



REPORT No.: SZ22030298S01

## Annex E Conducted Power

### Conducted Power

Band	WCDMA II			Tune-up Limit (dBm)	WCDMA IV			Tune-up Limit (dBm)	WCDMA 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	20.89	20.96	20.54	21.50	20.26	20.34	20.19	21.00	21.63	21.57	21.66	22.00
3GPP Rel 6	HSDPA Subtest-1	20.66	20.86	20.51	22.00	20.24	20.18	20.25	21.00	20.75	20.52	20.53	21.50
3GPP Rel 6	HSDPA Subtest-2	20.76	20.85	20.34	22.00	20.19	20.16	20.25	21.00	20.76	20.53	20.55	21.50
3GPP Rel 6	HSDPA Subtest-3	20.48	20.35	19.66	21.50	19.68	19.57	20.13	20.50	20.23	20.02	20.02	21.00
3GPP Rel 6	HSDPA Subtest-4	20.29	20.34	19.86	21.50	19.69	19.58	20.14	20.50	20.23	20.02	20.01	21.00
3GPP Rel 8	DC-HSDPA Subtest-1	20.59	20.66	20.83	22.00	20.06	20.11	20.13	21.00	20.42	20.63	19.88	21.00
3GPP Rel 8	DC-HSDPA Subtest-2	20.67	20.66	20.86	22.00	20.08	20.26	20.25	21.00	20.55	20.44	19.80	21.00
3GPP Rel 8	DC-HSDPA Subtest-3	20.39	20.34	20.40	21.50	19.71	19.95	20.07	20.50	20.03	19.94	19.39	20.50
3GPP Rel 8	DC-HSDPA Subtest-4	20.07	20.35	20.40	21.50	19.51	19.74	19.86	20.50	20.03	19.95	19.30	20.50
3GPP Rel 6	HSUPA Subtest-1	19.46	19.66	16.38	20.00	19.41	18.58	19.37	20.00	19.08	20.10	19.29	20.50
3GPP Rel 6	HSUPA Subtest-2	18.90	19.13	15.82	18.00	18.86	18.01	18.81	19.00	18.55	19.56	18.76	20.00
3GPP Rel 6	HSUPA Subtest-3	19.46	19.69	16.37	19.00	19.44	18.66	19.43	20.00	19.12	20.11	19.31	20.50
3GPP Rel 6	HSUPA Subtest-4	19.42	19.68	16.35	18.00	19.42	18.63	19.38	20.00	19.06	20.07	19.26	20.50
3GPP Rel 6	HSUPA Subtest-5	19.41	19.67	16.35	20.00	19.40	18.63	19.42	20.00	19.10	20.08	19.29	20.50
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	19.64	19.68	16.55	20.00	19.50	18.74	19.44	20.00	19.08	20.05	20.63	21.00
Attenuator			Cable Loss	0.8			Cable Loss	0.8			Cable Loss	0.6	
Mode			Max.	20.96			Max.	20.34			Max.	21.66	



3	16QAM	1	0	20.80	20.81	20.60	21.5
3	16QAM	1	8	20.60	20.63	20.49	
3	16QAM	1	14	20.39	20.41	20.32	
3	16QAM	8	0	19.46	19.31	19.26	20
3	16QAM	8	4	19.30	19.17	19.11	
3	16QAM	8	7	19.13	19.01	18.97	
3	16QAM	15	0	19.46	19.28	19.08	20
3	64QAM	1	0	19.45	19.39	19.17	
3	64QAM	1	8	19.28	19.24	19.09	
3	64QAM	1	14	19.14	19.05	19.01	19
3	64QAM	8	0	18.50	18.62	18.37	
3	64QAM	8	4	18.29	18.51	18.33	
3	64QAM	8	7	18.67	18.78	18.59	19
3	64QAM	15	0	18.55	18.59	18.42	
Channel				18607	18900	19193	
Frequency (MHz)				1850.7	1880	1909.3	22
1.4	QPSK	1	0	21.22	21.33	21.16	
1.4	QPSK	1	3	21.05	21.20	20.97	
1.4	QPSK	1	5	20.90	20.96	20.89	
1.4	QPSK	3	0	20.20	20.07	20.00	
1.4	QPSK	3	1	19.97	19.94	19.92	
1.4	QPSK	3	3	19.87	19.85	19.90	
1.4	QPSK	6	0	20.18	20.09	20.03	20.5
1.4	16QAM	1	0	20.77	20.78	20.57	21.5
1.4	16QAM	1	3	20.57	20.60	20.46	
1.4	16QAM	1	5	20.36	20.38	20.29	
1.4	16QAM	3	0	19.43	19.28	19.23	20
1.4	16QAM	3	1	19.27	19.14	19.08	
1.4	16QAM	3	3	19.10	18.98	18.94	
1.4	16QAM	6	0	19.43	19.25	19.05	20
1.4	64QAM	1	0	19.42	19.36	19.14	
1.4	64QAM	1	3	19.25	19.21	19.06	
1.4	64QAM	1	5	19.11	19.02	18.98	20
1.4	64QAM	3	0	18.47	18.59	18.34	
1.4	64QAM	3	1	18.26	18.48	18.30	
1.4	64QAM	3	3	18.64	18.75	18.56	19
1.4	64QAM	6	0	18.52	18.56	18.39	

