



REPORT No.: SZ21110467S01

Annex E 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	31.30	31.50	31.47	32.00	22.30	22.50	22.47	23.00	0.48	
GPRS 1 Tx slot	31.40	31.78	31.70	32.50	22.40	22.78	22.70	23.50		
GPRS 2 Tx slots	29.45	29.56	29.51	30.50	23.45	23.56	23.51	24.50	0.11	
GPRS 3 Tx slots	27.62	27.71	27.67	28.50	23.36	23.45	23.41	24.24	0.09	
GPRS 4 Tx slots	25.47	25.54	25.50	26.50	22.47	22.54	22.50	23.50	0.07	
EDGE 1 Tx slot	24.39	24.50	24.25	25.00	15.39	15.50	15.25	16.00	0.25	
EDGE 2 Tx slots	24.35	24.71	24.24	25.50	18.35	18.71	18.24	19.50	0.47	
EDGE 3 Tx slots	23.37	23.38	22.95	24.00	19.11	19.12	18.69	19.74	0.43	
EDGE 4 Tx slots	20.04	20.49	20.13	21.00	17.04	17.49	17.13	18.00	0.45	
Mode		Max.	31.78			Max.	23.56			
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	28.36	28.57	28.56	29.50	19.36	19.57	19.56	20.50	0.26	
GPRS 1 Tx slot	28.40	28.62	28.62	29.50	19.40	19.62	19.62	20.50		
GPRS 2 Tx slots	26.23	26.46	26.42	27.00	20.23	20.46	20.42	21.00	0.23	
GPRS 3 Tx slots	24.62	24.80	24.70	25.50	20.36	20.54	20.44	21.24	0.18	
GPRS 4 Tx slots	22.62	22.73	22.61	23.50	19.62	19.73	19.61	20.50	0.12	
EDGE 1 Tx slot	23.22	23.25	23.15	24.00	14.22	14.25	14.15	15.00	0.10	
EDGE 2 Tx slots	22.42	22.35	22.41	23.00	16.42	16.35	16.41	17.00	0.07	
EDGE 3 Tx slots	21.14	21.10	21.18	22.00	16.88	16.84	16.92	17.74	0.08	
EDGE 4 Tx slots	19.55	19.20	19.54	20.50	16.55	16.20	16.54	17.50	0.35	
Mode		Max.	28.62			Max.	20.54			
Attenuator	Cable Loss : 0.8									

Band		WCDMA Band II			Tune-up Limit (dBm)	WCDMA Band IV			Tune-up Limit (dBm)	WCDMA Band V			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	22.12	22.17	22.16	23.00	22.20	22.21	22.13	23.00	22.10	22.31	22.16	23.00	
3GPP Rel 6 HSDPA Subtest-1	22.03	22.16	22.14	22.50	22.10	22.17	22.09	22.50	21.60	21.55	21.73	22.50	
3GPP Rel 6 HSDPA Subtest-2	21.79	21.83	21.91	22.50	22.00	22.10	22.11	22.50	21.37	21.32	21.48	22.50	
3GPP Rel 6 HSDPA Subtest-3	21.95	22.02	22.09	22.50	21.95	22.02	21.99	22.50	21.06	21.01	21.18	22.50	
3GPP Rel 6 HSDPA Subtest-4	21.62	21.68	21.73	22.50	21.96	22.04	22.03	22.50	20.98	20.93	21.09	22.50	
3GPP Rel 6 HSUPA Subtest-1	22.07	22.10	22.09	22.50	21.94	22.16	22.00	22.50	22.08	22.00	22.06	22.50	
3GPP Rel 6 HSUPA Subtest-2	22.00	22.08	22.13	22.50	22.00	22.14	21.97	22.50	22.02	21.95	22.08	22.50	
3GPP Rel 6 HSUPA Subtest-3	22.02	22.05	22.12	22.50	21.90	22.11	22.05	22.50	22.05	21.98	22.10	22.50	
3GPP Rel 6 HSUPA Subtest-4	22.01	22.08	22.08	22.50	21.97	22.14	22.07	22.50	21.99	21.92	22.04	22.50	
3GPP Rel 6 HSUPA Subtest-5	22.04	22.09	22.14	22.50	21.91	22.13	21.96	22.50	22.05	21.98	22.12	22.50	
3GPP Rel 7 HSPA+ (16QAM) Subtest-1	22.08	22.07	22.13	22.50	21.80	22.07	21.98	22.50	22.08	21.98	22.10	22.50	
Attenuator		Cable Loss	0.8			Cable Loss	0.8			Cable Loss	0.6		
Mode		Max.	22.17			Max.	22.21			Max.	22.31		

