



REPORT No.: SZ21120366S01

Annex E Conducted Power

Conducted Power

GSM850	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)	Ch Delta > 0.5
	128	189	251		128	189	251		
TX Channel	824.2	836.4	848.8		824.2	836.4	848.8		
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8		
GSM 1 Tx slot	31.74	31.71	31.86	32.50	22.74	22.71	22.86	23.50	0.15
GPRS 1 Tx slot	31.76	31.72	31.85	32.50	22.76	22.72	22.85	23.50	
GPRS 2 Tx slots	29.63	29.70	29.61	30.50	23.63	23.70	23.61	24.50	0.09
GPRS 3 Tx slots	27.83	27.78	27.75	28.50	23.57	23.52	23.49	24.24	0.08
GPRS 4 Tx slots	25.67	25.64	25.62	26.50	22.67	22.64	22.62	23.50	0.05
EDGE 1 Tx slot	25.49	25.60	25.35	26.50	16.49	16.60	16.35	17.50	0.25
EDGE 2 Tx slots	23.76	23.94	23.65	24.50	17.76	17.94	17.65	18.50	0.29
EDGE 3 Tx slots	21.18	21.28	21.21	22.00	16.92	17.02	16.95	17.74	0.10
EDGE 4 Tx slots	18.80	19.16	19.03	19.50	15.80	16.16	16.03	16.50	0.36
Mode		Max.	31.86			Max.	23.70		
Attenuator	Cable Loss : 0.8								
Date	2022.1.18								

GSM1900	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)	Ch Delta > 0.5
	512	661	810		512	661	810		
TX Channel	1850.2	1880	1909.8		1850.2	1880	1909.8		
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8		
GSM 1 Tx slot	28.69	28.76	28.68	29.50	19.69	19.76	19.68	20.50	0.15
GPRS 1 Tx slot	28.71	28.73	28.61	29.50	19.71	19.73	19.61	20.50	
GPRS 2 Tx slots	26.54	26.68	26.35	27.50	20.54	20.68	20.35	21.50	0.33
GPRS 3 Tx slots	25.29	25.00	24.84	25.50	21.03	20.74	20.58	21.24	0.45
GPRS 4 Tx slots	23.14	22.89	22.66	23.50	20.14	19.89	19.66	20.50	0.48
EDGE 1 Tx slot	24.18	24.46	24.29	25.00	15.18	15.46	15.29	16.00	0.28
EDGE 2 Tx slots	22.60	22.97	22.80	23.50	16.60	16.97	16.80	17.50	0.37
EDGE 3 Tx slots	20.15	20.32	19.93	20.50	15.89	16.06	15.67	16.24	0.39
EDGE 4 Tx slots	17.71	18.16	17.97	18.50	14.71	15.16	14.97	15.50	0.45
Mode		Max.	28.76			Max.	21.03		
Attenuator	Cable Loss : 0.8								
Date	2022.1.18								

Band	WCDMA Band II			Tune-up Limit (dBm)	WCDMA Band IV			Tune-up Limit (dBm)	WCDMA Band V			Tune-up Limit (dBm)	
	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	22.47	22.50	22.49	23.50	22.59	22.62	22.57	23.50	22.19	22.28	22.23	23.50
3GPP Rel 6	HSDPA Subtest-1	22.28	22.18	22.33	23.00	22.15	21.96	22.04	22.50	21.62	21.50	21.44	22.50
3GPP Rel 6	HSDPA Subtest-2	21.87	21.87	21.90	23.00	22.09	21.96	22.02	22.50	21.42	21.31	21.18	22.50
3GPP Rel 6	HSDPA Subtest-3	22.04	22.05	22.04	22.50	22.03	21.91	21.97	22.50	21.12	21.01	20.90	22.00
3GPP Rel 6	HSDPA Subtest-4	21.72	21.74	21.74	22.50	22.06	21.97	22.01	22.50	21.05	20.94	20.81	22.00
3GPP Rel 6	HSUPA Subtest-1	22.04	22.05	22.03	22.50	21.99	21.90	21.88	22.50	21.97	22.05	22.18	22.50
3GPP Rel 6	HSUPA Subtest-2	22.03	22.04	22.08	22.50	21.02	21.87	21.87	22.50	21.93	22.02	22.09	22.50
3GPP Rel 6	HSUPA Subtest-3	21.99	21.99	21.98	22.50	21.92	21.84	21.84	22.50	21.99	22.01	22.20	22.50
3GPP Rel 6	HSUPA Subtest-4	22.03	22.05	22.08	22.50	22.00	21.85	21.88	22.50	21.93	22.00	22.14	22.50
3GPP Rel 6	HSUPA Subtest-5	22.00	22.01	22.02	22.50	21.95	21.86	21.87	22.50	21.98	22.01	22.17	22.50
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	22.32	22.47	22.44	23.50	22.54	22.51	22.50	23.00	21.41	22.26	22.18	23.00
Attenuator		Cable Loss	0.8			Cable Loss	0.8			Cable Loss	0.8		
Mode		Max.	22.50			Max.	22.62			Max.	22.28		
Date	2022.1.18				2022.1.18				2022.1.18				