3	16QAM	1	0	20.30	20.36	20.29	21
3	16QAM	1	8	20.02	20.07	20.14	
3	16QAM	1	14	19.90	19.93	20.01	
3	16QAM	8	0	19.07	19.08	19.04	20
3	16QAM	8	4	18.92	18.95	18.96	
3	16QAM	8	7	18.82	18.86	18.83	
3	16QAM	15	0	19.10	19.07	19.08	20
3	64QAM	1	0	19.22	19.34	19.13	
3	64QAM	1	8	19.06	19.20	19.09	
3	64QAM	1	14	19.02	19.01	19.05	20
3	64QAM	8	0	19.10	19.23	19.02	
3	64QAM	8	4	19.01	19.14	18.93	
3	64QAM	8	7	18.91	19.06	18.83	20
3	64QAM	15	0	19.12	19.21	18.97	
Channel				19957	20175	20393	
Frequency (MHz)				1710.7	1732.5	1754.3	22
1.4	QPSK	1	0	21.06	21.11	21.09	
1.4	QPSK	1	3	20.90	20.92	20.94	
1.4	QPSK	1	5	20.62	20.71	20.66	
1.4	QPSK	3	0	19.95	20.03	20.00	
1.4	QPSK	3	1	19.86	19.94	19.91	
1.4	QPSK	3	3	19.77	19.87	19.86	
1.4	QPSK	6	0	20.01	20.02	20.11	21
1.4	16QAM	1	0	20.30	20.36	20.29	21
1.4	16QAM	1	3	20.02	20.07	20.14	
1.4	16QAM	1	5	19.90	19.93	20.01	
1.4	16QAM	3	0	19.07	19.08	19.04	20
1.4	16QAM	3	1	18.92	18.95	18.96	
1.4	16QAM	3	3	18.82	18.86	18.83	
1.4	16QAM	6	0	19.10	19.07	19.08	20
1.4	16QAM	1	0	19.22	19.34	19.13	
1.4	16QAM	1	3	19.06	19.20	18.97	
1.4	16QAM	1	5	18.92	19.01	18.90	20
1.4	16QAM	3	0	19.10	19.23	19.02	
1.4	16QAM	3	1	19.01	19.14	18.93	
1.4	16QAM	3	3	18.91	19.06	18.83	20
1.4	16QAM	6	0	19.12	19.21	18.97	