Band 2 (1900MHz Band)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				18700	18900	19100	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	18.50	18.69	18.54	19
20	QPSK	1	49	18.50	18.54	18.52	
20	QPSK	1	99	18.32	18.63	18.37	
20	QPSK	50	0	17.49	17.55	17.50	18
20	QPSK	50	24	17.52	17.53	17.54	
20	QPSK	50	50	17.54	17.51	17.45	
20	QPSK	100	0	17.51	17.46	17.64	18
20	16QAM	1	0	17.87	17.51	17.73	
20	16QAM	1	49	17.44	17.42	17.45	
20	16QAM	1	99	17.49	17.51	17.64	18
20	16QAM	50	0	17.22	17.18	17.22	
20	16QAM	50	24	17.17	17.24	17.24	
20	16QAM	50	50	17.22	17.28	17.21	18
20	16QAM	100	0	17.36	17.30	17.27	
20	64QAM	1	0	17.52	17.38	17.54	
20	64QAM	1	49	17.62	17.27	17.65	18
20	64QAM	1	99	17.52	17.41	17.55	
20	64QAM	50	0	17.28	17.28	17.28	
20	64QAM	50	24	17.29	17.22	17.34	18
20	64QAM	50	50	17.25	17.28	17.20	
20	64QAM	100	0	17.27	17.32	17.27	
Channel				18675	18900	19125	
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	18.46	18.49	18.33	19
15	QPSK	1	37	18.45	18.46	18.32	
15	QPSK	1	74	18.40	18.47	18.34	
15	QPSK	36	0	17.24	17.52	17.43	18
15	QPSK	36	20	17.33	17.42	17.54	
15	QPSK	36	39	17.43	17.49	17.39	
15	QPSK	75	0	17.24	17.48	17.54	18
15	16QAM	1	0	17.50	17.60	17.13	
15	16QAM	1	37	17.24	17.24	17.61	
15	16QAM	1	74	17.60	17.61	17.35	18
15	16QAM	36	0	17.20	17.31	17.27	
15	16QAM	36	20	17.18	17.18	17.37	
15	16QAM	36	39	17.18	17.25	17.21	18
15	16QAM	75	0	17.09	17.12	17.15	
15	64QAM	1	0	17.50	17.49	17.31	
15	64QAM	1	37	17.48	17.41	17.06	18
15	64QAM	1	74	17.54	17.36	17.27	
15	64QAM	36	0	17.50	17.31	17.35	
15	64QAM	36	20	17.43	17.33	17.26	18
15	64QAM	36	39	17.56	17.29	17.42	
15	64QAM	75	0	17.33	17.42	17.36	
Channel				18650	18900	19150	
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	18.45	18.51	18.34	19
10	QPSK	1	25	18.39	18.45	18.47	
10	QPSK	1	49	18.42	18.4	18.5	
10	QPSK	25	0	17.69	17.65	17.66	18
10	QPSK	25	12	17.83	17.62	17.68	
10	QPSK	25	25	17.6	17.51	17.6	
10	QPSK	50	0	17.69	17.46	17.54	18
10	16QAM	1	0	17.45	17.42	17.02	
10	16QAM	1	25	17.35	17.17	17.36	
10	16QAM	1	49	17.23	17.35	17.31	18
10	16QAM	25	0	17.1	17.22	17.37	
10	16QAM	25	12	17.17	17.1	17.43	
10	16QAM	25	25	17.23	17.06	17.48	18
10	16QAM	50	0	17.28	17.17	17.44	
10	64QAM	1	0	17.25	17.17	17.5	
10	64QAM	1	25	17.35	17.51	17.26	18
10	64QAM	1	49	17.47	17.22	17.33	
10	64QAM	25	0	17.76	17.44	17.5	
10	64QAM	25	12	17.49	17.41	17.32	18
10	64QAM	25	25	17.4	17.4	17.72	
10	64QAM	50	0	17.42	17.38	17.47	
Channel				18625	18900	19175	
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	18.39	18.48	18.36	19
5	QPSK	1	12	18.40	18.40	18.44	
5	QPSK	1	24	18.48	18.44	18.42	
5	QPSK	12	0	17.58	17.37	17.43	18
5	QPSK	12	7	17.53	17.48	17.65	
5	QPSK	12	13	17.54	17.60	17.59	
5	QPSK	25	0	17.57	17.59	17.51	18
5	16QAM	1	0	17.34	17.08	17.25	
5	16QAM	1	12	17.39	17.52	17.21	
5	16QAM	1	24	17.48	17.10	17.32	18
5	16QAM	12	0	17.17	17.15	17.28	
5	16QAM	12	7	17.15	17.03	17.26	
5	16QAM	12	13	17.11	17.19	17.25	18
5	16QAM	25	0	17.21	17.35	17.43	
5	64QAM	1	0	17.36	17.34	17.25	
5	64QAM	1	12	17.40	17.48	17.19	18
5	64QAM	1	24	17.24	17.24	17.15	
5	64QAM	12	0	17.15	17.22	17.17	
5	64QAM	12	7	17.22	17.30	17.33	18
5	64QAM	12	13	17.14	17.14	17.22	
5	64QAM	25	0	17.32	17.20	17.22	
Channel				18615	18900	19165	
Frequency (MHz)				1851.5	1880	1906.5	
3	QPSK	1	0	18.37	18.50	18.29	19
3	QPSK	1	8	18.34	18.45	18.28	
3	QPSK	1	14	18.41	18.39	18.22	
3	QPSK	8	0	17.31	17.43	17.41	18
3	QPSK	8	4	17.33	17.27	17.13	
3	QPSK	8	7	17.40	17.27	17.10	
3	QPSK	15	0	17.27	17.46	17.26	18
3	16QAM	1	0	17.33	17.05	17.45	
3	16QAM	1	8	17.39	17.34	17.45	
3	16QAM	1	14	17.10	17.34	17.46	18