Band 2 (1900MHz Band) Part 24E							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				18700	18900	19100	
Frequency (MHz)				1860	1880	1900	
20	QPSK	1	0	22.50	22.78	22.68	
20	QPSK	1	49	22.58	22.69	22.74	
20	QPSK	1	99	22.69	22.71	22.73	
20	QPSK	50	0	21.87	22.08	22.02	22.5
20	QPSK	50	24	21.79	21.89	21.86	
20	QPSK	50	50	21.84	21.97	21.93	
20	QPSK	100	0	21.82	21.90	21.98	22.5
20	16QAM	1	0	22.06	21.98	21.95	
20	16QAM	1	49	21.73	21.80	21.88	
20	16QAM	1	99	21.68	21.92	21.75	21.5
20	16QAM	50	0	21.05	21.12	21.17	
20	16QAM	50	24	20.96	21.09	21.03	
20	16QAM	50	50	20.91	21.08	21.01	22.5
20	16QAM	100	0	21.08	21.12	21.14	
20	64QAM	1	0	21.92	21.70	22.10	
20	64QAM	1	49	21.97	21.84	21.86	21.5
20	64QAM	1	99	21.83	21.86	21.75	
20	64QAM	50	0	21.07	21.15	21.14	
20	64QAM	50	24	21.13	21.12	20.68	22.5
20	64QAM	50	50	20.95	21.08	20.94	
20	64QAM	100	0	21.06	21.17	21.13	
Channel				18675	18900	19125	
Frequency (MHz)				1857.5	1880	1902.5	
15	QPSK	1	0	22.47	22.76	22.63	
15	QPSK	1	37	22.54	22.66	22.69	
15	QPSK	1	74	22.65	22.68	22.68	
15	QPSK	36	0	21.84	22.00	22.03	22.5
15	QPSK	36	20	21.75	21.86	21.80	
15	QPSK	36	39	21.80	21.94	21.87	
15	QPSK	75	0	21.78	21.87	21.92	22.5
15	16QAM	1	0	22.02	21.95	21.89	
15	16QAM	1	37	21.70	21.78	21.83	
15	16QAM	1	74	21.65	21.90	21.70	21.5
15	16QAM	36	0	21.01	21.09	21.12	
15	16QAM	36	20	20.92	21.06	20.98	
15	16QAM	36	39	20.87	21.05	20.96	22.5
15	16QAM	75	0	21.04	21.10	21.09	
15	64QAM	1	0	21.89	21.68	22.05	
15	64QAM	1	37	21.94	21.82	21.81	21.5
15	64QAM	1	74	21.80	21.84	21.70	
15	64QAM	36	0	21.04	21.13	21.09	
15	64QAM	36	20	21.10	21.10	20.63	22.5
15	64QAM	36	39	20.92	21.06	20.89	
15	64QAM	75	0	21.03	21.15	21.08	
Channel				18650	18900	19150	
Frequency (MHz)				1855	1880	1905	
10	QPSK	1	0	22.44	22.74	22.59	
10	QPSK	1	25	22.52	22.66	22.65	
10	QPSK	1	49	22.63	22.67	22.64	
10	QPSK	25	0	21.81	21.99	21.99	22.5
10	QPSK	25	12	21.73	21.85	21.77	
10	QPSK	25	25	21.79	21.94	21.84	
10	QPSK	50	0	21.77	21.87	21.89	22.5
10	16QAM	1	0	22.00	21.94	21.86	
10	16QAM	1	25	21.67	21.76	21.79	
10	16QAM	1	49	21.62	21.88	21.66	21.5
10	16QAM	25	0	20.99	21.09	21.09	
10	16QAM	25	12	20.90	21.06	20.95	
10	16QAM	25	25	20.85	21.05	20.93	22.5
10	16QAM	50	0	21.02	21.08	21.05	
10	64QAM	1	0	21.86	21.66	22.01	
10	64QAM	1	25	21.91	21.80	21.77	21.5
10	64QAM	1	49	21.77	21.82	21.66	
10	64QAM	25	0	21.01	21.11	21.05	
10	64QAM	25	12	21.07	21.08	20.69	22.5
10	64QAM	25	25	20.89	21.04	20.85	
10	64QAM	50	0	21.00	21.13	21.04	
Channel				18625	18900	19175	
Frequency (MHz)				1852.5	1880	1907.5	
5	QPSK	1	0	22.42	22.71	22.60	
5	QPSK	1	12	22.50	22.62	22.66	
5	QPSK	1	24	22.62	22.65	22.65	
5	QPSK	12	0	21.80	21.96	22.00	22.5
5	QPSK	12	7	21.71	21.82	21.78	
5	QPSK	12	13	21.76	21.90	21.85	
5	QPSK	25	0	21.74	21.83	21.90	22.5
5	16QAM	1	0	21.99	21.92	21.87	
5	16QAM	1	12	21.66	21.74	21.80	
5	16QAM	1	24	21.61	21.86	21.67	21.5
5	16QAM	12	0	20.98	21.06	21.09	
5	16QAM	12	7	20.88	21.02	20.95	
5	16QAM	12	13	20.83	21.01	20.93	22.5
5	16QAM	25	0	21.00	21.06	21.07	
5	64QAM	1	0	21.84	21.64	22.03	
5	64QAM	1	12	21.89	21.78	21.79	21.5
5	64QAM	1	24	21.75	21.79	21.67	
5	64QAM	12	0	20.99	21.08	21.06	
5	64QAM	12	7	21.05	21.05	20.60	22.5
5	64QAM	12	13	20.87	21.01	20.86	
5	64QAM	25	0	20.98	21.10	21.05	
Channel				18615	18900	19185	
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	22.37	22.67	22.55	
3	QPSK	1	8	22.45	22.58	22.61	
3	QPSK	1	14	22.56	22.60	22.60	
3	QPSK	8	0	21.75	21.92	21.95	22.5
3	QPSK	8	4	21.66	21.78	21.73	
3	QPSK	8	7	21.71	21.87	21.81	
3	QPSK	15	0	21.69	21.79	21.85	22.5
3	16QAM	1	0	21.94	21.88	21.82	

