



REPORT No.: SZ22120012S01

Annex E Conducted Power



Conducted Power

GSM850 TX Channel	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		
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8		
GSM 1 Tx slot	33.52	33.55	33.53	34.50	24.52	24.55	24.53	25.50	0.05
GPRS 1 Tx slot	33.50	33.53	33.51	34.50	24.50	24.53	24.51	25.50	
GPRS 2 Tx slots	32.01	32.05	32.02	33.00	26.01	26.05	26.02	27.00	0.04
GPRS 3 Tx slots	29.87	29.88	29.85	30.50	25.61	25.62	25.59	26.24	0.03
GPRS 4 Tx slots	28.90	28.93	28.89	29.50	25.90	25.93	25.89	26.50	0.04
EDGE 1 Tx slot	27.59	27.64	27.61	28.50	18.59	18.64	18.61	19.50	0.05
EDGE 2 Tx slots	25.59	25.61	25.58	26.50	19.59	19.61	19.58	20.50	0.03
EDGE 3 Tx slots	23.53	23.57	23.54	24.50	19.27	19.31	19.28	20.24	0.04
EDGE 4 Tx slots	22.14	22.19	22.16	23.00	19.14	19.19	19.16	20.00	0.05
Mode		Max.	33.55			Max.	26.05		
Attenuator							Cable Loss : 0.6		

GSM1900 TX Channel	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		
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8		
GSM 1 Tx slot	30.53	30.58	30.56	31.50	21.53	21.58	21.56	22.50	0.07
GPRS 1 Tx slot	30.51	30.55	30.54	31.50	21.51	21.55	21.54	22.50	
GPRS 2 Tx slots	29.05	29.06	29.03	30.00	23.05	23.06	23.03	24.00	0.03
GPRS 3 Tx slots	27.02	27.05	27.03	28.00	22.76	22.79	22.77	23.74	0.03
GPRS 4 Tx slots	26.03	26.08	26.04	27.00	23.03	23.08	23.04	24.00	0.05
EDGE 1 Tx slot	27.65	27.68	27.63	28.50	18.65	18.68	18.63	19.50	0.05
EDGE 2 Tx slots	25.79	25.82	25.78	26.50	19.79	19.82	19.78	20.50	0.04
EDGE 3 Tx slots	23.80	23.84	23.77	24.50	19.54	19.58	19.51	20.24	0.07
EDGE 4 Tx slots	22.68	22.73	22.70	23.50	19.68	19.73	19.70	20.50	0.05
Mode		Max.	30.58			Max.	23.08		
Attenuator							Cable Loss : 0.8		

Band TX Channel	WCDMA Band II (dBm)			Tune-up Limit (dBm)	WCDMA Band IV (dBm)			Tune-up Limit (dBm)	WCDMA Band V (dBm)			Tune-up Limit (dBm)
	9262	9400	9538		1312	1413	1513		4132	4182	4233	
Rx Channel	9602	9800	9938		1537	1638	1738		4557	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	23.52	23.68	23.61	24.50	23.69	23.71	23.62	24.50	23.52	23.61	23.57	24.50
3GPP Rel 6 HSDPA Subtest-1	23.44	23.53	23.54	24.00	23.59	23.63	23.60	24.00	23.37	23.41	23.38	24.00
3GPP Rel 6 HSDPA Subtest-2	23.26	23.30	23.35	24.00	23.48	23.52	23.57	24.00	23.26	23.30	23.35	24.00
3GPP Rel 6 HSDPA Subtest-3	23.17	23.25	23.26	23.50	23.39	23.47	23.48	24.00	23.17	23.25	23.26	23.50
3GPP Rel 6 HSDPA Subtest-4	23.05	23.10	23.11	23.50	23.27	23.32	23.33	24.00	23.05	23.10	23.11	23.50
3GPP Rel 8 DC-HSDPA Subtest-1	23.39	23.55	23.48	24.00	23.52	23.68	23.61	24.50	23.29	23.38	23.30	24.00
3GPP Rel 8 DC-HSDPA Subtest-2	23.31	23.40	23.41	24.00	23.44	23.53	23.54	24.00	23.11	23.15	23.20	24.00
3GPP Rel 8 DC-HSDPA Subtest-3	23.13	23.17	23.22	23.50	23.26	23.30	23.35	24.00	23.17	23.25	23.26	23.50
3GPP Rel 8 DC-HSDPA Subtest-4	23.04	23.12	23.13	23.50	23.32	23.40	23.41	24.00	23.17	23.33	23.26	23.50
3GPP Rel 8 HSUPA Subtest-1	23.17	23.33	23.26	24.00	23.32	23.48	23.41	24.00	23.09	23.18	23.19	23.50
3GPP Rel 8 HSUPA Subtest-2	23.09	23.18	23.19	23.50	23.24	23.33	23.34	24.00	22.91	22.95	23.00	23.50
3GPP Rel 8 HSUPA Subtest-3	22.91	22.95	23.00	23.50	23.06	23.10	23.15	23.50	22.82	22.90	22.91	23.50
3GPP Rel 8 HSUPA Subtest-4	22.82	22.90	22.91	23.50	22.97	23.05	23.06	23.50	22.75	22.83	22.84	23.50
3GPP Rel 8 HSUPA Subtest-5	22.69	22.77	22.78	23.50	22.84	22.92	22.93	23.50	22.62	22.70	22.71	23.50
3GPP Rel 7 HSPA (16QAM) Subtest-1	23.26	23.42	23.35	24.00	23.41	23.57	23.50	24.00	23.19	23.35	23.28	24.00
Attenuator		Cable Loss	0.6			Cable Loss	0.8			Cable Loss	0.6	
Mode		Max.	23.68			Max.	23.71			Max.	23.61	

Band TX Channel	CDMA2000 B00 (dBm)			Tune-up Limit (dBm)
	1013	384	777	
Frequency (MHz)	824.7	836.52	848.31	
RC1 SOE5	23.46	23.58	23.57	24.00
RC3 SOE5	23.39	23.49	23.51	24.00
RC3 SOE2 (F+SCH)	23.20	23.23	23.29	24.00
RC3 SOE2 (H+SCH)	23.14	23.22	23.22	24.00
RTAP 153.6Kbps	23.81	23.83	23.87	24.50
RTAP 409.6Kbps	23.44	23.55	23.58	24.00
Attenuator		Cable Loss	0.6	
Mode		Max.	23.93	



