



REPORT No.: SZ22010233S01

Annex E Conducted Power

Full Power

GSM850	Burst Average Power (dBm)			Tune-up Limit (dBm)	Frame-Average Power (dBm)			Tune-up Limit (dBm)	Ch Delta > 0.5
	TX Channel	128	189		251	128	189		
Frequency (MHz)	824.2	836.4	848.8		824.2	836.4	848.8		
GSM 1 Tx slot	32.62	32.67	32.68	33.50	23.62	23.67	23.68	24.50	0.08
GPRS 1 Tx slot	32.66	32.70	32.69	33.50	23.66	23.70	23.69	24.50	
GPRS 2 Tx slots	30.60	30.63	30.61	31.50	24.60	24.63	24.61	25.50	0.03
GPRS 3 Tx slots	28.71	28.72	28.69	29.50	24.45	24.46	24.43	25.24	0.03
GPRS 4 Tx slots	26.65	26.68	26.64	27.50	23.65	23.68	23.64	24.50	0.04
EDGE 1 Tx slot	26.70	26.88	26.73	28.00	17.70	17.88	17.73	19.00	0.18
EDGE 2 Tx slots	24.48	24.65	24.43	26.00	18.48	18.65	18.43	20.00	0.22
EDGE 3 Tx slots	22.25	22.50	22.28	24.00	17.99	18.24	18.02	19.74	0.25
EDGE 4 Tx slots	20.41	20.43	20.40	22.00	17.41	17.43	17.40	19.00	0.03
Mode		Max.	32.70			Max.	24.63		
Attenuator	Cable Loss : 0.6								
Date	2022.2.11								

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		
Frequency (MHz)	1850.2	1880	1909.8		1850.2	1880	1909.8		
GSM 1 Tx slot	29.32	29.36	29.15	30.50	20.32	20.36	20.15	21.50	0.21
GPRS 1 Tx slot	29.30	29.35	29.34	30.50	20.30	20.35	20.34	21.50	
GPRS 2 Tx slots	27.52	27.90	27.89	28.50	21.52	21.90	21.89	22.50	0.38
GPRS 3 Tx slots	25.73	26.12	26.08	26.50	21.47	21.86	21.82	22.24	0.39
GPRS 4 Tx slots	23.45	23.82	23.95	24.50	20.45	20.82	20.95	21.50	0.50
EDGE 1 Tx slot	26.01	25.98	25.93	27.00	17.01	16.98	16.93	18.00	0.08
EDGE 2 Tx slots	24.48	24.47	24.12	25.00	18.48	18.47	18.12	19.00	0.36
EDGE 3 Tx slots	21.92	22.15	22.06	23.00	17.66	17.89	17.80	18.74	0.23
EDGE 4 Tx slots	20.11	20.26	20.19	21.00	17.11	17.26	17.19	18.00	0.15
Mode		Max.	29.36			Max.	21.90		
Attenuator	Cable Loss : 0.8								
Date	2022.2.11								

Band	WCDMA Band II			Tune-up Limit (dBm)	WCDMA Band IV			Tune-up Limit (dBm)	WCDMA Band V			Tune-up Limit (dBm)	
	Rx 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	22.93	22.94	22.90	24.00	22.81	22.84	22.82	24.00	22.86	22.89	22.88	24.00
3GPP Rel 6	HSDPA Subtest-1	22.05	22.06	22.16	23.00	22.12	22.34	22.31	23.00	22.48	22.43	22.62	23.00
3GPP Rel 6	HSDPA Subtest-2	22.10	22.18	22.19	23.00	22.16	22.54	22.31	23.00	22.46	22.17	22.59	23.00
3GPP Rel 6	HSDPA Subtest-3	21.58	21.65	21.69	22.50	21.72	22.09	21.92	22.50	22.17	21.67	21.80	22.50
3GPP Rel 6	HSDPA Subtest-4	21.63	21.70	21.74	22.50	21.71	22.08	21.90	22.50	22.19	21.72	21.84	22.50
3GPP Rel 8	DC-HSDPA Subtest-1	21.57	21.63	21.68	22.50	22.10	22.31	22.33	23.00	21.21	21.05	21.05	22.00
3GPP Rel 8	DC-HSDPA Subtest-2	21.60	21.66	21.78	22.50	22.09	22.35	22.33	23.00	21.29	21.11	21.11	22.00
3GPP Rel 8	DC-HSDPA Subtest-3	21.70	21.69	21.73	22.50	22.09	22.35	22.32	23.00	21.33	21.13	21.13	22.00
3GPP Rel 8	DC-HSDPA Subtest-4	21.69	21.70	21.74	22.50	22.07	22.34	22.32	23.00	21.35	21.16	21.14	22.00
3GPP Rel 6	HSUPA Subtest-1	21.69	21.75	22.08	22.50	22.01	22.46	22.32	23.00	21.73	21.63	21.56	22.00
3GPP Rel 6	HSUPA Subtest-2	21.71	21.64	22.03	23.00	22.00	22.43	22.30	23.00	21.67	21.58	21.52	22.00
3GPP Rel 6	HSUPA Subtest-3	21.91	21.97	22.09	23.00	22.13	22.40	22.24	23.00	21.75	21.60	21.55	22.00
3GPP Rel 6	HSUPA Subtest-4	21.61	21.64	22.00	23.00	22.05	22.40	22.30	23.00	21.62	21.52	21.47	22.00
3GPP Rel 6	HSUPA Subtest-5	21.89	21.76	22.07	23.00	22.18	22.39	22.26	23.00	21.72	21.57	21.53	22.00
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	21.73	21.77	21.86	22.50	21.92	22.44	22.37	23.00	22.01	21.74	21.72	22.50
Attenuator		Cable Loss	0.8			Cable Loss	0.8			Cable Loss	0.6		
Mode		Max.	22.94			Max.	22.84			Max.	22.89		
Date	2022.2.11				2022.2.11				2022.2.11				

3	16QAM	1	14	22.30	22.23	22.33	22
3	16QAM	8	0	20.99	21.19	21.13	
3	16QAM	8	4	21.01	21.13	21.14	
3	16QAM	8	7	20.98	21.08	20.99	
3	16QAM	15	0	21.06	21.15	21.09	
3	64QAM	1	0	20.99	21.06	21.27	
3	64QAM	1	8	21.18	21.19	21.04	
3	64QAM	1	14	20.96	20.94	20.95	
3	64QAM	8	0	20.24	20.07	20.16	
3	64QAM	8	4	20.26	20.19	20.21	
3	64QAM	8	7	20.10	20.10	20.26	
3	64QAM	15	0	20.08	20.12	20.06	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	22.84	23.09	22.89	24
1.4	QPSK	1	3	22.81	23.08	22.85	
1.4	QPSK	1	5	22.71	23.05	22.79	
1.4	QPSK	3	0	22.08	22.06	22.08	
1.4	QPSK	3	1	22.09	22.02	22.09	
1.4	QPSK	3	3	22.01	22.16	22.06	
1.4	QPSK	6	0	22.02	21.99	22.09	
1.4	16QAM	1	0	22.38	21.98	22.38	
1.4	16QAM	1	3	22.48	22.13	22.42	
1.4	16QAM	1	5	22.34	22.29	22.39	
1.4	16QAM	3	0	21.03	21.25	21.17	
1.4	16QAM	3	1	21.05	21.19	21.18	
1.4	16QAM	3	3	21.02	21.14	21.03	
1.4	16QAM	6	0	21.19	21.30	21.22	
1.4	64QAM	1	0	21.17	21.24	21.45	
1.4	64QAM	1	3	21.36	21.37	21.22	
1.4	64QAM	1	5	21.14	21.12	21.13	
1.4	64QAM	3	0	20.42	20.25	20.34	
1.4	64QAM	3	1	20.44	20.37	20.39	
1.4	64QAM	3	3	20.28	20.28	20.44	
1.4	64QAM	6	0	20.26	20.30	20.24	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	

3	16QAM	1	14	21.92	22.22	22.29	22
3	16QAM	8	0	20.96	20.95	21.04	
3	16QAM	8	4	20.91	21.04	21.01	
3	16QAM	8	7	20.99	21.01	20.99	
3	16QAM	15	0	20.82	20.98	21.03	
3	64QAM	1	0	21.15	21.36	21.00	
3	64QAM	1	8	21.10	21.20	21.23	
3	64QAM	1	14	21.24	21.09	21.13	
3	64QAM	8	0	20.32	20.13	20.27	
3	64QAM	8	4	20.43	20.14	20.31	
3	64QAM	8	7	20.25	20.19	20.12	
3	64QAM	15	0	20.06	20.18	20.17	
Channel				19857	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	22.64	22.66	22.59	24
1.4	QPSK	1	3	22.62	22.52	22.62	
1.4	QPSK	1	5	22.60	22.65	22.55	
1.4	QPSK	3	0	21.73	21.66	21.70	
1.4	QPSK	3	1	21.58	21.76	21.74	
1.4	QPSK	3	3	21.65	21.59	21.63	
1.4	QPSK	6	0	21.71	21.64	21.66	
1.4	16QAM	1	0	21.87	22.11	22.34	
1.4	16QAM	1	3	21.88	22.15	22.22	
1.4	16QAM	1	5	21.86	22.12	22.23	
1.4	16QAM	3	0	20.90	20.85	20.98	
1.4	16QAM	3	1	20.85	20.94	20.95	
1.4	16QAM	3	3	20.93	20.91	20.93	
1.4	16QAM	6	0	20.83	20.95	21.04	
1.4	64QAM	1	0	21.13	21.34	20.98	
1.4	64QAM	1	3	21.08	21.18	21.21	
1.4	64QAM	1	5	21.22	21.07	21.11	
1.4	64QAM	3	0	20.30	20.11	20.25	
1.4	64QAM	3	1	20.41	20.12	20.29	
1.4	64QAM	3	3	20.23	20.17	20.10	
1.4	64QAM	6	0	20.04	20.16	20.15	
Channel				19857	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	

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	
Frequency (MHz)				704	707.5	711	
10	QPSK	1	0	23.43	23.44	23.42	24.5
10	QPSK	1	25	23.42	23.36	23.38	
10	QPSK	1	49	23.43	23.40	23.41	
10	QPSK	25	0	22.56	22.69	22.63	23.5
10	QPSK	25	12	22.61	22.49	22.48	
10	QPSK	25	25	22.62	22.65	22.66	
10	QPSK	50	0	22.68	22.58	22.64	23.5
10	16QAM	1	0	22.94	22.81	22.88	
10	16QAM	1	25	22.77	23.00	22.77	
10	16QAM	1	49	22.63	22.91	23.06	22.5
10	16QAM	25	0	22.18	21.71	21.86	
10	16QAM	25	12	22.16	21.90	21.81	
10	16QAM	25	25	21.84	21.95	21.71	22.5
10	16QAM	50	0	21.96	21.91	21.91	
10	64QAM	1	0	21.63	21.64	21.41	
10	64QAM	1	25	21.84	21.71	21.53	22.5
10	64QAM	1	49	21.71	21.60	21.69	
10	64QAM	25	0	21.16	20.83	21.02	
10	64QAM	25	12	21.05	20.94	20.81	21.5
10	64QAM	25	25	21.01	20.96	21.14	
10	64QAM	50	0	21.19	21.08	21.15	
Channel				23035	23095	23155	Tune-up limit (dBm)
Frequency (MHz)				701.5	707.5	713.5	
5	QPSK	1	0	23.35	23.41	23.36	24.5
5	QPSK	1	12	23.34	23.33	23.32	
5	QPSK	1	24	23.35	23.37	23.35	
5	QPSK	12	0	22.48	22.47	22.57	23.5
5	QPSK	12	7	22.53	22.46	22.42	
5	QPSK	12	13	22.54	22.62	22.60	
5	QPSK	25	0	22.60	22.55	22.58	23.5
5	16QAM	1	0	22.86	22.78	22.82	
5	16QAM	1	12	22.69	22.97	22.71	
5	16QAM	1	24	22.55	22.88	23.00	22.5
5	16QAM	12	0	22.10	21.68	21.80	
5	16QAM	12	7	22.08	21.87	21.75	
5	16QAM	12	13	21.76	21.92	21.65	22.5
5	16QAM	25	0	21.88	21.88	21.85	
5	64QAM	1	0	21.55	21.56	21.33	
5	64QAM	1	12	21.76	21.63	21.45	22.5
5	64QAM	1	24	21.63	21.52	21.61	
5	64QAM	12	0	21.08	20.75	20.94	
5	64QAM	12	7	20.97	20.86	20.73	21.5
5	64QAM	12	13	20.93	20.88	21.06	
5	64QAM	25	0	21.11	21.20	21.17	
Channel				23025	23095	23165	Tune-up limit (dBm)
Frequency (MHz)				700.5	707.5	714.5	
3	QPSK	1	0	23.39	23.40	23.33	24.5
3	QPSK	1	8	23.38	23.31	23.29	
3	QPSK	1	14	23.39	23.35	23.32	
3	QPSK	8	0	22.52	22.45	22.54	23.5
3	QPSK	8	4	22.57	22.44	22.39	
3	QPSK	8	7	22.58	22.60	22.57	
3	QPSK	15	0	22.64	22.53	22.55	23.5
3	16QAM	1	0	22.90	22.76	22.79	
3	16QAM	1	8	22.73	22.95	22.68	
3	16QAM	1	14	22.59	22.86	22.97	22.5
3	16QAM	8	0	22.14	21.75	21.86	
3	16QAM	8	4	22.12	21.94	21.81	
3	16QAM	8	7	21.80	21.99	21.71	22.5
3	16QAM	15	0	21.92	21.95	21.91	
3	64QAM	1	0	21.56	21.57	21.34	
3	64QAM	1	8	21.77	21.64	21.46	22.5
3	64QAM	1	14	21.64	21.53	21.62	
3	64QAM	8	0	21.09	20.76	20.95	
3	64QAM	8	4	20.98	20.87	20.74	21.5
3	64QAM	8	7	20.94	20.89	21.07	
3	64QAM	15	0	21.12	21.21	21.18	
Channel				23017	23095	23173	Tune-up limit (dBm)
Frequency (MHz)				699.7	707.5	715.3	
1.4	QPSK	1	0	23.30	23.37	23.29	24.5
1.4	QPSK	1	3	23.29	23.29	23.25	
1.4	QPSK	1	5	23.30	23.33	23.28	
1.4	QPSK	3	0	22.43	22.43	22.50	23.5
1.4	QPSK	3	1	22.48	22.42	22.35	
1.4	QPSK	3	3	22.49	22.58	22.53	
1.4	QPSK	6	0	22.55	22.51	22.51	23.5
1.4	16QAM	1	0	22.81	22.74	22.75	
1.4	16QAM	1	3	22.64	22.93	22.64	
1.4	16QAM	1	5	22.50	22.84	22.91	23.5
1.4	16QAM	3	0	22.05	21.64	21.73	
1.4	16QAM	3	1	22.03	21.83	21.68	
1.4	16QAM	3	3	21.71	21.88	21.58	22.5
1.4	16QAM	6	0	21.83	21.94	21.78	
1.4	64QAM	1	0	21.70	21.71	21.48	
1.4	64QAM	1	3	21.91	21.78	21.60	22.5
1.4	64QAM	1	5	21.78	21.67	21.76	
1.4	64QAM	3	0	21.23	20.90	21.09	
1.4	64QAM	3	1	21.12	21.01	20.88	21.5
1.4	64QAM	3	3	21.08	21.03	21.21	
1.4	64QAM	6	0	21.26	21.35	21.32	