Band 4 (AWS Band) 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	22.89	22.51	
20	QPSK	1	49	22.79	22.79	22.63	
20	QPSK	1	99	22.70	22.76	22.60	
20	QPSK	50	0	21.99	22.04	22.07	22.5
20	QPSK	50	24	21.92	21.93	21.83	
20	QPSK	50	50	21.98	21.91	21.94	
20	QPSK	100	0	21.91	22.05	22.01	22.5
20	16QAM	1	0	21.90	21.95	21.85	
20	16QAM	1	49	21.71	21.92	21.75	
20	16QAM	1	99	21.84	21.97	21.73	21.5
20	16QAM	50	0	21.07	21.02	21.13	
20	16QAM	50	24	20.96	21.12	20.98	
20	16QAM	50	50	20.73	21.06	20.87	22.5
20	16QAM	100	0	21.16	21.39	21.24	
20	64QAM	1	0	22.17	22.17	22.05	
20	64QAM	1	49	21.93	22.11	21.94	21.5
20	64QAM	1	99	21.73	22.20	21.88	
20	64QAM	50	0	21.23	21.13	21.03	
20	64QAM	50	24	20.76	21.05	20.81	22.5
20	64QAM	50	50	20.83	21.18	20.92	
20	64QAM	100	0	20.92	21.08	21.00	
Channel				20025	20175	20325	
Frequency (MHz)				1717.5	1732.5	1747.5	
15	QPSK	1	0	22.82	22.86	22.50	
15	QPSK	1	37	22.75	22.77	22.54	
15	QPSK	1	74	22.65	22.73	22.51	
15	QPSK	36	0	21.94	22.02	21.99	22.5
15	QPSK	36	20	21.87	21.90	21.74	
15	QPSK	36	39	21.93	21.88	21.85	
15	QPSK	75	0	21.86	22.02	21.92	22.5
15	16QAM	1	0	21.85	21.92	21.76	
15	16QAM	1	37	21.67	21.90	21.66	
15	16QAM	1	74	21.79	21.94	21.64	21.5
15	16QAM	36	0	21.02	20.99	21.04	
15	16QAM	36	20	20.91	21.10	20.90	
15	16QAM	36	39	20.68	21.03	20.78	22.5
15	16QAM	75	0	21.11	21.36	21.15	
15	64QAM	1	0	22.12	22.14	21.96	
15	64QAM	1	37	21.88	22.08	21.85	21.5
15	64QAM	1	74	21.68	22.17	21.79	
15	64QAM	36	0	21.18	21.10	20.94	
15	64QAM	36	20	20.71	21.02	20.72	22.5
15	64QAM	36	39	20.78	21.15	20.83	
15	64QAM	75	0	20.87	21.05	20.91	
Channel				20000	20175	20350	
Frequency (MHz)				1715	1732.5	1750	
10	QPSK	1	0	22.80	22.83	22.44	
10	QPSK	1	25	22.74	22.75	22.56	
10	QPSK	1	49	22.63	22.70	22.53	
10	QPSK	25	0	21.92	22.00	21.95	22.5
10	QPSK	25	12	21.85	21.87	21.76	
10	QPSK	25	25	21.91	21.85	21.87	
10	QPSK	50	0	21.84	21.99	21.94	22.5
10	16QAM	1	0	21.83	21.89	21.78	
10	16QAM	1	25	21.64	21.86	21.68	
10	16QAM	1	49	21.77	21.91	21.66	21.5
10	16QAM	25	0	21.00	20.96	21.06	
10	16QAM	25	12</				

3	16QAM	1	8	21.60	21.69	21.75	22.5
3	16QAM	1	14	21.55	21.81	21.62	
3	16QAM	8	0	20.92	21.01	21.04	
3	16QAM	8	4	20.83	20.98	20.90	
3	16QAM	8	7	20.79	20.97	20.88	21.5
3	16QAM	15	0	20.95	21.01	21.01	
3	64QAM	1	0	21.79	21.59	21.98	
3	64QAM	1	8	21.84	21.73	21.73	22.5
3	64QAM	1	14	21.70	21.75	21.62	
3	64QAM	8	0	20.94	21.04	21.01	
3	64QAM	8	4	21.00	21.01	20.55	21.5
3	64QAM	8	7	20.82	20.97	20.81	
3	64QAM	15	0	20.93	21.06	21.00	
Channel				1607	1690	19193	Tune-up limit
Frequency (MHz)				1650.7	1680	1909.3	(dBm)
1.4	QPSK	1	0	22.48	22.71	22.65	
1.4	QPSK	1	3	22.56	22.62	22.70	
1.4	QPSK	1	5	22.67	22.64	22.70	
1.4	QPSK	3	0	21.85	21.95	22.05	23.5
1.4	QPSK	3	1	21.77	21.82	21.83	
1.4	QPSK	3	3	21.82	21.90	21.90	
1.4	QPSK	6	0	21.80	21.83	21.95	22.5
1.4	16QAM	1	0	22.04	21.91	21.92	
1.4	16QAM	1	3	21.71	21.73	21.85	
1.4	16QAM	1	5	21.66	21.85	21.72	22.5
1.4	16QAM	3	0	21.03	21.05	21.14	
1.4	16QAM	3	1	20.94	21.02	21.00	
1.4	16QAM	3	3	20.89	21.01	20.98	
1.4	16QAM	6	0	21.06	21.05	21.11	21.5
1.4	64QAM	1	0	21.90	21.63	22.07	
1.4	64QAM	1	3	21.95	21.77	21.83	
1.4	64QAM	1	5	21.81	21.79	21.72	22.5
1.4	64QAM	3	0	21.05	21.08	21.11	
1.4	64QAM	3	1	21.11	21.05	20.65	
1.4	64QAM	3	3	20.93	21.01	20.91	
1.4	64QAM	6	0	21.04	21.04	21.10	21.5