Band 4 (AWS Band)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20500	20175	20300	
Frequency (MHz)				1720	1732.5	1745	
20	QPSK	1	0	18.30	18.51	18.24	19
20	QPSK	1	49	18.17	18.34	18.12	
20	QPSK	1	99	18.06	18.40	18.13	
20	QPSK	50	0	17.28	17.63	17.17	18
20	QPSK	50	24	17.58	17.59	17.21	
20	QPSK	50	50	17.18	17.18	17.13	
20	QPSK	100	0	17.24	17.17	17.24	18
20	16QAM	1	0	17.20	17.53	17.58	
20	16QAM	1	49	17.33	17.12	17.34	
20	16QAM	1	99	17.27	17.37	17.47	18
20	16QAM	50	0	17.13	17.17	17.11	
20	16QAM	50	24	17.11	17.34	17.21	
20	16QAM	50	50	17.01	17.07	17.04	18
20	16QAM	100	0	17.00	17.02	17.03	
20	64QAM	1	0	17.17	17.34	17.42	
20	64QAM	1	49	17.45	17.26	17.26	18
20	64QAM	1	99	17.43	17.37	17.28	
20	64QAM	50	0	17.35	17.35	17.29	
20	64QAM	50	24	17.32	17.31	17.19	18
20	64QAM	50	50	17.18	17.25	17.23	
20	64QAM	100	0	17.31	17.40	17.30	
Channel				20025	20175	20325	
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	18.29	18.32	18.31	19
15	QPSK	1	37	18.17	18.24	18.31	
15	QPSK	1	74	18.16	18.17	18.26	
15	QPSK	36	0	17.56	17.60	17.51	18
15	QPSK	36	20	17.34	17.31	17.28	
15	QPSK	36	39	17.35	17.43	17.31	
15	QPSK	75	0	17.26	17.42	17.31	18
15	16QAM	1	0	17.14	17.43	17.61	
15	16QAM	1	37	17.29	17.20	17.31	
15	16QAM	1	74	17.31	17.40	17.43	18
15	16QAM	36	0	17.31	17.33	17.23	
15	16QAM	36	20	17.20	17.26	17.21	
15	16QAM	36	39	17.10	17.01	17.06	18
15	16QAM	75	0	17.04	17.20	17.19	
15	64QAM	1	0	17.45	17.13	17.31	
15	64QAM	1	37	17.51	17.52	17.17	18
15	64QAM	1	74	17.46	17.27	17.31	
15	64QAM	36	0	17.20	17.20	17.11	
15	64QAM	36	20	17.25	17.21	17.23	18
15	64QAM	36	39	17.28	17.19	17.10	
15	64QAM	75	0	17.24	17.19	17.18	
Channel				20000	20175	20350	
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	18.19	18.42	18.05	19
10	QPSK	1	25	18.17	18.22	18.14	
10	QPSK	1	49	18.17	18.17	18.14	
10	QPSK	25	0	17.40	17.58	17.55	18
10	QPSK	25	12	17.48	17.51	17.47	
10	QPSK	25	25	17.53	17.36	17.47	
10	QPSK	50	0	17.32	17.03	17.02	18
10	16QAM	1	0	17.33	17.52	17.43	
10	16QAM	1	25	17.40	17.35	17.37	
10	16QAM	1	49	17.41	17.13	17.39	18
10	16QAM	25	0	17.24	17.37	17.12	
10							

3	16QAM	8	0	17.07	17.17	17.30	18
3	16QAM	8	4	17.21	17.23	17.07	
3	16QAM	8	7	17.18	17.13	17.11	
3	16QAM	15	0	17.18	17.26	17.22	
3	64QAM	1	0	17.60	17.27	17.48	18
3	64QAM	1	8	17.48	17.33	17.48	
3	64QAM	1	14	17.60	17.37	17.49	
3	64QAM	8	0	17.07	17.09	17.15	18
3	64QAM	8	4	17.12	17.02	17.05	
3	64QAM	8	7	17.02	17.16	17.04	
3	64QAM	15	0	17.29	17.26	17.19	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	18.42	18.49	18.48	19
1.4	QPSK	1	3	18.06	18.24	18.06	
1.4	QPSK	1	5	17.99	18.12	18.04	
1.4	QPSK	3	0	18.18	18.23	18.20	
1.4	QPSK	3	1	18.14	18.29	18.23	
1.4	QPSK	3	3	18.12	18.23	18.05	
1.4	QPSK	6	0	17.55	17.63	17.53	18
1.4	16QAM	1	0	17.24	17.27	17.30	18
1.4	16QAM	1	3	17.53	17.31	17.25	
1.4	16QAM	1	5	17.52	17.36	17.54	
1.4	16QAM	3	0	17.57	17.35	17.47	
1.4	16QAM	3	1	17.51	17.43	17.56	
1.4	16QAM	3	3	17.53	17.40	17.50	
1.4	16QAM	6	0	17.35	17.30	17.45	18
1.4	64QAM	1	0	17.38	17.47	17.41	18
1.4	64QAM	1	3	17.34	17.44	17.33	
1.4	64QAM	1	5	17.10	17.31	17.27	
1.4	64QAM	3	0	17.28	17.38	17.25	
1.4	64QAM	3	1	17.38	17.40	17.45	
1.4	64QAM	3	3	17.71	17.43	17.55	
1.4	64QAM	6	0	17.01	17.19	17.06	18