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)				1880	1880	1900	
20	QPSK	1	0	23.00	23.09	22.96	23.50
20	QPSK	1	49	22.93	23.03	22.96	
20	QPSK	1	99	23.00	22.92	23.01	
20	QPSK	50	0	22.16	22.18	22.11	23.50
20	QPSK	50	24	22.01	22.14	22.01	
20	QPSK	50	50	22.10	22.09	22.13	
20	QPSK	100	0	22.05	22.06	22.07	23.00
20	16QAM	1	0	22.07	22.23	21.96	
20	16QAM	1	49	22.07	22.22	22.07	
20	16QAM	1	99	22.00	22.05	22.04	23.00
20	16QAM	50	0	21.11	21.23	21.16	
20	16QAM	50	24	21.09	21.04	21.03	
20	16QAM	50	50	21.04	21.03	21.06	22.00
20	16QAM	100	0	21.04	21.06	21.08	
20	64QAM	1	0	21.07	21.28	21.15	
20	64QAM	1	49	21.10	21.17	20.97	22.00
20	64QAM	1	99	21.00	21.01	21.04	
20	64QAM	50	0	20.20	20.25	20.16	
20	64QAM	50	24	20.07	20.14	20.04	21.00
20	64QAM	50	50	20.11	20.06	20.08	
20	64QAM	100	0	20.10	20.13	20.09	
Channel				18675	18900	19125	
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	22.90	22.99	22.86	23.50
15	QPSK	1	37	22.83	22.93	22.86	
15	QPSK	1	74	22.90	22.82	22.91	
15	QPSK	36	0	22.06	22.08	22.01	23.50
15	QPSK	36	20	21.91	22.04	21.91	
15	QPSK	36	39	22.00	21.99	22.03	
15	QPSK	75	0	21.95	21.96	21.97	23.00
15	16QAM	1	0	21.97	22.13	21.86	
15	16QAM	1	37	21.97	22.12	21.97	
15	16QAM	1	74	21.90	21.95	21.94	22.00
15	16QAM	36	0	21.01	21.13	21.06	
15	16QAM	36	20	20.99	20.94	20.93	
15	16QAM	36	39	20.94	20.93	20.96	22.00
15	16QAM	75	0	20.94	20.96	20.98	
15	64QAM	1	0	20.97	21.18	21.05	
15	64QAM	1	37	21.00	21.07	20.87	22.00
15	64QAM	1	74	20.90	20.91	20.94	
15	64QAM	36	0	20.10	20.15	20.06	
15	64QAM	36	20	19.97	20.04	19.94	21.00
15	64QAM	36	39	20.01	19.96	19.98	
15	64QAM	75	0	20.00	20.03	19.99	
Channel				18650	18900	19150	
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	22.78	22.87	22.74	23.50
10	QPSK	1	25	22.71	22.81	22.74	
10	QPSK	1	49	22.78	22.70	22.79	
10	QPSK	25	0	21.94	21.96	21.89	23.50
10	QPSK	25	12	21.79	21.92	21.79	
10	QPSK	25	25	21.88	21.87	21.91	
10	QPSK	50	0	21.83	21.84	21.85	23.00
10	16QAM	1	0	21.85	22.01	21.74	
10	16QAM	1	25	21.85	22.00	21.85	
10	16QAM	1	49	21.78	21.83	21.82	22.00
10	16QAM	25	0	20.89	21.01	20.94	
10	16QAM	25	12	20.87	20.82	20.81	
10	16QAM	25	25	20.82	20.81	20.84	22.00
10	16QAM	50	0	20.82	20.84	20.86	
10	64QAM	1	0	20.85	21.06	20.93	
10	64QAM	1	25	20.88	20.95	20.75	22.00
10	64QAM	1	49	20.78	20.79	20.82	
10	64QAM	25	0	19.98	20.03	19.94	
10	64QAM	25	12	19.85	19.92	19.82	21.00
10	64QAM	25	25	19.89	19.84	19.86	
10	64QAM	50	0	19.88	19.91	19.87	
Channel				18625	18900	19175	
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	22.66	22.75	22.62	23.50
5	QPSK	1	12	22.59	22.69	22.62	
5	QPSK	1	24	22.66	22.58	22.67	
5	QPSK	12	0	21.82	21.84	21.77	23.50
5	QPSK	12	7	21.67	21.80	21.67	
5	QPSK	12	13	21.76	21.75	21.79	
5	QPSK	25	0	21.71	21.72	21.73	23.00
5	16QAM	1	0	21.73	21.88	21.73	
5	16QAM	1	24	21.66	21.71	21.70	
5	16QAM	12	0	20.77	20.89	20.82	22.00
5	16QAM	12	7	20.75	20.70	20.69	
5	16QAM	12	13	20.70	20.69	20.72	
5	16QAM	25	0	20.70	20.72	20.74	22.00
5	64QAM	1	0	20.73	20.94	20.81	
5	64QAM	1	12	20.76	20.83	20.63	
5	64QAM	1	24	20.66	20.67	20.70	22.00
5	64QAM	12	0	19.86	19.91	19.82	
5	64QAM	12	7	19.73	19.80	19.70	
5	64QAM	12	13	19.77	19.72	19.74	21.00
5	64QAM	25	0	19.76	19.79	19.75	
Channel				18615	18900	19185	
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	22.57	22.66	22.53	23.50
3	QPSK	1	8	22.50	22.60	22.53	
3	QPSK	1	14	22.57	22.49	22.58	
3	QPSK	8	0	21.73	21.75	21.68	23.50
3	QPSK	8	4	21.58	21.71	21.58	

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	22.87	23.07	23.02	23.50
20	QPSK	1	49	23.04	23.03	23.00	
20	QPSK	1	99	23.01	23.04	23.00	
20	QPSK	50	0	22.20	22.27	22.10	23.50
20	QPSK	50	24	22.21	22.25	22.18	
20	QPSK	50	50	22.04	22.13	22.07	
20	QPSK	100	0	22.14	22.18	22.08	23.00
20	16QAM	1	0	22.33	22.35	22.25	
20	16QAM	1	49	22.26	22.29	22.15	
20	16QAM	1	99	21.99	22.17	22.20	23.00
20	16QAM	50	0	21.03	21.25	21.26	
20	16QAM	50	24	21.29	21.17	21.26	
20	16QAM	50	50	21.00	20.99	21.21	22.00
20	16QAM	100	0	21.21	21.10	21.04	
20	64QAM	1	0	21.23	21.23	21.26	
20	64QAM	1	49	21.31	21.19	21.17	22.00
20	64QAM	1	99	21.01	21.14	21.24	
20	64QAM	50	0	20.10	20.12	20.16	
20	64QAM	50	24	20.16	20.23	20.12	21.00
20	64QAM	50	50	20.16	20.09	20.31	
20	64QAM	100	0	20.03	20.13	20.20	
Channel				20025	20175	20325	
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	22.75	22.95	22.90	23.50
15	QPSK	1	37	22.92	22.91	22.88	
15	QPSK	1	74	22.89	22.92	22.88	
15	QPSK	36	0	22.08	22.15	21.98	23.50
15	QPSK	36	20	22.09	22.13	22.06	
15	QPSK	36	39	21.92	22.01	21.95	
15	QPSK	75	0	22.02	22.06	21.96	23.00
15	16QAM	1	0	22.21	22.23	22.13	
15	16QAM	1	37	22.14	22.17	22.03	
15	16QAM	1	74	21.87	22.05	22.08	22.00
15	16QAM	36	0	20.91	21.13	21.14	
15	16QAM	36	20	21.17	21.05	21.14	
15	16QAM	36	39	20.88	20.87	21.09	22.00
15	16QAM	75	0	21.09	20.98	20.92	
15	64QAM	1	0	21.11	21.11	21.14	
15	64QAM	1	37	21.19	21.07	21.05	22.00
15	64QAM	1	74	20.89	21.02	21.12	
15	64QAM	36	0	19.98	20.00	20.04	
15	64QAM	36	20	20.04	20.11	20.00	21.00
15	64QAM	36	39	20.04	19.97	20.19	
15	64QAM	75	0	19.91	20.01	20.08	
Channel				20000	20175	20350	
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	22.63	22.83	22.78	23.50
10	QPSK	1	25	22.80	22.79	22.76	
10	QPSK	1	49	22.77	22.80	22.76	
10	QPSK	25	0	21.96	22.03	21.86	23.50
10	QPSK	25	12	21.97	22.01	21.94	
10	QPSK	25	25	21.80	21.89	21.83	
10	QPSK	50	0	21.90	21.94	21.84	23.00
10	16QAM	1	0	22.09	22.11	22.01	
10	16QAM	1	25	22.02	22.05	21.91	
10	16QAM	1	49	21.75	21.93	21.96	22.00
10	16QAM	25	0	20.79	21.01	21.02	
10	16QAM	25	12	21.05	20.93	21.02	
10	16QAM	25	25	20.76	20.75	20.97	22.00
10	16QAM	5					