3	16QAM	1	8	21.57	21.81	21.61	22.5
3	16QAM	1	14	21.71	21.87	21.59	
3	16QAM	8	0	20.93	20.91	20.99	
3	16QAM	8	4	20.82	21.01	20.84	21.5
3	16QAM	8	7	20.59	20.95	20.73	
3	16QAM	15	0	21.02	21.28	21.10	
3	64QAM	1	0	22.03	22.07	21.92	
3	64QAM	1	8	21.79	22.00	21.80	22.5
3	64QAM	1	14	21.59	22.09	21.74	
3	64QAM	8	0	21.09	21.02	20.89	
3	64QAM	8	4	20.62	20.94	20.67	21.5
3	64QAM	8	7	20.69	21.07	20.78	
3	64QAM	15	0	20.78	20.97	20.86	
Channel				19957	20175	20393	Tune-up limit
Frequency (MHz)				1710.7	1732.5	1754.3	(dBm)
1.4	QPSK	1	0	22.75	22.81	22.57	
1.4	QPSK	1	3	22.67	22.71	22.51	
1.4	QPSK	1	5	22.58	22.68	22.48	
1.4	QPSK	3	0	21.87	21.96	21.95	23.5
1.4	QPSK	3	1	21.80	21.85	21.71	
1.4	QPSK	3	3	21.86	21.83	21.82	
1.4	QPSK	6	0	21.79	21.97	21.89	22.5
1.4	16QAM	1	0	21.78	21.87	21.73	
1.4	16QAM	1	3	21.59	21.84	21.63	
1.4	16QAM	1	5	21.72	21.89	21.61	22.5
1.4	16QAM	3	0	20.95	20.94	21.01	
1.4	16QAM	3	1	20.84	21.04	20.86	
1.4	16QAM	3	3	20.61	20.98	20.75	
1.4	16QAM	6	0	21.04	21.31	21.12	21.5
1.4	64QAM	1	0	22.05	22.09	21.93	
1.4	64QAM	1	3	21.81	22.03	21.82	
1.4	64QAM	1	5	21.66	22.12	21.76	22.5
1.4	64QAM	3	0	21.11	21.05	20.91	
1.4	64QAM	3	1	20.64	20.97	20.69	
1.4	64QAM	3	3	20.71	21.10	20.80	
1.4	64QAM	6	0	20.80	21.00	20.88	21.5

Band 5 (Cellular Band) 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	Tune-up limit (dBm)
Frequency (MHz)				829	836.5	844	
10	QPSK	1	0	22.21	22.47	22.22	23.5
10	QPSK	1	25	22.38	22.08	22.34	
10	QPSK	1	49	22.28	22.17	22.39	
10	QPSK	25	0	21.56	21.86	21.60	22.5
10	QPSK	25	12	21.67	21.65	21.83	
10	QPSK	25	25	21.71	21.72	21.64	
10	QPSK	50	0	21.72	21.62	21.71	22.5
10	16QAM	1	0	21.84	21.83	21.73	
10	16QAM	1	25	21.81	21.60	21.64	
10	16QAM	1	49	21.70	21.72	21.75	21.5
10	16QAM	25	0	20.98	20.85	20.99	
10	16QAM	25	12	20.85	20.62	20.67	
10	16QAM	25	25	20.63	20.67	20.58	21.5
10	16QAM	50	0	20.99	20.70	20.98	
10	64QAM	1	0	21.95	21.73	21.84	
10	64QAM	1	25	21.82	21.86	21.74	22.5
10	64QAM	1	49	21.65	21.61	21.70	
10	64QAM	25	0	21.02	20.84	21.03	
10	64QAM	25	12	20.90	20.70	20.61	21.5
10	64QAM	25	25	20.73	20.67	20.64	
10	64QAM	50	0	20.97	20.65	21.02	
Channel				20425	20525	20625	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.5	
5	QPSK	1	0	22.16	22.43	22.14	23.5
5	QPSK	1	12	22.33	22.05	22.26	
5	QPSK	1	24	22.23	22.14	22.31	
5	QPSK	12	0	21.51	21.84	21.52	22.5
5	QPSK	12	7	21.62	21.62	21.75	
5	QPSK	12	13	21.67	21.70	21.56	
5	QPSK	25	0	21.67	21.59	21.63	22.5
5	16QAM	1	0	21.79	21.83	21.65	
5	16QAM	1	12	21.76	21.57	21.56	
5	16QAM	1	24	21.65	21.70	21.68	21.5
5	16QAM	12	0	20.93	20.82	20.91	
5	16QAM	12	7	20.80	20.59	20.59	
5	16QAM	12	13	20.59	20.65	20.50	21.5
5	16QAM	25	0	20.94	20.67	20.90	
5	64QAM	1	0	21.90	21.70	21.76	
5	64QAM	1	12	21.77	21.83	21.66	22.5
5	64QAM	1	24	21.60	21.58	21.62	
5	64QAM	12	0	20.97	20.81	20.95	
5	64QAM	12	7	20.85	20.67	20.53	21.5
5	64QAM	12	13	20.68	20.64	20.56	
5	64QAM	25	0	20.92	20.62	20.94	
Channel				20415	20525	20635	Tune-up limit (dBm)
Frequency (MHz)				825.5	836.5	847.5	
3	QPSK	1	0	22.12	22.42	22.11	23.5
3	QPSK	1	8	22.29	22.04	22.23	
3	QPSK	1	14	22.19	22.13	22.28	
3	QPSK	8	0	21.67	21.82	21.49	22.5
3	QPSK	8	4	21.58	21.61	21.72	
3	QPSK	8	7	21.62	21.68	21.53	
3	QPSK	15	0	21.63	21.58	21.60	22.5
3	16QAM	1	0	21.75	21.82	21.62	
3	16QAM	1	8	21.72	21.56	21.53	
3	16QAM	1	14	21.61	21.68	21.64	21.5
3	16QAM	8	0	20.89	20.81	20.88	
3	16QAM	8	4	20.76	20.58	20.56	
3	16QAM	8	7	20.54	20.63	20.47	21.5
3	16QAM	15	0	20.90	20.66	20.87	
3	64QAM	1	0	21.86	21.69	21.73	
3	64QAM	1	8	21.73	21.82	21.63	22.5
3	64QAM	1	14	21.56	21.57	21.59	
3	64QAM	8	0	20.93	20.80	20.92	
3	64QAM	8	4	20.81	20.66	20.53	21.5
3	64QAM	8	7	20.64	20.63	20.53	
3	64QAM	15	0	20.88	20.61	20.91	
Channel				20407	20525	20643	Tune-up limit (dBm)
Frequency (MHz)				824.7	836.5	848.3	
1.4	QPSK	1	0	22.15	22.33	22.16	23.5
1.4	QPSK	1	3	22.32	21.95	22.28	
1.4	QPSK	1	5	22.22	22.04	22.33	
1.4	QPSK	3	0	21.50	21.73	21.54	22.5
1.4	QPSK	3	1	21.61	21.52	21.77	
1.4	QPSK	3	3	21.65	21.59	21.58	
1.4	QPSK	6	0	21.66	21.49	21.65	22.5
1.4	16QAM	1	0	21.78	21.73	21.67	
1.4	16QAM	1	3	21.75	21.47	21.58	
1.4	16QAM	1	5	21.64	21.59	21.69	22.5
1.4	16QAM	3	0	20.92	20.72	20.93	
1.4	16QAM	3	1	20.79	20.49	20.61	
1.4	16QAM	3	3	20.57	20.54	20.52	21.5
1.4	16QAM	6	0	20.93	20.57	20.92	
1.4	64QAM	1	0	21.89	21.60	21.78	
1.4	64QAM	1	3	21.76	21.73	21.68	22.5
1.4	64QAM	1	5	21.59	21.54	21.64	
1.4	64QAM	3	0	20.96	20.71	20.97	
1.4	64QAM	3	1	20.84	20.57	20.55	21.5
1.4	64QAM	3	3	20.67	20.54	20.55	
1.4	64QAM	6	0	20.91	20.52	20.96	

