	19.44	
5	64QAM	1	12	19.48	19.69	19.50	
5	64QAM	1	24	19.54	19.43	19.56	20.5
5	64QAM	12	0	18.62	18.50	18.58	
5	64QAM	12	7	18.39	18.46	18.47	
5	64QAM	12	13	18.55	18.62	18.46	
5	64QAM	25	0	18.40	18.65	18.62	19.5
Channel				23025	23095	23165	
Frequency (MHz)				700.5	707.5	714.5	
3	QPSK	1	0	21.64	21.74	21.72	22.5
3	QPSK	1	8	21.66	21.54	21.61	
3	QPSK	1	14	21.70	21.48	21.51	
3	QPSK	8	0	20.67	20.62	20.48	
3	QPSK	8	4	20.63	20.42	20.63	21.5
3	QPSK	8	7	20.47	20.47	20.58	
3	QPSK	15	0	20.54	20.45	20.71	
3	16QAM	1	0	20.53	20.54	20.51	
3	16QAM	1	8	20.42	20.62	20.36	21.5
3	16QAM	1	14	20.55	20.43	20.63	
3	16QAM	8	0	19.53	19.55	19.69	
3	16QAM	8	4	19.54	19.72	19.46	
3	16QAM	8	7	19.44	19.43	19.39	20.5
3	16QAM	15	0	19.58	19.47	19.64	
3	64QAM	1	0	19.42	19.55	19.56	
3	64QAM	1	8	19.65	19.61	19.62	
3	64QAM	1	14	19.64	19.60	19.54	20.5
3	64QAM	8	0	18.62	18.50	18.46	
3	64QAM	8	4	18.37	18.51	18.72	
3	64QAM	8	7	18.44	18.66	18.48	



Band 13(700MHz Band) (dBm)							
Part 27F							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up lim (dBm)
Channel				23230			
Frequency (MHz)				782			
10	QPSK	1	0		23.47		24
10	QPSK	1	25		23.25		
10	QPSK	1	49		23.31		
10	QPSK	25	0		22.41		
10	QPSK	25	12		22.36		23
10	QPSK	25	25		22.40		
10	QPSK	50	0		22.29		
10	16QAM	1	0		22.45		
10	16QAM	1	25		22.46		23
10	16QAM	1	49		22.33		
10	16QAM	25	0		21.46		
10	16QAM	25	12		21.38		
10	16QAM	25	25		21.31		22
10	16QAM	50	0		21.33		
10	64QAM	1	0		21.38		
10	64QAM	1	25		21.32		
10	64QAM	1	49		21.40		22
10	64QAM	25	0		20.45		
10	64QAM	25	12		20.43		
10	64QAM	25	25		20.36		
10	64QAM	50	0		20.39		21
Channel				23205	23230	23255	
Frequency (MHz)				779.5	782	784.5	Tune-up lim (dBm)
5	QPSK	1	0	23.31	23.44	23.30	24
5	QPSK	1	12	23.21	23.18	23.07	
5	QPSK	1	24	23.10	23.18	23.15	
5	QPSK	12	0	22.14	22.12	22.11	
5	QPSK	12	7	22.13	22.29	22.30	23
5	QPSK	12	13	22.06	22.22	22.28	
5	QPSK	25	0	22.10	22.30	22.21	
5	16QAM	1	0	22.13	22.30	22.22	
5	16QAM	1	12	22.16	22.06	22.05	23
5	16QAM	1	24	22.09	22.10	22.04	
5	16QAM	12	0	21.08	21.29	21.17	
5	16QAM	12	7	21.01	21.08	21.14	
5	16QAM	12	13	21.02	21.19	21.00	22
5	16QAM	25	0	21.23	21.11	21.28	
5	64QAM	1	0	21.22	21.28	21.12	
5	64QAM	1	12	21.11	21.14	21.05	
5	64QAM	1	24	21.12	20.89	21.01	22
5	64QAM	12	0	20.10	20.32	19.99	
5	64QAM	12	7	20.14	19.88	20.21	
5	64QAM	12	13	20.01	20.13	20.24	
5	64QAM	25	0	20.10	20.26	19.95	21

Band 25 (1900MHz Band) (dBm)							
Part 24F							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				26140	26365	26590	22.5
Frequency (MHz)				1860	1882.5	1905	
20	QPSK	1	0	21.68	21.78	21.72	22.5
20	QPSK	1	49	21.50	21.69	21.49	
20	QPSK	1	99	21.58	21.67	21.66	
20	QPSK	50	0	20.64	20.71	20.47	
20	QPSK	50	24	20.68	20.59	20.56	21.5
20	QPSK	50	50	20.45	20.60	20.76	
20	QPSK	100	0	20.49	20.60	20.59	
20	16QAM	1	0	20.52	20.55	20.67	
20	16QAM	1	49	20.57	20.52	20.50	21.5
20	16QAM	1	99	20.52	20.66	20.43	
20	16QAM	50	0	19.64	19.68	19.76	
20	16QAM	50	24	19.53	19.58	19.54	
20	16QAM	50	50	19.45	19.39	19.62	20.5
20	16QAM	100	0	19.75	19.63	19.72	
20	64QAM	1	0	19.55	19.52	19.48	