Band 13(700MHz Band) Part 27F							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				23230			
Frequency (MHz)				782			
10	QPSK	1	0		23.38		24.5
10	QPSK	1	25		23.23		
10	QPSK	1	49		23.30		
10	QPSK	25	0		22.33		23.5
10	QPSK	25	12		22.31		
10	QPSK	25	25		22.30		
10	QPSK	50	0		22.26		23.5
10	16QAM	1	0		22.74		
10	16QAM	1	25		22.51		
10	16QAM	1	49		22.56		22.5
10	16QAM	25	0		21.75		
10	16QAM	25	12		21.69		
10	16QAM	25	25		21.70		22.5
10	16QAM	50	0		21.52		
10	64QAM	1	0		21.74		
10	64QAM	1	25		21.81		22.5
10	64QAM	1	49		21.61		
10	64QAM	25	0		20.92		
10	64QAM	25	12		20.90		21.5
10	64QAM	25	25		20.88		
10	64QAM	50	0		21.00		
Channel				23205	23230	23255	Tune-up limit (dBm)
Frequency (MHz)				779.5	782	784.5	
5	QPSK	1	0	23.17	23.27	23.21	24.5
5	QPSK	1	12	23.10	23.20	23.14	
5	QPSK	1	24	23.15	23.25	23.17	
5	QPSK	12	0	22.02	22.17	22.06	23.5
5	QPSK	12	7	22.13	22.28	22.11	
5	QPSK	12	13	22.12	22.27	22.24	
5	QPSK	25	0	22.06	22.21	22.12	23.5
5	16QAM	1	0	22.61	22.71	22.58	
5	16QAM	1	12	22.36	22.46	22.29	
5	16QAM	1	24	22.43	22.53	22.37	22.5
5	16QAM	12	0	21.57	21.67	21.51	
5	16QAM	12	7	21.56	21.66	21.55	
5	16QAM	12	13	21.55	21.65	21.63	22.5
5	16QAM	25	0	21.39	21.49	21.42	
5	64QAM	1	0	21.53	21.66	21.63	
5	64QAM	1	12	21.60	21.73	21.71	22.5
5	64QAM	1	24	21.40	21.53	21.46	
5	64QAM	12	0	20.69	20.84	20.75	
5	64QAM	12	7	20.67	20.82	20.73	21.5
5	64QAM	12	13	20.65	20.80	20.71	
5	64QAM	25	0	20.77	20.92	20.83	

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	24.5
Frequency (MHz)				709	710	711	
10	QPSK	1	0	23.30	23.34	23.27	
10	QPSK	1	25	23.28	23.31	23.24	23.5
10	QPSK	1	49	23.24	23.33	23.32	
10	QPSK	25	0	22.36	22.48	22.48	
10	QPSK	25	12	22.39	22.38	22.28	23.5
10	QPSK	25	25	22.48	22.35	22.46	
10	QPSK	50	0	22.36	22.47	22.44	
10	16QAM	1	0	22.50	22.62	22.70	23.5
10	16QAM	1	25	22.62	22.53	22.58	
10	16QAM	1	49	22.57	22.65	22.64	
10	16QAM	25	0	21.59	21.64	21.66	22.5
10	16QAM	25	12	22.00	21.78	21.67	
10	16QAM	25	25	21.71	21.51	21.54	
10	16QAM	50	0	21.75	21.72	21.78	22.5
10	64QAM	1	0	21.65	21.63	21.55	
10	64QAM	1	25	21.86	21.67	21.58	
10	64QAM	1	49	21.52	21.73	21.61	21.5
10	64QAM	25	0	20.87	20.81	20.84	
10	64QAM	25	12	20.90	20.70	20.90	
10	64QAM	25	25	20.99	20.76	20.83	21.5
10	64QAM	50	0	20.95	20.93	20.98	
Channel				23755	23790	23825	
Frequency (MHz)				706.5	710	713.5	24.5
5	QPSK	1	0	23.21	23.30	23.23	
5	QPSK	1	12	23.19	23.27	23.16	
5	QPSK	1	24	23.15	23.29	23.24	23.5
5	QPSK	12	0	22.27	22.25	22.38	
5	QPSK	12	7	22.30	22.34	22.20	
5	QPSK	12	13	22.39	22.31	22.38	23.5
5	QPSK	25	0	22.27	22.43	22.36	
5	16QAM	1	0	22.41	22.58	22.62	
5	16QAM	1	12	22.53	22.49	22.50	23.5
5	16QAM	1	24	22.48	22.61	22.56	
5	16QAM	12	0	21.50	21.60	21.58	
5	16QAM	12	7	21.91	21.74	21.59	22.5
5	16QAM	12	13	21.62	21.47	21.46	
5	16QAM	25	0	21.66	21.68	21.70	
5	64QAM	1	0	21.56	21.54	21.46	22.5
5	64QAM	1	12	21.77	21.58	21.49	
5	64QAM	1	24	21.43	21.64	21.52	
5	64QAM	12	0	20.78	20.72	20.75	21.5
5	64QAM	12	7	20.81	20.61	20.81	
5	64QAM	12	13	20.90	20.67	20.74	
5	64QAM	25	0	20.86	20.84	20.87	

Band 26 for FCC (only on channel required)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				26765	26865	26965	24
Frequency (MHz)				821.5	831.5	841.5	
15	QPSK	1	0	22.73	22.84	22.83	
15	QPSK	1	37	22.74	22.80	22.80	23
15	QPSK	1	74	22.70	22.82	22.83	
15	QPSK	36	0	21.91	21.92	21.81	
15	QPSK	36	20	21.86	21.91	21.86	23
15	QPSK	36	39	21.92	21.90	21.90	
15	QPSK	75	0	21.87	21.88	21.88	
15	16QAM	1	0	21.96	22.21	21.95	23
15	16QAM	1	37	22.08	22.22	22.13	
15	16QAM	1	74	21.94	22.23	22.08	
15	16QAM	36	0	21.00	21.32	21.02	22
15	16QAM	36	20	21.41	21.27	20.99	
15	16QAM	36	39	21.06	21.29	21.33	
15	16QAM	75	0	21.21	21.31	21.01	22
15	64QAM	1	0	21.24	21.24	21.43	
15	64QAM	1	37	21.28	21.21	21.33	
15	64QAM	1	74	21.43	21.30	21.45	21
15	64QAM	36	0	20.32	20.63	20.34	
15	64QAM	36	20	20.43	20.48	20.48	
15	64QAM	36	39	20.30	20.44	20.41	21
15	64QAM	75	0	20.66	20.54	20.19	
Channel				26740	26865	26990	
Frequency (MHz)				819	831.5	844	24
10	QPSK	1	0	22.67	22.81	22.75	
10	QPSK	1	25	22.68	22.77	22.77	
10	QPSK	1	49	22.64	22.79	22.77	23
10	QPSK	25	0	21.88	21.89	21.75	
10	QPSK	25	12	21.80	21.88	21.80	
10	QPSK	25	25	21.86	21.87	21.87	23
10	QPSK	50	0	21.81	21.85	21.82	
10	16QAM	1	0	21.90	22.18	21.89	
10	16QAM	1	25	22.02	22.19	22.07	23
10	16QAM	1	49	21.88	22.20	22.02	
10	16QAM	25	0	20.94	21.29	20.96	
10	16QAM	25	12	21.35	21.24	20.93	22
10	16QAM	25	25	21.00	21.26	21.27	
10	16QAM	50	0	21.15	21.28	20.95	
10	64QAM	1	0	21.17	21.17	21.36	22
10	64QAM	1	25	21.21	21.14	21.26	
10	64QAM	1	49	21.36	21.23	21.38	
10	64QAM	25	0	20.25	20.56	20.27	21
10	64QAM	25	12	20.36	20.41	20.41	
10	64QAM	25	25	20.23	20.37	20.34	
10	64QAM	50	0	20.59	20.47	20.12	
Channel				26715	26865	27015	24
Frequency (MHz)				816.5	831.5	846.5	
5	QPSK	1	0	22.64	22.80	22.72	
5	QPSK	1	12	22.65	22.76	22.74	23
5	QPSK	1	24	22.61	22.78	22.74	
5	QPSK	12	0	21.85	21.88	21.72	
5	QPSK	12	7	21.77	21.87	21.77	23
5	QPSK	12	13	21.83	21.86	21.84	
5	QPSK	25	0	21.78	21.84	21.79	
5	16QAM	1	0	21.87	22.17	21.86	23
5	16QAM	1	12	21.99	22.18	22.04	
5	16QAM	1	24	21.85	22.19	21.99	
5	16QAM	12	0	20.91	21.28	20.93	22
5	16QAM	12	7	21.32	21.23	20.90	
5	16QAM	12	13	20.97	21.25	21.24	
5	16QAM	25	0	21.12	21.27	20.92	22
5	64QAM	1	0	21.19	21.19	21.38	
5	64QAM	1	12	21.23	21.16	21.28	
5	64QAM	1	24	21.38	21.25	21.40	21
5	64QAM	12	0	20.27	20.58	20.29	
5	64QAM	12	7	20.38	20.43	20.43	
5	64QAM	12	13	20.25	20.39	20.36	21
5	64QAM	25	0	20.61	20.49	20.14	
Channel				26705	26865	27025	
Frequency (MHz)				815.5	831.5	847.5	24
3	QPSK	1	0	22.65	22.82	22.73	
3	QPSK	1	8	22.66	22.78	22.75	
3	QPSK	1	14	22.62	22.80	22.75	23
3	QPSK	8	0	21.86	21.90	21.73	
3	QPSK	8	4	21.78	21.89	21.78	
3	QPSK	8	7	21.84	21.88	21.85	23
3	QPSK	15	0	21.79	21.86	21.80	
3	16QAM	1	0	21.88	22.19	21.87	
3	16QAM	1	8	22.00	22.20	22.05	23
3	16QAM	1	14	21.86	22.21	22.00	
3	16QAM	8	0	20.92	21.30	20.94	
3	16QAM	8	4	21.33	21.25	20.91	22
3	16QAM	8	7	20.98	21.27	21.25	
3	16QAM	15	0	21.13	21.29	21.01	
3	64QAM	1	0	21.12	21.12	21.31	22
3	64QAM	1	8	21.16	21.09	21.21	
3	64QAM	1	14	21.31	21.18	21.33	
3	64QAM	8	0	20.20	20.51	20.22	21
3	64QAM	8	4	20.31	20.36	20.36	
3	64QAM	8	7	20.18	20.32	20.29	
3	64QAM	15	0	20.54	20.42	20.07	
Channel				26697	26865	27033	24
Frequency (MHz)				814.7	831.5	848.3	
1.4	QPSK	1	0	22.66	22.77	22.74	
1.4	QPSK	1	3	22.63	22.73	22.72	24
1.4	QPSK	1	5	22.59	22.75	22.72	
1.4	QPSK	3	0	21.83	21.85	21.70	
1.4	QPSK	3	1	21.75	21.84	21.75	23
1.4	QPSK	3	3	21.81	21.83	21.82	
1.4	QPSK	6	0	21.76	21.81	21.77	
1.4	16QAM	1	0	21.85	22.14	21.84	23
1.4	16QAM	1	3	21.97	22.15	22.02	

1.4	16QAM	1	5	21.83	22.16	21.97	23
1.4	16QAM	3	0	20.89	21.25	20.91	
1.4	16QAM	3	1	21.30	21.20	20.88	
1.4	16QAM	3	3	20.95	21.22	21.22	
1.4	16QAM	6	0	21.10	21.24	20.90	
1.4	64QAM	1	0	21.36	21.36	21.55	22
1.4	64QAM	1	3	21.40	21.33	21.45	
1.4	64QAM	1	5	21.55	21.42	21.57	
1.4	64QAM	3	0	20.44	20.75	20.46	
1.4	64QAM	3	1	20.55	20.60	20.60	
1.4	64QAM	3	3	20.42	20.56	20.53	21
1.4	64QAM	6	0	20.78	20.66	20.31	

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	22.93	22.97	22.90	24
20	QPSK	1	49	22.81	22.90	22.93	
20	QPSK	1	99	22.83	22.85	22.81	
20	QPSK	50	0	21.86	21.95	21.93	23
20	QPSK	50	24	21.92	21.90	21.94	
20	QPSK	50	50	21.93	21.89	21.95	
20	QPSK	100	0	21.86	21.90	21.90	23
20	16QAM	1	0	21.87	22.07	22.10	
20	16QAM	1	49	21.96	22.18	22.17	
20	16QAM	1	99	21.77	22.07	22.21	22
20	16QAM	50	0	20.99	21.18	21.30	
20	16QAM	50	24	21.07	21.12	21.34	
20	16QAM	50	50	21.06	21.14	21.17	22
20	16QAM	100	0	21.01	21.13	21.29	
20	64QAM	1	0	21.28	21.16	21.32	
20	64QAM	1	49	21.11	21.14	21.06	22
20	64QAM	1	99	21.06	21.32	21.28	
20	64QAM	50	0	20.21	20.35	20.27	
20	64QAM	50	24	20.13	20.27	20.17	21
20	64QAM	50	50	20.20	20.21	20.12	
20	64QAM	100	0	20.00	20.02	20.34	
Channel				132047	132322	132597	
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	22.84	22.93	22.87	24
15	QPSK	1	37	22.72	22.90	22.86	
15	QPSK	1	74	22.74	22.82	22.74	
15	QPSK	36	0	21.77	21.84	21.98	23
15	QPSK	36	20	21.83	22.00	22.07	
15	QPSK	36	39	21.84	21.86	21.88	
15	QPSK	75	0	21.77	21.87	22.02	23
15	16QAM	1	0	21.78	22.04	22.03	
15	16QAM	1	37	21.87	22.15	22.10	
15	16QAM	1	74	21.68	22.04	22.14	22
15	16QAM	36	0	21.00	21.15	21.23	
15	16QAM	36	20	21.08	21.09	21.27	
15	16QAM	36	39	21.07	21.11	21.10	22
15	16QAM	75	0	21.02	21.10	21.22	
15	64QAM	1	0	21.23	21.11	21.27	
15	64QAM	1	37	21.06	21.09	21.01	22
15	64QAM	1	74	21.01	21.27	21.23	
15	64QAM	36	0	20.16	20.30	20.22	
15	64QAM	36	20	20.08	20.22	20.12	21
15	64QAM	36	39	20.15	20.16	20.07	
15	64QAM	75	0	19.95	19.97	20.29	
Channel				132022	132322	132622	
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	22.88	22.86	22.84	24
10	QPSK	1	25	22.70	22.85	22.87	
10	QPSK	1	49	22.72	22.80	22.75	
10	QPSK	25	0	21.75	21.82	21.97	23
10	QPSK	25	12	21.81	21.98	22.08	
10	QPSK	25	25	21.82	21.84	21.89	
10	QPSK	50	0	21.75	21.85	22.03	23
10	16QAM	1	0	21.76	22.02	22.04	
10	16QAM	1	25	21.85	22.13	22.11	
10	16QAM	1	49	21.66	22.02	22.15	22
10	16QAM	25	0	20.98	21.13	21.24	
10	16QAM	25	12	21.06	21.07	21.28	
10	16QAM	25	25	21.05	21.09	21.11	22
10	16QAM	50	0	21.00	21.08	21.23	
10	64QAM	1	0	21.25	21.13	21.29	
10	64QAM	1	25	21.08	21.11	21.03	22
10	64QAM	1	49	21.03	21.29	21.25	
10	64QAM	25	0	20.18	20.32	20.24	
10	64QAM	25	12	20.10	20.24	20.14	21
10	64QAM	25	25	20.17	20.18	20.09	
10	64QAM	50	0	19.97	19.99	20.31	
Channel				131997	132322	132647	
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	22.80	22.84	22.82	24
5	QPSK	1	12	22.68	22.82	22.89	
5	QPSK	1	24	22.70	22.77	22.77	
5	QPSK	12	0	21.73	21.79	21.99	23
5	QPSK	12	7	21.79	21.95	22.10	
5	QPSK	12	13	21.80	21.81	21.91	
5	QPSK	25	0	21.73	21.82	22.05	23
5	16QAM	1	0	21.74	21.99	22.06	
5	16QAM	1	12	21.83	22.01	22.03	
5	16QAM	1	24	21.64	21.99	22.07	22
5	16QAM	12	0	20.86	21.10	21.26	
5	16QAM	12	7	20.94	21.04	21.30	
5	16QAM	12	13	20.93	21.06	21.13	22
5	16QAM	25	0	20.88	21.05	21.25	
5	64QAM	1	0	21.20	21.08	21.24	
5	64QAM	1	12	21.03	21.06	20.98	22
5	64QAM	1	24	20.98	21.24	21.20	
5	64QAM	12	0	20.13	20.27	20.19	
5	64QAM	12	7	20.05	20.19	20.09	21
5	64QAM	12	13	20.12	20.13	20.04	
5	64QAM	25	0	19.92	19.94	20.26	
Channel				131997	132322	132657	
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	22.79	22.86	22.76	24
3	QPSK	1	8	22.67	22.79	22.79	
3	QPSK	1	14	22.69	22.74	22.67	
3	QPSK	8	0	21.72	21.76	21.89	23
3	QPSK	8	4	21.78	21.92	22.00	
3	QPSK	8	7	21.79	21.78	21.81	
3	QPSK	15	0	21.72	21.79	21.95	23
3	16QAM	1	0	21.73	21.96	21.96	
3	16QAM	1	8	21.82	22.07	22.03	