Band 7 (2600MHz Band) Part 27							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				20850	21100	21350	Tune-up limit (dBm)
Frequency (MHz)				2510	2535	2560	
20	QPSK	1	0	22.07	22.34	22.17	23
20	QPSK	1	49	22.16	22.18	22.16	
20	QPSK	1	99	22.09	22.30	22.28	
20	QPSK	50	0	21.58	21.70	21.66	22
20	QPSK	50	24	21.53	21.60	21.65	
20	QPSK	50	50	21.60	21.62	21.57	
20	QPSK	100	0	21.54	21.65	21.69	22
20	16QAM	1	0	21.78	21.85	21.92	
20	16QAM	1	49	21.75	21.64	21.78	
20	16QAM	1	99	21.83	21.77	21.74	21
20	16QAM	50	0	20.68	20.80	20.83	
20	16QAM	50	24	20.70	20.73	20.80	
20	16QAM	50	50	20.65	20.79	20.71	21
20	16QAM	100	0	20.64	20.76	20.79	
20	64QAM	1	0	21.75	21.82	21.70	
20	64QAM	1	49	21.82	21.93	21.69	22
20	64QAM	1	99	21.73	21.77	21.82	
20	64QAM	50	0	20.73	20.78	20.84	
20	64QAM	50	24	20.64	20.74	20.71	21
20	64QAM	50	50	20.93	20.90	20.95	
20	64QAM	100	0	20.65	20.77	20.67	
Channel				20825	21100	21375	Tune-up limit (dBm)
Frequency (MHz)				2507.5	2535	2562.5	
15	QPSK	1	0	21.99	22.31	22.09	23
15	QPSK	1	37	22.08	22.16	22.08	
15	QPSK	1	74	22.01	22.27	22.20	
15	QPSK	36	0	21.51	21.68	21.58	22
15	QPSK	36	20	21.45	21.57	21.57	
15	QPSK	36	39	21.52	21.60	21.50	
15	QPSK	75	0	21.46	21.62	21.61	22
15	16QAM	1	0	21.70	21.82	21.84	
15	16QAM	1	37	21.67	21.61	21.70	
15	16QAM	1	74	21.76	21.75	21.66	21
15	16QAM	36	0	20.60	20.77	20.75	
15	16QAM	36	20	20.62	20.70	20.72	
15	16QAM	36	39	20.57	20.76	20.63	21
15	16QAM	75	0	20.56	20.73	20.71	
15	64QAM	1	0	21.67	21.79	21.62	
15	64QAM	1	37	21.74	21.90	21.61	22
15	64QAM	1	74	21.65	21.74	21.74	
15	64QAM	36	0	20.65	20.75	20.76	
15	64QAM	36	20	20.56	20.71	20.63	21
15	64QAM	36	39	20.85	20.87	20.87	
15	64QAM	75	0	20.57	20.74	20.59	
Channel				20800	21100	21400	Tune-up limit (dBm)
Frequency (MHz)				2505	2535	2565	
10	QPSK	1	0	21.98	22.29	22.08	23
10	QPSK	1	25	22.07	22.14	22.08	
10	QPSK	1	49	22.00	22.25	22.19	
10	QPSK	25	0	21.50	21.66	21.57	22
10	QPSK	25	12	21.44	21.55	21.56	
10	QPSK	25	25	21.51	21.57	21.48	
10	QPSK	50	0	21.45	21.61	21.61	22
10	16QAM	1	0	21.69	21.80	21.83	
10	16QAM	1	25	21.68	21.59	21.69	
10	16QAM	1	49	21.74	21.72	21.65	21
10	16QAM	25	0	20.59	20.75	20.74	
10	16QAM	25	12	20.62	20.69	20.71	
10	16QAM	25	25	20.56	20.74	20.62	21
10	16QAM	50	0	20.55	20.71	20.70	
10	64QAM	1	0	21.66	21.77	21.61	
10	64QAM	1	25	21.73	21.88	21.60	22
10	64QAM	1	49	21.64	21.72	21.73	
10	64QAM	25	0	20.64	20.73	20.75	
10	64QAM	25	12	20.55	20.69	20.62	21
10	64QAM	25	25	20.84	20.85	20.86	
10	64QAM	50	0	20.56	20.72	20.58	
Channel							