20	64QAM	1	49	19.65	19.54	19.43	
20	64QAM	1	99	19.52	19.41	19.58	20.5
20	64QAM	50	0	18.61	18.47	18.48	
20	64QAM	50	24	18.73	18.41	18.56	
20	64QAM	50	50	18.71	18.81	18.69	
20	64QAM	100	0	18.51	18.52	18.50	19.5
Channel				26115	26365	26615	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1882.5	1907.5	
15	QPSK	1	0	21.63	21.75	21.55	22.5
15	QPSK	1	37	21.71	21.66	21.56	
15	QPSK	1	74	21.62	21.51	21.51	
15	QPSK	36	0	20.51	20.57	20.66	
15	QPSK	36	20	20.55	20.43	20.62	21.5
15	QPSK	36	39	20.37	20.44	20.70	
15	QPSK	75	0	20.73	20.60	20.58	
15	16QAM	1	0	20.43	20.57	20.62	
15	16QAM	1	37	20.38	20.62	20.36	21.5
15	16QAM	1	74	20.51	20.52	20.45	
15	16QAM	36	0	19.51	19.53	19.53	
15	16QAM	36	20	19.50	19.44	19.63	
15	16QAM	36	39	19.42	19.37	19.67	20.5
15	16QAM	75	0	19.65	19.60	19.55	
15	64QAM	1	0	19.47	19.57	19.37	
15	64QAM	1	37	19.59	19.40	19.28	
15	64QAM	1	74	19.48	19.59	19.56	20.5
15	64QAM	36	0	18.73	18.74	18.60	
15	64QAM	36	20	18.40	18.46	18.59	
15	64QAM	36	39	18.66	18.70	18.71	
15	64QAM	75	0	18.60	18.68	18.54	19.5
Channel				26090	26365	26640	Tune-up limit (dBm)
Frequency (MHz)				1855	1882.5	1910	
10	QPSK	1	0	21.53	21.73	21.71	22.5
10	QPSK	1	25	21.40	21.50	21.84	
10	QPSK	1	49	21.70	21.56	21.66	
10	QPSK	25	0	20.58	20.86	20.75	
10	QPSK	25	12	20.70	20.55	20.55	21.5
10	QPSK	25	25	20.53	20.66	20.58	
10	QPSK	50	0	20.71	20.51	20.81	
10	16QAM	1	0	20.52	20.79	20.56	
10	16QAM	1	25	20.60	20.42	20.50	21.5
10	16QAM	1	49	20.60	20.42	20.57	
10	16QAM	25	0	19.63	19.72	19.62	
10	16QAM	25	12	19.51	19.68	19.36	
10	16QAM	25	25	19.65	19.51	19.44	20.5
10	16QAM	50	0	19.55	19.79	19.53	
10	64QAM	1	0	19.61	19.55	19.51	
10	64QAM	1	25	19.43	19.37	19.59	
10	64QAM	1	49	19.44	19.46	19.38	20.5
10	64QAM	25	0	18.74	18.55	18.63	
10	64QAM	25	12	18.69	18.71	18.58	
10	64QAM	25	25	18.48	18.70	18.42	
10	64QAM	50	0	18.37	18.44	18.51	19.5
Channel				26065	26365	26665	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1882.5	1912.5	
5	QPSK	1	0	21.56	21.74	21.54	22.5
5	QPSK	1	12	21.63	21.56	21.57	
5	QPSK	1	24	21.69	21.52	21.62	
5	QPSK	12	0	20.59	20.67	20.72	
5	QPSK	12	7	20.51	20.58	20.73	21.5
5	QPSK	12	13	20.64	20.76	20.60	
5	QPSK	25	0	20.57	20.66	20.56	
5	16QAM	1	0	20.68	20.56	20.48	
5	16QAM	1	12	20.32	20.50	20.38	21.5
5	16QAM	1	24	20.49	20.34	20.62	
5	16QAM	12	0	19.63	19.60	19.78	
5	16QAM	12	7	19.68	19.52	19.43	
5	16QAM	12	13	19.46	19.61	19.52	20.5
5	16QAM	25	0	19.71	19.44	19.43	
5	64QAM	1	0	19.54	19.54	19.67	
5	64QAM	1	12	19.39	19.67	19.62	
5	64QAM	1	24	19.31	19.39	19.33	20.5
5	64QAM	12	0	18.44	18.47	18.47	
5	64QAM	12	7	18.47	18.41	18.66	
5	64QAM	12	13	18.62	18.64	18.69	
5	64QAM	25	0	18.63	18.64	18.68	19.5
Channel				26055	26365	26675	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1882.5	1913.5	
3	QPSK	1	0	21.74	21.76	21.66	22.5
3	QPSK	1	8	21.49	21.53	21.48	
3	QPSK	1	14	21.70	21.51	21.67	
3	QPSK	8	0	20.69	20.74	20.67	
3	QPSK	8	4	20.44	20.68	20.64	21.5
3	QPSK	8	7	20.62	20.58	20.56	
3	QPSK	15	0	20.41	20.59	20.56	
3	16QAM	1	0	20.41	20.66	20.45	