3	16QAM	1	14	21.63	21.96	22.07	
3	16QAM	8	0	20.85	21.07	21.16	
3	16QAM	8	4	20.93	21.01	21.20	22
3	16QAM	8	7	20.92	21.03	21.03	
3	16QAM	15	0	20.87	21.02	21.15	
3	64QAM	1	0	21.24	21.12	21.28	
3	64QAM	1	8	21.07	21.10	21.02	22
3	64QAM	1	14	21.02	21.28	21.24	
3	64QAM	8	0	20.17	20.31	20.23	21
3	64QAM	8	4	20.09	20.23	20.13	
3	64QAM	8	7	20.16	20.17	20.08	
3	64QAM	15	0	19.96	19.98	20.30	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	22.77	22.90	22.74	24
1.4	QPSK	1	3	22.65	22.83	22.77	
1.4	QPSK	1	5	22.67	22.78	22.65	
1.4	QPSK	3	0	21.70	21.80	21.87	
1.4	QPSK	3	1	21.76	21.96	21.98	
1.4	QPSK	3	3	21.77	21.82	21.79	
1.4	QPSK	6	0	21.70	21.83	21.93	23
1.4	16QAM	1	0	21.71	22.00	21.94	
1.4	16QAM	1	3	21.80	22.11	22.01	23
1.4	16QAM	1	5	21.61	22.00	22.05	
1.4	16QAM	3	0	21.03	21.11	21.14	
1.4	16QAM	3	1	21.01	21.05	21.18	
1.4	16QAM	3	3	21.00	21.07	21.01	22
1.4	16QAM	6	0	20.85	21.06	21.13	
1.4	64QAM	1	0	21.32	21.20	21.36	22
1.4	64QAM	1	3	21.15	21.18	21.10	
1.4	64QAM	1	5	21.10	21.36	21.32	
1.4	64QAM	3	0	20.25	20.39	20.31	
1.4	64QAM	3	1	20.17	20.31	20.21	
1.4	64QAM	3	3	20.24	20.25	20.16	
1.4	64QAM	6	0	20.04	20.06	20.38	21

Band 38(only on channel required)

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	22.60	22.64	22.63	24
20	QPSK	1	49	22.51	22.53	22.56	
20	QPSK	1	99	22.48	22.45	22.57	
20	QPSK	50	0	21.65	21.70	21.66	23
20	QPSK	50	24	21.62	21.51	21.55	
20	QPSK	50	50	21.67	21.62	21.59	
20	QPSK	100	0	21.56	21.64	21.64	23
20	16QAM	1	0	21.52	21.76	21.81	
20	16QAM	1	49	21.55	21.83	21.79	
20	16QAM	1	99	21.47	21.71	21.76	22
20	16QAM	50	0	20.86	20.81	20.61	
20	16QAM	50	24	20.78	20.77	20.72	
20	16QAM	50	50	20.77	20.78	20.66	22
20	16QAM	100	0	20.65	20.73	20.69	
20	64QAM	1	0	20.68	20.52	20.50	
20	64QAM	1	49	20.62	20.72	20.63	22
20	64QAM	1	99	20.64	20.68	20.60	
20	64QAM	50	0	19.97	20.27	20.05	
20	64QAM	50	24	20.06	20.24	20.21	21
20	64QAM	50	50	20.19	20.32	20.13	
20	64QAM	100	0	19.93	20.07	19.96	
Channel				37825	20.19	38175	
Frequency (MHz)				2577.5	2595	2612.5	
15	QPSK	1	0	22.52	22.58	22.50	24
15	QPSK	1	37	22.43	22.47	22.43	
15	QPSK	1	74	22.38	22.39	22.44	
15	QPSK	36	0	21.57	21.60	21.57	23
15	QPSK	36	20	21.54	21.45	21.42	
15	QPSK	36	39	21.59	21.56	21.46	
15	QPSK	75	0	21.48	21.58	21.51	23
15	16QAM	1	0	21.44	21.70	21.68	
15	16QAM	1	37	21.47	21.77	21.66	
15	16QAM	1	74	21.39	21.65	21.63	22
15	16QAM	36	0	20.78	20.75	20.48	
15	16QAM	36	20	20.70	20.71	20.59	
15	16QAM	36	39	20.69	20.72	20.53	22
15	16QAM	75	0	20.57	20.67	20.56	
15	64QAM	1	0	20.60	20.44	20.42	
15	64QAM	1	37	20.54	20.64	20.55	22
15	64QAM	1	74	20.56	20.60	20.52	
15	64QAM	36	0	19.89	20.19	19.97	
15	64QAM	36	20	19.98	20.16	20.13	21
15	64QAM	36	39	20.11	20.24	20.05	
15	64QAM	75	0	19.85	19.99	19.88	
Channel				37800	38000	38200	
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	22.48	22.60	22.54	24
10	QPSK	1	25	22.49	22.58	22.57	
10	QPSK	1	49	22.54	22.50	22.48	
10	QPSK	25	0	21.53	21.61	21.61	23
10	QPSK	25	12	21.50	21.46	21.46	
10	QPSK	25	25	21.55	21.57	21.50	
10	QPSK	50	0	21.44	21.59	21.55	23
10	16QAM	1	0	21.40	21.71	21.72	
10	16QAM	1	25	21.43	21.78	21.70	
10	16QAM	1	49	21.35	21.66	21.67	22
10	16QAM	25	0	20.74	20.76	20.52	
10	16QAM	25	12	20.66	20.72	20.63	
10	16QAM	25	25	20.65	20.73	20.57	22
10	16QAM	50	0	20.53	20.68	20.60	
10	64QAM	1	0	20.64	20.48	20.46	
10	64QAM	1	25	20.58	20.68	20.59	22
10	64QAM	1	49	20.60	20.64	20.56	
10	64QAM	25	0	19.93	20.23	20.01	
10	64QAM	25	12	20.02	20.20	20.17	21
10	64QAM	25	25	20.15	20.28	20.09	
10	64QAM	50	0	19.89	20.03	19.92	
Channel				37775	38000	38225	
Frequency (MHz)				2572.5	2595	2617.5	
5	QPSK	1	0	22.55	22.59	22.58	24
5	QPSK	1	12	22.48	22.50	22.51	
5	QPSK	1	24	22.41	22.42	22.52	
5	QPSK	12	0	21.60	21.63	21.65	23
5	QPSK	12	7	21.57	21.48	21.50	
5	QPSK	12	13	21.62	21.59	21.54	
5	QPSK	25	0	21.51	21.61	21.59	23
5	16QAM	1	0	21.47	21.73	21.76	
5	16QAM	1	12	21.50	21.80	21.74	
5	16QAM	1	24	21.42	21.68	21.71	22
5	16QAM	12	0	20.81	20.78	20.56	
5	16QAM	12	7	20.73	20.74	20.67	
5	16QAM	12	13	20.72	20.75	20.61	22
5	16QAM	25	0	20.60	20.70	20.64	
5	64QAM	1	0	20.59	20.43	20.41	
5	64QAM	1	12	20.53	20.63	20.54	22
5	64QAM	1	24	20.55	20.59	20.51	
5	64QAM	12	0	19.88	20.18	19.96	
5	64QAM	12	7	19.97	20.15	20.12	21
5	64QAM	12	13	20.10	20.23	20.04	
5	64QAM	25	0	19.84	19.98	19.87	

Band 40 (2.3G Band-1)

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	22.67	22.67	22.67	24
10	QPSK	1	25	22.51	22.51	22.51	
10	QPSK	1	49	22.34	22.34	22.34	
10	QPSK	25	0	21.63	21.63	21.63	23
10	QPSK	25	12	21.68	21.68	21.68	
10	QPSK	25	25	21.49	21.49	21.49	
10	QPSK	50	0	21.68	21.68	21.68	23
10	16QAM	1	0	21.59	21.59	21.59	
10	16QAM	1	25	21.43	21.43	21.43	
10	16QAM	1	49	21.35	21.35	21.35	22
10	16QAM	25	0	20.85	20.85	20.85	
10	16QAM	25	12	20.75	20.75	20.75	
10	16QAM	25	25	20.78	20.78	20.78	22
10	16QAM	50	0	20.83	20.83	20.83	
10	64QAM	1	0	20.46	20.46	20.46	
10	64QAM	1	25	20.25	20.25	20.25	22
10	64QAM	1	49	20.21	20.21	20.21	
10	64QAM	25	0	19.85	19.85	19.85	
10	64QAM	25	12	19.72	19.72	19.72	21
10	64QAM	25	25	19.70	19.70	19.70	
10	64QAM	50	0	19.82	19.82	19.82	
Channel				38725	38750	38775	
Frequency (MHz)				2307.5	2310	2312.5	
5	QPSK	1	0	22.51	22.38	22.50	24
5	QPSK	1	12	22.37	22.18	22.49	
5	QPSK	1	24	22.35	22.01	22.43	
5	QPSK	12	0	21.46	21.30	21.38	23
5	QPSK	12	7	21.22	21.35	21.43	
5	QPSK	12	13	21.16	21.16	21.37	
5	QPSK	25	0	21.30	21.35	21.46	23
5	16QAM	1	0	21.27	21.26	21.30	
5	16QAM	1	12	21.10	21.10	21.12	
5	16QAM	1	24	20.91	21.02	21.05	22
5	16QAM	12	0	20.66	20.52	20.73	
5	16QAM	12	7	20.53	20.42	20.68	
5	16QAM	12	13	20.46	20.45	20.74	22
5	16QAM	25	0	20.57	20.50	20.59	
5	64QAM	1	0	20.46	20.42	20.40	
5	64QAM	1	12	20.17	20.21	20.19	22
5	64QAM	1	24	20.13	20.17	20.15	
5	64QAM	12	0	19.77	19.81	19.79	
5	64QAM	12	7	19.64	19.68	19.66	21
5	64QAM	12	13	19.62	19.66	19.64	
5	64QAM	25	0	19.74	19.78	19.76	

Band 40 (2.3G Band-2)
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	22.61			24
10	QPSK	1	25	22.57			
10	QPSK	1	49	22.52			
10	QPSK	25	0	21.85			23
10	QPSK	25	12	21.70			
10	QPSK	25	25	21.64			
10	QPSK	50	0	21.70			23
10	16QAM	1	0	21.57			
10	16QAM	1	25	21.39			
10	16QAM	1	49	21.32			22
10	16QAM	25	0	21.00			
10	16QAM	25	12	20.95			
10	16QAM	25	25	21.01			22
10	16QAM	50	0	20.86			
10	64QAM	1	0	20.69			
10	64QAM	1	25	20.60			22
10	64QAM	1	49	20.57			
10	64QAM	25	0	19.87			
10	64QAM	25	12	19.75			21
10	64QAM	25	25	19.69			
10	64QAM	50	0	19.74			
Channel				39175	39200	39225	Tune-up limit (dBm)
Frequency (MHz)				2352.5	2355	2357.5	
5	QPSK	1	0	22.52	22.55	22.53	24
5	QPSK	1	12	22.52	22.45	22.49	
5	QPSK	1	24	22.50	22.28	22.51	
5	QPSK	12	0	21.61	21.57	21.50	23
5	QPSK	12	7	21.37	21.62	21.66	
5	QPSK	12	13	21.31	21.43	21.60	
5	QPSK	25	0	21.45	21.62	21.69	23
5	16QAM	1	0	21.42	21.53	21.53	
5	16QAM	1	12	21.25	21.37	21.35	
5	16QAM	1	24	21.06	21.29	21.28	22
5	16QAM	12	0	20.81	20.79	20.96	
5	16QAM	12	7	20.68	20.69	20.91	
5	16QAM	12	13	20.61	20.72	20.97	22
5	16QAM	25	0	20.72	20.77	20.82	
5	64QAM	1	0	20.64	20.66	20.62	
5	64QAM	1	12	20.55	20.57	20.53	22
5	64QAM	1	24	20.52	20.54	20.50	
5	64QAM	12	0	19.82	19.84	19.80	
5	64QAM	12	7	19.70	19.72	19.68	21
5	64QAM	12	13	19.64	19.66	19.62	
5	64QAM	25	0	19.69	19.71	19.67	

Band 41 (2535~2655MHz)

BW [MHz]	Modulation	RB Size	RB Offset	Low channel	Middle Low Channel	Middle Channel	Middle High Channel	High Channel	Tune-up limit (dBm)
Channel				40140	40390	40640	40890	41140	
Frequency (MHz)				2545	2570	2595	2620	2645	
20	QPSK	1	0	22.86	22.98	23.06	22.97	22.83	24
20	QPSK	1	49	22.85	22.63	22.72	22.92	22.64	
20	QPSK	1	99	22.79	22.95	22.60	22.86	22.59	
20	QPSK	50	0	21.70	21.68	21.72	21.71	21.69	23
20	QPSK	50	24	21.56	21.59	21.68	21.65	21.56	
20	QPSK	50	50	21.53	21.58	21.68	21.64	21.41	
20	QPSK	100	0	21.59	21.68	21.58	21.68	21.66	23
20	16QAM	1	0	21.41	21.54	21.37	21.51	21.51	
20	16QAM	1	49	21.33	21.61	21.38	21.20	21.23	
20	16QAM	1	99	21.37	21.62	21.31	21.27	21.09	22
20	16QAM	50	0	20.96	20.89	20.85	20.92	20.84	
20	16QAM	50	24	20.92	20.83	20.79	20.87	20.89	
20	16QAM	50	50	20.87	20.82	20.81	21.03	20.86	22
20	16QAM	100	0	20.92	20.91	20.76	20.87	20.78	
20	64QAM	1	0	20.51	20.53	20.79	20.46	20.59	
20	64QAM	1	49	20.53	20.60	20.67	20.52	20.56	22
20	64QAM	1	99	20.64	20.52	20.71	20.51	20.53	
20	64QAM	50	0	19.71	19.77	19.86	19.70	19.58	
20	64QAM	50	24	19.84	19.70	19.78	19.83	19.70	21
20	64QAM	50	50	19.70	19.50	19.83	19.84	19.82	
20	64QAM	100	0	19.68	19.67	19.91	19.71	19.56	
Channel				40115	40378	40640	40903	41165	
Frequency (MHz)				2542.5	2568.8	2595	2621.3	2647.5	
15	QPSK	1	0	22.82	22.90	22.98	22.93	22.76	24
15	QPSK	1	37	22.53	22.55	22.68	22.85	22.57	
15	QPSK	1	74	22.75	22.87	22.56	22.79	22.52	
15	QPSK	36	0	21.54	21.60	21.68	21.64	21.62	23
15	QPSK	36	20	21.63	21.51	21.62	21.58	21.49	
15	QPSK	36	39	21.54	21.50	21.64	21.57	21.34	
15	QPSK	75	0	21.55	21.60	21.54	21.61	21.59	23
15	16QAM	1	0	21.33	21.46	21.33	21.44	21.44	
15	16QAM	1	37	21.25	21.53	21.34	21.13	21.16	
15	16QAM	1	74	21.29	21.54	21.27	21.20	21.02	22
15	16QAM	36	0	20.88	20.81	20.81	20.85	20.77	
15	16QAM	36	20	20.84	20.75	20.75	20.80	20.82	
15	16QAM	36	39	20.79	20.74	20.77	20.96	20.79	22
15	16QAM	75	0	20.84	20.83	20.72	20.80	20.71	
15	64QAM	1	0	20.45	20.47	20.73	20.40	20.53	
15	64QAM	1	37	20.47	20.54	20.61	20.46	20.50	22
15	64QAM	1	74	20.58	20.46	20.65	20.45	20.47	
15	64QAM	36	0	19.65	19.71	19.80	19.64	19.52	
15	64QAM	36	20	19.78	19.64	19.72	19.77	19.64	21
15	64QAM	36	39	19.64	19.44	19.77	19.78	19.76	
15	64QAM	75	0	19.62	19.61	19.85	19.65	19.50	
Channel				40090	40365	40640	40915	41190	
Frequency (MHz)				2540	2567.5	2595	2622.5	2650	
10	QPSK	1	0	22.59	22.69	22.83	22.68	22.54	24
10	QPSK	1	25	22.64	22.54	22.67	22.83	22.53	
10	QPSK	1	49	22.72	22.80	22.55	22.77	22.48	
10	QPSK	25	0	21.68	21.59	21.67	21.62	21.58	23
10	QPSK	25	12	21.71	21.50	21.61	21.56	21.45	
10	QPSK	25	25	21.46	21.49	21.63	21.55	21.30	
10	QPSK	50	0	21.53	21.59	21.53	21.59	21.55	23
10	16QAM	1	0	21.55	21.45	21.32	21.42	21.40	
10	16QAM	1	25	21.34	21.52	21.33	21.11	21.12	
10	16QAM	1	49	21.44	21.53	21.28	21.18	20.98	22
10	16QAM	25	0	20.85	20.80	20.80	20.83	20.73	
10	16QAM	25	12	20.81	20.74	20.74	20.78	20.78	
10	16QAM	25	25	20.76	20.73	20.76	20.94	20.75	22
10	16QAM	50	0	20.81	20.82	20.71	20.78	20.67	
10	64QAM	1	0	20.47	20.49	20.75	20.42	20.55	
10	64QAM	1	25	20.49	20.56	20.63	20.48	20.52	21
10	64QAM	1	49	20.60	20.48	20.67	20.47	20.49	
10	64QAM	25	0	19.67	19.73	19.82	19.66	19.54	
10	64QAM	25	12	19.80	19.66	19.74	19.79	19.66	21
10	64QAM	25	25	19.66	19.46	19.79	19.80	19.78	
10	64QAM	50	0	19.64	19.63	19.87	19.67	19.52	
Channel				40065	40353	40640	40928	41215	
Frequency (MHz)				2537.5	2566.3	2595	2623.80	2652.5	
5	QPSK	1	0	22.69	22.62	22.91	22.73	22.62	24
5	QPSK	1	12	22.75	22.57	22.62	22.61	22.64	
5	QPSK	1	24	22.71	22.80	22.57	22.80	22.47	
5	QPSK	12	0	21.56	21.62	21.69	21.65	21.57	23
5	QPSK	12	7	21.49	21.53	21.63	21.59	21.44	
5	QPSK	12	13	21.50	21.52	21.65	21.58	21.29	
5	QPSK	25	0	21.47	21.62	21.55	21.62	21.54	23
5	16QAM	1	0	21.29	21.48	21.34	21.45	21.39	
5	16QAM	1	12	21.21	21.55	21.35	21.14	21.11	
5	16QAM	1	24	21.25	21.56	21.28	21.21	20.97	22
5	16QAM	12	0	20.84	20.83	20.82	20.86	20.72	
5	16QAM	12	7	20.80	20.77	20.76	20.81	20.77	
5	16QAM	12	13	20.75	20.76	20.78	20.97	20.74	22
5	16QAM	25	0	20.80	20.85	20.73	20.81	20.66	
5	64QAM	1	0	20.42	20.44	20.70	20.37	20.50	
5	64QAM	1	12	20.44	20.51	20.58	20.43	20.47	22
5	64QAM	1	24	20.55	20.43	20.62	20.42	20.44	
5	64QAM	12	0	19.62	19.68	19.77	19.61	19.49	
5	64QAM	12	7	19.75	19.61	19.69	19.74	19.61	21
5	64QAM	12	13	19.61	19.41	19.74	19.75	19.73	
5	64QAM	25	0	19.59	19.58	19.82	19.62	19.47	