Band 12 (700MHz Low Band) 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	Tune-up limit (dBm)
Frequency (MHz)				704	707.5	711	
10	QPSK	1	0	22.38	22.48	22.30	23
10	QPSK	1	25	22.47	22.36	22.46	
10	QPSK	1	49	22.36	22.10	22.27	
10	QPSK	25	0	21.45	21.47	21.28	22
10	QPSK	25	12	21.42	21.24	21.36	
10	QPSK	25	25	21.35	21.46	21.41	
10	QPSK	50	0	21.18	21.23	21.33	22
10	16QAM	1	0	21.34	21.18	21.31	
10	16QAM	1	25	21.25	21.10	21.24	
10	16QAM	1	49	21.39	21.46	21.33	21
10	16QAM	25	0	20.63	20.68	20.60	
10	16QAM	25	12	20.58	20.59	20.83	
10	16QAM	25	25	20.64	20.78	20.89	22
10	16QAM	50	0	20.53	20.51	20.59	
10	64QAM	1	0	21.28	21.21	21.12	
10	64QAM	1	25	21.14	21.02	21.01	21
10	64QAM	1	49	21.03	21.40	21.34	
10	64QAM	25	0	20.67	20.57	20.47	
10	64QAM	25	12	20.82	20.53	20.56	22
10	64QAM	25	25	20.63	20.61	20.78	
10	64QAM	50	0	20.37	20.53	20.59	
Channel				23035	23095	23155	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	Tune-up limit (dBm)
5	QPSK	1	0	22.33	22.45	22.24	
5	QPSK	1	12	22.42	22.33	22.40	23
5	QPSK	1	24	22.32	22.08	22.21	
5	QPSK	12	0	21.40	21.44	21.22	
5	QPSK	12	7	21.37	21.22	21.31	22
5	QPSK	12	13	21.30	21.44	21.36	
5	QPSK	25	0	21.13	21.20	21.27	
5	16QAM	1	0	21.29	21.15	21.25	22
5	16QAM	1	12	21.21	21.08	21.18	
5	16QAM	1	24	21.35	21.44	21.27	
5	16QAM	12	0	20.58	20.65	20.54	21
5	16QAM	12	7	20.53	20.56	20.77	
5	16QAM	12	13	20.59	20.75	20.83	
5	16QAM	25	0	20.54	20.63	20.53	22
5	64QAM	1	0	21.23	21.18	21.06	
5	64QAM	1	12	21.09	21.49	21.45	
5	64QAM	1	24	21.48	21.37	21.28	21
5	64QAM	12	0	20.62	20.54	20.41	
5	64QAM	12	7	20.77	20.50	20.50	
5	64QAM	12	13	20.58	20.58	20.72	22
5	64QAM	25	0	20.32	20.50	20.53	
Channel				23025	23095	23165	
Frequency (MHz)				700.5	707.5	714.5	Tune-up limit (dBm)
3	QPSK	1	0	22.30	22.41	22.22	
3	QPSK	1	8	22.39	22.29	22.38	23
3	QPSK	1	14	22.29	22.04	22.19	
3	QPSK	8	0	21.37	21.40	21.20	
3	QPSK	8	4	21.34	21.18	21.29	22
3	QPSK	8	7	21.27	21.39	21.33	
3	QPSK	15	0	21.10	21.16	21.25	
3	16QAM	1	0	21.27	21.12	21.23	22
3	16QAM	1	8	21.18	21.04	21.16	
3	16QAM	1	14	21.32	21.40	21.25	
3	16QAM	8	0	20.56	20.62	20.52	21
3	16QAM	8	4	20.63	20.52	20.75	
3	16QAM	8	7	20.56	20.72	20.82	
3	16QAM	15	0	20.52	20.62	20.52	22
3	64QAM	1	0	21.20	21.15	21.05	
3	64QAM	1	8	21.06	21.45	21.43	
3	64QAM	1	14	21.43	21.33	21.26	21
3	64QAM	8	0	20.59	20.50	20.39	
3	64QAM	8	4	20.74	20.46	20.48	
3	64QAM	8	7	20.55	20.54	20.70	22
3	64QAM	15	0	20.29	20.46	20.51	
Channel				23017	23095	23173	
Frequency (MHz)				699.7	707.5	715.3	Tune-up limit (dBm)
1.4	QPSK	1	0	22.27	22.38	22.19	
1.4	QPSK	1	3	22.36	22.34	22.35	23
1.4	QPSK	1	5	22.25	22.08	22.16	
1.4	QPSK	3	0	21.34	21.45	21.17	
1.4	QPSK	3	1	21.31	21.22	21.25	22
1.4	QPSK	3	3	21.24	21.44	21.30	
1.4	QPSK	6	0	21.07	21.21	21.22	
1.4	16QAM	1	0	21.23	21.16	21.20	22
1.4	16QAM	1	3	21.14	21.08	21.13	
1.4	16QAM	1	5	21.28	21.44	21.22	
1.4	16QAM	3	0	20.52	20.66	20.54	21
1.4	16QAM	3	1	20.52	20.57	20.72	
1.4	16QAM	3	3	20.53	20.76	20.78	
1.4	16QAM	6	0	20.57	20.54	20.53	22
1.4	64QAM	1	0	21.17	21.19	21.01	
1.4	64QAM	1	3	21.03	21.43	21.40	
1.4	64QAM	1	5	21.42	21.38	21.23	21
1.4	64QAM	3	0	20.56	20.55	20.36	
1.4	64QAM	3	1	20.71	20.51	20.45	
1.4	64QAM	3	3	20.52	20.59	20.67	22
1.4	64QAM	6	0	20.26	20.51	20.48	