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3	16QAM	1	8	20.54	20.42	20.51	21.5
3	16QAM	1	14	20.47	20.57	20.42	
3	16QAM	8	0	19.59	19.68	19.61	
3	16QAM	8	4	19.47	19.54	19.71	
3	16QAM	8	7	19.57	19.59	19.64	20.5
3	16QAM	15	0	19.43	19.70	19.68	
3	64QAM	1	0	19.55	19.76	19.40	
3	64QAM	1	8	19.64	19.52	19.41	20.5
3	64QAM	1	14	19.49	19.49	19.35	
3	64QAM	8	0	18.52	18.59	18.72	
3	64QAM	8	4	18.76	18.49	18.55	19.5
3	64QAM	8	7	18.40	18.75	18.50	
3	64QAM	15	0	18.41	18.38	18.39	
Channel				26047	26365	26683	Tune-up limit
Frequency (MHz)				1850.7	1882.5	1914.3	(dBm)
1.4	QPSK	1	0	21.59	21.75	21.72	
1.4	QPSK	1	3	21.66	21.64	21.47	
1.4	QPSK	1	5	21.53	21.61	21.62	
1.4	QPSK	3	0	20.57	20.86	20.71	22.5
1.4	QPSK	3	1	20.55	20.63	20.77	
1.4	QPSK	3	3	20.65	20.52	20.75	
1.4	QPSK	6	0	20.63	20.64	20.46	21.5
1.4	16QAM	1	0	20.56	20.48	20.33	
1.4	16QAM	1	3	20.54	20.64	20.53	
1.4	16QAM	1	5	20.41	20.43	20.33	
1.4	16QAM	3	0	19.59	19.74	19.52	20.5
1.4	16QAM	3	1	19.52	19.72	19.52	
1.4	16QAM	3	3	19.56	19.54	19.69	
1.4	16QAM	6	0	19.40	19.45	19.35	19.5
1.4	64QAM	1	0	19.45	19.51	19.66	
1.4	64QAM	1	3	19.49	19.67	19.49	
1.4	64QAM	1	5	19.59	19.44	19.38	20.5
1.4	64QAM	3	0	18.71	18.57	18.55	
1.4	64QAM	3	1	18.56	18.68	18.64	
1.4	64QAM	3	3	18.65	18.66	18.69	
1.4	64QAM	6	0	18.67	18.56	18.60	19.5



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	22.25	22.39	22.23	
15	QPSK	1	37	22.19	22.33	22.27	23
15	QPSK	1	74	22.07	22.14	22.16	
15	QPSK	36	0	21.08	21.34	21.20	
15	QPSK	36	20	21.02	21.17	21.25	22
15	QPSK	36	39	21.24	21.15	21.20	
15	QPSK	75	0	21.21	21.05	21.10	
15	16QAM	1	0	20.96	21.08	21.10	22
15	16QAM	1	37	20.98	20.95	21.00	
15	16QAM	1	74	20.85	21.12	20.93	
15	16QAM	36	0	20.01	20.21	20.28	21
15	16QAM	36	20	20.17	19.92	19.89	
15	16QAM	36	39	20.04	20.25	20.21	
15	16QAM	75	0	20.09	20.03	20.20	21
15	64QAM	1	0	20.14	20.03	19.90	
15	64QAM	1	37	20.11	19.89	20.02	
15	64QAM	1	74	19.84	19.90	20.08	20
15	64QAM	36	0	19.26	19.11	19.04	
15	64QAM	36	20	18.94	18.99	19.03	
15	64QAM	36	39	19.16	19.02	19.06	20
15	64QAM	75	0	18.90	19.12	19.20	
Channel				26740	26865	26990	
Frequency (MHz)				819	831.5	844	
10	QPSK	1	0	22.27	22.36	22.27	
10	QPSK	1	25	22.12	22.20	22.26	23
10	QPSK	1	49	22.26	22.11	22.18	
10	QPSK	25	0	21.24	21.41	21.07	
10	QPSK	25	12	21.18	21.12	21.26	22
10	QPSK	25	25	21.23	21.21	21.17	
10	QPSK	50	0	20.96	21.15	21.05	
10	16QAM	1	0	21.13	21.17	20.91	22
10	16QAM	1	25	20.95	21.02	20.96	
10	16QAM	1	49	20.87	21.06	21.17	
10	16QAM	25	0	20.13	20.35	20.09	21
10	16QAM	25	12	20.19	20.24	20.06	
10	16QAM	25	25	20.25	20.20	20.27	
10	16QAM	50	0	20.09	20.31	20.23	21
10	64QAM	1	0	20.00	19.95	20.11	
10	64QAM	1	25	19.99	19.89	20.12	
10	64QAM	1	49	20.16	20.14	20.08	20
10	64QAM	25	0	19.10	19.12	19.34	
10	64QAM	25	12	19.15	19.18	19.21	
10	64QAM	25	25	19.08	19.07	19.11	20
10	64QAM	50	0	19.09	19.19	19.17	
Channel				26715	26865	27015	
Frequency (MHz)				816.5	831.5	846.5	
5	QPSK	1	0	22.24	22.32	22.26	
5	QPSK	1	12	21.96	22.25	22.06	23
5	QPSK	1	24	22.22	22.28	21.98	
5	QPSK	12	0	21.19	21.29	21.13	
5	QPSK	12	7	21.14	21.17	21.17	22