	Mode	Channel	Frequency (MHz)	Average power (dBm)		Tune-Up Limit	Power Setting	Duty Cycle %
				1Mbps	2Mbps			
2.4GHz WLAN	802.11b 1Mbps	CH 1	2412	18.55	20.00	18.00	99.28	
		CH 6	2437	19.51	21.00	18.00		
		CH 11	2462	19.22	21.00	18.00		
	802.11g 6Mbps	CH 1	2412	14.40	16.00	15.00	95.80	
		CH 6	2437	16.34	18.00	16.00		
		CH 11	2462	9.73	11.00	9.00		
	802.11n-HT20 MCS0	CH 1	2412	10.10	12.00	10.00	95.04	
		CH 6	2437	16.55	18.00	16.00		
		CH 11	2462	8.77	10.00	8.00		
	802.11n-HT40 MCS0	CH 3	2422	12.83	14.00	12.00	87.50	
		CH 6	2437	16.33	18.00	16.00		
		CH 9	2452	8.70	10.00	9.00		

	Mode	Channel	Frequency (MHz)	Average power (dBm)		Tune-Up Limit	Power Setting	Duty Cycle %
				1Mbps	2Mbps			
5.2GHz WLAN	802.11a 6Mbps	CH 36	5180	15.96	17.00	16.00	95.10	
		CH 44	5220	16.48	18.00	16.00		
		CH 48	5240	15.97	17.00	16.00		
	802.11n-HT20 MCS0	CH 36	5180	15.81	17.00	16.00	94.26	
		CH 44	5220	16.15	18.00	16.00		
		CH 48	5240	16.15	18.00	16.00		
	802.11n-HT40 MCS0	CH 38	5190	15.18	17.00	16.00	86.15	
		CH 46	5230	15.13	17.00	16.00		
		CH 38	5180	14.51	16.00	16.00		
	802.11ac-VHT20 MCS0	CH 44	5220	15.13	17.00	16.00	93.50	
		CH 48	5240	15.37	17.00	16.00		
		CH 38	5190	14.82	16.00	16.00		
802.11ac-VHT40 MCS0	CH 46	5230	15.08	17.00	16.00	84.85		
	CH 42	5210	14.59	16.00	16.00	71.43		

	Mode	Channel	Frequency (MHz)	Average power (dBm)		Tune-Up Limit	Power Setting	Duty Cycle %
				1Mbps	2Mbps			
5.3GHz WLAN	802.11a 6Mbps	CH 52	5280	16.14	18.00	16.00	95.10	
		CH 60	5300	15.61	17.00	16.00		
		CH 64	5320	16.22	18.00	16.00		
	802.11n-HT20 MCS0	CH 52	5280	16.30	18.00	16.00	94.26	
		CH 60	5300	16.30	18.00	16.00		
		CH 64	5320	16.59	18.00	16.00		
	802.11n-HT40 MCS0	CH 54	5270	14.84	16.00	16.00	86.15	
		CH 62	5310	15.40	17.00	16.00		
		CH 52	5280	15.58	17.00	16.00		
	802.11ac-VHT20 MCS0	CH 60	5300	15.33	17.00	16.00	93.50	
		CH 64	5320	16.29	18.00	16.00		
		CH 54	5270	15.02	17.00	16.00		
802.11ac-VHT40 MCS0	CH 62	5310	15.58	17.00	16.00	84.85		
	CH 58	5290	15.08	17.00	16.00	71.43		

	Mode	Channel	Frequency (MHz)	Average power (dBm)		Tune-Up Limit	Power Setting	Duty Cycle %
				1Mbps	2Mbps			
5.5GHz WLAN	802.11a 6Mbps	CH 100	5500	16.18	18.00	16.00	95.10	
		CH 120	5600	16.38	18.00	16.00		
		CH 144	5720	15.08	17.00	16.00		
	802.11n-HT20 MCS0	CH 100	5500	16.32	18.00	16.00	94.26	
		CH 120	5600	16.42	18.00	16.00		
		CH 144	5720	15.21	17.00	16.00		
	802.11n-HT40 MCS0	CH 102	5510	16.21	18.00	16.00	86.15	
		CH 126	5630	15.10	17.00	16.00		
		CH 142	5710	14.58	16.00	16.00		
	802.11ac-VHT20 MCS0	CH 100	5500	16.40	18.00	16.00	93.50	
		CH 120	5600	16.45	18.00	16.00		
		CH 140	5700	15.18	17.00	16.00		
	802.11ac-VHT40 MCS0	CH 102	5510	16.10	18.00	16.00	84.85	
		CH 126	5630	15.08	17.00	16.00		
		CH 142	5710	14.78	16.00	16.00		
	802.11ac-VHT80 MCS0	CH 106	5530	15.89	17.00	16.00	71.43	
		CH 122	5610	15.67	17.00	16.00		
		CH 138	5690	14.94	16.00	16.00		

	Mode	Channel	Frequency (MHz)	Average power (dBm)		Tune-Up Limit	Power Setting	Duty Cycle %
				1Mbps	2Mbps			
5.8GHz WLAN	802.11a MCS0	CH 149	5745	15.95	17.00	16.00	95.10	
		CH 157	5785	16.40	18.00	16.00		
		CH 165	5825	16.50	18.00	16.00		
	802.11n-HT20 MCS0	CH 149	5745	15.91	17.00	16.00	94.26	
		CH 157	5785	16.21	18.00	16.00		
		CH 165	5825	16.41	18.00	16.00		
	802.11n-HT40 MCS0	CH 151	5755	16.52	18.00	16.00	86.15	
		CH 159	5795	16.31	18.00	16.00		
		CH 149	5745	15.82	17.00	16.00		
	802.11ac-VHT20 MCS0	CH 157	5785	16.21	18.00	16.00	93.50	
		CH 165	5825	16.41	18.00	16.00		
		CH 151	5755	15.82	17.00	16.00		
802.11ac-VHT40 MCS0	CH 159	5795	15.78	17.00	16.00	84.85		
	CH 155	5775	16.12	17.00	16.00	71.43		

Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
BR / EDR	CH 00	2402	7.01	4.23	4.17
	CH 39	2441	7.38	5.02	5.04
	CH 78	2480	6.89	4.24	4.43
Tune-up Limit			9.0	7.0	7.0
Duty Cycle %			77.33	76.8	77.33
Power Setting			9.0	9.0	9.0

Mode	Channel	Frequency (MHz)	Average power (dBm)	
			GFSK	
LE	CH 00	2402	-1.91	-1.49
	CH 19	2440	-1.86	-1.55
	CH 39	2480	-1.71	-1.27
Tune-up Limit			1.0	1.0
Duty Cycle %			32	33.33

Reduced 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	26.62	26.67	26.68	27.50	17.62	17.67	17.68	18.50	0.08	
GPRS 1 Tx slot	26.66	26.70	26.69	27.50	17.66	17.70	17.69	18.50		
GPRS 2 Tx slots	24.60	24.63	24.61	25.50	18.60	18.63	18.61	19.50	0.03	
GPRS 3 Tx slots	22.71	22.72	22.69	23.50	18.45	18.46	18.43	19.24	0.03	
GPRS 4 Tx slots	20.65	20.68	20.64	21.50	17.65	17.68	17.64	18.50	0.04	
EDGE 1 Tx slot	20.70	20.88	20.73	22.00	11.70	11.88	11.73	13.00	0.18	
EDGE 2 Tx slots	18.48	18.65	18.43	20.00	12.48	12.65	12.43	14.00	0.22	
EDGE 3 Tx slots	16.25	16.50	16.28	18.00	11.99	12.24	12.02	13.74	0.25	
EDGE 4 Tx slots	14.41	14.43	14.40	16.00	11.41	11.43	11.40	13.00	0.03	
Mode		Max.	26.70		Max.	18.63				
Attenuator	Cable Loss : 0.6									
Date	2022.2.11									

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	18.32	18.36	18.15	19.50	9.32	9.36	9.15	10.50	0.21	
GPRS 1 Tx slot	18.30	18.35	18.34	19.50	9.30	9.35	9.34	10.50		
GPRS 2 Tx slots	16.52	16.90	16.89	17.50	10.52	10.90	10.89	11.50	0.38	
GPRS 3 Tx slots	15.00	15.12	15.08	16.00	10.74	10.86	10.82	11.74	0.12	
GPRS 4 Tx slots	12.45	12.82	12.95	13.50	9.45	9.82	9.95	10.50	0.50	
EDGE 1 Tx slot	15.01	14.98	14.93	16.00	6.01	5.98	5.93	7.00	0.08	
EDGE 2 Tx slots	13.48	13.47	13.12	14.00	7.48	7.47	7.12	8.00	0.36	
EDGE 3 Tx slots	10.92	11.15	11.06	12.00	6.66	6.89	6.80	7.74	0.23	
EDGE 4 Tx slots	9.11	9.26	9.19	10.00	6.11	6.26	6.19	7.00	0.15	
Mode		Max.	18.36		Max.	10.90				
Attenuator	Cable Loss : 0.8									
Date	2022.2.11									

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	10.93	10.94	10.90	12.00	10.81	10.84	10.82	12.00	18.86	18.89	18.88	20.00
3GPP Rel 6	HSDPA Subtest-1	10.05	10.06	10.16	11.00	10.12	10.34	10.31	11.00	18.48	18.43	18.62	19.00
3GPP Rel 6	HSDPA Subtest-2	10.10	10.18	10.19	11.00	10.16	10.54	10.31	11.00	18.46	18.17	18.59	19.00
3GPP Rel 6	HSDPA Subtest-3	9.58	9.65	9.69	11.00	9.72	10.09	9.92	11.00	18.17	17.67	17.80	18.50
3GPP Rel 6	HSDPA Subtest-4	9.63	9.70	9.74	11.00	9.71	10.08	9.90	11.00	18.19	17.72	17.84	18.50
3GPP Rel 8	DC-HSDPA Subtest-1	9.57	9.63	9.68	11.00	10.10	10.31	10.33	11.00	17.21	17.05	17.05	18.00
3GPP Rel 8	DC-HSDPA Subtest-2	9.60	9.66	9.78	11.00	10.09	10.35	10.33	11.00	17.29	17.11	17.11	18.00
3GPP Rel 8	DC-HSDPA Subtest-3	9.70	9.69	9.73	10.50	10.09	10.35	10.32	11.00	17.33	17.13	17.13	18.00
3GPP Rel 8	DC-HSDPA Subtest-4	9.69	9.70	9.74	10.50	10.07	10.34	10.32	11.00	17.35	17.16	17.14	18.00
3GPP Rel 6	HSUPA Subtest-1	9.69	9.75	10.08	10.50	10.01	10.46	10.32	11.00	17.73	17.63	17.56	18.00
3GPP Rel 6	HSUPA Subtest-2	9.71	9.64	10.03	11.00	10.00	10.43	10.30	11.00	17.67	17.58	17.52	18.00
3GPP Rel 6	HSUPA Subtest-3	9.91	9.97	10.09	11.00	10.13	10.40	10.24	11.00	17.75	17.60	17.55	18.00
3GPP Rel 6	HSUPA Subtest-4	9.61	9.64	10.00	11.00	10.05	10.40	10.30	11.00	17.62	17.52	17.47	18.00
3GPP Rel 6	HSUPA Subtest-5	9.89	9.76	10.07	11.00	10.18	10.39	10.26	11.00	17.72	17.57	17.53	18.00
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	9.73	9.77	9.86	10.50	9.92	10.44	10.37	11.00	18.01	17.74	17.72	18.50
Attenuator		Cable Loss	0.8			Cable Loss	0.8			Cable Loss	0.6		
Mode		Max.	10.94			Max.	10.84			Max.	18.89		
Date	2022.2.11				2022.2.11				2022.2.11				