3	16QAM	8	0	17.50	17.51	17.55	18
3	16QAM	8	4	17.58	17.30	17.48	
3	16QAM	8	7	17.32	17.40	17.48	
3	16QAM	15	0	17.56	17.41	17.41	
3	64QAM	1	0	17.35	17.25	17.40	18
3	64QAM	1	8	17.42	17.36	17.44	
3	64QAM	1	14	17.12	17.24	17.47	
3	64QAM	8	0	17.46	17.38	17.29	18
3	64QAM	8	4	17.49	17.50	17.54	
3	64QAM	8	7	17.48	17.47	17.35	
3	64QAM	15	0	17.52	17.47	17.38	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.6	1754.3	
1.4	QPSK	1	0	18.43	18.54	18.42	19
1.4	QPSK	1	3	18.49	18.44	18.35	
1.4	QPSK	1	5	18.43	18.53	18.44	
1.4	QPSK	3	0	17.75	17.81	17.88	
1.4	QPSK	3	1	17.79	17.76	17.89	
1.4	QPSK	3	3	17.91	18.02	18.03	
1.4	QPSK	6	0	17.35	17.41	17.34	18
1.4	16QAM	1	0	17.33	17.52	17.33	18
1.4	16QAM	1	3	17.51	17.31	17.39	
1.4	16QAM	1	5	17.43	17.30	17.48	
1.4	16QAM	3	0	17.45	17.44	17.40	
1.4	16QAM	3	1	17.51	17.39	17.51	
1.4	16QAM	3	3	17.50	17.44	17.45	
1.4	16QAM	6	0	17.07	17.26	17.25	18
1.4	64QAM	1	0	17.38	17.19	17.37	18
1.4	64QAM	1	3	17.27	17.12	17.51	
1.4	64QAM	1	5	17.39	17.26	17.50	
1.4	64QAM	3	0	17.23	17.21	17.19	
1.4	64QAM	3	1	17.33	17.26	17.24	
1.4	64QAM	3	3	17.36	17.16	17.32	
1.4	64QAM	6	0	17.36	17.39	17.26	18

Band 5 (Cellular Band)									
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)		
Channel				20450	20525	20600			
Frequency (MHz)				829	836.5	844			
10	QPSK	1	0	22.29	22.33	22.30	23		
10	QPSK	1	25	22.22	22.16	22.29			
10	QPSK	1	49	22.26	22.14	22.19			
10	QPSK	25	0	21.22	21.30	21.12	22		
10	QPSK	25	12	21.26	21.10	21.06			
10	QPSK	25	25	21.18	21.26	21.25			
10	QPSK	50	0	21.20	21.14	21.27	22		
10	16QAM	1	0	21.47	21.56	21.39			
10	16QAM	1	25	21.16	21.30	21.33			
10	16QAM	1	49	21.42	21.38	21.44	22		
10	16QAM	25	0	21.12	21.14	21.35			
10	16QAM	25	12	21.36	21.14	21.40			
10	16QAM	25	25	21.28	21.13	21.14	22		
10	16QAM	50	0	21.29	21.29	21.43			
10	64QAM	1	0	21.35	21.39	21.32			
10	64QAM	1	25	21.41	21.28	21.32	22		
10	64QAM	1	49	21.22	21.43	21.36			
10	64QAM	25	0	21.17	21.29	21.12			
10	64QAM	25	12	21.32	21.24	21.45	22		
10	64QAM	25	25	21.25	21.17	21.14			
10	64QAM	50	0	21.07	21.29	21.38			
Channel				20425	20525	20625	Tune-up limit (dBm)		
Frequency (MHz)				826.5	836.5	846.5			
5	QPSK	1	0	22.22	22.30	22.25	23		
5	QPSK	1	12	22.10	22.07	22.10			
5	QPSK	1	24	22.15	22.22	22.20			
5	QPSK	12	0	21.20	21.28	21.13	22		
5	QPSK	12	7	21.11	21.23	21.24			
5	QPSK	12	13	21.10	21.11	21.20			
5	QPSK	25	0	21.16	21.02	21.13	22		
5	16QAM	1	0	21.45	21.55	21.36			
5	16QAM	1	12	21.42	21.34	21.36			
5	16QAM	1	24	21.33	21.44	21.44	22		
5	16QAM	12	0	21.23	21.33	21.29			
5	16QAM	12	7	21.22	21.38	21.25			
5	16QAM	12	13	21.06	21.35	21.25	22		
5	16QAM	25	0	21.38	21.53	21.46			
5	64QAM	1	0	21.10	21.51	21.48			
5	64QAM	1	12	21.21	21.23	21.47	22		
5	64QAM	1	24	21.12	21.34	21.42			
5	64QAM	12	0	21.21	21.17	21.19			
5	64QAM	12	7	21.22	21.26	21.27	22		
5	64QAM	12	13	21.12	21.25	21.37			
5	64QAM	25	0	21.27	21.23	21.21			
Channel				20415	20525	20635	Tune-up limit (dBm)		
Frequency (MHz)				825.5	836.5	847.5			
3	QPSK	1	0	22.26	22.28	22.11	23		
3	QPSK	1	8	22.21	22.27	22.18			
3	QPSK	1	14	22.13	22.05	22.26			
3	QPSK	8	0	21.18	21.28	21.17	22		
3	QPSK	8	4	21.24	21.12	21.22			
3	QPSK	8	7	21.23	21.17	21.26			
3	QPSK	15	0	21.19	21.24	21.20	22		
3	16QAM	1	0	21.38	21.54	21.48			
3	16QAM	1	8	21.45	21.20	21.27			
3	16QAM	1	14	21.45	21.14	21.48	22		
3	16QAM	8	0	21.25	21.25	21.22			
3	16QAM	8	4	21.17	21.45	21.21			
3	16QAM	8	7	21.21	21.37	21.38	22		
3	16QAM	15	0	21.03	21.23	21.12			
3	64QAM	1	0	21.16	21.24	21.47			
3	64QAM	1	8	21.16	21.50	21.24	22		
3	64QAM	1	14	21.36	21.39	21.18			
3	64QAM	8	0	21.20	21.23	21.16			
3	64QAM	8	4	21.24	21.29	21.15	22		
3	64QAM	8	7	21.27	21.15	21.47			
3	64QAM	15	0	21.32	21.27	21.31			
Channel				20407	20525	20643	Tune-up limit (dBm)		
Frequency (MHz)				824.7	836.5	848.3			
1.4	QPSK	1	0	22.25	22.26	22.24	23		
1.4	QPSK	1	3	22.22	22.20	22.21			
1.4	QPSK	1	5	22.07	22.05	22.21			
1.4	QPSK	3	0	21.99	22.01	22.11	22		
1.4	QPSK	3	1	22.12	22.01	22.11			
1.4	QPSK	3	3	22.04	22.02	22.13			
1.4	QPSK	6	0	21.21	21.06	21.18	22		
1.4	16QAM	1	0	21.32	21.54	21.54			
1.4	16QAM	1	3	21.04	21.45	21.28			
1.4	16QAM	1	5	21.53	21.10	21.36	22		
1.4	16QAM	3	0	21.41	21.27	21.15			
1.4	16QAM	3	1	21.33	21.42	21.07			
1.4	16QAM	3	3	21.29	21.29	21.40	22		
1.4	16QAM	6	0	21.29	21.15	21.36			
1.4	64QAM	1	0	21.18	21.39	21.15			
1.4	64QAM	1	3	21.19	21.13	21.43	22		
1.4	64QAM	1	5	21.20	21.27	21.10			
1.4	64QAM	3	0	21.27	21.46	21.32			
1.4	64QAM	3	1	21.42	21.37	21.46	22		
1.4	64QAM	3	3	21.09	21.38	21.47			
1.4	64QAM	6	0	21.44	21.47	21.26			