3	QPSK	8	7	21.67	21.66	21.70	23.00
3	QPSK	15	0	21.62	21.63	21.64	
3	16QAM	1	0	21.64	21.80	21.53	
3	16QAM	1	8	21.64	21.79	21.64	
3	16QAM	1	14	21.57	21.62	21.61	
3	16QAM	8	0	20.68	20.80	20.73	
3	16QAM	8	4	20.66	20.61	20.60	
3	16QAM	8	7	20.61	20.60	20.63	
3	16QAM	15	0	20.61	20.63	20.65	
3	64QAM	1	0	20.64	20.85	20.72	
3	64QAM	1	8	20.67	20.74	20.54	
3	64QAM	1	14	20.57	20.58	20.61	
3	64QAM	8	0	19.77	19.82	19.73	
3	64QAM	8	4	19.64	19.71	19.61	
3	64QAM	8	7	19.68	19.63	19.65	
3	64QAM	15	0	19.67	19.70	19.66	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	22.52	22.61	22.48	
1.4	QPSK	1	3	22.45	22.55	22.48	
1.4	QPSK	1	5	22.52	22.44	22.53	
1.4	QPSK	3	0	21.68	21.70	21.63	
1.4	QPSK	3	1	21.53	21.66	21.53	
1.4	QPSK	3	3	21.62	21.61	21.65	
1.4	QPSK	6	0	21.57	21.58	21.59	
1.4	16QAM	1	0	21.59	21.75	21.48	
1.4	16QAM	1	3	21.59	21.74	21.59	
1.4	16QAM	1	5	21.52	21.57	21.56	
1.4	16QAM	3	0	20.63	20.75	20.68	
1.4	16QAM	3	1	20.61	20.56	20.55	
1.4	16QAM	3	3	20.56	20.55	20.58	
1.4	16QAM	6	0	20.56	20.58	20.60	
1.4	64QAM	1	0	20.59	20.80	20.67	
1.4	64QAM	1	3	20.62	20.69	20.49	
1.4	64QAM	1	5	20.52	20.53	20.56	
1.4	64QAM	3	0	19.72	19.77	19.68	
1.4	64QAM	3	1	19.59	19.66	19.56	
1.4	64QAM	3	3	19.63	19.58	19.60	
1.4	64QAM	6	0	19.62	19.65	19.61	
1.4	64QAM	6	0	19.62	19.65	19.61	

3	QPSK	8	7	21.62	21.71	21.65	23.00
3	QPSK	15	0	21.72	21.76	21.66	
3	16QAM	1	0	21.91	21.93	21.83	
3	16QAM	1	8	21.84	21.87	21.73	
3	16QAM	1	14	21.57	21.75	21.78	
3	16QAM	8	0	20.61	20.83	20.84	
3	16QAM	8	4	20.87	20.75	20.84	
3	16QAM	8	7	20.58	20.57	20.79	
3	16QAM	15	0	20.79	20.68	20.62	
3	64QAM	1	0	20.81	20.81	20.84	
3	64QAM	1	8	20.89	20.77	20.75	
3	64QAM	1	14	20.59	20.72	20.82	
3	64QAM	8	0	19.68	19.70	19.74	
3	64QAM	8	4	19.74	19.81	19.70	
3	64QAM	8	7	19.74	19.67	19.89	
3	64QAM	15	0	19.61	19.71	19.78	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	22.40	22.60	22.55	
1.4	QPSK	1	3	22.57	22.56	22.53	
1.4	QPSK	1	5	22.54	22.57	22.53	
1.4	QPSK	3	0	21.73	21.80	21.63	
1.4	QPSK	3	1	21.74	21.78	21.71	
1.4	QPSK	3	3	21.57	21.66	21.60	
1.4	QPSK	6	0	21.67	21.71	21.61	
1.4	16QAM	1	0	21.86	21.88	21.78	
1.4	16QAM	1	3	21.79	21.82	21.68	
1.4	16QAM	1	5	21.52	21.70	21.73	
1.4	16QAM	3	0	20.56	20.78	20.79	
1.4	16QAM	3	1	20.82	20.70	20.79	
1.4	16QAM	3	3	20.53	20.52	20.74	
1.4	16QAM	6	0	20.74	20.63	20.57	
1.4	64QAM	1	0	20.76	20.76	20.79	
1.4	64QAM	1	3	20.84	20.72	20.70	
1.4	64QAM	1	5	20.54	20.67	20.77	
1.4	64QAM	3	0	19.63	19.65	19.69	
1.4	64QAM	3	1	19.69	19.76	19.65	
1.4	64QAM	3	3	19.69	19.62	19.84	
1.4	64QAM	6	0	19.56	19.66	19.73	



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	24.00
Frequency (MHz)				829	836.5	844	
10	QPSK	1	0	23.56	23.61	23.52	24.00
10	QPSK	1	25	23.49	23.52	23.50	
10	QPSK	1	49	23.45	23.52	23.49	23.50
10	QPSK	25	0	22.72	22.73	22.65	
10	QPSK	25	12	22.46	22.46	22.73	23.50
10	QPSK	25	25	22.73	22.51	22.76	
10	QPSK	50	0	22.75	22.75	22.70	23.50
10	16QAM	1	0	22.74	22.76	22.65	
10	16QAM	1	25	22.66	22.74	22.50	23.50
10	16QAM	1	49	22.64	22.49	22.59	
10	16QAM	25	0	21.58	21.78	21.81	22.50
10	16QAM	25	12	21.71	21.72	21.55	
10	16QAM	25	25	21.65	21.60	21.68	22.50
10	16QAM	50	0	21.55	21.43	21.52	
10	64QAM	1	0	21.60	21.71	21.62	22.00
10	64QAM	1	25	21.55	21.72	21.59	
10	64QAM	1	49	21.64	21.50	21.51	22.00
10	64QAM	25	0	20.65	20.63	20.67	
10	64QAM	25	12	20.71	20.77	20.69	21.00
10	64QAM	25	25	20.58	20.87	20.66	
10	64QAM	50	0	20.69	20.68	20.73	21.00
Channel				20425	20525	20625	
Frequency (MHz)				828.5	836.5	846.5	
5	QPSK	1	0	23.46	23.51	23.42	24.00
5	QPSK	1	12	23.39	23.47	23.40	
5	QPSK	1	24	23.35	23.42	23.39	23.50
5	QPSK	12	0	22.62	22.63	22.55	
5	QPSK	12	7	22.36	22.36	22.63	23.50
5	QPSK	12	13	22.63	22.41	22.66	
5	QPSK	25	0	22.65	22.65	22.60	23.50
5	16QAM	1	0	22.64	22.66	22.55	
5	16QAM	1	12	22.56	22.64	22.40	23.50
5	16QAM	1	24	22.54	22.39	22.49	
5	16QAM	12	0	21.48	21.68	21.71	22.50
5	16QAM	12	7	21.61	21.62	21.45	
5	16QAM	12	13	21.55	21.50	21.58	22.50
5	16QAM	25	0	21.45	21.33	21.42	
5	64QAM	1	0	21.50	21.61	21.52	22.00
5	64QAM	1	12	21.45	21.62	21.49	
5	64QAM	1	24	21.54	21.40	21.41	22.00
5	64QAM	12	0	20.55	20.53	20.57	
5	64QAM	12	7	20.61	20.67	20.59	21.00
5	64QAM	12	13	20.48	20.77	20.56	
5	64QAM	25	0	20.59	20.58	20.63	21.00
Channel				20415	20525	20635	
Frequency (MHz)				825.5	836.5	847.5	
3	QPSK	1	0	23.36	23.41	23.32	24.00
3	QPSK	1	8	23.29	23.37	23.30	
3	QPSK	1	14	23.25	23.32	23.29	23.50
3	QPSK	8	0	22.52	22.53	22.45	
3	QPSK	8	4	22.26	22.26	22.53	23.50
3	QPSK	8	7	22.53	22.31	22.56	
3	QPSK	15	0	22.55	22.55	22.50	23.50
3	16QAM	1	0	22.54	22.56	22.45	
3	16QAM	1	8	22.46	22.54	22.30	23.50
3	16QAM	1	14	22.44	22.29	22.39	
3	16QAM	8	0	21.38	21.58	21.61	22.50
3	16QAM	8	4	21.51	21.52	21.35	
3	16QAM	8	7	21.45	21.40	21.48	22.50
3	16QAM	15	0	21.35	21.23	21.32	
3	64QAM	1	0	21.40	21.51	21.42	22.00
3	64QAM	1	8	21.35	21.52	21.39	
3	64QAM	1	14	21.44	21.30	21.31	21.00
3	64QAM	8	0	20.45	20.43	20.47	
3	64QAM	8	4	20.51	20.57	20.49	21.00
3	64QAM	8	7	20.38	20.67	20.46	
3	64QAM	15	0	20.49	20.48	20.53	21.00
Channel				20407	20525	20643	
Frequency (MHz)				824.7	836.5	848.3	
1.4	QPSK	1	0	23.26	23.31	23.22	24.00
1.4	QPSK	1	3	23.19	23.27	23.20	
1.4	QPSK	1	5	23.15	23.22	23.19	23.50
1.4	QPSK	3	0	22.42	22.43	22.35	
1.4	QPSK	3	1	22.16	22.16	22.43	23.00
1.4	QPSK	3	3	22.43	22.21	22.46	
1.4	QPSK	6	0	22.45	22.45	22.40	23.00
1.4	16QAM	1	0	22.44	22.46	22.35	
1.4	16QAM	1	3	22.36	22.44	22.20	23.00
1.4	16QAM	1	5	22.34	22.19	22.29	
1.4	16QAM	3	0	21.28	21.48	21.51	22.00
1.4	16QAM	3	1	21.41	21.42	21.25	
1.4	16QAM	3	3	21.35	21.30	21.38	22.00
1.4	16QAM	6	0	21.25	21.13	21.22	
1.4	64QAM	1	0	21.30	21.41	21.32	22.00
1.4	64QAM	1	3	21.25	21.42	21.29	
1.4	64QAM	1	5	21.34	21.20	21.21	22.00
1.4	64QAM	3	0	20.35	20.33	20.37	
1.4	64QAM	3	1	20.41	20.47	20.39	21.00
1.4	64QAM	3	3	20.28	20.57	20.36	
1.4	64QAM	6	0	20.39	20.38	20.43	21.00
Channel				20407	20525	20643	
Frequency (MHz)				824.7	836.5	848.3	