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	8.41	8.66	8.46	9.5	
20	QPSK	1	49	8.38	8.63	8.42		
20	QPSK	1	99	8.28	8.62	8.36		
20	QPSK	50	0	7.54	7.67	7.54	8.5	
20	QPSK	50	24	7.53	7.46	7.55		
20	QPSK	50	50	7.47	7.62	7.52		
20	QPSK	100	0	7.59	7.56	7.66	8.5	
20	16QAM	1	0	7.95	7.55	7.95		
20	16QAM	1	49	8.03	7.70	7.99		
20	16QAM	1	99	7.91	7.86	7.94	7.5	
20	16QAM	50	0	6.60	6.82	6.74		
20	16QAM	50	24	6.62	6.76	6.75		
20	16QAM	50	50	6.59	6.71	6.60	7.5	
20	16QAM	100	0	6.67	6.78	6.70		
20	64QAM	1	0	6.58	6.65	6.86		
20	64QAM	1	49	6.77	6.78	6.63	7.5	
20	64QAM	1	99	6.55	6.53	6.54		
20	64QAM	50	0	5.83	5.66	5.75		
20	64QAM	50	24	5.85	5.78	5.80	6.5	
20	64QAM	50	50	5.69	5.69	5.85		
20	64QAM	100	0	5.67	5.71	5.65		
Channel				18675	18900	19125		
Frequency (MHz)				1857.5	1880	1902.5		
15	QPSK	1	0	8.38	8.60	8.38	9.5	
15	QPSK	1	37	8.35	8.59	8.34		
15	QPSK	1	74	8.25	8.53	8.28		
15	QPSK	36	0	7.53	7.48	7.48	8.5	
15	QPSK	36	20	7.50	7.42	7.47		
15	QPSK	36	39	7.44	7.58	7.44		
15	QPSK	75	0	7.56	7.52	7.58	8.5	
15	16QAM	1	0	7.92	7.51	7.87		
15	16QAM	1	37	8.00	7.66	7.91		
15	16QAM	1	74	7.88	7.82	7.86	7.5	
15	16QAM	36	0	6.57	6.78	6.66		
15	16QAM	36	20	6.59	6.72	6.67		
15	16QAM	36	39	6.56	6.67	6.52	7.5	
15	16QAM	75	0	6.64	6.74	6.62		
15	64QAM	1	0	6.55	6.62	6.83		
15	64QAM	1	37	6.74	6.75	6.60	7.5	
15	64QAM	1	74	6.52	6.50	6.51		
15	64QAM	36	0	5.80	5.63	5.72		
15	64QAM	36	20	5.82	5.75	5.77	6.5	
15	64QAM	36	39	5.66	5.66	5.82		
15	64QAM	75	0	5.64	5.68	5.62		
Channel				18650	18900	19150		
Frequency (MHz)				1855	1880	1905		
10	QPSK	1	0	8.39	8.58	8.41	9.5	
10	QPSK	1	25	8.33	8.53	8.37		
10	QPSK	1	49	8.23	8.56	8.31		
10	QPSK	25	0	7.51	7.46	7.49	8.5	
10	QPSK	25	12	7.48	7.40	7.50		
10	QPSK	25	25	7.42	7.56	7.47		
10	QPSK	50	0	7.54	7.50	7.63	8.5	
10	16QAM	1	0	7.90	7.49	7.90		
10	16QAM	1	25	7.98	7.64	7.94		
10	16QAM	1	49	7.86	7.80	7.89	7.5	
10	16QAM	25	0	6.55	6.76	6.69		
10	16QAM	25	12	6.57	6.70	6.70		
10	16QAM	25	25	6.54	6.65	6.55	7.5	
10	16QAM	50	0	6.62	6.72	6.65		
10	64QAM	1	0	6.53	6.60	6.81		
10	64QAM	1	25	6.72	6.73	6.58	7.5	
10	64QAM	1	49	6.50	6.48	6.49		
10	64QAM	25	0	5.78	5.61	5.70		
10	64QAM	25	12	5.80	5.73	5.75	6.5	
10	64QAM	25	25	5.64	5.64	5.80		
10	64QAM	50	0	5.62	5.66	5.60		
Channel				18625	18900	19175		
Frequency (MHz)				1852.5	1880	1907.5		
5	QPSK	1	0	8.25	8.53	8.37	9.5	
5	QPSK	1	12	8.29	8.50	8.33		
5	QPSK	1	24	8.19	8.48	8.27		
5	QPSK	12	0	7.47	7.42	7.45	8.5	
5	QPSK	12	7	7.44	7.38	7.46		
5	QPSK	12	13	7.38	7.56	7.43		
5	QPSK	25	0	7.50	7.48	7.57	8.5	
5	16QAM	1	0	7.88	7.47	7.88		
5	16QAM	1	12	7.94	7.62	7.90		
5	16QAM	1	24	7.82	7.78	7.85	7.5	
5	16QAM	12	0	6.51	6.74	6.65		
5	16QAM	12	7	6.53	6.68	6.66		
5	16QAM	12	13	6.50	6.63	6.51	7.5	
5	16QAM	25	0	6.58	6.70	6.61		
5	64QAM	1	0	6.51	6.58	6.79		
5	64QAM	1	12	6.70	6.71	6.56	7.5	
5	64QAM	1	24	6.48	6.46	6.47		
5	64QAM	12	0	5.76	5.59	5.68		
5	64QAM	12	7	5.78	5.71	5.73	6.5	
5	64QAM	12	13	5.82	5.82	5.78		
5	64QAM	25	0	5.60	5.64	5.58		
Channel				18615	18900	19185		
Frequency (MHz)				1851.5	1880	1908.5		
3	QPSK	1	0	8.30	8.54	8.35	9.5	
3	QPSK	1	8	8.27	8.52	8.31		
3	QPSK	1	14	8.17	8.49	8.25		
3	QPSK	8	0	7.45	7.39	7.43	8.5	
3	QPSK	8	4	7.42	7.33	7.44		
3	QPSK	8	7	7.38	7.49	7.43		
3	QPSK	15	0	7.48	7.45	7.55	8.5	
3	16QAM	1	0	7.84	7.42	7.84		

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	6.81	6.83	6.76	8	
20	QPSK	1	49	6.79	6.69	6.79		
20	QPSK	1	99	6.77	6.82	6.72		
20	QPSK	50	0	5.90	5.93	5.87	7	
20	QPSK	50	24	5.75	5.83	5.91		
20	QPSK	50	50	5.82	5.76	5.80		
20	QPSK	100	0	5.88	5.81	5.83	7	
20	16QAM	1	0	5.74	5.98	6.21		
20	16QAM	1	49	5.75	6.02	6.09		
20	16QAM	1	99	5.73	5.99	6.10	6	
20	16QAM	50	0	5.07	5.02	5.15		
20	16QAM	50	24	5.02	5.11	5.12		
20	16QAM	50	50	5.10	5.08	5.10	6.5	
20	16QAM	100	0	4.93	5.05	5.14		
20	64QAM	1	0	5.31	5.52	5.16		
20	64QAM	1	49	5.26	5.36	5.39	5.5	
20	64QAM	1	99	5.40	5.25	5.29		
20	64QAM	50	0	4.48	4.29	4.43		
20	64QAM	50	24	4.59	4.30	4.47	6.5	
20	64QAM	50	50	4.41	4.35	4.28		
20	64QAM	100	0	4.22	4.34	4.33		
Channel				20025	20175	20325		
Frequency (MHz)				1717.5	1732.5	1747.5		
15	QPSK	1	0	6.69	6.72	6.68	8	
15	QPSK	1	37	6.68	6.61	6.71		
15	QPSK	1	74	6.66	6.68	6.69		
15	QPSK	36	0	5.79	5.75	5.84	7	
15	QPSK	36	20	5.64	5.85	5.68		
15	QPSK	36	39	5.71	5.68	5.77		
15	QPSK	75	0	5.77	5.73	5.80	7	
15	16QAM	1	0	5.63	5.90	6.08		
15	16QAM	1	37	5.64	5.94	6.06		
15	16QAM	1	74	5.62	5.91	6.07	6	
15	16QAM	36	0	4.99	4.91	5.07		
15	16QAM	36	20	4.94	5.00	5.04		
15	16QAM	36	39	5.02	4.97	5.02	6.5	
15	16QAM	75	0	4.85	4.94	5.06		
15	64QAM	1	0	5.24	5.45	5.09		
15	64QAM	1	37	5.19	5.29	5.32	7	
15	64QAM	1	74	5.33	5.18	5.22		
15	64QAM	36	0	4.41	4.22	4.36		
15	64QAM	36	20	4.52	4.23	4.40	5.5	
15	64QAM	36	39	4.34	4.28	4.21		
15	64QAM	75	0	4.15	4.27	4.26		
Channel				20000	20175	20350		
Frequency (MHz)				1715	1732.5	1750		
10	QPSK	1	0	6.69	6.71	6.64	8	
10	QPSK	1	25	6.67	6.57	6.67		
10	QPSK	1	49	6.65	6.70	6.60		
10	QPSK	25	0	5.83	5.78	5.80	7	
10	QPSK	25	12	5.68	5.88	5.84		
10	QPSK	25	25	5.75	5.71	5.73		
10	QPSK	50	0	5.81	5.76	5.76	7	
10	16QAM							

3	16QAM	1	8	7.92	7.57	7.88	8.5
3	16QAM	1	14	7.80	7.73	7.83	
3	16QAM	8	0	6.49	6.69	6.63	
3	16QAM	8	4	6.51	6.63	6.64	7.5
3	16QAM	8	7	6.48	6.58	6.49	
3	16QAM	15	0	6.56	6.65	6.59	
3	64QAM	1	0	6.49	6.56	6.77	7.5
3	64QAM	1	8	6.68	6.69	6.54	
3	64QAM	1	14	6.46	6.44	6.45	
3	64QAM	8	0	5.74	5.57	5.66	6.5
3	64QAM	8	4	5.76	5.69	5.71	
3	64QAM	8	7	5.60	5.60	5.76	
3	64QAM	15	0	5.58	5.62	5.56	
Channel				1607	1690	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	8.34	8.59	8.39	9.5
1.4	QPSK	1	3	8.31	8.58	8.35	
1.4	QPSK	1	5	8.21	8.55	8.29	
1.4	QPSK	3	0	7.58	7.56	7.58	
1.4	QPSK	3	1	7.59	7.52	7.59	
1.4	QPSK	3	3	7.51	7.66	7.56	
1.4	QPSK	6	0	7.52	7.49	7.59	8.5
1.4	16QAM	1	0	7.88	7.48	7.88	8.5
1.4	16QAM	1	3	7.98	7.63	7.92	
1.4	16QAM	1	5	7.84	7.79	7.89	
1.4	16QAM	3	0	6.53	6.75	6.67	
1.4	16QAM	3	1	6.55	6.69	6.68	
1.4	16QAM	3	3	6.52	6.64	6.53	
1.4	16QAM	6	0	6.69	6.80	6.72	7.5
1.4	64QAM	1	0	6.67	6.74	6.95	7.5
1.4	64QAM	1	3	6.86	6.87	6.72	
1.4	64QAM	1	5	6.64	6.62	6.63	
1.4	64QAM	3	0	5.92	5.75	5.84	
1.4	64QAM	3	1	5.94	5.87	5.89	
1.4	64QAM	3	3	5.78	5.78	5.94	
1.4	64QAM	6	0	5.76	5.80	5.74	6.5

3	16QAM	1	8	5.99	6.30	6.33	7
3	16QAM	1	14	5.97	6.27	6.34	
3	16QAM	8	0	5.01	5.00	5.09	
3	16QAM	8	4	4.98	5.09	5.06	6
3	16QAM	8	7	5.04	5.06	5.04	
3	16QAM	15	0	4.87	5.03	5.08	
3	64QAM	1	0	5.20	5.41	5.05	6.5
3	64QAM	1	8	5.15	5.25	5.28	
3	64QAM	1	14	5.29	5.14	5.18	
3	64QAM	8	0	4.37	4.18	4.32	5.5
3	64QAM	8	4	4.48	4.19	4.36	
3	64QAM	8	7	4.30	4.24	4.17	
3	64QAM	15	0	4.11	4.23	4.22	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	6.69	6.71	6.64	8
1.4	QPSK	1	3	6.67	6.57	6.67	
1.4	QPSK	1	5	6.65	6.70	6.60	
1.4	QPSK	3	0	5.78	5.71	5.75	
1.4	QPSK	3	1	5.63	5.61	5.79	
1.4	QPSK	3	3	5.70	5.64	5.68	
1.4	QPSK	6	0	5.76	5.69	5.71	7
1.4	16QAM	1	0	5.92	6.16	6.39	7
1.4	16QAM	1	3	5.93	6.20	6.27	
1.4	16QAM	1	5	5.91	6.17	6.28	
1.4	16QAM	3	0	4.95	4.90	5.03	
1.4	16QAM	3	1	4.90	4.99	5.00	
1.4	16QAM	3	3	4.98	4.96	4.98	
1.4	16QAM	6	0	4.88	5.00	5.09	6
1.4	64QAM	1	0	5.18	5.39	5.03	6.5
1.4	64QAM	1	3	5.13	5.23	5.26	
1.4	64QAM	1	5	5.27	5.12	5.16	
1.4	64QAM	3	0	4.35	4.16	4.30	
1.4	64QAM	3	1	4.46	4.17	4.34	
1.4	64QAM	3	3	4.28	4.22	4.15	
1.4	64QAM	6	0	4.09	4.21	4.20	5.5

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	
Frequency (MHz)				704	707.5	711	
10	QPSK	1	0	19.42	19.44	19.37	20.5
10	QPSK	1	25	19.37	19.31	19.33	
10	QPSK	1	49	19.38	19.35	19.36	
10	QPSK	25	0	18.51	18.64	18.58	19.5
10	QPSK	25	12	18.56	18.44	18.43	
10	QPSK	25	25	18.57	18.60	18.61	
10	QPSK	50	0	18.63	18.53	18.59	19.5
10	16QAM	1	0	18.89	18.76	18.83	
10	16QAM	1	25	18.72	18.95	18.72	
10	16QAM	1	49	18.58	18.86	19.01	18.5
10	16QAM	25	0	18.13	17.66	17.81	
10	16QAM	25	12	18.11	17.85	17.76	
10	16QAM	25	25	17.79	17.90	17.66	18.5
10	16QAM	50	0	17.91	17.86	17.86	
10	64QAM	1	0	17.58	17.59	17.36	
10	64QAM	1	25	17.79	17.66	17.48	18.5
10	64QAM	1	49	17.66	17.55	17.64	
10	64QAM	25	0	17.11	16.78	16.97	
10	64QAM	25	12	17.00	16.89	16.76	17.5
10	64QAM	25	25	16.96	16.91	17.09	
10	64QAM	50	0	17.14	17.03	17.10	
Channel				23035	23095	23155	
Frequency (MHz)				701.5	707.5	713.5	
5	QPSK	1	0	19.30	19.36	19.31	20.5
5	QPSK	1	12	19.29	19.28	19.27	
5	QPSK	1	24	19.30	19.32	19.30	
5	QPSK	12	0	18.43	18.42	18.52	19.5
5	QPSK	12	7	18.48	18.41	18.37	
5	QPSK	12	13	18.49	18.57	18.55	
5	QPSK	25	0	18.55	18.50	18.53	19.5
5	16QAM	1	0	18.81	18.73	18.77	
5	16QAM	1	12	18.64	18.92	18.66	
5	16QAM	1	24	18.50	18.83	18.95	18.5
5	16QAM	12	0	18.05	17.63	17.75	
5	16QAM	12	7	18.03	17.82	17.70	
5	16QAM	12	13	17.71	17.87	17.60	18.5
5	16QAM	25	0	17.83	17.83	17.80	
5	64QAM	1	0	17.50	17.51	17.28	
5	64QAM	1	12	17.71	17.58	17.40	18.5
5	64QAM	1	24	17.58	17.47	17.56	
5	64QAM	12	0	17.03	16.70	16.89	
5	64QAM	12	7	16.92	16.81	16.68	17.5
5	64QAM	12	13	16.88	16.83	17.01	
5	64QAM	25	0	17.06	17.15	17.12	
Channel				23025	23095	23165	
Frequency (MHz)				700.5	707.5	714.5	
3	QPSK	1	0	19.34	19.35	19.28	20.5
3	QPSK	1	8	19.33	19.26	19.24	
3	QPSK	1	14	19.34	19.30	19.27	
3	QPSK	8	0	18.47	18.40	18.49	19.5
3	QPSK	8	4	18.52	18.39	18.34	
3	QPSK	8	7	18.53	18.55	18.52	
3	QPSK	15	0	18.59	18.48	18.50	19.5
3	16QAM	1	0	18.85	18.71	18.74	
3	16QAM	1	8	18.68	18.90	18.63	
3	16QAM	1	14	18.54	18.81	18.92	18.5
3	16QAM	8	0	18.09	17.70	17.81	
3	16QAM	8	4	18.07	17.89	17.76	
3	16QAM	8	7	17.75	17.94	17.66	18.5
3	16QAM	15	0	17.87	17.90	17.86	
3	64QAM	1	0	17.51	17.52	17.29	
3	64QAM	1	8	17.72	17.59	17.41	18.5
3	64QAM	1	14	17.59	17.48	17.57	
3	64QAM	8	0	17.04	16.71	16.90	
3	64QAM	8	4	16.93	16.82	16.69	17.5
3	64QAM	8	7	16.89	16.84	17.02	
3	64QAM	15	0	17.07	17.16	17.13	
Channel				23017	23095	23173	
Frequency (MHz)				699.7	707.5	715.3	
1.4	QPSK	1	0	19.25	19.32	19.24	20.5
1.4	QPSK	1	3	19.24	19.24	19.20	
1.4	QPSK	1	5	19.25	19.28	19.23	
1.4	QPSK	3	0	18.38	18.38	18.45	
1.4	QPSK	3	1	18.43	18.37	18.30	
1.4	QPSK	3	3	18.44	18.53	18.48	
1.4	QPSK	6	0	18.50	18.46	18.46	19.5
1.4	16QAM	1	0	18.76	18.69	18.70	
1.4	16QAM	1	3	18.59	18.88	18.59	
1.4	16QAM	1	5	18.45	18.79	18.86	19.5
1.4	16QAM	3	0	18.00	17.59	17.68	
1.4	16QAM	3	1	17.98	17.78	17.63	
1.4	16QAM	3	3	17.66	17.83	17.53	18.5
1.4	16QAM	6	0	17.78	17.79	17.73	
1.4	64QAM	1	0	17.65	17.66	17.43	
1.4	64QAM	1	3	17.86	17.73	17.55	18.5
1.4	64QAM	1	5	17.73	17.62	17.71	
1.4	64QAM	3	0	17.18	16.85	17.04	
1.4	64QAM	3	1	17.07	16.96	16.83	
1.4	64QAM	3	3	17.03	16.98	17.16	
1.4	64QAM	6	0	17.21	17.30	17.27	