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	22.58	22.65	22.54	23
10	QPSK	1	25	22.35	22.43	22.34	
10	QPSK	1	49	22.23	22.27	22.21	
10	QPSK	25	0	21.59	21.64	21.60	22
10	QPSK	25	12	21.43	21.59	21.53	
10	QPSK	25	25	21.37	21.44	21.41	
10	QPSK	50	0	21.61	21.62	21.52	22
10	16QAM	1	0	21.89	21.85	21.90	
10	16QAM	1	25	21.76	21.73	21.82	
10	16QAM	1	49	21.66	21.63	21.75	21
10	16QAM	25	0	20.61	20.62	20.56	
10	16QAM	25	12	20.43	20.52	20.41	
10	16QAM	25	25	20.26	20.32	20.24	21
10	16QAM	50	0	20.57	20.51	20.54	
10	64QAM	1	0	20.71	20.79	20.63	
10	64QAM	1	25	20.53	20.65	20.49	21
10	64QAM	1	49	20.41	20.53	20.37	
10	64QAM	25	0	19.76	19.85	19.74	
10	64QAM	25	12	19.64	19.73	19.61	20
10	64QAM	25	25	19.41	19.52	19.43	
10	64QAM	50	0	19.87	19.93	19.78	
Channel				23035	23095	23155	
Frequency (MHz)				701.5	707.5	713.5	
5	QPSK	1	0	22.52	22.59	22.48	23
5	QPSK	1	12	22.29	22.37	22.31	
5	QPSK	1	24	22.17	22.21	22.15	
5	QPSK	12	0	21.53	21.58	21.54	22
5	QPSK	12	7	21.37	21.53	21.47	
5	QPSK	12	13	21.31	21.38	21.35	
5	QPSK	25	0	21.55	21.44	21.46	22
5	16QAM	1	0	21.83	21.79	21.84	
5	16QAM	1	12	21.70	21.67	21.76	
5	16QAM	1	24	21.60	21.57	21.69	21
5	16QAM	12	0	20.55	20.56	20.50	
5	16QAM	12	7	20.37	20.46	20.35	
5	16QAM	12	13	20.20	20.26	20.18	21
5	16QAM	25	0	20.51	20.45	20.48	
5	64QAM	1	0	20.65	20.73	20.57	
5	64QAM	1	12	20.47	20.59	20.43	21
5	64QAM	1	24	20.35	20.47	20.31	
5	64QAM	12	0	19.70	19.79	19.68	
5	64QAM	12	7	19.58	19.67	19.55	20
5	64QAM	12	13	19.35	19.46	19.37	
5	64QAM	25	0	19.81	19.87	19.72	
Channel				23025	23095	23165	
Frequency (MHz)				700.5	707.5	714.5	
3	QPSK	1	0	22.55	22.62	22.51	23
3	QPSK	1	8	22.32	22.40	22.34	
3	QPSK	1	14	22.20	22.24	22.18	
3	QPSK	8	0	21.56	21.61	21.57	22
3	QPSK	8	4	21.40	21.56	21.50	
3	QPSK	8	7	21.34	21.41	21.38	
3	QPSK	15	0	21.58	21.47	21.49	22
3	16QAM	1	0	21.86	21.82	21.87	
3	16QAM	1	8	21.73	21.70	21.79	
3	16QAM	1	14	21.63	21.60	21.72	21
3	16QAM	8	0	20.58	20.59	20.53	
3	16QAM	8	4	20.40	20.49	20.38	
3	16QAM	8	7	20.23	20.29	20.21	21
3	16QAM	15	0	20.54	20.48	20.51	
3	64QAM	1	0	20.68	20.76	20.60	
3	64QAM	1	8	20.50	20.62	20.46	21
3	64QAM	1	14	20.38	20.50	20.34	
3	64QAM	8	0	19.73	19.82	19.71	
3	64QAM	8	4	19.61	19.70	19.58	20
3	64QAM	8	7	19.38	19.49	19.40	
3	64QAM	15	0	19.84	19.90	19.75	
Channel				23017	23095	23173	
Frequency (MHz)				699.7	707.5	715.3	
1.4	QPSK	1	0	22.48	22.55	22.44	23.5
1.4	QPSK	1	3	22.25	22.33	22.27	
1.4	QPSK	1	5	22.13	22.17	22.11	
1.4	QPSK	3	0	21.49	21.54	21.50	22.5
1.4	QPSK	3	1	21.33	21.49	21.43	
1.4	QPSK	3	3	21.27	21.34	21.31	
1.4	QPSK	6	0	21.51	21.40	21.42	22.5
1.4	16QAM	1	0	21.79	21.75	21.80	
1.4	16QAM	1	3	21.66	21.63	21.72	
1.4	16QAM	1	5	21.56	21.53	21.65	22.5
1.4	16QAM	3	0	20.51	20.52	20.46	
1.4	16QAM	3	1	20.33	20.42	20.31	
1.4	16QAM	3	3	20.16	20.22	20.14	21.5
1.4	16QAM	6	0	20.47	20.41	20.44	
1.4	64QAM	1	0	20.61	20.69	20.53	
1.4	64QAM	1	3	20.43	20.55	20.39	21.5
1.4	64QAM	1	5	20.31	20.43	20.27	
1.4	64QAM	3	0	19.66	19.75	19.64	
1.4	64QAM	3	1	19.54	19.63	19.51	20.5
1.4	64QAM	3	3	19.31	19.42	19.33	
1.4	64QAM	6	0	19.77	19.83	19.68	