Band 7 (2600MHz Band)									
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	18.65	18.70	18.62	19.5		
20	QPSK	1	49	18.65	18.64	18.56			
20	QPSK	1	99	18.62	18.68	18.60			
20	QPSK	50	0	17.60	17.85	17.64	18.5		
20	QPSK	50	24	17.65	17.77	17.69			
20	QPSK	50	50	17.71	17.69	17.69			
20	QPSK	100	0	17.55	17.69	17.58	18.5		
20	16QAM	1	0	18.00	18.05	17.80			
20	16QAM	1	49	17.82	17.93	18.01			
20	16QAM	1	99	17.77	17.69	18.03	18.5		
20	16QAM	50	0	17.68	17.67	17.72			
20	16QAM	50	24	17.66	17.64	17.58			
20	16QAM	50	50	17.70	17.71	17.68	18.5		
20	16QAM	100	0	17.60	17.80	17.73			
20	64QAM	1	0	17.94	18.11	17.63			
20	64QAM	1	49	17.93	17.65	17.72	18.5		
20	64QAM	1	99	17.66	18.10	18.07			
20	64QAM	50	0	17.80	17.82	17.87			
20	64QAM	50	24	17.79	17.80	17.91	18.5		
20	64QAM	50	50	17.88	17.91	17.96			
20	64QAM	100	0	17.89	18.00	17.88			
Channel				20925	21100	21375	Tune-up limit (dBm)		
Frequency (MHz)				2507.5	2535	2562.5			
15	QPSK	1	0	18.60	18.68	18.65	19.5		
15	QPSK	1	37	18.65	18.66	18.63			
15	QPSK	1	74	18.60	18.67	18.60			
15	QPSK	36	0	17.67	17.84	17.77	18.5		
15	QPSK	36	20	17.63	17.82	17.70			
15	QPSK	36	39	17.76	17.77	17.72			
15	QPSK	75	0	17.83	17.72	17.79	18.5		
15	16QAM	1	0	17.95	17.98	17.77			
15	16QAM	1	37	17.74	17.88	17.81			
15	16QAM	1	74	17.82	17.64	17.84	18.5		
15	16QAM	36	0	17.86	17.79	17.92			
15	16QAM	36	20	17.77	17.78	17.83			
15	16QAM	36	39	17.77	17.74	17.87	18.5		
15	16QAM	75	0	17.71	17.91	17.66			
15	64QAM	1	0	18.06	18.10	18.08			
15	64QAM	1	37	17.80	17.94	18.05	18.5		
15	64QAM	1	74	17.98	17.65	17.97			
15	64QAM	36	0	17.81	17.80	17.82			
15	64QAM	36	20	17.93	17.71	17.91	18.5		
15	64QAM	36	39	17.79	17.87	17.92			
15	64QAM	75	0	17.82	17.99	17.73			
Channel				20800	21100	21400	Tune-up limit (dBm)		
Frequency (MHz)				2505	2535	2565			
10	QPSK	1	0	18.62	18.66	18.50	19.5		
10	QPSK	1	25	18.64	18.63	18.61			
10	QPSK	1	49	18.63	18.65	18.60			
10	QPSK	25	0	17.73	17.84	17.81	18.5		
10	QPSK	25	12	17.70	17.63	17.75			
10	QPSK	25	25	17.76	17.74	17.76			
10	QPSK	50							