5	QPSK	12	13	21.17	21.02	21.12	
5	QPSK	25	0	20.88	20.99	21.17	
5	16QAM	1	0	21.25	21.14	20.96	22
5	16QAM	1	12	21.15	21.16	21.02	
5	16QAM	1	24	21.05	21.03	21.13	
5	16QAM	12	0	20.00	20.30	20.28	21
5	16QAM	12	7	20.11	20.32	20.03	
5	16QAM	12	13	20.28	20.02	19.95	
5	16QAM	25	0	19.96	20.24	20.26	21
5	64QAM	1	0	20.04	20.22	20.00	
5	64QAM	1	12	19.99	20.01	19.98	
5	64QAM	1	24	19.92	19.87	20.12	20
5	64QAM	12	0	19.27	19.32	19.17	
5	64QAM	12	7	19.14	19.27	19.05	
5	64QAM	12	13	19.24	19.16	19.06	20
5	64QAM	25	0	19.19	19.18	19.07	
Channel				26705	26865	27025	
Frequency (MHz)				815.5	831.5	847.5	
3	QPSK	1	0	22.33	22.35	22.28	
3	QPSK	1	8	22.05	22.21	22.05	23
3	QPSK	1	14	22.21	22.03	22.31	
3	QPSK	8	0	21.12	21.32	21.17	
3	QPSK	8	4	21.15	21.09	21.13	22
3	QPSK	8	7	20.95	21.21	21.25	
3	QPSK	15	0	20.94	21.00	21.21	
3	16QAM	1	0	21.25	21.03	20.93	22
3	16QAM	1	8	21.11	21.00	20.89	
3	16QAM	1	14	21.09	21.16	21.14	
3	16QAM	8	0	20.03	20.05	20.21	21
3	16QAM	8	4	19.98	20.28	20.11	
3	16QAM	8	7	20.25	20.01	19.96	
3	16QAM	15	0	20.27	20.18	20.12	21
3	64QAM	1	0	19.95	20.05	19.97	
3	64QAM	1	8	20.00	20.01	20.04	
3	64QAM	1	14	19.93	20.06	20.14	20
3	64QAM	8	0	18.98	19.11	19.07	
3	64QAM	8	4	19.02	19.24	19.15	
3	64QAM	8	7	19.32	19.01	18.97	20
3	64QAM	15	0	19.21	19.23	19.12	
Channel				26697	26865	27033	
Frequency (MHz)				814.7	831.5	848.3	
1.4	QPSK	1	0	22.10	22.33	22.12	
1.4	QPSK	1	3	22.07	22.01	22.32	23
1.4	QPSK	1	5	22.22	22.19	22.27	
1.4	QPSK	3	0	21.00	21.09	21.06	
1.4	QPSK	3	1	21.03	21.31	21.36	22
1.4	QPSK	3	3	21.02	21.12	21.03	
1.4	QPSK	6	0	21.16	21.35	21.07	
1.4	16QAM	1	0	20.90	20.95	20.97	22

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	22.26	22.40	22.34	
20	QPSK	1	49	22.14	22.11	22.09	
20	QPSK	1	99	22.25	22.31	22.21	
20	QPSK	50	0	21.37	21.43	21.29	22
20	QPSK	50	24	21.20	21.11	21.12	
20	QPSK	50	50	21.08	21.17	21.18	
20	QPSK	100	0	21.15	21.13	21.07	22
20	16QAM	1	0	21.07	21.19	21.12	
20	16QAM	1	49	21.12	21.08	20.92	
20	16QAM	1	99	21.05	21.24	21.08	21
20	16QAM	50	0	20.17	20.32	20.23	
20	16QAM	50	24	20.04	19.98	20.04	
20	16QAM	50	50	20.13	20.15	19.98	21
20	16QAM	100	0	20.12	20.06	19.98	
20	64QAM	1	0	20.14	20.06	20.05	
20	64QAM	1	49	20.21	20.25	20.09	21
20	64QAM	1	99	20.07	19.99	19.97	
20	64QAM	50	0	19.24	19.17	19.36	
20	64QAM	50	24	18.98	18.98	19.12	20
20	64QAM	50	50	19.10	19.34	19.18	
20	64QAM	100	0	19.18	19.10	19.17	
Channel				132047	132322	132597	
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	22.29	22.35	22.33	
15	QPSK	1	37	22.26	22.16	22.26	
15	QPSK	1	74	22.21	22.14	22.18	
15	QPSK	36	0	21.11	21.16	21.18	22
15	QPSK	36	20	21.05	21.22	21.31	
15	QPSK	36	39	21.22	21.21	21.30	
15	QPSK	75	0	21.22	21.25	21.36	22
15	16QAM	1	0	21.18	21.18	21.01	
15	16QAM	1	37	20.86	21.00	21.04	
15	16QAM	1	74	20.82	20.96	21.14	21
15	16QAM	36	0	20.08	20.14	20.23	
15	16QAM	36	20	19.94	20.00	20.24	
15	16QAM	36	39	20.03	20.13	19.94	21
15	16QAM	75	0	20.23	20.12	20.13	
15	64QAM	1	0	19.93	20.14	20.10	
15	64QAM	1	37	19.99	19.86	20.02	21
15	64QAM	1	74	20.09	19.98	20.12	
15	64QAM	36	0	19.16	19.29	19.13	