Band 13 (700MHz Band) Part 27F

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				23230			
Frequency (MHz)				782			
10	QPSK	1	0		16.98		18
10	QPSK	1	25		16.83		
10	QPSK	1	49		16.90		
10	QPSK	25	0		15.93		17
10	QPSK	25	12		15.91		
10	QPSK	25	25		15.90		
10	QPSK	50	0		15.86		17
10	16QAM	1	0		16.34		
10	16QAM	1	25		16.11		
10	16QAM	1	49		16.16		16
10	16QAM	25	0		15.35		
10	16QAM	25	12		15.29		
10	16QAM	25	25		15.30		16
10	16QAM	50	0		15.12		
10	64QAM	1	0		15.34		
10	64QAM	1	25		15.41		16
10	64QAM	1	49		15.21		
10	64QAM	25	0		14.52		
10	64QAM	25	12		14.50		15
10	64QAM	25	25		14.48		
10	64QAM	50	0		14.60		
Channel				23205	23230	23255	
Frequency (MHz)				779.5	782	784.5	
5	QPSK	1	0	16.77	16.87	16.81	18
5	QPSK	1	12	16.70	16.80	16.74	
5	QPSK	1	24	16.75	16.85	16.77	
5	QPSK	12	0	15.62	15.77	15.66	17
5	QPSK	12	7	15.73	15.88	15.71	
5	QPSK	12	13	15.72	15.87	15.84	
5	QPSK	25	0	15.66	15.81	15.72	17
5	16QAM	1	0	16.21	16.31	16.18	
5	16QAM	1	12	15.96	16.06	15.89	
5	16QAM	1	24	16.03	16.13	15.97	16
5	16QAM	12	0	15.17	15.27	15.11	
5	16QAM	12	7	15.16	15.26	15.15	
5	16QAM	12	13	15.15	15.25	15.23	16
5	16QAM	25	0	14.99	15.09	15.02	
5	64QAM	1	0	15.13	15.26	15.23	
5	64QAM	1	12	15.20	15.33	15.31	16
5	64QAM	1	24	15.00	15.13	15.06	
5	64QAM	12	0	14.29	14.44	14.35	
5	64QAM	12	7	14.27	14.42	14.33	15
5	64QAM	12	13	14.25	14.40	14.31	
5	64QAM	25	0	14.37	14.52	14.43	

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		
Frequency (MHz)				709	710	711		
10	QPSK	1	0	19.30	19.34	19.27	20.5	
10	QPSK	1	25	19.28	19.31	19.24		
10	QPSK	1	49	19.24	19.33	19.32		
10	QPSK	25	0	18.36	18.48	18.46	19.5	
10	QPSK	25	12	18.39	18.38	18.28		
10	QPSK	25	25	18.48	18.35	18.46		
10	QPSK	50	0	18.36	18.47	18.44	19.5	
10	16QAM	1	0	18.50	18.62	18.70		
10	16QAM	1	25	18.62	18.53	18.58		
10	16QAM	1	49	18.57	18.65	18.64	18.5	
10	16QAM	25	0	17.59	17.64	17.66		
10	16QAM	25	12	18.00	17.78	17.67		
10	16QAM	25	25	17.71	17.51	17.54	18.5	
10	16QAM	50	0	17.75	17.72	17.78		
10	64QAM	1	0	17.65	17.63	17.55		
10	64QAM	1	25	17.86	17.67	17.58	17.5	
10	64QAM	1	49	17.52	17.73	17.61		
10	64QAM	25	0	16.87	16.81	16.84		
10	64QAM	25	12	16.90	16.70	16.90	17.5	
10	64QAM	25	25	16.99	16.76	16.83		
10	64QAM	50	0	16.95	16.93	16.96		
Channel				23755	23790	23825		
Frequency (MHz)				708.5	710	713.5		
5	QPSK	1	0	19.21	19.30	19.23	20.5	
5	QPSK	1	12	19.19	19.27	19.16		
5	QPSK	1	24	19.15	19.29	19.24		
5	QPSK	12	0	18.27	18.25	18.38	19.5	
5	QPSK	12	7	18.30	18.34	18.20		
5	QPSK	12	13	18.39	18.31	18.38		
5	QPSK	25	0	18.27	18.43	18.36	19.5	
5	16QAM	1	0	18.41	18.58	18.62		
5	16QAM	1	12	18.53	18.49	18.50		
5	16QAM	1	24	18.48	18.61	18.56	18.5	
5	16QAM	12	0	17.50	17.60	17.58		
5	16QAM	12	7	17.91	17.74	17.59		
5	16QAM	12	13	17.62	17.47	17.46	18.5	
5	16QAM	25	0	17.66	17.68	17.70		
5	64QAM	1	0	17.56	17.54	17.46		
5	64QAM	1	12	17.77	17.58	17.49	18.5	
5	64QAM	1	24	17.43	17.64	17.52		
5	64QAM	12	0	16.78	16.72	16.75		
5	64QAM	12	7	16.81	16.61	16.81	17.5	
5	64QAM	12	13	16.90	16.67	16.74		
5	64QAM	25	0	16.88	16.84	16.87		

Band 26 for FCC (only on channel required)								
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)	
Channel				26785	26865	26965		
Frequency (MHz)				821.5	831.5	841.5		
15	QPSK	1	0	18.73	18.64	18.83	20	
15	QPSK	1	37	18.74	18.80	18.80		
15	QPSK	1	74	18.70	18.82	18.83		
15	QPSK	36	0	17.91	17.92	17.81	19	
15	QPSK	36	20	17.86	17.91	17.86		
15	QPSK	36	39	17.92	17.90	17.90		
15	QPSK	75	0	17.87	17.88	17.88	19	
15	16QAM	1	0	17.96	18.21	17.95		
15	16QAM	1	37	18.08	18.22	18.13		
15	16QAM	1	74	17.94	18.23	18.08	18	
15	16QAM	36	0	17.00	17.32	17.02		
15	16QAM	36	20	17.41	17.27	16.99		
15	16QAM	36	39	17.06	17.29	17.33	18	
15	16QAM	75	0	17.21	17.31	17.01		
15	64QAM	1	0	17.24	17.24	17.43		
15	64QAM	1	37	17.28	17.21	17.33	18	
15	64QAM	1	74	17.43	17.30	17.45		
15	64QAM	36	0	16.32	16.63	16.34		
15	64QAM	36	20	16.43	16.48	16.48	17	
15	64QAM	36	39	16.30	16.44	16.41		
15	64QAM	75	0	16.66	16.54	16.19		
Channel				26740	26865	26990		
Frequency (MHz)				819	831.5	844		
10	QPSK	1	0	18.67	18.81	18.75	20	
10	QPSK	1	25	18.68	18.77	18.77		
10	QPSK	1	49	18.64	18.79	18.77		
10	QPSK	25	0	17.88	17.89	17.75	19	
10	QPSK	25	12	17.80	17.88	17.80		
10	QPSK	25	25	17.86	17.87	17.87		
10	QPSK	50	0	17.81	17.85	17.82	19	
10	16QAM	1	0	17.90	18.18	17.89		
10	16QAM	1	25	18.02	18.19	18.07		
10	16QAM	1	49	17.88	18.20	18.02	18	
10	16QAM	25	0	16.94	17.29	16.96		
10	16QAM	25	12	17.35	17.24	16.93		
10	16QAM	25	25	17.00	17.26	17.27	18	
10	16QAM	50	0	17.15	17.28	16.95		
10	64QAM	1	0	17.17	17.17	17.36		
10	64QAM	1	25	17.21	17.14	17.26	18	
10	64QAM	1	49	17.36	17.23	17.38		
10	64QAM	25	0	16.25	16.56	16.27		
10	64QAM	25	12	16.36	16.41	16.41	17	
10	64QAM	25	25	16.23	16.37	16.34		
10	64QAM	50	0	16.59	16.47	16.12		
Channel				26715	26865	27015		
Frequency (MHz)				816.5	831.5	846.5		
5	QPSK	1	0	18.64	18.80	18.72	20	
5	QPSK	1	12	18.65	18.76	18.74		
5	QPSK	1	24	18.61	18.78	18.74		
5	QPSK	12	0	17.85	17.88	17.72	19	
5	QPSK	12	7	17.77	17.87	17.77		
5	QPSK	12	13	17.83	17.86	17.84		
5	QPSK	25	0	17.78	17.84	17.79	19	
5	16QAM	1	0	17.87	18.17	17.86		
5	16QAM	1	12	17.99	18.18	18.04		
5	16QAM	1	24	17.85	18.19	17.99	18	
5	16QAM	12	0	16.91	17.28	16.93		
5	16QAM	12	7	17.32	17.23	16.90		
5	16QAM	12	13	16.97	17.25	17.24	18	
5	16QAM	25	0	17.12	17.27	16.92		
5	64QAM	1	0	17.19	17.19	17.38		
5	64QAM	1	12	17.23	17.16	17.28	18	
5	64QAM	1	24	17.38	17.25	17.40		
5	64QAM	12	0	16.27	16.58	16.29		
5	64QAM	12	7	16.38	16.43	16.43	17	
5	64QAM	12	13	16.25	16.39	16.36		
5	64QAM	25	0	16.61	16.49	16.14		
Channel				26705	26865	27025		
Frequency (MHz)				815.5	831.5	847.5		
3	QPSK	1	0	18.65	18.82	18.73	20	
3	QPSK	1	8	18.66	18.78	18.75		
3	QPSK	1	14	18.62	18.80	18.75		
3	QPSK	8	0	17.86	17.90	17.73	19	
3	QPSK	8	4	17.78	17.89	17.78		
3	QPSK	8	7	17.84	17.88	17.85		
3	QPSK	15	0	17.79	17.86	17.80	19	
3	16QAM	1	0	17.88	18.19	17.87		
3	16QAM	1	8	18.00	18.20	18.05		
3	16QAM	1	14	17.86	18.21	18.00	18	
3	16QAM	8	0	16.92	17.30	16.94		
3	16QAM	8	4	17.33	17.25	16.91		
3	16QAM	8	7	16.98	17.27	17.25	18	
3	16QAM	15	0	17.13	17.29	17.01		
3	64QAM	1	0	17.12	17.12	17.31		
3	64QAM	1	8	17.16	17.09	17.21	18	
3	64QAM	1	14	17.31	17.18	17.33		
3	64QAM	8	0	16.20	16.51	16.22		
3	64QAM	8	4	16.31	16.36	16.36	17	
3	64QAM	8	7	16.18	16.32	16.29		
3	64QAM	15	0	16.54	16.42	16.07		
Channel				26869	26865	27033		
Frequency (MHz)				814.7	831.5	848.3		
1.4	QPSK	1	0	18.66	18.77	18.74	20	
1.4	QPSK	1	3	18.63	18.73	18.72		
1.4	QPSK	1	5	18.59	18.75	18.72		
1.4	QPSK	3	0	17.83	17.85	17.70	19	
1.4	QPSK	3	1	17.75	17.84	17.75		
1.4	QPSK	3	3	17.81	17.83	17.82		
1.4	QPSK	6	0	17.76	17.81	17.77	19	
1.4	16QAM	1	0	17.85	18.14	17.84		

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	6.03	6.07	6.00	7
20	QPSK	1	49	5.91	6.00	6.03	
20	QPSK	1	99	5.93	5.95	5.91	
20	QPSK	50	0	4.96	5.05	5.03	6
20	QPSK	50	24	5.02	5.00	5.04	
20	QPSK	50	50	5.03	4.99	5.05	
20	QPSK	100	0	4.96	5.00	5.00	6
20	16QAM	1	0	4.97	5.17	5.20	
20	16QAM	1	49	5.06	5.28	5.27	
20	16QAM	1	99	4.87	5.17	5.31	5
20	16QAM	50	0	4.09	4.28	4.40	
20	16QAM	50	24	4.17	4.22	4.44	
20	16QAM	50	50	4.16	4.24	4.27	5
20	16QAM	100	0	4.11	4.23	4.39	
20	64QAM	1	0	4.38	4.26	4.42	
20	64QAM	1	49	4.21	4.24	4.16	5
20	64QAM	1	99	4.16	4.42	4.38	
20	64QAM	50	0	3.31	3.45	3.37	
20	64QAM	50	24	3.23	3.37	3.27	4
20	64QAM	50	50	3.30	3.31	3.22	
20	64QAM	100	0	3.10	3.12	3.44	
Channel				132047	132322	132597	
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	5.94	6.03	5.97	7
15	QPSK	1	37	5.82	6.00	5.96	
15	QPSK	1	74	5.84	5.92	5.84	
15	QPSK	36	0	4.87	4.94	5.06	6
15	QPSK	36	20	4.93	5.10	5.17	
15	QPSK	36	39	4.94	4.96	4.98	
15	QPSK	75	0	4.87	4.97	5.12	6
15	16QAM	1	0	4.88	5.14	5.13	
15	16QAM	1	37	4.97	5.25	5.20	
15	16QAM	1	74	4.78	5.14	5.24	5
15	16QAM	36	0	4.10	4.25	4.33	
15	16QAM	36	20	4.18	4.19	4.37	
15	16QAM	36	39	4.17	4.21	4.20	5
15	16QAM	75	0	4.12	4.20	4.32	
15	64QAM	1	0	4.33	4.21	4.37	
15	64QAM	1	37	4.16	4.19	4.11	5
15	64QAM	1	74	4.11	4.37	4.33	
15	64QAM	36	0	3.26	3.40	3.32	
15	64QAM	36	20	3.18	3.32	3.22	4
15	64QAM	36	39	3.25	3.26	3.17	
15	64QAM	75	0	3.05	3.07	3.39	
Channel				132022	132322	132622	
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	5.98	5.96	5.94	7
10	QPSK	1	25	5.80	5.95	5.97	
10	QPSK	1	49	5.82	5.90	5.85	
10	QPSK	25	0	4.85	4.92	5.07	6
10	QPSK	25	12	4.91	5.08	5.18	
10	QPSK	25	25	4.92	4.94	4.99	
10	QPSK	50	0	4.85	4.95	5.13	6
10	16QAM	1	0	4.86	5.12	5.14	
10	16QAM	1	25	4.95	5.23	5.21	
10	16QAM	1	49	4.76	5.12	5.25	5
10	16QAM	25	0	4.08	4.23	4.34	
10	16QAM	25	12	4.16	4.17	4.38	
10	16QAM	25	25	4.15	4.19	4.21	5
10	16QAM	50	0	4.10	4.18	4.33	
10	64QAM	1	0	4.35	4.23	4.39	
10	64QAM	1	25	4.18	4.21	4.13	5
10	64QAM	1	49	4.13	4.39	4.35	
10	64QAM	25	0	3.28	3.42	3.34	
10	64QAM	25	12	3.20	3.34	3.24	4
10	64QAM	25	25	3.27	3.28	3.19	
10	64QAM	50	0	3.07	3.09	3.41	
Channel				131997	132322	132647	
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	5.90	6.00	5.92	7
5	QPSK	1	12	5.78	5.92	5.99	
5	QPSK	1	24	5.80	5.87	5.87	
5	QPSK	12	0	4.83	4.89	5.09	6
5	QPSK	12	7	4.89	5.05	5.20	
5	QPSK	12	13	4.90	4.91	5.01	
5	QPSK	25	0	4.83	4.92	5.15	6
5	16QAM	1	0	4.84	5.09	5.16	
5	16QAM	1	12	4.93	5.11	5.13	
5	16QAM	1	24	4.74	5.09	5.17	5
5	16QAM	12	0	3.96	4.20	4.36	
5	16QAM	12	7	4.04	4.14	4.40	
5	16QAM	12	13	4.03	4.16	4.23	5
5	16QAM	25	0	3.98	4.15	4.35	
5	64QAM	1	0	4.30	4.18	4.34	
5	64QAM	1	12	4.13	4.16	4.08	5
5	64QAM	1	24	4.08	4.34	4.30	
5	64QAM	12	0	3.23	3.37	3.29	
5	64QAM	12	7	3.15	3.29	3.19	4
5	64QAM	12	13	3.22	3.23	3.14	
5	64QAM	25	0	3.02	3.04	3.36	
Channel				131987	132322	132657	
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	5.89	5.96	5.86	7
3	QPSK	1	8	5.77	5.89	5.89	
3	QPSK	1	14	5.79	5.84	5.77	
3	QPSK	8	0	4.82	4.86	4.99	6
3	QPSK	8	4	4.88	5.02	5.10	
3	QPSK	8	7	4.89	4.88	4.91	
3	QPSK	15	0	4.82	4.89	5.05	6
3	16QAM	1	0	4.83	5.06	5.06	