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	23.50
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	23.02	23.07	23.02	23.50
20	QPSK	1	49	23.01	23.03	23.01	
20	QPSK	1	99	23.07	22.98	23.09	23.50
20	QPSK	50	0	22.15	22.28	22.09	
20	QPSK	50	24	22.04	22.10	22.18	23.50
20	QPSK	50	50	22.19	22.18	22.27	
20	QPSK	100	0	22.08	22.08	22.07	23.00
20	16QAM	1	0	22.25	22.32	22.25	
20	16QAM	1	49	22.32	22.27	22.15	23.00
20	16QAM	1	99	22.02	22.04	22.27	
20	16QAM	50	0	21.03	21.35	21.30	22.00
20	16QAM	50	24	21.13	21.28	21.02	
20	16QAM	50	50	21.04	21.05	21.18	22.00
20	16QAM	100	0	21.08	21.00	21.02	
20	64QAM	1	0	21.09	21.33	21.21	22.00
20	64QAM	1	49	21.28	21.20	21.25	
20	64QAM	1	99	20.94	21.30	20.99	22.00
20	64QAM	50	0	20.36	20.20	20.30	
20	64QAM	50	24	20.16	20.20	20.07	21.00
20	64QAM	50	50	20.34	20.24	20.23	
20	64QAM	100	0	20.08	20.41	20.30	21.00
Channel				20825	21100	21375	
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	22.97	23.02	22.97	23.50
15	QPSK	1	37	22.96	22.98	22.96	
15	QPSK	1	74	23.02	22.93	23.04	23.50
15	QPSK	36	0	22.10	22.23	22.04	
15	QPSK	36	20	21.99	22.05	22.13	23.50
15	QPSK	36	39	22.14	22.13	22.22	
15	QPSK	75	0	22.03	22.03	22.02	23.00
15	16QAM	1	0	22.20	22.27	22.20	
15	16QAM	1	37	22.27	22.22	22.10	23.00
15	16QAM	1	74	21.97	21.99	22.22	
15	16QAM	36	0	20.98	21.30	21.25	22.00
15	16QAM	36	20	21.08	21.23	20.97	
15	16QAM	36	39	20.99	21.00	21.13	22.00
15	16QAM	75	0	21.03	20.95	20.97	
15	64QAM	1	0	21.04	21.28	21.16	22.00
15	64QAM	1	37	21.23	21.15	21.20	
15	64QAM	1	74	20.89	21.25	20.94	22.00
15	64QAM	36	0	20.31	20.15	20.25	
15	64QAM	36	20	20.11	20.15	20.02	21.00
15	64QAM	36	39	20.29	20.19	20.18	
15	64QAM	75	0	20.03	20.36	20.25	21.00
Channel				20800	21100	21400	
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	22.92	22.97	22.92	23.50
10	QPSK	1	25	22.91	22.93	22.91	
10	QPSK	1	49	22.97	22.88	22.99	23.50
10	QPSK	25	0	22.05	22.18	21.99	
10	QPSK	25	12	21.94	22.00	22.08	23.50
10	QPSK	25	25	22.09	22.08	22.17	
10	QPSK	50	0	21.98	21.98	21.97	23.00
10	16QAM	1	0	22.15	22.22	22.15	
10	16QAM	1	25	22.22	22.17	22.05	23.00
10	16QAM	1	49	21.92	21.94	22.17	
10	16QAM	25	0	20.93	21.25	21.20	22.00
10	16QAM	25	12	21.03	21.18	20.92	
10	16QAM	25	25	20.94	20.95	21.08	22.00
10	16QAM	50	0	20.98	20.90	2	