Band 17 (700MHz Band) 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	Tune-up limit (dBm)
Frequency (MHz)				709	710	711	
10	QPSK	1	0	22.31	22.46	22.30	23
10	QPSK	1	25	22.39	22.44	22.23	
10	QPSK	1	49	22.28	22.39	22.28	
10	QPSK	25	0	21.14	21.46	21.30	22
10	QPSK	25	12	21.23	21.35	21.35	
10	QPSK	25	25	21.19	21.34	21.26	
10	QPSK	50	0	21.29	21.31	21.33	22
10	16QAM	1	0	21.30	21.28	21.41	
10	16QAM	1	25	21.13	21.43	21.07	
10	16QAM	1	49	21.31	21.02	21.14	21
10	16QAM	25	0	20.44	20.34	20.36	
10	16QAM	25	12	20.32	20.57	20.45	
10	16QAM	25	25	20.47	20.38	20.43	22
10	16QAM	50	0	20.33	20.43	20.39	
10	64QAM	1	0	21.25	21.13	21.19	
10	64QAM	1	25	21.35	21.12	21.31	21
10	64QAM	1	49	21.34	21.36	21.11	
10	64QAM	25	0	20.44	20.45	20.49	
10	64QAM	25	12	20.40	20.42	20.42	22
10	64QAM	25	25	20.38	20.35	20.33	
10	64QAM	50	0	20.31	20.47	20.50	
Channel				23755	23790	23825	Tune-up limit (dBm)
Frequency (MHz)				706.5	710	713.5	Tune-up limit (dBm)
5	QPSK	1	0	22.27	22.40	22.24	
5	QPSK	1	12	22.35	22.37	22.17	23
5	QPSK	1	24	22.24	22.32	22.22	
5	QPSK	12	0	21.10	21.39	21.24	
5	QPSK	12	7	21.19	21.28	21.29	22
5	QPSK	12	13	21.15	21.27	21.20	
5	QPSK	25	0	21.25	21.24	21.27	
5	16QAM	1	0	21.26	21.21	21.35	22
5	16QAM	1	12	21.09	21.36	21.01	
5	16QAM	1	24	21.27	20.95	21.08	
5	16QAM	12	0	20.40	20.37	20.31	21
5	16QAM	12	7	20.33	20.50	20.39	
5	16QAM	12	13	20.43	20.31	20.37	
5	16QAM	25	0	20.32	20.36	20.33	22
5	64QAM	1	0	21.21	21.06	21.13	
5	64QAM	1	12	21.31	21.05	21.25	
5	64QAM	1	24	21.30	21.29	21.05	21
5	64QAM	12	0	20.40	20.38	20.43	
5	64QAM	12	7	20.36	20.35	20.36	
5	64QAM	12	13	20.34	20.28	20.27	22
5	64QAM	25	0	20.27	20.40	20.44	

Band 66

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				132072	132322	132572	Tune-up limit (dBm)
Frequency (MHz)				1720	1745	1770	
20	QPSK	1	0	22.50	22.56	22.53	23.5
20	QPSK	1	49	22.45	22.43	22.41	
20	QPSK	1	99	22.47	22.42	22.38	
20	QPSK	50	0	22.07	22.14	22.02	22.5
20	QPSK	50	24	22.04	22.01	21.96	
20	QPSK	50	50	21.91	21.98	21.87	
20	QPSK	100	0	22.06	21.97	21.86	22.5
20	16QAM	1	0	21.96	21.94	21.90	
20	16QAM	1	49	21.85	21.98	21.87	
20	16QAM	1	99	21.83	21.69	21.74	21.5
20	16QAM	50	0	21.14	21.27	21.18	
20	16QAM	50	24	21.17	21.15	21.13	
20	16QAM	50	50	21.06	21.07	21.14	21.5
20	16QAM	100	0	21.25	21.13	21.15	
20	64QAM	1	0	22.11	22.19	22.01	
20	64QAM	1	49	21.84	21.97	21.85	22.5
20	64QAM	1	99	21.93	21.99	21.94	
20	64QAM	50	0	21.20	21.29	21.35	
20	64QAM	50	24	20.92	21.18	21.08	21.5
20	64QAM	50	50	21.06	21.15	21.17	
20	64QAM	100	0	21.08	21.13	21.16	
Channel				132047	132322	132597	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	22.50	22.51	22.48	23.5
15	QPSK	1	37	22.45	22.43	22.41	
15	QPSK	1	74	22.47	22.42	22.38	
15	QPSK	36	0	22.07	22.14	22.02	22.5
15	QPSK	36	20	22.04	22.01	21.96	
15	QPSK	36	39	21.91	21.98	21.87	
15	QPSK	75	0	22.06	21.97	21.86	22.5
15	16QAM	1	0	21.96	21.94	21.90	
15	16QAM	1	37	21.85	21.98	21.87	
15	16QAM	1	74	21.83	21.69	21.74	21.5
15	16QAM	36	0	21.14	21.27	21.18	
15	16QAM	36	20	21.17	21.15	21.13	
15	16QAM	36	39	21.06	21.07	21.14	21.5
15	16QAM	75	0	21.25	21.13	21.15	
15	64QAM	1	0	22.11	22.19	22.01	
15	64QAM	1	37	21.84	21.97	21.85	22.5
15	64QAM	1	74	21.93	21.99	21.94	
15	64QAM	36	0	21.20	21.29	21.35	
15	64QAM	36	20	20.92	21.18	21.08	21.5
15	64QAM	36	39	21.06	21.15	21.17	
15	64QAM	75	0	21.08	21.13	21.16	
Channel				132022	132322	132622	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	22.43	22.54	22.46	23.5
10	QPSK	1	25	22.38	22.41	22.34	
10	QPSK	1	49	22.40	22.40	22.31	
10	QPSK	25	0	22.00	22.12	21.95	22.5
10	QPSK	25	12	21.97	21.99	21.89	
10	QPSK	25	25	21.84	21.96	21.80	
10	QPSK	50	0	21.99	21.95	21.79	22.5
10	16QAM	1	0	21.89	21.92	21.83	
10	16QAM	1	25	21.78	21.96	21.80	
10	16QAM	1	49	21.76	21.67	21.67	21.5
10	16QAM	25	0	21.07	21.25	21.11	
10	16QAM	25	12	21.10	21.13	21.06	
10	16QAM	25	25	20.99	21.05	21.07	21.5
10	16QAM	50	0	21.18	21.11	21.08	
10	64QAM	1	0	22.04	22.17	21.94	
10	64QAM	1	25	21.77	21.95	21.78	22.5
10	64QAM	1	49	21.86	21.97	21.87	
10	64QAM	25	0	21.13	21.27	21.28	
10	64QAM	25	12	20.85	21.16	21.01	21.5
10	64QAM	25	25	20.99	21.13	21.10	
10	64QAM	50	0	21.01	21.11	21.09	
Channel				131997	132322	132647	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	22.37	22.45	22.40	23.5
5	QPSK	1	12	22.32	22.32	22.28	
5	QPSK	1	24	22.34	22.31	22.25	
5	QPSK	12	0	21.94	22.03	21.89	22.5
5	QPSK	12	7	21.91	21.90	21.83	
5	QPSK	12	13	21.78	21.87	21.74	
5	QPSK	25	0	21.93	21.86	21.73	22.5
5	16QAM	1	0	21.83	21.83	21.77	
5	16QAM	1	12	21.72	21.87	21.74	
5	16QAM	1	24	21.70	21.58	21.61	21.5
5	16QAM	12	0	21.01	21.16	21.05	
5	16QAM	12	7	21.04	21.04	21.00	
5	16QAM	12	13	20.93	20.96	21.01	21.5
5	16QAM	25	0	21.12	21.02	21.02	
5	64QAM	1	0	21.98	22.08	21.88	
5	64QAM	1	12	21.71	21.86	21.72	22.5
5	64QAM	1	24	21.80	21.88	21.81	
5	64QAM	12	0	21.07	21.18	21.22	
5	64QAM	12	7	20.79	21.07	20.95	21.5
5	64QAM	12	13	20.93	21.04	21.04	
5	64QAM	25	0	20.95	21.02	21.03	
Channel				131987	132322	132657	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	22.38	22.47	22.41	23.5
3	QPSK	1	8	22.33	22.34	22.29	
3	QPSK	1	14	22.35	22.33	22.26	
3	QPSK	8	0	21.95	22.05	21.90	22.5
3	QPSK	8	4	21.92	21.92	21.84	
3	QPSK	8	7	21.79	21.89	21.75	
3	QPSK	15	0	21.94	21.88	21.74	22.5
3	16QAM	1	0	21.84	21.85	21.78	