Band 12 (700MHz Low Band)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				23060	23095	23130	
Frequency (MHz)				704	707.5	711	
10	QPSK	1	0	22.09	22.26	22.05	23
10	QPSK	1	25	22.09	22.12	22.23	
10	QPSK	1	49	22.17	22.23	22.11	
10	QPSK	25	0	21.25	21.29	21.17	22
10	QPSK	25	12	21.12	21.09	21.22	
10	QPSK	25	25	21.25	21.17	21.13	
10	QPSK	50	0	21.17	21.09	21.25	22
10	16QAM	1	0	21.29	21.53	21.19	
10	16QAM	1	25	21.40	21.32	21.27	
10	16QAM	1	49	21.35	21.35	21.50	22
10	16QAM	25	0	21.52	21.32	21.40	
10	16QAM	25	12	21.37	21.50	21.36	
10	16QAM	25	25	21.46	21.44	21.38	22
10	16QAM	50	0	21.32	21.31	21.47	
10	64QAM	1	0	21.26	21.56	21.34	
10	64QAM	1	25	21.43	21.51	21.45	22
10	64QAM	1	49	21.26	21.33	21.49	
10	64QAM	25	0	21.22	21.23	21.18	
10	64QAM	25	12	21.33	21.50	21.20	22
10	64QAM	25	25	21.25	21.55	21.19	
10	64QAM	50	0	21.23	21.31	21.09	
Channel				23035	23095	23155	
Frequency (MHz)				701.5	707.5	713.5	
5	QPSK	1	0	22.12	22.25	22.20	23
5	QPSK	1	12	22.15	22.18	22.21	
5	QPSK	1	24	22.20	22.22	22.10	
5	QPSK	12	0	21.15	21.26	21.21	22
5	QPSK	12	7	21.22	21.20	21.19	
5	QPSK	12	13	21.16	21.12	21.22	
5	QPSK	25	0	21.21	21.09	21.17	22
5	16QAM	1	0	21.17	21.50	21.32	
5	16QAM	1	12	21.13	21.35	21.33	
5	16QAM	1	24	21.24	21.35	21.35	22
5	16QAM	12	0	21.39	21.26	21.34	
5	16QAM	12	7	21.42	21.31	21.41	
5	16QAM	12	13	21.40	21.10	21.19	22
5	16QAM	25	0	21.43	21.23	21.31	
5	64QAM	1	0	21.39	21.55	21.41	
5	64QAM	1	12	21.38	21.54	21.10	22
5	64QAM	1	24	21.36	21.50	21.46	
5	64QAM	12	0	21.35	21.28	21.39	
5	64QAM	12	7	21.07	21.33	21.20	22
5	64QAM	12	13	21.29	21.31	21.30	
5	64QAM	25	0	21.34	21.26	21.22	
Channel				23025	23095	23165	
Frequency (MHz)				700.5	707.5	714.5	
3	QPSK	1	0	22.22	22.24	22.10	23
3	QPSK	1	8	22.20	22.09	22.04	
3	QPSK	1	14	22.02	22.02	22.13	
3	QPSK	8	0	21.11	21.28	21.15	22
3	QPSK	8	4	21.20	21.16	21.07	
3	QPSK	8	7	21.27	21.21	21.17	
3	QPSK	15	0	21.11	21.10	21.03	22
3	16QAM	1	0	21.46	21.49	21.49	
3	16QAM	1	8	21.40	21.45	21.33	
3	16QAM	1	14	21.48	21.42	21.31	22
3	16QAM	8	0	21.25	21.21	21.34	
3	16QAM	8	4	21.26	21.38	21.33	
3	16QAM	8	7	21.35	21.25	21.27	22
3	16QAM	15	0	21.36	21.43	21.35	
3	64QAM	1	0	21.44	21.34	21.36	
3	64QAM	1	8	21.41	21.24	21.22	22
3	64QAM	1	14	21.63	21.46	21.44	
3	64QAM	8	0	21.39	21.25	21.21	
3	64QAM	8	4	21.37	21.41	21.19	22
3	64QAM	8	7	21.24	21.25	21.29	
3	64QAM	15	0	21.36	21.28	21.30	
Channel				23017	23095	23173	
Frequency (MHz)				699.7	707.5	715.3	
1.4	QPSK	1	0	22.14	22.24	22.12	23
1.4	QPSK	1	3	22.22	22.19	22.23	
1.4	QPSK	1	5	22.17	22.08	22.16	
1.4	QPSK	3	0	21.23	21.28	21.20	
1.4	QPSK	3	1	21.11	21.09	21.25	
1.4	QPSK	3	3	21.24	21.30	21.18	
1.4	QPSK	6	0	21.08	21.04	21.52	22
1.4	16QAM	1	0	21.21	21.50	21.12	
1.4	16QAM	1	3	21.24	21.34	21.38	
1.4	16QAM	1	5	21.30	21.26	21.27	22
1.4	16QAM	3	0	21.35	21.32	21.31	
1.4	16QAM	3	1	21.30	21.41	21.40	
1.4	16QAM	3	3	21.35	21.46	21.45	22
1.4	16QAM	6	0	21.21	21.34	21.25	
1.4	64QAM	1	0	21.15	21.53	21.40	
1.4	64QAM	1	3	21.56	21.38	21.41	22
1.4	64QAM	1	5	21.30	21.44	21.43	
1.4	64QAM	3	0	21.46	21.36	21.28	
1.4	64QAM	3	1	21.47	21.26	21.37	22
1.4	64QAM	3	3	21.13	21.19	21.47	
1.4	64QAM	6	0	21.09	21.23	21.47	