Band 12 (700MHz Low Band) (dBm) Part 27F(only on channel required)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				23060	23095	23130	24.00
Frequency (MHz)				704	707.5	711	
10	QPSK	1	0	23.11	23.29	23.20	24.00
10	QPSK	1	25	23.21	23.20	23.27	
10	QPSK	1	49	23.17	23.20	23.25	
10	QPSK	25	0	22.38	22.49	22.22	
10	QPSK	25	12	22.36	22.40	22.30	23.00
10	QPSK	25	25	22.26	22.45	22.48	
10	QPSK	50	0	22.26	22.48	22.23	
10	16QAM	1	0	22.44	22.40	22.36	
10	16QAM	1	25	22.53	22.28	22.27	23.00
10	16QAM	1	49	22.19	22.32	22.31	
10	16QAM	25	0	21.47	21.55	21.51	
10	16QAM	25	12	21.37	21.39	21.34	
10	16QAM	25	25	21.43	21.28	21.47	22.00
10	16QAM	50	0	21.27	21.31	21.14	
10	64QAM	1	0	21.15	21.56	21.55	
10	64QAM	1	25	21.41	21.37	21.54	
10	64QAM	1	49	21.32	21.36	21.27	22.00
10	64QAM	25	0	20.32	20.42	20.27	
10	64QAM	25	12	20.29	20.23	20.24	
10	64QAM	25	25	20.56	20.29	20.35	
10	64QAM	50	0	20.26	20.27	20.41	21.00
Channel				23035	23095	23155	
Frequency (MHz)				701.5	707.5	713.5	
5	QPSK	1	0	23.02	23.20	23.11	24.00
5	QPSK	1	12	23.12	23.11	23.18	
5	QPSK	1	24	23.08	23.11	23.16	
5	QPSK	12	0	22.29	22.40	22.13	
5	QPSK	12	7	22.27	22.31	22.21	23.00
5	QPSK	12	13	22.17	22.36	22.39	
5	QPSK	25	0	22.17	22.29	22.14	
5	16QAM	1	0	22.35	22.31	22.27	
5	16QAM	1	12	22.44	22.19	22.18	23.00
5	16QAM	1	24	22.10	22.23	22.22	
5	16QAM	12	0	21.38	21.46	21.42	
5	16QAM	12	7	21.28	21.30	21.25	
5	16QAM	12	13	21.34	21.19	21.38	22.00
5	16QAM	25	0	21.18	21.22	21.05	
5	64QAM	1	0	21.06	21.47	21.46	
5	64QAM	1	12	21.32	21.28	21.45	
5	64QAM	1	24	21.23	21.27	21.18	22.00
5	64QAM	12	0	20.23	20.33	20.18	
5	64QAM	12	7	20.20	20.14	20.15	
5	64QAM	12	13	20.47	20.20	20.26	
5	64QAM	25	0	20.17	20.18	20.32	21.00
Channel				23025	23095	23165	
Frequency (MHz)				700.5	707.5	714.5	
3	QPSK	1	0	22.93	23.11	23.02	24.00
3	QPSK	1	8	23.03	23.02	23.09	
3	QPSK	1	14	22.99	23.02	23.07	
3	QPSK	8	0	22.20	22.31	22.04	
3	QPSK	8	4	22.18	22.22	22.12	23.00
3	QPSK	8	7	22.08	22.27	22.30	
3	QPSK	15	0	22.08	22.20	22.05	
3	16QAM	1	0	22.26	22.22	22.18	
3	16QAM	1	8	22.35	22.10	22.09	23.00
3	16QAM	1	14	22.01	22.14	22.13	
3	16QAM	8	0	21.29	21.37	21.33	
3	16QAM	8	4	21.19	21.21	21.16	
3	16QAM	8	7	21.25	21.10	21.29	22.00
3	16QAM	15	0	21.09	21.13	20.96	
3	64QAM	1	0	20.97	21.38	21.37	
3	64QAM	1	8	21.23	21.19	21.36	
3	64QAM	1	14	21.14	21.18	21.09	22.00
3	64QAM	8	0	20.14	20.24	20.09	
3	64QAM	8	4	20.11	20.05	20.06	
3	64QAM	8	7	20.38	20.11	20.17	
3	64QAM	15	0	20.08	20.09	20.23	21.00
Channel				23017	23095	23173	
Frequency (MHz)				699.7	707.5	715.3	
1.4	QPSK	1	0	22.88	23.06	22.97	23.5
1.4	QPSK	1	3	22.98	22.97	23.04	
1.4	QPSK	1	5	22.94	22.97	23.02	
1.4	QPSK	3	0	22.15	22.26	21.99	
1.4	QPSK	3	1	22.13	22.17	22.07	23
1.4	QPSK	3	3	22.03	22.22	22.25	
1.4	QPSK	6	0	22.03	22.15	22.00	
1.4	16QAM	1	0	22.21	22.17	22.13	
1.4	16QAM	1	3	22.30	22.05	22.04	22.5
1.4	16QAM	1	5	21.96	22.09	22.08	
1.4	16QAM	3	0	21.24	21.32	21.28	
1.4	16QAM	3	1	21.14	21.16	21.11	
1.4	16QAM	3	3	21.20	21.05	21.24	21.5
1.4	16QAM	6	0	21.04	21.08	20.91	
1.4	64QAM	1	0	20.92	21.17	21.15	
1.4	64QAM	1	3	21.10	21.14	21.10	
1.4	64QAM	1	5	21.09	21.13	21.04	21.5
1.4	64QAM	3	0	20.09	20.19	20.04	
1.4	64QAM	3	1	20.06	20.00	20.01	
1.4	64QAM	3	3	20.33	20.06	20.12	
1.4	64QAM	6	0	20.03	20.04	20.18	20.5

Band 17 (700MHz Band) (dBm) Part 27H(only on channel required)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				23780	23790	23800	24.00
Frequency (MHz)				709	710	711	
10	QPSK	1	0	23.46	23.54	23.50	24.00
10	QPSK	1	25	23.12	23.31	23.21	
10	QPSK	1	49	23.32	23.24	23.28	
10	QPSK	25	0	22.24	22.48	22.36	
10	QPSK	25	12	22.28	22.40	22.39	23.00
10	QPSK	25	25	22.47	22.24	22.31	
10	QPSK	50	0	22.35	22.35	22.38	
10	16QAM	1	0	22.42	22.49	22.41	
10	16QAM	1	25	22.36	22.32	22.19	23.00
10	16QAM	1	49	22.44	22.17	22.40	
10	16QAM	25	0	21.28	21.29	21.34	
10	16QAM	25	12	21.25	21.36	21.20	
10	16QAM	25	25	21.45	21.27	21.41	22.00
10	16QAM	50	0	21.13	21.38	21.37	
10	64QAM	1	0	21.16	21.43	21.50	
10	64QAM	1	25	21.32	21.30	21.45	
10	64QAM	1	49	21.31	21.46	21.28	22.00
10	64QAM	25	0	20.36	20.53	20.51	
10	64QAM	25	12	20.43	20.41	20.35	
10	64QAM	25	25	20.34	20.26	20.32	
10	64QAM	50	0	20.41	20.39	20.37	21.00
Channel				23765	23790	23825	
Frequency (MHz)				706.5	710	713.5	
5	QPSK	1	0	23.37	23.45	23.41	24.00
5	QPSK	1	12	23.03	23.22	23.12	
5	QPSK	1	24	23.23	23.15	23.19	
5	QPSK	12	0	22.15	22.39	22.27	
5	QPSK	12	7	22.19	22.31	22.30	23.00
5	QPSK	12	13	22.38	22.15	22.22	
5	QPSK	25	0	22.26	22.26	22.29	
5	16QAM	1	0	22.33	22.40	22.32	
5	16QAM	1	12	22.27	22.23	22.10	23.00
5	16QAM	1	24	22.35	22.08	22.31	
5	16QAM	12	0	21.19	21.20	21.25	
5	16QAM	12	7	21.16	21.27	21.11	
5	16QAM	12	13	21.36	21.18	21.32	22.00
5	16QAM	25	0	21.04	21.29	21.28	
5	64QAM	1	0	21.07	21.34	21.41	
5	64QAM	1	12	21.23	21.21	21.36	
5	64QAM	1	24	21.22	21.37	21.19	22.00
5	64QAM	12	0	20.27	20.44	20.42	
5	64QAM	12	7	20.34	20.32	20.26	
5	64QAM	12	13	20.25	20.17	20.23	
5	64QAM	25	0	20.32	20.30	20.28	21.00