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	22.65			23
10	QPSK	1	25	22.34			
10	QPSK	1	49	22.16			
10	QPSK	25	0	21.60			22
10	QPSK	25	12	21.56			
10	QPSK	25	25	21.43			
10	QPSK	50	0	21.57			22
10	16QAM	1	0	21.47			
10	16QAM	1	25	21.23			
10	16QAM	1	49	20.98			21
10	16QAM	25	0	20.18			
10	16QAM	25	12	20.13			
10	16QAM	25	25	20.07			21
10	16QAM	50	0	20.09			
10	64QAM	1	0	19.93			
10	64QAM	1	25	19.87			20.5
10	64QAM	1	49	19.64			
10	64QAM	25	0	18.55			
10	64QAM	25	12	18.43			19
10	64QAM	25	25	18.37			
10	64QAM	50	0	18.45			
Channel				23205	23230	23255	
Frequency (MHz)				779.5	782	784.5	
5	QPSK	1	0	22.63	22.25	22.29	23
5	QPSK	1	12	22.45	22.24	22.23	
5	QPSK	1	24	22.28	22.21	22.18	
5	QPSK	12	0	21.34	21.55	21.16	22
5	QPSK	12	7	21.31	21.43	21.15	
5	QPSK	12	13	21.29	21.21	21.14	
5	QPSK	25	0	21.16	21.15	21.23	22
5	16QAM	1	0	21.55	21.39	21.36	
5	16QAM	1	12	21.38	21.35	21.28	
5	16QAM	1	24	21.34	21.28	21.19	21
5	16QAM	12	0	20.19	20.09	20.23	
5	16QAM	12	7	20.15	19.98	20.19	
5	16QAM	12	13	20.08	19.79	20.08	21
5	16QAM	25	0	20.21	20.13	20.25	
5	64QAM	1	0	20.23	20.12	20.19	
5	64QAM	1	12	20.21	20.09	20.15	21
5	64QAM	1	24	20.18	20.05	20.17	
5	64QAM	12	0	19.97	19.98	19.89	
5	64QAM	12	7	19.89	19.76	19.72	20.5
5	64QAM	12	13	19.65	19.69	19.52	
5	64QAM	25	0	19.56	19.53	19.46	

Band 14 (700MHz Band)							
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				23330			
Frequency (MHz)				793			
10	QPSK	1	0	22.54			23
10	QPSK	1	25	22.31			
10	QPSK	1	49	21.97			
10	QPSK	25	0	21.16			22
10	QPSK	25	12	21.14			
10	QPSK	25	25	21.11			
10	QPSK	50	0	21.09			22
10	16QAM	1	0	21.53			
10	16QAM	1	25	21.38			
10	16QAM	1	49	21.15			21
10	16QAM	25	0	20.12			
10	16QAM	25	12	20.08			
10	16QAM	25	25	19.97			21
10	16QAM	50	0	19.83			
10	64QAM	1	0	20.17			
10	64QAM	1	25	20.03			21
10	64QAM	1	49	19.95			
10	64QAM	25	0	19.12			
10	64QAM	25	12	18.97			20
10	64QAM	25	25	18.83			
10	64QAM	50	0	19.09			
Channel				23305	23330	23355	
Frequency (MHz)				790.5	793	795.5	
5	QPSK	1	0	22.41	22.50	22.34	23
5	QPSK	1	12	22.33	22.35	22.21	
5	QPSK	1	24	22.15	22.18	22.17	
5	QPSK	12	0	21.28	21.16	21.17	22
5	QPSK	12	7	21.15	21.12	21.13	
5	QPSK	12	13	21.14	21.10	21.09	
5	QPSK	25	0	21.17	21.11	21.01	22
5	16QAM	1	0	21.48	21.51	21.29	
5	16QAM	1	12	21.29	21.35	21.20	
5	16QAM	1	24	21.18	21.23	21.18	21
5	16QAM	12	0	20.13	20.17	20.19	
5	16QAM	12	7	20.08	20.09	20.12	
5	16QAM	12	13	20.06	20.02	20.09	21
5	16QAM	25	0	20.16	20.25	20.15	
5	64QAM	1	0	20.12	20.15	20.19	
5	64QAM	1	12	20.08	20.12	20.14	21
5	64QAM	1	24	20.02	20.09	20.07	
5	64QAM	12	0	19.98	19.76	19.83	
5	64QAM	12	7	19.75	19.68	19.69	20.5
5	64QAM	12	13	19.63	19.51	19.53	
5	64QAM	25	0	19.49	19.45	19.47	