15	64QAM	36	20	19.24	18.98	19.25	20
15	64QAM	36	39	19.01	19.05	19.20	
15	64QAM	75	0	19.03	19.30	19.17	
Channel				132022	132322	132622	
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	22.28	22.36	22.34	
10	QPSK	1	25	22.07	22.22	22.35	
10	QPSK	1	49	22.14	22.35	22.26	
10	QPSK	25	0	21.17	21.15	21.30	22
10	QPSK	25	12	21.08	21.15	21.30	
10	QPSK	25	25	21.01	21.24	21.20	
10	QPSK	50	0	21.26	21.39	21.33	22
10	16QAM	1	0	21.20	21.11	21.29	
10	16QAM	1	25	21.05	21.10	21.12	
10	16QAM	1	49	21.07	21.24	21.18	21
10	16QAM	25	0	20.09	20.19	20.35	
10	16QAM	25	12	19.99	20.04	19.97	
10	16QAM	25	25	20.14	20.15	20.30	21
10	16QAM	50	0	19.95	20.12	20.11	
10	64QAM	1	0	20.09	20.18	20.10	
10	64QAM	1	25	19.99	20.23	20.02	21
10	64QAM	1	49	19.95	19.94	20.23	
10	64QAM	25	0	19.27	19.26	19.38	
10	64QAM	25	12	19.18	19.08	19.25	20
10	64QAM	25	25	19.11	19.24	19.26	
10	64QAM	50	0	18.88	19.06	18.95	
Channel				131997	132322	132647	
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	22.31	22.37	22.33	
5	QPSK	1	12	22.33	22.35	22.21	
5	QPSK	1	24	22.22	22.19	22.10	
5	QPSK	12	0	21.05	21.23	21.30	22
5	QPSK	12	7	21.21	20.98	21.12	
5	QPSK	12	13	20.91	21.23	20.94	
5	QPSK	25	0	21.13	21.30	21.15	22
5	16QAM	1	0	21.08	21.26	21.11	
5	16QAM	1	12	20.91	21.10	21.03	
5	16QAM	1	24	20.91	21.24	21.00	21
5	16QAM	12	0	20.11	20.04	20.11	
5	16QAM	12	7	20.21	20.14	20.21	
5	16QAM	12	13	20.31	20.08	20.01	21
5	16QAM	25	0	20.32	20.00	20.09	
5	64QAM	1	0	19.95	20.03	19.98	
5	64QAM	1	12	20.11	19.92	20.15	21
5	64QAM	1	24	20.03	20.07	20.00	
5	64QAM	12	0	19.08	19.26	19.26	
5	64QAM	12	7	19.06	19.29	19.10	20
5	64QAM	12	13	19.10	19.24	19.00	
5	64QAM	25	0	18.88	19.02	18.86	
Channel				131987	132322	132657	
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	22.21	22.33	22.26	
3	QPSK	1	8	22.24	22.19	22.22	
3	QPSK	1	14	22.23	22.02	22.09	
3	QPSK	8	0	21.35	21.36	21.09	22
3	QPSK	8	4	21.14	21.06	21.02	
3	QPSK	8	7	21.06	21.04	21.13	
3	QPSK	15	0	20.99	21.18	21.00	22
3	16QAM	1	0	20.95	21.02	21.26	



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1.4	16QAM	1	3	20.94	21.25	20.99	22
1.4	16QAM	1	5	21.06	21.20	21.01	
1.4	16QAM	3	0	20.28	20.18	20.00	
1.4	16QAM	3	1	20.04	20.24	20.01	
1.4	16QAM	3	3	20.09	20.17	20.08	21
1.4	16QAM	6	0	20.26	19.97	20.09	
1.4	64QAM	1	0	20.18	20.02	19.98	21
1.4	64QAM	1	3	20.11	19.91	19.95	
1.4	64QAM	1	5	19.83	20.20	19.85	
1.4	64QAM	3	0	19.04	19.28	19.27	
1.4	64QAM	3	1	19.26	19.04	19.20	
1.4	64QAM	3	3	19.03	19.03	19.24	
1.4	64QAM	6	0	19.08	19.22	19.24	20

3	16QAM	1	8	21.08	21.28	21.04	22
3	16QAM	1	14	20.91	20.99	21.09	21
3	16QAM	8	0	20.14	20.25	20.23	
3	16QAM	8	4	20.03	20.24	20.12	
3	16QAM	8	7	20.03	20.10	19.97	
3	16QAM	15	0	20.21	20.01	20.05	21
3	64QAM	1	0	20.16	19.94	20.17	
3	64QAM	1	8	19.95	19.98	20.17	
3	64QAM	1	14	19.83	20.15	20.01	
3	64QAM	8	0	19.16	19.10	19.32	20
3	64QAM	8	4	19.28	19.18	19.15	
3	64QAM	8	7	18.94	19.01	19.34	
3	64QAM	15	0	18.99	19.01	18.92	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	22.20	22.36	22.17	23
1.4	QPSK	1	3	22.05	22.09	22.20	
1.4	QPSK	1	5	22.07	22.15	22.34	