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	23.20	23.26	23.25	24.00
20	QPSK	1	49	23.16	23.22	23.07	
20	QPSK	1	99	23.16	23.13	23.13	
20	QPSK	50	0	22.30	22.34	22.18	23.00
20	QPSK	50	24	22.30	22.05	22.21	
20	QPSK	50	50	22.16	22.12	22.24	
20	QPSK	100	0	22.18	22.16	22.19	23.00
20	16QAM	1	0	22.16	22.35	22.32	
20	16QAM	1	49	22.24	22.29	22.24	
20	16QAM	1	99	22.22	22.15	22.41	22.00
20	16QAM	50	0	21.23	21.33	21.28	
20	16QAM	50	24	21.26	21.26	21.20	
20	16QAM	50	50	21.25	21.17	21.38	22.00
20	16QAM	100	0	21.23	21.20	21.30	
20	64QAM	1	0	21.29	21.43	21.46	
20	64QAM	1	49	21.28	21.18	21.12	22.00
20	64QAM	1	99	21.16	21.36	21.08	
20	64QAM	50	0	20.38	20.38	20.33	
20	64QAM	50	24	20.24	20.14	20.37	21.00
20	64QAM	50	50	20.28	20.39	20.28	
20	64QAM	100	0	20.25	20.21	20.28	
Channel				37825	38000	38175	
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	23.11	23.17	23.16	24.00
15	QPSK	1	37	23.07	23.13	22.98	
15	QPSK	1	74	23.07	23.04	23.04	
15	QPSK	36	0	22.21	22.25	22.09	23.00
15	QPSK	36	20	22.21	21.96	22.12	
15	QPSK	36	39	22.07	22.03	22.15	
15	QPSK	75	0	22.09	22.07	22.10	23.00
15	16QAM	1	0	22.07	22.26	22.23	
15	16QAM	1	37	22.15	22.20	22.15	
15	16QAM	1	74	22.13	22.06	22.32	22.00
15	16QAM	36	0	21.14	21.24	21.19	
15	16QAM	36	20	21.17	21.17	21.11	
15	16QAM	36	39	21.16	21.06	21.29	22.00
15	16QAM	75	0	21.14	21.11	21.21	
15	64QAM	1	0	21.20	21.34	21.37	
15	64QAM	1	37	21.19	21.09	21.03	22.00
15	64QAM	1	74	21.07	21.27	20.99	
15	64QAM	36	0	20.29	20.29	20.24	
15	64QAM	36	20	20.15	20.05	20.28	21.00
15	64QAM	36	39	20.19	20.30	20.17	
15	64QAM	75	0	20.16	20.12	20.19	
Channel				37800	38000	38200	
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	23.02	23.08	23.07	24.00
10	QPSK	1	25	22.98	23.04	22.89	
10	QPSK	1	49	22.98	22.95	22.95	
10	QPSK	25	0	22.12	22.16	22.00	23.00
10	QPSK	25	12	22.12	21.87	22.03	
10	QPSK	25	25	21.98	21.94	22.06	
10	QPSK	50	0	22.00	21.98	22.01	23.00
10	16QAM	1	0	21.98	22.17	22.14	
10	16QAM	1	25	22.06	22.11	22.06	
10	16QAM	1	49	22.04	21.97	22.23	22.00
10	16QAM	25	0	21.05	21.15	21.10	
10	16QAM	25	12	21.08	21.08	21.02	
10	16QAM	25	25	21.07	20.99	21.20	22.00
10	16QAM	50	0	21.05	21.02	21.12	
10	64QAM	1	0	21.11	21.25	21.28	
10	64QAM	1	25	21.10	21.00	20.94	22.00
10	64QAM	1	49	20.98	21.18	20.90	
10	64QAM	25	0	20.20	20.20	20.15	
10	64QAM	25	12	20.06	19.96	20.19	21.00
10	64QAM	25	25	20.10	20.21	20.08	
10	64QAM	50	0	20.07	20.03	20.10	
Channel				37775	38000	38225	
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	22.93	22.99	22.98	24.00
5	QPSK	1	12	22.89	22.95	22.80	
5	QPSK	1	24	22.89	22.86	22.86	
5	QPSK	12	0	22.03	22.07	21.91	23.00
5	QPSK	12	7	22.03	21.78	21.94	
5	QPSK	12	13	21.89	21.85	21.97	
5	QPSK	25	0	21.91	21.89	21.92	23.00
5	16QAM	1	0	21.89	22.08	22.05	
5	16QAM	1	12	21.97	22.02	21.97	
5	16QAM	1	24	21.95	21.88	22.14	22.00
5	16QAM	12	0	20.96	21.06	21.01	
5	16QAM	12	7	20.99	20.99	20.93	
5	16QAM	12	13	20.96	20.90	21.11	22.00
5	16QAM	25	0	20.96	20.93	21.03	
5	64QAM	1	0	21.02	21.16	21.19	
5	64QAM	1	12	21.01	20.91	20.85	22.00
5	64QAM	1	24	20.89	21.09	20.81	
5	64QAM	12	0	20.11	20.11	20.06	
5	64QAM	12	7	19.97	19.87	20.10	21.00
5	64QAM	12	13	20.01	20.12	19.99	
5	64QAM	25	0	19.98	19.94	20.01	

Band 40 (2.3G Band-1) (dBm) Part 27D-1 2305MHz ~ 2315MHz							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				38750			
Frequency (MHz)				2310			
10	QPSK	1	0	23.60			24.00
10	QPSK	1	25	23.49			
10	QPSK	1	49	23.38			
10	QPSK	25	0	22.65			23.00
10	QPSK	25	12	22.60			
10	QPSK	25	25	22.50			
10	QPSK	50	0	22.48			23.00
10	16QAM	1	0	22.42			
10	16QAM	1	25	22.32			
10	16QAM	1	49	22.30			22.00
10	16QAM	25	0	21.70			
10	16QAM	25	12	21.63			
10	16QAM	25	25	21.62			22.00
10	16QAM	50	0	21.50			
10	64QAM	1	0	21.70			
10	64QAM	1	25	21.66			22.00
10	64QAM	1	49	21.63			
10	64QAM	25	0	20.86			
10	64QAM	25	12	20.75			21.00
10	64QAM	25	25	20.55			
10	64QAM	50	0	20.63			
Channel				38725	38750	38775	
Frequency (MHz)				2307.5	2310	2312.5	
5	QPSK	1	0	23.15	23.17	23.15	24.00
5	QPSK	1	12	23.11	23.04	23.13	
5	QPSK	1	24	23.14	23.10	23.04	
5	QPSK	12	0	22.16	22.29	22.20	23.00
5	QPSK	12	7	22.30	22.19	22.27	
5	QPSK	12	13	22.21	22.18	22.28	
5	QPSK	25	0	22.26	22.22	22.25	23.00
5	16QAM	1	0	22.48	22.47	22.51	
5	16QAM	1	12	22.33	22.51	22.22	
5	16QAM	1	24	22.25	22.40	22.43	22.00
5	16QAM	12	0	21.32	21.39	21.46	
5	16QAM	12	7	21.25	21.28	21.28	
5	16QAM	12	13	21.14	21.26	21.30	22.00
5	16QAM	25	0	21.37	21.25	21.36	
5	64QAM	1	0	21.12	21.38	21.33	
5	64QAM	1	12	21.31	21.48	21.27	22.00
5	64QAM	1	24	21.16	21.32	21.20	
5	64QAM	12	0	20.48	20.29	20.40	
5	64QAM	12	7	20.38	20.35	20.39	21.00
5	64QAM	12	13	20.37	20.50	20.25	
5	64QAM	25	0	20.28	20.38	20.34	