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	22.74	22.78	22.60	23.5
10	QPSK	1	25	22.56	22.62	22.41	
10	QPSK	1	49	22.37	22.46	22.35	
10	QPSK	25	0	21.53	21.57	21.52	22.5
10	QPSK	25	12	21.24	21.35	21.22	
10	QPSK	25	25	21.18	21.24	21.08	
10	QPSK	50	0	21.52	21.53	21.51	22.5
10	16QAM	1	0	21.85	21.91	21.89	
10	16QAM	1	25	21.69	21.75	21.68	
10	16QAM	1	49	21.46	21.63	21.55	21.5
10	16QAM	25	0	20.56	20.61	20.55	
10	16QAM	25	12	20.43	20.55	20.37	
10	16QAM	25	25	20.27	20.38	20.24	21.5
10	16QAM	50	0	20.53	20.63	20.59	
10	64QAM	1	0	20.71	20.83	20.65	
10	64QAM	1	25	20.53	20.61	20.44	21.5
10	64QAM	1	49	20.41	20.45	20.38	
10	64QAM	25	0	19.63	19.81	19.55	
10	64QAM	25	12	19.51	19.65	19.41	20.5
10	64QAM	25	25	19.39	19.43	19.34	
10	64QAM	50	0	19.66	19.78	19.62	
Channel				23755	23790	23825	
Frequency (MHz)				706.5	710	713.5	
5	QPSK	1	0	22.68	22.72	22.54	23.5
5	QPSK	1	12	22.50	22.56	22.35	
5	QPSK	1	24	22.31	22.40	22.29	
5	QPSK	12	0	21.47	21.41	21.46	22.5
5	QPSK	12	7	21.18	21.29	21.16	
5	QPSK	12	13	21.12	21.18	21.02	
5	QPSK	25	0	21.46	21.47	21.45	22.5
5	16QAM	1	0	21.79	21.85	21.83	
5	16QAM	1	12	21.63	21.69	21.62	
5	16QAM	1	24	21.40	21.57	21.49	21.5
5	16QAM	12	0	20.50	20.55	20.49	
5	16QAM	12	7	20.37	20.49	20.31	
5	16QAM	12	13	20.21	20.32	20.18	21.5
5	16QAM	25	0	20.47	20.57	20.53	
5	64QAM	1	0	20.65	20.77	20.59	
5	64QAM	1	12	20.47	20.55	20.38	21.5
5	64QAM	1	24	20.35	20.39	20.32	
5	64QAM	12	0	19.57	19.75	19.49	
5	64QAM	12	7	19.45	19.59	19.35	20.5
5	64QAM	12	13	19.33	19.37	19.28	
5	64QAM	25	0	19.60	19.72	19.56	





3	16QAM	1	0	20.38	20.69	20.60	21.5
3	16QAM	1	8	20.27	20.50	20.47	
3	16QAM	1	14	20.19	20.41	20.33	
3	16QAM	8	0	19.70	19.32	19.29	20.5
3	16QAM	8	4	19.65	19.30	19.25	
3	16QAM	8	7	19.58	19.27	19.20	
3	16QAM	15	0	19.60	19.34	19.22	20
3	16QAM	1	0	19.54	19.25	19.30	
3	16QAM	1	8	19.45	19.13	19.21	
3	16QAM	1	14	19.28	19.10	19.08	19
3	16QAM	8	0	18.44	18.13	18.14	
3	16QAM	8	4	18.23	18.06	18.09	
3	16QAM	8	7	18.08	18.01	18.00	19
3	16QAM	15	0	18.41	18.09	17.95	
Channel				26047	26365	26683	
Frequency (MHz)				1850.7	1882.5	1914.3	
1.4	QPSK	1	0	21.30	21.62	21.29	22.5
1.4	QPSK	1	3	21.25	21.60	21.25	
1.4	QPSK	1	5	21.24	21.56	21.21	
1.4	QPSK	3	0	20.62	20.33	20.20	
1.4	QPSK	3	1	20.54	20.26	20.15	
1.4	QPSK	3	3	20.48	20.22	20.13	
1.4	QPSK	6	0	20.43	20.33	19.98	21.5
1.4	16QAM	1	0	20.32	20.63	20.54	21.5
1.4	16QAM	1	3	20.21	20.44	20.41	
1.4	16QAM	1	5	20.13	20.35	20.27	
1.4	16QAM	3	0	19.64	19.26	19.23	
1.4	16QAM	3	1	19.59	19.24	19.19	
1.4	16QAM	3	3	19.52	19.21	19.14	
1.4	16QAM	6	0	19.54	19.28	19.16	20.5
1.4	16QAM	1	0	19.48	19.19	19.24	20.5
1.4	16QAM	1	3	19.39	19.07	19.15	
1.4	16QAM	1	5	19.22	19.04	19.02	
1.4	16QAM	3	0	18.38	18.07	18.08	
1.4	16QAM	3	1	18.17	18.00	18.03	
1.4	16QAM	3	3	18.02	17.95	17.94	
1.4	16QAM	6	0	18.35	18.03	17.89	19