Band 17 (700MHz Band)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				23780	23790	23800	
Frequency (MHz)				709	710	711	
10	QPSK	1	0	22.15	22.16	22.12	23
10	QPSK	1	25	22.12	22.11	22.07	
10	QPSK	1	49	22.08	22.12	22.10	
10	QPSK	25	0	21.12	21.16	21.15	22
10	QPSK	25	12	21.11	21.15	21.14	
10	QPSK	25	25	21.03	21.04	21.13	
10	QPSK	50	0	21.05	21.13	21.10	22
10	16QAM	1	0	21.22	21.45	21.10	
10	16QAM	1	25	21.39	21.01	21.00	
10	16QAM	1	49	21.38	21.33	21.34	22
10	16QAM	25	0	21.11	21.20	21.06	
10	16QAM	25	12	21.21	21.20	21.17	
10	16QAM	25	25	21.17	21.18	21.30	22
10	16QAM	50	0	21.21	21.37	21.20	
10	64QAM	1	0	21.25	21.24	21.21	
10	64QAM	1	25	21.01	21.30	21.34	22
10	64QAM	1	49	21.00	21.30	21.39	
10	64QAM	25	0	21.21	21.26	21.19	
10	64QAM	25	12	21.22	21.35	21.27	22
10	64QAM	25	25	21.16	21.23	21.34	
10	64QAM	50	0	21.31	21.35	21.30	
Channel				23755	23790	23825	
Frequency (MHz)				706.5	710	713.5	
5	QPSK	1	0	22.13	22.16	22.11	23
5	QPSK	1	12	22.14	22.15	22.12	
5	QPSK	1	24	22.02	22.02	22.01	
5	QPSK	12	0	21.09	21.15	21.08	22
5	QPSK	12	7	21.13	21.05	21.05	
5	QPSK	12	13	21.10	21.05	21.12	
5	QPSK	25	0	21.25	21.57	21.15	22
5	16QAM	1	0	21.34	21.44	21.06	
5	16QAM	1	12	21.24	21.21	21.08	
5	16QAM	1	24	21.29	21.34	21.35	22
5	16QAM	12	0	21.17	21.26	21.21	
5	16QAM	12	7	21.11	21.24	21.21	
5	16QAM	12	13	21.32	21.19	21.37	22
5	16QAM	25	0	21.06	21.40	21.33	
5	64QAM	1	0	21.03	21.34	21.23	
5	64QAM	1	12	21.12	21.28	21.26	22
5	64QAM	1	24	21.11	21.41	21.25	
5	64QAM	12	0	21.10	21.22	21.17	
5	64QAM	12	7	21.12	21.25	21.28	22
5	64QAM	12	13	21.26	21.26	21.21	
5	64QAM	25	0	21.12	21.34	21.25	

Band 66

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	20.91	20.93	20.90	21.5
20	QPSK	1	49	20.89	20.79	20.89	
20	QPSK	1	99	20.90	20.80	20.78	
20	QPSK	50	0	19.87	19.95	19.92	20.5
20	QPSK	50	24	19.80	19.95	19.91	
20	QPSK	50	50	19.89	19.86	19.80	
20	QPSK	100	0	19.80	19.88	19.94	20.5
20	16QAM	1	0	19.82	20.04	19.56	
20	16QAM	1	49	19.91	19.92	19.81	
20	16QAM	1	99	19.73	19.76	19.83	20.5
20	16QAM	50	0	19.75	19.72	19.93	
20	16QAM	50	24	19.65	19.76	19.80	
20	16QAM	50	50	19.73	19.71	19.71	20.5
20	16QAM	100	0	19.55	19.83	19.81	
20	64QAM	1	0	19.73	19.96	19.77	
20	64QAM	1	49	19.55	19.87	19.63	20.5
20	64QAM	1	99	19.72	19.94	19.57	
20	64QAM	50	0	19.63	19.72	19.65	
20	64QAM	50	24	19.77	19.74	19.79	20.5
20	64QAM	50	50	19.87	19.78	19.75	
20	64QAM	100	0	19.67	19.82	19.94	
Channel				132047	132322	132597	
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	20.84	20.90	20.82	21.5
15	QPSK	1	37	20.86	20.88	20.83	
15	QPSK	1	74	20.84	20.81	20.75	
15	QPSK	36	0	19.90	19.94	19.92	20.5
15	QPSK	36	20	19.74	19.81	19.81	
15	QPSK	36	39	19.67	19.62	19.60	
15	QPSK	75	0	19.83	19.85	19.79	20.5
15	16QAM	1	0	19.91	20.02	19.62	
15	16QAM	1	37	19.75	19.81	19.76	
15	16QAM	1	74	19.72	20.03	19.76	20.5
15	16QAM	36	0	19.67	19.69	19.84	
15	16QAM	36	20	19.75	19.76	19.78	
15	16QAM	36	39	19.67	19.62	19.78	20.5
15	16QAM	75	0	19.83	19.87	19.93	
15	64QAM	1	0	19.74	19.91	20.16	
15	64QAM	1	37	19.89	19.83	19.82	20.5
15	64QAM	1	74	19.80	19.80	19.68	
15	64QAM	36	0	19.75	19.74	19.93	
15	64QAM	36	20	19.70	19.72	19.81	20.5
15	64QAM	36	39	19.74	19.73	19.78	
15	64QAM	75	0	19.82	19.84	19.89	
Channel				132022	132322	132622	
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	20.82	20.90	20.83	21.5
10	QPSK	1	25	20.86	20.77	20.73	
10	QPSK	1	49	20.78	20.78	20.80	
10	QPSK	25	0	19.90	19.92	19.91	20.5
10	QPSK	25	12	19.70	19.78	19.82	
10	QPSK	25	25	19.83	19.77	19.77	
10	QPSK	50	0	19.77	19.75	19.81	20.5
10	16QAM	1	0	19.67	19.89	19.78	
10	16QAM	1	25	19.67	19.87	19.55	
10	16QAM	1	49	19.73	19.78	19.85	20.5
10	16QAM	25	0	19.95	19.61	19.77	
10	16QAM	25	12	19.85	19.66	19.70	
10	16QAM	25	25	19.75	19.69	19.68	20.5
10	16QAM	50	0	19.52	19.64	19.80	
10	64QAM	1	0	19.84	19.94	19.60	
10	64QAM	1	25	19.75	19.64	19.72	20.5
10	64QAM	1	49	19.82	19.70	19.79	
10	64QAM	25	0	19.68	19.76	19.80	
10	64QAM	25	12	19.58	19.90	19.81	20.5
10	64QAM	25	25	19.79	19.94	19.80	
10	64QAM	50	0	19.91	19.75	19.81	
Channel				131997	132322	132647	
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	20.80	20.91	20.90	21.5
5	QPSK	1	12	20.75	20.85	20.88	
5	QPSK	1	24	20.81	20.89	20.87	
5	QPSK	12	0	19.79	19.92	19.87	20.5
5	QPSK	12	7	19.81	19.72	19.74	
5	QPSK	12	13	19.81	19.81	19.84	
5	QPSK	25	0	19.69	19.79	19.86	20.5
5	16QAM	1	0	19.70	19.93	19.70	
5	16QAM	1	12	19.54	19.78	19.75	
5	16QAM	1	24	19.57	19.73	19.51	20.5
5	16QAM	12	0	19.72	19.55	19.63	
5	16QAM	12	7	19.57	19.52	19.67	
5	16QAM	12	13	19.59	19.62	19.67	20.5
5	16QAM	25	0	19.85	19.72	19.76	
5	64QAM	1	0	19.90	19.94	19.92	
5	64QAM	1	12	19.79	19.51	19.90	20.5
5	64QAM	1	24	19.94	19.69	19.71	
5	64QAM	12	0	19.63	19.80	19.89	
5	64QAM	12	7	19.78	19.78	19.72	20.5
5	64QAM	12	13	19.82	19.60	19.80	
5	64QAM	25	0	19.89	19.81	19.88	
Channel				131987	132322	132657	
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	20.75	20.91	20.82	21.5
3	QPSK	1	8	20.82	20.63	20.77	
3	QPSK	1	14	20.73	20.80	20.90	
3	QPSK	8	0	19.69	19.93	19.80	20.5
3	QPSK	8	4	19.68	19.74	19.81	
3	QPSK	8	7	19.73	19.71	19.80	
3	QPSK	15	0	19.80	19.71	19.82	20.5
3	16QAM	1	0	19.61	20.02	19.74	
3	16QAM	1	8	19.89	19.99	19.67	
3	16QAM	1	14	19.90	19.57	19.92	