Band 40 (2.3G Band-2) (dBm) Part 27D-2 2350MHz ~ 2360MHz							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				39200			
Frequency (MHz)				2355			
10	QPSK	1	0	23.57			24.00
10	QPSK	1	25	23.36			
10	QPSK	1	49	23.22			
10	QPSK	25	0	22.45			23.00
10	QPSK	25	12	22.41			
10	QPSK	25	25	22.35			
10	QPSK	50	0	22.38			23.00
10	16QAM	1	0	22.35			
10	16QAM	1	25	22.20			
10	16QAM	1	49	22.11			22.00
10	16QAM	25	0	21.56			
10	16QAM	25	12	21.43			
10	16QAM	25	25	21.38			22.00
10	16QAM	50	0	21.42			
10	64QAM	1	0	21.33			
10	64QAM	1	25	21.50			22.00
10	64QAM	1	49	21.39			
10	64QAM	25	0	20.95			
10	64QAM	25	12	20.50			21.00
10	64QAM	25	25	20.36			
10	64QAM	50	0	20.20			
Channel				39175	39200	39225	Tune-up limit (dBm)
Frequency (MHz)				2352.5	2355	2357.5	
5	QPSK	1	0	23.04	23.13	23.09	24.00
5	QPSK	1	12	23.07	23.11	23.07	
5	QPSK	1	24	23.04	23.08	23.04	
5	QPSK	12	0	22.27	22.19	22.05	23.00
5	QPSK	12	7	22.22	22.05	22.15	
5	QPSK	12	13	22.37	22.35	22.15	
5	QPSK	25	0	22.09	22.09	22.05	23.00
5	16QAM	1	0	22.18	22.34	22.22	
5	16QAM	1	12	22.05	22.07	22.14	
5	16QAM	1	24	22.09	22.18	22.06	22.00
5	16QAM	12	0	21.04	21.31	21.25	
5	16QAM	12	7	21.08	21.06	21.06	
5	16QAM	12	13	21.25	21.06	21.24	22.00
5	16QAM	25	0	21.03	21.06	21.28	
5	64QAM	1	0	21.20	21.32	21.25	
5	64QAM	1	12	21.20	21.14	21.20	22.00
5	64QAM	1	24	21.08	21.21	21.13	
5	64QAM	12	0	20.34	20.35	20.38	
5	64QAM	12	7	20.14	20.22	20.07	21.00
5	64QAM	12	13	20.20	20.15	20.13	
5	64QAM	25	0	20.17	20.24	20.24	



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	23.52	23.47	23.66	23.49	23.43	24.00
20	QPSK	1	49	23.25	23.40	23.34	23.23	23.34	
20	QPSK	1	99	23.27	23.33	23.20	23.28	23.39	23.50
20	QPSK	50	0	22.59	22.64	22.32	22.43	22.54	
20	QPSK	50	24	22.24	22.55	22.35	22.25	22.36	23.00
20	QPSK	50	50	22.54	22.58	22.54	22.57	22.68	
20	QPSK	100	0	22.21	22.58	22.36	22.23	22.34	22.00
20	16QAM	1	0	22.61	22.63	22.55	22.53	22.64	
20	16QAM	1	49	22.49	22.64	22.66	22.46	22.57	22.00
20	16QAM	1	99	22.26	22.54	22.40	22.48	22.59	
20	16QAM	50	0	21.47	21.54	21.46	21.54	21.65	21.00
20	16QAM	50	24	21.41	21.49	21.37	21.63	21.74	
20	16QAM	50	50	21.28	21.29	21.29	21.27	21.38	21.00
20	16QAM	100	0	21.25	21.46	21.37	21.38	21.49	
20	64QAM	1	0	21.47	21.56	21.45	21.49	21.60	21.00
20	64QAM	1	49	21.64	21.63	21.58	21.39	21.50	
20	64QAM	1	99	21.36	21.64	21.24	21.20	21.31	21.00
20	64QAM	50	0	20.66	20.66	20.56	20.55	20.66	
20	64QAM	50	24	20.61	20.67	20.34	20.27	20.38	21.00
20	64QAM	50	50	20.66	20.42	20.57	20.51	20.62	
20	64QAM	100	0	20.30	20.35	20.46	20.21	20.32	
Channel				39725	40173	40620	41068	41515	
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5	
15	QPSK	1	0	23.42	23.37	23.56	23.39	23.33	24.00
15	QPSK	1	37	23.15	23.30	23.24	23.13	23.24	
15	QPSK	1	74	23.17	23.23	23.10	23.18	23.29	23.50
15	QPSK	36	0	22.49	22.54	22.22	22.33	22.44	
15	QPSK	36	20	22.14	22.45	22.25	22.15	22.26	23.00
15	QPSK	36	39	22.44	22.48	22.44	22.47	22.58	
15	QPSK	75	0	22.11	22.48	22.26	22.13	22.24	22.00
15	16QAM	1	0	22.51	22.53	22.45	22.43	22.54	
15	16QAM	1	37	22.39	22.54	22.56	22.36	22.47	21.00
15	16QAM	1	74	22.16	22.44	22.30	22.38	22.49	
15	16QAM	36	0	21.37	21.44	21.36	21.44	21.55	22.00
15	16QAM	36	20	21.31	21.39	21.27	21.53	21.64	
15	16QAM	36	39	21.18	21.19	21.19	21.17	21.28	22.00
15	16QAM	75	0	21.15	21.36	21.27	21.28	21.39	
15	64QAM	1	0	21.37	21.46	21.35	21.39	21.50	21.00
15	64QAM	1	37	21.54	21.53	21.48	21.29	21.40	
15	64QAM	1	74	21.28	21.54	21.14	21.10	21.21	21.00
15	64QAM	36	0	20.56	20.56	20.46	20.45	20.56	
15	64QAM	36	20	20.51	20.57	20.24	20.17	20.28	21.00
15	64QAM	36	39	20.56	20.32	20.47	20.41	20.52	
15	64QAM	75	0	20.20	20.25	20.36	20.11	20.22	
Channel				39700	40160	40620	41080	41540	
Frequency (MHz)				2501	2547	2593	2639	2685	
10	QPSK	1	0	23.33	23.28	23.47	23.30	23.24	24.00
10	QPSK	1	25	23.06	23.21	23.15	23.04	23.15	
10	QPSK	1	49	23.08	23.14	23.01	23.09	23.20	23.50
10	QPSK	25	0	22.40	22.45	22.13	22.24	22.35	
10	QPSK	25	12	22.05	22.36	22.16	22.06	22.17	23.00
10	QPSK	25	25	22.35	22.39	22.35	22.38	22.49	
10	QPSK	50	0	22.02	22.39	22.17	22.04	22.15	22.00
10	16QAM	1	0	22.42	22.44	22.36	22.34	22.45	
10	16QAM	1	25	22.30	22.45	22.47	22.27	22.38	22.00
10	16QAM	1	49	22.07	22.35	22.21	22.29	22.40	
10	16QAM	25	0	21.28	21.35	21.27	21.35	21.46	21.00
10	16QAM	25	12	21.22	21.30	21.18	21.44	21.55	
10	16QAM	25	25	21.09	21.10	21.10	21.08	21.19	22.00
10	16QAM	50	0	21.06	21.27	21.18	21.19	21.30	
10	16QAM	1	0	21.28	21.37	21.26	21.30	21.41	22.00
10	16QAM	1	25	21.45	21.44	21.39	21.20	21.31	
10	16QAM	1	49	21.17	21.45	21.05	21.01	21.12	21.00
10	16QAM	25	0	20.47	20.47	20.37	20.36	20.47	
10	16QAM	25	12	20.42	20.48	20.15	20.08	20.19	21.00
10	16QAM	25	25	20.47	20.23	20.38	20.32	20.43	
10	16QAM	50	0	20.11	20.16	20.27	20.02	20.13	
Channel				39675	40148	40620	41093	41565	
Frequency (MHz)				2498.5	2545.8	2593	2640.30	2687.5	
5	QPSK	1	0	23.25	23.20	23.39	23.22	23.16	24.00
5	QPSK	1	12	22.98	23.13	23.07	22.96	23.07	
5	QPSK	1	24	23.00	23.06	22.93	23.01	23.12	23.50
5	QPSK	12	0	22.32	22.37	22.05	22.16	22.27	
5	QPSK	12	7	21.97	22.28	22.08	21.98	22.09	23.00
5	QPSK	12	13	22.27	22.31	22.27	22.30	22.41	
5	QPSK	25	0	21.94	22.31	22.09	21.96	22.07	23.00
5	16QAM	1	0	22.34	22.36	22.28	22.26	22.37	
5	16QAM	1	12	22.22	22.37	22.39	22.19	22.30	22.00
5	16QAM	1	24	21.99	22.27	22.13	22.21	22.32	
5	16QAM	12	0	21.20	21.27	21.19	21.27	21.38	22.00
5	16QAM	12	7	21.14	21.22	21.10	21.36	21.47	
5	16QAM	12	13	21.01	21.02	21.02	21.00	21.11	22.00
5	16QAM	25	0	20.98	21.19	21.10	21.11	21.22	
5	64QAM	1	0	21.20	21.20	21.18	21.22	21.33	22.00
5	64QAM	1	12	21.37	21.36	21.31	21.12	21.23	
5	64QAM	1	24	21.09	21.37	20.97	20.93	21.04	21.00
5	64QAM	12	0	20.39	20.39	20.29	20.28	20.39	
5	64QAM	12	7	20.34	20.40	20.07	20.00	20.11	21.00
5	64QAM	12	13	20.39	20.15	20.30	20.24	20.35	
5	64QAM	25	0	20.03	20.08	20.19	19.94	20.05	