3	16QAM	1	8	4.92	5.17	5.13	6
3	16QAM	1	14	4.73	5.06	5.17	
3	16QAM	8	0	3.95	4.17	4.26	
3	16QAM	8	4	4.03	4.11	4.30	5
3	16QAM	8	7	4.02	4.13	4.13	
3	16QAM	15	0	3.97	4.12	4.25	
3	64QAM	1	0	4.34	4.22	4.38	5
3	64QAM	1	8	4.17	4.20	4.12	
3	64QAM	1	14	4.12	4.38	4.34	
3	64QAM	8	0	3.27	3.41	3.33	4
3	64QAM	8	4	3.19	3.33	3.23	
3	64QAM	8	7	3.26	3.27	3.18	
3	64QAM	15	0	3.06	3.08	3.40	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	5.87	6.00	5.84	7
1.4	QPSK	1	3	5.75	5.93	5.87	
1.4	QPSK	1	5	5.77	5.88	5.75	
1.4	QPSK	3	0	4.80	4.90	4.97	
1.4	QPSK	3	1	4.86	5.06	5.08	
1.4	QPSK	3	3	4.87	4.92	4.89	
1.4	QPSK	6	0	4.80	4.93	5.03	
1.4	16QAM	1	0	4.81	5.10	5.04	6
1.4	16QAM	1	3	4.90	5.21	5.11	
1.4	16QAM	1	5	4.71	5.10	5.15	
1.4	16QAM	3	0	4.13	4.21	4.24	
1.4	16QAM	3	1	4.11	4.15	4.28	
1.4	16QAM	3	3	4.10	4.17	4.11	
1.4	16QAM	6	0	3.95	4.16	4.23	
1.4	64QAM	1	0	4.42	4.30	4.46	5
1.4	64QAM	1	3	4.25	4.28	4.20	
1.4	64QAM	1	5	4.20	4.46	4.42	
1.4	64QAM	3	0	3.35	3.49	3.41	
1.4	64QAM	3	1	3.27	3.41	3.31	
1.4	64QAM	3	3	3.34	3.35	3.26	
1.4	64QAM	6	0	3.14	3.16	3.48	
1.4	64QAM	6	0	3.14	3.16	3.48	

Band 38(only on channel required)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				37850	38000	38150	14
Frequency (MHz)				2580	2595	2610	
20	QPSK	1	0	12.65	12.69	12.68	13
20	QPSK	1	49	12.56	12.58	12.61	
20	QPSK	1	99	12.51	12.50	12.62	13
20	QPSK	50	0	11.70	11.75	11.71	
20	QPSK	50	24	11.67	11.56	11.60	13
20	QPSK	50	50	11.72	11.67	11.64	
20	QPSK	100	0	11.61	11.69	11.69	13
20	16QAM	1	0	11.57	11.81	11.86	
20	16QAM	1	49	11.60	11.88	11.84	13
20	16QAM	1	99	11.52	11.76	11.81	
20	16QAM	50	0	10.91	10.86	10.66	12
20	16QAM	50	24	10.83	10.82	10.77	
20	16QAM	50	50	10.82	10.83	10.71	12
20	16QAM	100	0	10.70	10.78	10.74	
20	64QAM	1	0	10.73	10.57	10.55	12
20	64QAM	1	49	10.67	10.77	10.68	
20	64QAM	1	99	10.69	10.73	10.65	12
20	64QAM	50	0	10.02	10.32	10.10	
20	64QAM	50	24	10.11	10.29	10.26	11
20	64QAM	50	50	10.24	10.37	10.18	
20	64QAM	100	0	9.98	10.12	10.01	11
Channel				37825	20.19	38175	
Frequency (MHz)				2577.5	2595	2612.5	14
15	QPSK	1	0	12.57	12.63	12.55	
15	QPSK	1	37	12.48	12.52	12.48	13
15	QPSK	1	74	12.43	12.44	12.49	
15	QPSK	36	0	11.62	11.65	11.62	13
15	QPSK	36	20	11.59	11.50	11.47	
15	QPSK	36	39	11.64	11.61	11.51	13
15	QPSK	75	0	11.53	11.63	11.56	
15	16QAM	1	0	11.49	11.75	11.73	13
15	16QAM	1	37	11.52	11.82	11.71	
15	16QAM	1	74	11.44	11.70	11.68	12
15	16QAM	36	0	10.83	10.80	10.53	
15	16QAM	36	20	10.75	10.76	10.64	12
15	16QAM	36	39	10.74	10.77	10.58	
15	16QAM	75	0	10.62	10.72	10.61	12
15	64QAM	1	0	10.65	10.49	10.47	
15	64QAM	1	37	10.59	10.69	10.60	12
15	64QAM	1	74	10.61	10.65	10.57	
15	64QAM	36	0	9.94	10.24	10.02	11
15	64QAM	36	20	10.03	10.21	10.18	
15	64QAM	36	39	10.16	10.29	10.10	11
15	64QAM	75	0	9.90	10.04	9.93	
Channel				37800	38000	38200	14
Frequency (MHz)				2575	2595	2615	
10	QPSK	1	0	12.53	12.65	12.59	13
10	QPSK	1	25	12.54	12.63	12.62	
10	QPSK	1	49	12.59	12.55	12.53	13
10	QPSK	25	0	11.58	11.66	11.66	
10	QPSK	25	12	11.55	11.51	11.51	13
10	QPSK	25	25	11.60	11.62	11.55	
10	QPSK	50	0	11.49	11.64	11.60	13
10	16QAM	1	0	11.45	11.76	11.77	
10	16QAM	1	25	11.48	11.83	11.75	13
10	16QAM	1	49	11.40	11.71	11.72	
10	16QAM	25	0	10.79	10.81	10.57	12
10	16QAM	25	12	10.71	10.77	10.68	
10	16QAM	25	25	10.70	10.78	10.62	12
10	16QAM	50	0	10.58	10.73	10.65	
10	64QAM	1	0	10.69	10.53	10.51	12
10	64QAM	1	25	10.63	10.73	10.64	
10	64QAM	1	49	10.65	10.69	10.61	11
10	64QAM	25	0	9.98	10.28	10.06	
10	64QAM	25	12	10.07	10.25	10.22	11
10	64QAM	25	25	10.20	10.33	10.14	
10	64QAM	50	0	9.94	10.08	9.97	11
Channel				37775	38000	38225	
Frequency (MHz)				2572.5	2595	2617.5	14
5	QPSK	1	0	12.60	12.64	12.63	
5	QPSK	1	12	12.51	12.55	12.56	13
5	QPSK	1	24	12.46	12.47	12.57	
5	QPSK	12	0	11.65	11.68	11.70	13
5	QPSK	12	7	11.62	11.53	11.55	
5	QPSK	12	13	11.67	11.64	11.59	13
5	QPSK	25	0	11.56	11.66	11.64	
5	16QAM	1	0	11.52	11.78	11.81	13
5	16QAM	1	12	11.55	11.85	11.79	
5	16QAM	1	24	11.47	11.73	11.76	12
5	16QAM	12	0	10.86	10.83	10.61	
5	16QAM	12	7	10.78	10.79	10.72	12
5	16QAM	12	13	10.77	10.80	10.66	
5	16QAM	25	0	10.65	10.75	10.69	12
5	64QAM	1	0	10.64	10.48	10.46	
5	64QAM	1	12	10.58	10.68	10.59	12
5	64QAM	1	24	10.60	10.64	10.58	
5	64QAM	12	0	9.93	10.23	10.01	11
5	64QAM	12	7	10.02	10.20	10.17	
5	64QAM	12	13	10.15	10.28	10.09	11
5	64QAM	25	0	9.89	10.03	9.92	

Band 40 (2.3G Band-1) Part 27D-1 2305MHz ~ 2315MHz							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				38750			15
Frequency (MHz)				2310			
10	QPSK	1	0	13.72			14
10	QPSK	1	25	13.56			
10	QPSK	1	49	13.39			14
10	QPSK	25	0	12.68			
10	QPSK	25	12	12.73			14
10	QPSK	25	25	12.54			
10	QPSK	50	0	12.73			14
10	16QAM	1	0	12.64			
10	16QAM	1	25	12.48			14
10	16QAM	1	49	12.40			
10	16QAM	25	0	11.90			13
10	16QAM	25	12	11.80			
10	16QAM	25	25	11.83			13
10	16QAM	50	0	11.88			
10	64QAM	1	0	11.51			13
10	64QAM	1	25	11.30			
10	64QAM	1	49	11.26			12
10	64QAM	25	0	10.90			
10	64QAM	25	12	10.77			12
10	64QAM	25	25	10.75			
10	64QAM	50	0	10.87			12
Channel				38725	38750	38775	
Frequency (MHz)				2307.5	2310	2312.5	15
5	QPSK	1	0	13.51	13.38	13.50	
5	QPSK	1	12	13.37	13.18	13.49	14
5	QPSK	1	24	13.35	13.01	13.43	
5	QPSK	12	0	12.46	12.30	12.38	14
5	QPSK	12	7	12.22	12.35	12.43	
5	QPSK	12	13	12.16	12.16	12.37	14
5	QPSK	25	0	12.30	12.35	12.46	
5	16QAM	1	0	12.27	12.26	12.30	14
5	16QAM	1	12	12.10	12.10	12.12	
5	16QAM	1	24	11.91	12.02	12.05	13
5	16QAM	12	0	11.66	11.52	11.73	
5	16QAM	12	7	11.53	11.42	11.68	13
5	16QAM	12	13	11.46	11.45	11.74	
5	16QAM	25	0	11.57	11.50	11.59	13
5	64QAM	1	0	11.46	11.42	11.40	
5	64QAM	1	12	11.17	11.21	11.19	13
5	64QAM	1	24	11.13	11.17	11.15	
5	64QAM	12	0	10.77	10.81	10.79	12
5	64QAM	12	7	10.64	10.68	10.66	
5	64QAM	12	13	10.62	10.66	10.64	12
5	64QAM	25	0	10.74	10.78	10.76	

Band 40 (2.3G Band-2)
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	10.16			11.5
10	QPSK	1	25	10.12			
10	QPSK	1	49	10.07			
10	QPSK	25	0	9.20			10.5
10	QPSK	25	12	9.25			
10	QPSK	25	25	9.19			
10	QPSK	50	0	9.25			
10	16QAM	1	0	9.12			10.5
10	16QAM	1	25	8.94			
10	16QAM	1	49	8.87			
10	16QAM	25	0	8.55			9.5
10	16QAM	25	12	8.50			
10	16QAM	25	25	8.56			
10	16QAM	50	0	8.41			
10	64QAM	1	0	8.24			9.5
10	64QAM	1	25	8.15			
10	64QAM	1	49	8.12			
10	64QAM	25	0	7.42			8.5
10	64QAM	25	12	7.30			
10	64QAM	25	25	7.24			
10	64QAM	50	0	7.29			
Channel				39175	39200	39225	Tune-up limit (dBm)
Frequency (MHz)				2352.5	2355	2357.5	
5	QPSK	1	0	10.02	10.05	10.03	11.5
5	QPSK	1	12	10.02	9.95	9.99	
5	QPSK	1	24	10.00	9.78	10.01	
5	QPSK	12	0	9.11	9.07	9.00	10.5
5	QPSK	12	7	8.87	9.12	9.16	
5	QPSK	12	13	8.81	8.93	9.10	
5	QPSK	25	0	8.95	9.12	9.19	
5	16QAM	1	0	8.92	9.03	9.03	10.5
5	16QAM	1	12	8.75	8.87	8.85	
5	16QAM	1	24	8.56	8.79	8.78	
5	16QAM	12	0	8.31	8.29	8.46	9.5
5	16QAM	12	7	8.18	8.19	8.41	
5	16QAM	12	13	8.11	8.22	8.47	
5	16QAM	25	0	8.22	8.27	8.32	
5	64QAM	1	0	8.14	8.16	8.12	9.5
5	64QAM	1	12	8.05	8.07	8.03	
5	64QAM	1	24	8.02	8.04	8.00	
5	64QAM	12	0	7.32	7.34	7.30	8.5
5	64QAM	12	7	7.20	7.22	7.18	
5	64QAM	12	13	7.14	7.16	7.12	
5	64QAM	25	0	7.19	7.21	7.17	

Band 41 (2535~2655MHz)