3	16QAM	1	8	21.73	21.89	21.75	22.5
3	16QAM	1	14	21.71	21.60	21.62	
3	16QAM	8	0	21.02	21.18	21.06	21.5
3	16QAM	8	4	21.05	21.06	21.01	
3	16QAM	8	7	20.94	20.98	21.02	
3	16QAM	15	0	21.13	21.04	21.03	22.5
3	64QAM	1	0	21.99	22.10	21.89	
3	64QAM	1	8	21.72	21.88	21.73	
3	64QAM	1	14	21.81	21.90	21.82	21.5
3	64QAM	8	0	21.08	21.20	21.23	
3	64QAM	8	4	20.80	21.09	20.96	
3	64QAM	8	7	20.94	21.06	21.05	
3	64QAM	15	0	20.96	21.04	21.04	Tune-up limit (dBm)
Channel				131979	132322	132665	
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	22.34	22.50	22.37	23.5
1.4	QPSK	1	3	22.29	22.37	22.25	
1.4	QPSK	1	5	22.31	22.36	22.22	
1.4	QPSK	3	0	21.91	22.08	21.86	
1.4	QPSK	3	1	21.88	21.95	21.80	
1.4	QPSK	3	3	21.75	21.92	21.71	
1.4	QPSK	6	0	21.90	21.91	21.70	22.5
1.4	16QAM	1	0	21.80	21.88	21.74	22.5
1.4	16QAM	1	3	21.69	21.92	21.71	
1.4	16QAM	1	5	21.67	21.63	21.58	
1.4	16QAM	3	0	20.98	21.21	21.02	
1.4	16QAM	3	1	21.01	21.09	20.97	
1.4	16QAM	3	3	20.90	21.01	20.98	
1.4	16QAM	6	0	21.09	21.07	20.99	21.5
1.4	64QAM	1	0	21.95	22.13	21.85	22.5
1.4	64QAM	1	3	21.68	21.91	21.69	
1.4	64QAM	1	5	21.77	21.93	21.78	
1.4	64QAM	3	0	21.04	21.23	21.19	
1.4	64QAM	3	1	20.76	21.12	20.92	
1.4	64QAM	3	3	20.90	21.09	21.01	
1.4	64QAM	6	0	20.92	21.07	21.00	21.5

2.4GHz WLAN	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
	802.11b 1Mbps	CH 1	2412	15.48	16.00	14.00	100.00
		CH 7	2442	13.26	14.00	14.00	
		CH 13	2472	15.01	15.50	14.00	
	802.11g 6Mbps	CH 1	2412	13.60	14.00	13.00	96.24
		CH 7	2442	12.24	13.00	13.00	
		CH 13	2472	13.04	13.50	13.00	
	802.11n-HT20 MCS0	CH 1	2412	12.42	13.00	12.00	95.43
		CH 7	2442	11.07	11.50	12.00	
		CH 13	2472	12.02	12.50	12.00	

Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
BR / EDR	CH 00	2402	5.36	4.49	4.34
	CH 39	2441	4.48	3.46	3.48
	CH 78	2480	4.61	3.67	3.61
Tune-up Limit			6.0	5.0	5.0
Duty Cycle %			77.33	76.53	76.53

Mode	Channel	Frequency (MHz)	Average power (dBm)
			GFSK
LE	CH 00	2402	-2.60
	CH 19	2440	-4.39
	CH 39	2480	-4.88
Tune-up Limit			-2.0
Duty Cycle %			62.98