1.4	16QAM	1	0	21.74	21.73	21.70	22
1.4	16QAM	1	3	21.63	21.66	21.61	
1.4	16QAM	1	5	21.46	21.55	21.52	
1.4	16QAM	3	0	20.30	20.40	20.31	
1.4	16QAM	3	1	20.19	20.28	20.19	
1.4	16QAM	3	3	20.06	20.12	20.08	
1.4	16QAM	6	0	20.36	20.35	20.25	21
1.4	16QAM	1	0	20.70	20.78	20.61	21
1.4	16QAM	1	3	20.64	20.71	20.54	
1.4	16QAM	1	5	20.50	20.58	20.45	
1.4	16QAM	3	0	19.24	19.28	19.19	
1.4	16QAM	3	1	19.05	19.11	19.02	
1.4	16QAM	3	3	18.98	19.03	18.95	
1.4	16QAM	6	0	18.93	18.96	18.90	19.5



3	16QAM	1	0	20.53	20.72	20.80	21
3	16QAM	1	8	20.39	20.51	20.62	
3	16QAM	1	14	20.31	20.35	20.43	
3	16QAM	8	0	19.09	19.24	19.40	20
3	16QAM	8	4	19.02	19.07	19.14	
3	16QAM	8	7	18.96	18.96	19.00	
3	16QAM	15	0	19.00	19.17	19.34	20
3	64QAM	1	0	19.19	19.44	19.39	
3	64QAM	1	8	19.11	19.30	19.18	
3	64QAM	1	14	19.03	19.12	19.04	18.5
3	64QAM	8	0	17.92	17.94	17.97	
3	64QAM	8	4	17.81	17.66	17.75	
3	64QAM	8	7	17.88	17.51	17.58	
3	64QAM	15	0	17.80	17.93	18.13	
Channel				1319.9	1323.22	1326.65	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	21.05	21.35	21.11	22
1.4	QPSK	1	3	20.96	21.27	21.04	
1.4	QPSK	1	5	20.95	21.18	20.98	
1.4	QPSK	3	0	19.98	20.14	20.30	
1.4	QPSK	3	1	19.97	20.06	20.17	
1.4	QPSK	3	3	19.94	19.99	20.06	
1.4	QPSK	6	0	20.01	20.10	20.28	21
1.4	16QAM	1	0	20.50	20.69	20.77	21
1.4	16QAM	1	3	20.36	20.48	20.59	
1.4	16QAM	1	5	20.28	20.32	20.40	
1.4	16QAM	3	0	19.06	19.21	19.37	
1.4	16QAM	3	1	18.99	19.04	19.11	
1.4	16QAM	3	3	18.93	18.95	18.97	
1.4	16QAM	6	0	18.97	19.14	19.31	20
1.4	64QAM	1	0	19.16	19.41	19.36	20
1.4	64QAM	1	3	19.08	19.27	19.15	
1.4	64QAM	1	5	19.00	19.09	19.01	
1.4	64QAM	3	0	17.89	17.91	17.94	
1.4	64QAM	3	1	17.78	17.63	17.72	
1.4	64QAM	3	3	17.65	17.48	17.53	
1.4	64QAM	6	0	17.77	17.90	18.10	18.5