BW [MHz]	Modulation	RB Size	RB Offset	Low channel	Middle Low Channel	Middle Channel	Middle High Channel	High Channel	Tune-up limit (dBm)
Channel				40140	40390	40640	40890	41140	
Frequency (MHz)				2545	2570	2595	2620	2645	
20	QPSK	1	0	14.92	15.04	15.12	15.03	14.89	16
20	QPSK	1	49	14.91	14.69	14.78	14.98	14.70	
20	QPSK	1	99	14.85	15.01	14.66	14.92	14.65	
20	QPSK	50	0	13.76	13.74	13.78	13.77	13.75	15
20	QPSK	50	24	13.62	13.65	13.72	13.71	13.62	
20	QPSK	50	50	13.59	13.64	13.74	13.70	13.47	
20	QPSK	100	0	13.65	13.74	13.64	13.74	13.72	15
20	16QAM	1	0	13.47	13.60	13.43	13.57	13.57	
20	16QAM	1	49	13.39	13.67	13.44	13.26	13.29	
20	16QAM	1	99	13.43	13.68	13.37	13.33	13.15	14
20	16QAM	50	0	13.02	12.95	12.91	12.98	12.90	
20	16QAM	50	24	12.98	12.89	12.85	12.93	12.95	
20	16QAM	50	50	12.93	12.88	12.87	13.09	12.92	14
20	16QAM	100	0	12.98	12.97	12.82	12.93	12.84	
20	64QAM	1	0	12.57	12.59	12.85	12.52	12.65	
20	64QAM	1	49	12.59	12.66	12.73	12.58	12.62	14
20	64QAM	1	99	12.70	12.58	12.77	12.57	12.59	
20	64QAM	50	0	11.77	11.83	11.92	11.76	11.64	
20	64QAM	50	24	11.90	11.76	11.84	11.89	11.76	13
20	64QAM	50	50	11.76	11.56	11.89	11.90	11.88	
20	64QAM	100	0	11.74	11.73	11.97	11.77	11.62	
Channel				40115	40378	40640	40903	41165	
Frequency (MHz)				2542.5	2568.8	2595	2621.3	2647.5	
15	QPSK	1	0	14.88	14.96	15.04	14.99	14.82	16
15	QPSK	1	37	14.59	14.61	14.74	14.91	14.63	
15	QPSK	1	74	14.81	14.93	14.62	14.85	14.58	
15	QPSK	36	0	13.60	13.66	13.74	13.70	13.68	15
15	QPSK	36	20	13.69	13.57	13.68	13.64	13.55	
15	QPSK	36	39	13.60	13.56	13.70	13.63	13.40	
15	QPSK	75	0	13.61	13.66	13.60	13.67	13.65	15
15	16QAM	1	0	13.39	13.52	13.39	13.50	13.50	
15	16QAM	1	37	13.31	13.59	13.40	13.19	13.22	
15	16QAM	1	74	13.35	13.60	13.33	13.26	13.08	14
15	16QAM	36	0	12.94	12.87	12.87	12.91	12.83	
15	16QAM	36	20	12.90	12.81	12.81	12.86	12.88	
15	16QAM	36	39	12.85	12.80	12.83	13.02	12.85	14
15	16QAM	75	0	12.90	12.89	12.78	12.86	12.77	
15	64QAM	1	0	12.51	12.53	12.79	12.46	12.59	
15	64QAM	1	37	12.53	12.60	12.67	12.52	12.56	14
15	64QAM	1	74	12.64	12.52	12.71	12.51	12.53	
15	64QAM	36	0	11.71	11.77	11.86	11.70	11.58	
15	64QAM	36	20	11.84	11.70	11.78	11.83	11.70	13
15	64QAM	36	39	11.70	11.50	11.83	11.84	11.82	
15	64QAM	75	0	11.68	11.67	11.91	11.71	11.56	
Channel				40090	40365	40640	40915	41190	
Frequency (MHz)				2540	2567.5	2595	2622.5	2650	
10	QPSK	1	0	14.65	14.75	14.89	14.74	14.60	16
10	QPSK	1	25	14.70	14.60	14.73	14.89	14.59	
10	QPSK	1	49	14.78	14.86	14.61	14.83	14.54	
10	QPSK	25	0	13.74	13.65	13.73	13.68	13.64	15
10	QPSK	25	12	13.77	13.56	13.67	13.62	13.51	
10	QPSK	25	25	13.52	13.55	13.69	13.61	13.36	
10	QPSK	50	0	13.59	13.65	13.59	13.65	13.61	15
10	16QAM	1	0	13.61	13.51	13.38	13.48	13.46	
10	16QAM	1	25	13.40	13.58	13.39	13.17	13.18	
10	16QAM	1	49	13.50	13.59	13.32	13.24	13.04	14
10	16QAM	25	0	12.91	12.86	12.86	12.89	12.79	
10	16QAM	25	12	12.87	12.80	12.80	12.84	12.84	
10	16QAM	25	25	12.82	12.79	12.82	13.00	12.81	14
10	16QAM	50	0	12.87	12.88	12.77	12.84	12.73	
10	64QAM	1	0	12.53	12.55	12.81	12.48	12.61	
10	64QAM	1	25	12.55	12.62	12.69	12.54	12.58	14
10	64QAM	1	49	12.66	12.54	12.73	12.53	12.55	
10	64QAM	25	0	11.73	11.79	11.68	11.72	11.60	
10	64QAM	25	12	11.86	11.72	11.80	11.85	11.72	13
10	64QAM	25	25	11.72	11.52	11.85	11.86	11.84	
10	64QAM	50	0	11.70	11.69	11.93	11.73	11.58	
Channel				40065	40353	40640	40928	41216	
Frequency (MHz)				2537.5	2566.3	2595	2623.80	2652.5	
5	QPSK	1	0	14.75	14.68	14.97	14.79	14.68	16
5	QPSK	1	12	14.81	14.63	14.68	14.67	14.70	
5	QPSK	1	24	14.77	14.86	14.63	14.86	14.53	
5	QPSK	12	0	13.62	13.68	13.75	13.71	13.63	15
5	QPSK	12	7	13.55	13.59	13.69	13.65	13.50	
5	QPSK	12	13	13.56	13.58	13.71	13.64	13.35	
5	QPSK	25	0	13.53	13.68	13.61	13.68	13.60	15
5	16QAM	1	0	13.35	13.54	13.40	13.51	13.45	
5	16QAM	1	12	13.27	13.61	13.41	13.20	13.17	
5	16QAM	1	24	13.31	13.62	13.34	13.27	13.03	14
5	16QAM	12	0	12.90	12.89	12.88	12.92	12.78	
5	16QAM	12	7	12.86	12.83	12.82	12.87	12.83	
5	16QAM	12	13	12.81	12.62	12.84	13.03	12.80	14
5	16QAM	25	0	12.86	12.91	12.79	12.87	12.72	
5	16QAM	25	0	12.48	12.50	12.76	12.43	12.56	
5	64QAM	1	12	12.50	12.57	12.64	12.49	12.53	14
5	64QAM	1	24	12.61	12.49	12.68	12.48	12.50	
5	64QAM	12	0	11.68	11.74	11.63	11.67	11.55	
5	64QAM	12	7	11.81	11.67	11.75	11.80	11.67	13
5	64QAM	12	13	11.67	11.47	11.80	11.81	11.79	
5	64QAM	25	0	11.65	11.64	11.88	11.68	11.53	

Reduced Power for Standalone Transmission

Mode	Channel	Frequency (MHz)	Average power (dBm)			Power Setting	Duty Cycle %
			1Mbps	2Mbps	3Mbps		
2.4GHz WLAN	802.11b 1Mbps	CH 1	2412	7.59	9.00	7.00	99.28
		CH 6	2437	8.54	10.00	7.00	
		CH 11	2462	8.26	10.00	7.00	
	802.11g 6Mbps	CH 1	2412	3.43	5.00	4.00	95.80
		CH 6	2437	5.37	7.00	5.00	
		CH 11	2462	5.76	7.00	5.00	
	802.11n-HT20 MCS0	CH 1	2412	5.13	7.00	5.00	95.04
		CH 6	2437	5.58	7.00	5.00	
		CH 11	2462	5.80	7.00	5.00	
	802.11n-HT40 MCS0	CH 3	2422	5.86	7.00	5.00	87.50
		CH 6	2437	5.36	7.00	5.00	
		CH 9	2452	4.73	6.00	5.00	

Mode	Channel	Frequency (MHz)	Average power (dBm)			Power Setting	Duty Cycle %
			1Mbps	2Mbps	3Mbps		
5.2GHz WLAN	802.11a 6Mbps	CH 36	5180	5.99	7.00	6.00	95.10
		CH 44	5220	6.52	8.00	6.00	
		CH 48	5240	6.00	7.00	6.00	
	802.11n-HT20 MCS0	CH 36	5180	5.85	7.00	6.00	94.26
		CH 44	5220	6.19	8.00	6.00	
		CH 48	5240	6.19	8.00	6.00	
	802.11n-HT40 MCS0	CH 38	5190	5.21	7.00	6.00	86.15
		CH 46	5230	5.16	7.00	6.00	
		CH 36	5180	4.54	6.00	6.00	
	802.11ac-VHT20 MCS0	CH 44	5220	5.16	7.00	6.00	93.50
		CH 48	5240	5.40	7.00	6.00	
		CH 38	5190	4.87	6.00	6.00	
	802.11ac-VHT40 MCS0	CH 46	5230	5.13	7.00	6.00	84.85
		CH 42	5210	4.64	6.00	6.00	71.43

Mode	Channel	Frequency (MHz)	Average power (dBm)			Power Setting	Duty Cycle %
			1Mbps	2Mbps	3Mbps		
5.3GHz WLAN	802.11a 6Mbps	CH 52	5260	6.16	8.00	6.00	95.10
		CH 60	5300	5.63	7.00	6.00	
		CH 64	5320	6.24	8.00	6.00	
	802.11n-HT20 MCS0	CH 52	5260	6.32	8.00	6.00	94.26
		CH 60	5300	6.32	8.00	6.00	
		CH 64	5320	6.61	8.00	6.00	
	802.11n-HT40 MCS0	CH 54	5270	4.86	6.00	6.00	86.15
		CH 62	5310	5.42	7.00	6.00	
		CH 52	5260	5.60	7.00	6.00	
	802.11ac-VHT20 MCS0	CH 60	5300	5.35	7.00	6.00	93.50
		CH 64	5320	6.31	8.00	6.00	
		CH 54	5270	5.04	7.00	6.00	
	802.11ac-VHT40 MCS0	CH 62	5310	5.60	7.00	6.00	84.85
		CH 58	5290	5.10	7.00	6.00	71.43

Mode	Channel	Frequency (MHz)	Average power (dBm)			Power Setting	Duty Cycle %
			1Mbps	2Mbps	3Mbps		
5.5GHz WLAN	802.11a 6Mbps	CH 100	5500	3.35	5.00	1.00	95.10
		CH 120	5500	3.55	5.00	1.00	
		CH 144	5720	2.25	4.00	1.00	
	802.11n-HT20 MCS0	CH 100	5500	3.47	5.00	1.00	94.26
		CH 120	5600	3.57	5.00	1.00	
		CH 144	5720	2.36	4.00	1.00	
	802.11n-HT40 MCS0	CH 102	5510	3.39	5.00	1.00	86.15
		CH 126	5630	2.28	4.00	1.00	
		CH 142	5710	1.76	3.00	1.00	
	802.11ac-VHT20 MCS0	CH 100	5500	3.40	5.00	1.00	93.50
		CH 120	5600	3.60	5.00	1.00	
		CH 140	5700	2.41	4.00	1.00	
	802.11ac-VHT40 MCS0	CH 102	5510	3.27	5.00	1.00	84.85
		CH 126	5630	2.25	4.00	1.00	
		CH 142	5710	2.03	4.00	1.00	
	802.11ac-VHT80 MCS0	CH 106	5530	3.06	5.00	1.00	71.43
		CH 122	5610	2.84	4.00	1.00	
		CH 138	5690	2.43	4.00	1.00	

Mode	Channel	Frequency (MHz)	Average power (dBm)			Power Setting	Duty Cycle %
			1Mbps	2Mbps	3Mbps		
5.8GHz WLAN	802.11a MCS0	CH 149	5745	3.95	5.00	4.00	95.10
		CH 157	5785	4.40	6.00	4.00	
		CH 165	5825	4.50	6.00	4.00	
	802.11n-HT20 MCS0	CH 149	5745	3.91	5.00	4.00	94.26
		CH 157	5785	4.21	6.00	4.00	
		CH 165	5825	4.41	6.00	4.00	
	802.11n-HT40 MCS0	CH 151	5755	4.66	6.00	4.00	86.15
		CH 159	5795	4.57	6.00	4.00	
		CH 149	5745	3.82	5.00	4.00	
	802.11ac-VHT20 MCS0	CH 157	5785	4.21	6.00	4.00	93.50
		CH 165	5825	4.41	6.00	4.00	
		CH 151	5755	3.82	5.00	4.00	
	802.11ac-VHT40 MCS0	CH 159	5795	3.78	5.00	4.00	84.85
		CH 155	5775	4.12	5.00	4.00	71.43

Mode	Channel	Frequency (MHz)	Average power (dBm)		
			1Mbps	2Mbps	3Mbps
BR / EDR	CH 00	2402	1.72	0.75	0.78
	CH 39	2441	2.30	1.28	1.35
	CH 78	2480	1.96	1.01	0.90
	Tune-up Limit		4.0	3.0	3.0
	Duty Cycle %		77.33	76.8	77.33
Power Setting		8	8	8	

Mode	Channel	Frequency (MHz)	Average power (dBm)	
			FSK	GFSK
LE	CH 00	2402	-1.91	-1.49
	CH 19	2440	-1.66	-1.55
	CH 39	2480	-1.71	-1.27
	Tune-up Limit		1.0	1.0
Duty Cycle %		32	33.33	

Reduced Power for Simultaneous Transmission

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
2.4GHz WLAN	802.11b 1Mbps	CH 1	2412	4.58	6.00	4.00	99.28
		CH 6	2437	5.55	7.00	4.00	
		CH 11	2462	5.42	7.00	4.00	
	802.11g 6Mbps	CH 1	2412	1.42	3.00	2.00	95.80
		CH 6	2437	2.36	4.00	2.00	
		CH 11	2462	2.75	4.00	2.00	
	802.11n-HT20 MCS0	CH 1	2412	2.12	4.00	2.00	95.04
		CH 6	2437	2.57	4.00	2.00	
		CH 11	2462	2.79	4.00	2.00	
	802.11n-HT40 MCS0	CH 3	2422	2.85	4.00	2.00	87.50
		CH 6	2437	2.35	4.00	2.00	
		CH 9	2452	2.21	4.00	2.00	

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
5.2GHz WLAN	802.11a 6Mbps	CH 36	5180	3.99	5.00	4.00	95.10
		CH 44	5220	4.52	6.00	4.00	
		CH 48	5240	4.00	5.00	4.00	
	802.11n-HT20 MCS0	CH 36	5180	3.84	5.00	4.00	94.26
		CH 44	5220	4.18	6.00	4.00	
		CH 48	5240	4.18	6.00	4.00	
	802.11n-HT40 MCS0	CH 38	5190	3.21	5.00	4.00	86.15
		CH 46	5230	3.16	5.00	4.00	
	802.11ac-VHT20 MCS0	CH 36	5180	2.54	4.00	4.00	93.50
		CH 44	5220	3.16	5.00	4.00	
		CH 48	5240	3.40	5.00	4.00	
	802.11ac-VHT40 MCS0	CH 38	5190	2.85	4.00	4.00	84.85
CH 46		5230	3.11	5.00	4.00		
802.11ac-VHT80 MCS0	CH 42	5210	2.62	4.00	4.00	71.43	

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
5.3GHz WLAN	802.11a 6Mbps	CH 52	5260	2.17	4.00	2.00	95.10
		CH 60	5300	2.14	4.00	2.00	
		CH 64	5320	2.25	4.00	2.00	
	802.11n-HT20 MCS0	CH 52	5260	2.33	4.00	2.00	94.26
		CH 60	5300	2.33	4.00	2.00	
		CH 64	5320	2.62	4.00	2.00	
	802.11n-HT40 MCS0	CH 54	5270	2.07	4.00	2.00	86.15
		CH 62	5310	2.03	4.00	2.00	
	802.11ac-VHT20 MCS0	CH 52	5260	2.01	4.00	2.00	93.50
		CH 60	5300	2.36	4.00	2.00	
		CH 64	5320	2.32	4.00	2.00	
	802.11ac-VHT40 MCS0	CH 54	5270	2.35	4.00	2.00	84.85
CH 62		5310	2.41	4.00	2.00		
802.11ac-VHT80 MCS0	CH 58	5290	2.46	4.00	2.00	71.43	

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
5.5GHz WLAN	802.11a 6Mbps	CH 100	5500	2.18	4.00	0.00	95.10
		CH 120	5600	2.38	4.00	0.00	
		CH 144	5720	2.03	4.00	0.00	
	802.11n-HT20 MCS0	CH 100	5500	2.32	4.00	0.00	94.26
		CH 120	5600	2.42	4.00	0.00	
		CH 144	5720	1.87	3.00	0.00	
	802.11n-HT40 MCS0	CH 102	5510	2.21	4.00	0.00	86.15
		CH 126	5630	1.93	3.00	0.00	
		CH 142	5710	1.77	3.00	0.00	
	802.11ac-VHT20 MCS0	CH 100	5500	2.40	4.00	0.00	93.50
		CH 120	5600	2.45	4.00	0.00	
		CH 140	5700	2.11	4.00	0.00	
802.11ac-VHT40 MCS0	CH 102	5510	2.10	4.00	0.00	84.85	
	CH 126	5630	1.08	3.00	0.00		
	CH 142	5710	0.78	2.00	0.00		
802.11ac-VHT80 MCS0	CH 106	5530	1.89	3.00	0.00	71.43	
	CH 122	5610	1.67	3.00	0.00		
	CH 138	5690	0.94	2.00	0.00		

	Mode	Channel	Frequency (MHz)	Average power (dBm)	Tune-Up Limit	Power Setting	Duty Cycle %
5.8GHz WLAN	802.11a MCS0	CH 149	5745	2.33	4.00	1.00	95.10
		CH 157	5785	2.78	4.00	1.00	
		CH 165	5825	2.88	4.00	1.00	
	802.11n-HT20 MCS0	CH 149	5745	2.29	4.00	1.00	94.26
		CH 157	5785	2.59	4.00	1.00	
		CH 165	5825	2.79	4.00	1.00	
	802.11n-HT40 MCS0	CH 151	5755	2.90	4.00	1.00	86.15
		CH 159	5795	2.69	4.00	1.00	
	802.11ac-VHT20 MCS0	CH 149	5745	2.20	4.00	1.00	93.50
		CH 157	5785	2.59	4.00	1.00	
		CH 165	5825	2.79	4.00	1.00	
	802.11ac-VHT40 MCS0	CH 151	5755	2.20	4.00	1.00	84.85
CH 159		5795	2.16	4.00	1.00		
802.11ac-VHT80 MCS0	CH 155	5775	2.50	4.00	1.00	71.43	