1.4	QPSK	3	0	21.11	21.31	21.03	
1.4	QPSK	3	1	21.13	21.06	21.13	
1.4	QPSK	3	3	21.16	21.10	21.27	
1.4	QPSK	6	0	21.14	21.11	21.19	22
1.4	16QAM	1	0	21.07	21.32	21.05	22
1.4	16QAM	1	3	21.10	21.27	21.05	
1.4	16QAM	1	5	21.07	21.13	21.08	
1.4	16QAM	3	0	20.12	20.22	20.27	
1.4	16QAM	3	1	20.03	20.11	20.13	
1.4	16QAM	3	3	20.04	20.25	20.11	
1.4	16QAM	6	0	20.17	20.25	20.07	21
1.4	64QAM	1	0	20.01	20.27	20.12	21
1.4	64QAM	1	3	19.98	20.19	19.99	
1.4	64QAM	1	5	20.13	20.14	20.07	
1.4	64QAM	3	0	19.17	19.34	19.21	
1.4	64QAM	3	1	19.11	19.05	19.24	
1.4	64QAM	3	3	19.27	19.01	19.14	
1.4	64QAM	6	0	19.14	19.18	18.93	20



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	23.23	23.32	23.27	24
20	QPSK	1	49	23.25	23.11	23.08	
20	QPSK	1	99	23.16	23.08	23.19	
20	QPSK	50	0	22.12	22.38	22.24	
20	QPSK	50	24	22.13	22.15	22.09	23
20	QPSK	50	50	22.01	22.16	22.15	
20	QPSK	100	0	22.13	21.99	22.30	
20	16QAM	1	0	22.18	22.11	22.00	
20	16QAM	1	49	22.02	21.96	22.05	23
20	16QAM	1	99	21.91	21.86	22.02	
20	16QAM	50	0	21.13	21.37	21.08	
20	16QAM	50	24	21.23	21.08	21.18	
20	16QAM	50	50	21.02	21.06	21.03	22
20	16QAM	100	0	20.96	20.95	21.17	
20	64QAM	1	0	21.03	21.18	21.11	
20	64QAM	1	49	20.90	21.16	20.93	
20	64QAM	1	99	21.18	20.94	21.11	22
20	64QAM	50	0	20.21	20.03	20.22	
20	64QAM	50	24	20.04	20.26	20.09	
20	64QAM	50	50	19.97	20.30	19.97	
20	64QAM	100	0	19.93	19.97	20.07	21
Channel				133197	133297	133397	Tune-up limit (dBm)
Frequency (MHz)				670.5	680.5	690.5	
15	QPSK	1	0	23.06	23.27	23.22	24
15	QPSK	1	37	23.09	23.10	23.25	
15	QPSK	1	74	23.12	23.17	23.02	
15	QPSK	36	0	22.15	22.37	22.27	
15	QPSK	36	20	22.07	22.09	22.02	23
15	QPSK	36	39	22.02	22.23	22.18	
15	QPSK	75	0	22.00	22.01	22.00	
15	16QAM	1	0	22.09	22.06	22.09	
15	16QAM	1	37	22.06	22.24	22.06	23
15	16QAM	1	74	22.03	21.97	22.04	
15	16QAM	36	0	20.99	21.09	20.98	
15	16QAM	36	20	21.03	20.94	20.84	
15	16QAM	36	39	21.12	20.99	21.04	22
15	16QAM	75	0	21.28	21.24	21.14	
15	64QAM	1	0	20.95	21.20	21.05	
15	64QAM	1	37	21.07	21.08	20.91	
15	64QAM	1	74	21.05	21.13	21.19	22
15	64QAM	36	0	20.16	20.18	20.26	
15	64QAM	36	20	20.03	20.26	20.04	
15	64QAM	36	39	19.98	20.08	20.10	
15	64QAM	75	0	20.11	19.88	19.91	21
Channel				133172	133272	133422	Tune-up limit (dBm)
Frequency (MHz)				668	678	693	
10	QPSK	1	0	23.28	23.30	23.23	24
10	QPSK	1	25	23.05	23.25	23.19	
10	QPSK	1	49	23.15	23.09	23.02	
10	QPSK	25	0	22.08	22.38	22.24	
10	QPSK	25	12	22.10	22.05	22.03	23
10	QPSK	25	25	22.07	22.01	22.05	
10	QPSK	50	0	22.16	22.23	22.27	
10	16QAM	1	0	22.01	22.26	22.11	
10	16QAM	1	25	22.05	21.89	22.03	23
10	16QAM	1	49	21.91	22.08	22.10	
10	16QAM	25	0	21.10	21.30	21.14	
10	16QAM	25	12	21.09	21.21	21.07	
10	16QAM	25	25	21.17	20.92	21.13	22
10	16QAM	50	0	21.28	21.12	21.09	
10	64QAM	1	0	21.23	21.29	21.17	
10	64QAM	1	25	21.04	21.17	21.07	
10	64QAM	1	49	21.06	21.00	21.12	22
10	64QAM	25	0	20.12	20.39	20.34	
10	64QAM	25	12	20.25	20.02	20.12	
10	64QAM	25	25	20.03	20.30	20.23	
10	64QAM	50	0	20.05	19.98	20.09	21
Channel				133147	133247	133447	Tune-up limit (dBm)