2.4GHz WLAN ANT 1

Mode	Channel	Frequency (MHz)	Average power (dBm)			Power Setting	Duty Cycle %
			1Mbps	2Mbps	3Mbps		
802.11b 1Mbps	CH 1	2412	20.06	20.50	20.00	100.00	
	CH 7	2442	20.08	20.50	20.00		
	CH 13	2472	19.96	20.50	20.00		
802.11g 6Mbps	CH 1	2412	19.73	20.50	20.00	97.22	
	CH 7	2442	19.91	20.50	20.00		
	CH 13	2472	19.50	20.50	20.00		
802.11n-HT20 MCS0	CH 1	2412	19.57	20.50	20.00	97.01	
	CH 7	2442	19.79	20.50	20.00		
	CH 13	2472	19.50	20.50	20.00		

5GHz WLAN ANT 1

Mode	Channel	Frequency (MHz)	Average power (dBm)			Power Setting	Duty Cycle %
			1Mbps	2Mbps	3Mbps		
802.11a 6Mbps	CH 36	5180	16.48	17.00	16.50	97.20	
	CH 44	5220	16.70	17.00	16.50		
	CH 48	5240	16.96	17.50	16.50		
802.11n-HT20 MCS0	CH 36	5180	16.09	17.00	16.50	97.01	
	CH 44	5220	16.71	17.00	16.50		
	CH 48	5240	16.92	17.00	16.50		
802.11n-HT40 MCS0	CH 38	5190	16.17	17.00	16.50	94.20	
	CH 46	5230	16.63	17.50	16.50		
	CH 36	5180	16.10	17.00	16.50		
802.11ac-VHT20 MCS0	CH 44	5220	16.73	17.50	16.50	97.04	
	CH 48	5240	16.95	17.50	16.50		
	CH 38	5190	15.76	16.50	16.00		
802.11ac-VHT40 MCS0	CH 46	5230	16.24	17.00	16.00	94.29	

5GHz WLAN ANT 1

Mode	Channel	Frequency (MHz)	Average power (dBm)			Power Setting	Duty Cycle %
			1Mbps	2Mbps	3Mbps		
802.11a 6Mbps	CH 92	5260	16.77	17.50	16.50	97.22	
	CH 80	5300	16.98	17.50	16.50		
	CH 64	5320	17.18	17.50	16.50		
802.11n-HT20 MCS0	CH 92	5260	16.73	17.50	16.50	97.01	
	CH 80	5300	17.02	17.50	16.50		
	CH 64	5320	16.71	17.50	16.50		
802.11n-HT40 MCS0	CH 94	5270	16.73	17.50	16.50	94.20	
	CH 82	5310	16.22	17.50	16.50		
	CH 92	5260	16.77	17.50	16.50		
802.11ac-VHT20 MCS0	CH 60	5300	17.02	17.50	16.50	97.06	
	CH 64	5320	16.71	17.50	16.50		
	CH 94	5270	16.30	17.00	16.00		
802.11ac-VHT40 MCS0	CH 82	5310	16.25	17.00	16.00	92.86	

5GHz WLAN ANT 1

Mode	Channel	Frequency (MHz)	Average power (dBm)			Power Setting	Duty Cycle %
			1Mbps	2Mbps	3Mbps		
802.11a 6Mbps	CH 100	5500	14.56	15.00	16.50	96.53	
	CH 120	5600	14.89	15.50	16.50		
	CH 144	5720	15.83	16.50	16.50		
802.11n-HT20 MCS0	CH 100	5500	14.65	15.50	16.50	97.01	
	CH 120	5600	14.38	15.00	16.50		
	CH 144	5720	14.87	15.50	16.50		
802.11n-HT40 MCS0	CH 102	5510	14.25	15.00	16.50	94.20	
	CH 126	5630	13.42	14.00	16.50		
	CH 142	5710	15.28	16.00	16.50		
802.11ac-VHT20 MCS0	CH 100	5500	14.70	15.50	16.50	97.04	
	CH 120	5600	14.99	15.50	16.50		
	CH 144	5720	14.86	15.50	16.50		
802.11ac-VHT40 MCS0	CH 102	5510	13.83	14.50	16.00	94.20	
	CH 126	5630	13.52	14.00	16.00		
	CH 142	5710	14.84	15.50	16.00		

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Mode	Channel	Frequency (MHz)	Average power (dBm)			Power Setting	Duty Cycle %
			1Mbps	2Mbps	3Mbps		
802.11a 6Mbps	CH 149	5745	15.06	16.00	15.00	97.22	
	CH 157	5785	16.45	17.00	15.00		
	CH 165	5825	17.37	18.00	15.00		
802.11n-HT20 MCS0	CH 149	5745	15.47	16.00	16.50	97.01	
	CH 157	5785	16.29	17.00	16.50		
	CH 165	5825	17.19	18.00	16.50		
802.11n-HT40 MCS0	CH 151	5755	16.84	17.50	16.00	94.29	
	CH 159	5795	17.14	18.00	16.00		
	CH 149	5745	15.93	16.50	16.50		
802.11ac-VHT20 MCS0	CH 157	5785	15.95	16.50	16.50	97.06	
	CH 165	5825	17.29	18.00	16.50		
	CH 151	5755	16.89	17.50	16.00		
802.11ac-VHT40 MCS0	CH 159	5795	17.25	18.00	16.00	94.29	

Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
BR / EDR	CH 00	2402	8.84	5.94	6.07
	CH 39	2441	9.05	5.90	5.76
	CH 78	2480	8.60	6.11	6.12
Tune-up Limit			9.5	6.5	6.5
Duty Cycle %			76.91	76.99	77.04

Mode	Channel	Frequency (MHz)	Average power (dBm)	
			1Mbps	2Mbps
LE	CH 00	2402	-5.40	-8.29
	CH 19	2440	-4.32	-6.99
	CH 39	2480	-5.60	-8.54
Tune-up Limit			0.5	0.5
Duty Cycle %			61.6	32

Mode	Frequency (MHz)	Average power (dBm)	
		22.200	22.510
RFID	932.75	22.200	22.510
	914.75	22.510	22.180
	927.25	22.180	23.000
Tune-up Limit		23.000	