3	16QAM	8	0	19.89	19.87	19.98	20.5
3	16QAM	8	4	19.90	19.91	19.82	
3	16QAM	8	7	19.78	19.94	19.97	
3	16QAM	15	0	19.87	19.89	19.76	20.5
3	64QAM	1	0	19.62	19.93	19.75	
3	64QAM	1	8	19.57	19.85	19.57	
3	64QAM	1	14	19.70	19.86	19.58	20.5
3	64QAM	8	0	19.72	19.78	19.91	
3	64QAM	8	4	19.73	19.77	19.77	
3	64QAM	8	7	19.85	19.57	19.74	20.5
3	64QAM	15	0	19.78	19.93	19.92	
Channel				131979	132322	132685	
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	20.80	20.89	20.77	21.5
1.4	QPSK	1	3	20.76	20.76	20.86	
1.4	QPSK	1	5	20.79	20.77	20.81	
1.4	QPSK	3	0	19.74	19.90	19.80	
1.4	QPSK	3	1	19.88	19.84	19.87	
1.4	QPSK	3	3	19.78	19.79	19.82	
1.4	QPSK	6	0	19.92	19.83	19.89	20.5
1.4	16QAM	1	0	19.82	19.92	19.90	20.5
1.4	16QAM	1	3	19.82	19.90	19.85	
1.4	16QAM	1	5	19.82	19.59	19.68	
1.4	16QAM	3	0	19.85	19.69	19.69	
1.4	16QAM	3	1	19.77	19.87	19.83	
1.4	16QAM	3	3	19.81	19.82	19.80	
1.4	16QAM	6	0	19.64	19.56	19.50	20.5
1.4	64QAM	1	0	19.64	19.96	19.79	20.5
1.4	64QAM	1	3	19.86	19.97	19.89	
1.4	64QAM	1	5	19.62	19.70	19.85	
1.4	64QAM	3	0	19.62	19.74	19.53	
1.4	64QAM	3	1	19.92	19.79	19.90	
1.4	64QAM	3	3	19.91	19.90	19.96	
1.4	64QAM	6	0	19.58	19.70	19.60	20.5

2.4GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
	802.11b 1Mbps	CH 1	2412	12.31	13.00	12.00	98.14
		CH 6	2437	12.81	13.50	12.00	
		CH 11	2462	12.90	13.50	12.00	
	802.11g 6Mbps	CH 1	2412	11.24	12.00	12.00	89.74
		CH 6	2437	12.12	13.00	12.00	
		CH 11	2462	11.67	12.50	12.00	
	802.11n-HT20 MCS0	CH 1	2412	11.38	12.00	12.00	89.12
		CH 6	2437	12.25	13.00	12.00	
		CH 11	2462	11.85	12.50	12.00	

Mode	Channel	Frequency (MHz)	Average Power (dBm)		
			1Mbps	2Mbps	3Mbps
BR / EDR	CH 00	2402	6.03	5.13	5.13
	CH 39	2441	4.64	3.64	3.89
	CH 78 Tune-up Limit	2480	4.44	3.49	3.46
Duty Cycle %			6.5	5.5	5.5
			77.6	77.33	77.33

Mode	Channel	Frequency (MHz)	Average Power (dBm)		
			1Mbps	2Mbps	3Mbps
LE	CH 00	2402	-2.57	-2.13	N/A
	CH 19	2440	-2.42	-2.07	N/A
	CH 39	2480	-2.89	-2.83	N/A
	Tune-up Limit		-2.0	-2.0	N/A
Duty Cycle %			32.0	31.75	N/A