Frequency (MHz)				665.5	675.5	695.5	
5	QPSK	1	0	23.06	23.28	23.16	24
5	QPSK	1	12	23.18	23.17	23.15	
5	QPSK	1	24	23.22	23.06	23.05	
5	QPSK	12	0	22.32	22.33	22.23	
5	QPSK	12	7	22.25	22.21	22.22	23
5	QPSK	12	13	22.18	22.21	22.25	
5	QPSK	25	0	21.94	22.06	22.08	
5	16QAM	1	0	22.04	22.08	22.12	
5	16QAM	1	12	21.81	21.94	22.06	23
5	16QAM	1	24	22.03	21.92	22.17	
5	16QAM	12	0	21.17	21.30	21.28	
5	16QAM	12	7	21.17	21.21	21.22	
5	16QAM	12	13	21.15	20.95	21.29	22
5	16QAM	25	0	21.13	21.22	21.01	
5	64QAM	1	0	21.21	20.97	20.86	
5	64QAM	1	12	21.02	20.86	20.97	
5	64QAM	1	24	21.14	20.99	21.22	22
5	64QAM	12	0	20.13	20.22	20.11	
5	64QAM	12	7	19.97	20.09	20.02	
5	64QAM	12	13	19.97	20.14	20.08	
5	64QAM	25	0	20.10	20.27	20.03	21



Band 41 (2496~2690MHz) (dBm)									
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Low Channel	Middle Channel	Middle High Channel	High Channel	Tune-up limit (dBm)
Channel				39750	40185	40620	41055	41490	
Frequency (MHz)				2506	2549.5	2593	2636.5	2680	
20	QPSK	1	0	23.64	23.70	23.78	23.63	23.65	24.5
20	QPSK	1	49	23.53	23.68	23.66	23.60	23.63	
20	QPSK	1	99	23.60	23.65	23.63	23.59	23.61	
20	QPSK	50	0	22.69	22.68	22.76	22.65	22.71	
20	QPSK	50	24	22.50	22.45	22.63	22.62	22.66	23.5
20	QPSK	50	50	22.60	22.46	22.65	22.69	22.63	
20	QPSK	100	0	22.60	22.62	22.54	22.48	22.55	
20	16QAM	1	0	22.41	22.46	22.54	22.36	22.73	
20	16QAM	1	49	22.57	22.35	22.45	22.55	22.32	23.5
20	16QAM	1	99	22.32	22.42	22.68	22.61	22.43	
20	16QAM	50	0	21.45	21.61	21.80	21.60	21.56	
20	16QAM	50	24	21.54	21.73	21.60	21.36	21.66	
20	16QAM	50	50	21.78	21.54	21.42	21.46	21.59	22.5
20	16QAM	100	0	21.51	21.54	21.58	21.40	21.70	
20	64QAM	1	0	21.42	21.44	21.51	21.71	21.44	
20	64QAM	1	49	21.60	21.60	21.71	21.34	21.30	
20	64QAM	1	99	21.63	21.44	21.33	21.60	21.35	21.5
20	64QAM	50	0	20.39	20.72	20.86	20.65	20.73	
20	64QAM	50	24	20.51	20.50	20.56	20.44	20.58	
20	64QAM	50	50	20.75	20.43	20.58	20.49	20.66	
20	64QAM	100	0	20.58	20.46	20.65	20.45	20.42	Channel
Frequency (MHz)				39725	40173	40620	41068	41515	
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	Tune-up limit (dBm)
15	QPSK	1	0	23.54	23.55	23.75	23.55	23.53	
15	QPSK	1	37	23.49	23.63	23.63	23.50	23.51	24.5
15	QPSK	1	74	23.54	23.51	23.50	23.48	23.52	
15	QPSK	36	0	22.46	22.38	22.55	22.32	22.66	
15	QPSK	36	20	22.38	22.25	22.48	22.51	22.51	
15	QPSK	36	39	22.51	22.28	22.74	22.69	22.49	23.5
15	QPSK	75	0	22.51	22.49	22.50	22.40	22.54	
15	16QAM	1	0	22.35	22.39	22.45	22.27	22.68	
15	16QAM	1	37	22.52	22.26	22.33	22.52	22.27	
15	16QAM	1	74	22.27	22.29	22.59	22.54	22.43	22.5
15	16QAM	36	0	21.32	21.57	21.75	21.52	21.43	
15	16QAM	36	20	21.51	21.63	21.57	21.22	21.58	
15	16QAM	36	39	21.66	21.40	21.38	21.37	21.50	
15	16QAM	75	0	21.51	21.54	21.58	21.26	21.57	22.5
15	64QAM	1	0	21.36	21.37	21.51	21.65	21.40	
15	64QAM	1	37	21.51	21.54	21.56	21.23	21.21	
15	64QAM	1	74	21.56	21.44	21.28	21.56	21.25	
15	64QAM	36	0	20.31	20.67	20.75	20.58	20.67	21.5
15	64QAM	36	20	20.50	20.39	20.51	20.38	20.56	
15	64QAM	36	39	20.67	20.29	20.47	20.44	20.63	
15	64QAM	75	0	20.57	20.36	20.60	20.34	20.35	
Channel				39700	40160	40620	41080	41540	Tune-up limit (dBm)
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	23.57	23.64	23.70	23.52	23.56	24.5
10	QPSK	1	25	23.43	23.57	23.61	23.46	23.49	
10	QPSK	1	49	23.51	23.55	23.62	23.47	23.53	
10	QPSK	25	0	22.37	22.43	22.51	22.38	22.66	
10	QPSK	25	12	22.43	22.36	22.52	22.49	22.59	23.5
10	QPSK	25	25	22.52	22.21	22.69	22.60	22.51	
10	QPSK	50	0	22.48	22.47	22.51	22.45	22.46	
10	16QAM	1	0	22.32	22.45	22.50	22.27	22.67	
10	16QAM	1	25	22.52	22.31	22.32	22.53	22.29	23.5
10	16QAM	1	49	22.23	22.30	22.53	22.55	22.30	
10	16QAM	25	0	21.36	21.54	21.71	21.48	21.45	
10	16QAM	25	12	21.54	21.68	21.48	21.32	21.57	
10	16QAM	25	25	21.72	21.47	21.40	21.34	21.46	22.5
10	16QAM	50	0	21.46	21.41	21.51	21.40	21.70	
10	64QAM	1	0	21.32	21.32	21.47	21.65	21.30	
10	64QAM	1	25	21.47	21.51	21.63	21.21	21.17	
10	64QAM	1	49	21.52	21.42	21.29	21.49	21.20	21.5
10	64QAM	25	0	20.36	20.60	20.73	20.50	20.68	
10	64QAM	25	12	20.51	20.47	20.49	20.37	20.48	
10	64QAM	25	25	20.66	20.42	20.51	20.49	20.61	
10	64QAM	50	0	20.45	20.37	20.54	20.35	20.41	Channel
Frequency (MHz)				39675	40148	40620	41093	41565	
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	Tune-up limit (dBm)
5	QPSK	1	0	23.56	23.62	23.76	23.57	23.54	
5	QPSK	1	12	23.52	23.62	23.60	23.53	23.55	24.5
5	QPSK	1	24	23.46	23.58	23.48	23.57	23.53	
5	QPSK	12	0	22.45	22.48	22.56	22.30	22.63	
5	QPSK	12	7	22.34	22.33	22.47	22.60	22.51	
5	QPSK	12	13	22.53	22.33	22.73	22.55	22.53	23.5
5	QPSK	25	0	22.50	22.53	22.42	22.39	22.41	
5	16QAM	1	0	22.29	22.36	22.53	22.27	22.61	
5	16QAM	1	12	22.55	22.20	22.31	22.45	22.26	
5	16QAM	1	24	22.32	22.27	22.67	22.55	22.37	23.5
5	16QAM	12	0	21.38	21.49	21.80	21.50	21.48	
5	16QAM	12	7	21.45	21.73	21.54	21.29	21.59	
5	16QAM	12	13	21.68	21.54	21.34	21.32	21.44	
5	16QAM	25	0	21.46	21.45	21.57	21.38	21.65	22.5
5	64QAM	1	0	21.36	21.33	21.45	21.67	21.44	
5	64QAM	1	12	21.60	21.54	21.70	21.33	21.24	
5	64QAM	1	24	21.58	21.42	21.32	21.49	21.21	
5	64QAM	12	0	20.39	20.64	20.77	20.62	20.72	21.5
5	64QAM	12	7	20.40	20.37	20.48	20.40	20.50	
5	64QAM	12	13	20.61	20.37	20.67	20.42	20.55	
5	64QAM	25	0	20.58	20.46	20.56	20.35	20.29	

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	16.12	16.50	18.00	100.00
		CH 7	2442	16.11	16.50	18.00	
		CH 13	2472	14.88	15.50	17.00	
	802.11g 6Mbps	CH 1	2412	15.55	16.00	17.00	100.00
		CH 7	2442	14.98	15.50	17.00	
		CH 13	2472	8.03	8.50	10.00	
	802.11n-HT20 MCS0	CH 1	2412	13.25	14.00	15.00	100.00
		CH 7	2442	13.05	13.50	15.00	
		CH 13	2472	8.98	9.50	11.00	
	802.11n-HT40 MCS0	CH 3	2422	13.91	14.50	14.00	75.90
		CH 7	2442	13.99	14.50	15.00	
		CH 11	2462	10.92	11.50	11.00	

Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
BR / EDR	CH 00	2402	7.66	6.26	6.31
	CH 39	2441	9.06	7.62	7.72
	CH 78	2480	7.75	6.70	6.87
Tune-up Limit			9.5	8.5	8.5
Duty Cycle %			77.39	77.44	77.49

Mode	Channel	Frequency (MHz)	Average power (dBm)
			GFSK
LE	CH 00	2402	-3.88
	CH 19	2440	-2.38
	CH 39	2480	-3.34
Tune-up Limit			-1
Duty Cycle %			65.6