## Band 48 (3.5G Band)

Channel	Power Low Ch. / Freq.	Middle-Low Channel	High Channel	Tune-up limit (dBm)
Channel				
Frequency (MHz)				
20	QPSK	1	0	24
20	QPSK	1	49	24
20	QPSK	1	99	24
20	QPSK	50	0	23
20	QPSK	50	24	23
20	QPSK	50	50	23
20	QPSK	100	0	22
20	16QAM	1	0	23
20	16QAM	1	49	23
20	16QAM	1	99	23
20	16QAM	50	0	22
20	16QAM	50	24	22
20	16QAM	50	50	22
20	16QAM	100	0	21
20	64QAM	1	0	21
20	64QAM	1	49	21
20	64QAM	1	99	21
20	64QAM	50	0	21
20	64QAM	50	24	21
20	64QAM	50	50	21
20	64QAM	100	0	21
Channel				
Frequency (MHz)				
15	QPSK	1	0	24
15	QPSK	1	37	24
15	QPSK	1	74	24
15	QPSK	36	0	23
15	QPSK	36	20	23
15	QPSK	36	39	23
15	QPSK	75	0	23
15	16QAM	1	0	22
15	16QAM	1	37	22
15	16QAM	1	74	22
15	16QAM	36	0	22
15	16QAM	36	20	22
15	16QAM	36	39	22
15	16QAM	75	0	21
15	64QAM	1	0	21
15	64QAM	1	37	21
15	64QAM	1	74	21
15	64QAM	36	0	21
15	64QAM	36	20	21
15	64QAM	36	39	21
15	64QAM	75	0	21
Channel				
Frequency (MHz)				
10	QPSK	1	0	24
10	QPSK	1	25	24
10	QPSK	1	49	24
10	QPSK	25	0	23
10	QPSK	25	12	23
10	QPSK	25	25	23
10	QPSK	50	0	23
10	16QAM	1	0	21
10	16QAM	1	25	21
10	16QAM	1	49	21
10	16QAM	25	0	21
10	16QAM	25	12	21
10	16QAM	25	25	21
10	16QAM	50	0	20
10	64QAM	1	0	20
10	64QAM	1	25	20
10	64QAM	1	49	20
10	64QAM	25	0	20
10	64QAM	25	12	20
10	64QAM	25	25	20
10	64QAM	50	0	20
Channel				
Frequency (MHz)				
5	QPSK	1	0	23.5
5	QPSK	1	12	23.5
5	QPSK	1	24	23.5
5	QPSK	12	0	22.5
5	QPSK	12	7	22.5
5	QPSK	12	13	22.5
5	QPSK	25	0	22.5
5	16QAM	1	0	21.5
5	16QAM	1	12	21.5
5	16QAM	1	24	21.5
5	16QAM	12	0	21.5
5	16QAM	12	7	21.5
5	16QAM	12	13	21.5
5	16QAM	25	0	21.5
5	64QAM	1	0	20.5
5	64QAM	1	12	20.5
5	64QAM	1	24	20.5
5	64QAM	12	0	20.5
5	64QAM	12	7	20.5
5	64QAM	12	13	20.5
5	64QAM	25	0	20.5

CA Full Power											
CA_7C Combination:20MHz+20MHz(100RB+100RB)											
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up Power(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
20850	20850	21048	QPSK	1	0	100	0	1	0	20.01	20.5
21100	21001	21199	QPSK	1	0	100	0	1	0	19.92	20.5
21350	21152	21350	QPSK	1	0	100	0	1	0	19.82	20.5
20850	20850	21048	16QAM	1	0	100	0	1	0	19.14	20.0
21100	21001	21199	16QAM	1	0	100	0	1	0	19.11	20.0
21350	21152	21350	16QAM	1	0	100	0	1	0	19.05	20.0
20850	20850	21048	64QAM	1	0	100	0	1	0	18.24	19.0
21100	21001	21199	64QAM	1	0	100	0	1	0	18.02	19.0
21350	21152	21350	64QAM	1	0	100	0	1	0	18.05	19.0

CA_41C Combination:20MHz+20MHz(100RB+100RB)											
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Tune-up Power(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
39750	39750	39948	QPSK	1	0	100	0	1	0	20.44	21.0
40620	40521	40719	QPSK	1	0	100	0	1	0	20.12	21.0
41490	41292	41490	QPSK	1	0	100	0	1	0	20.64	21.0
39750	39750	39948	16QAM	1	0	100	0	1	0	19.21	20.0
40620	40521	40719	16QAM	1	0	100	0	1	0	19.18	20.0
41490	41292	41490	16QAM	1	0	100	0	1	0	19.34	20.0
39750	39750	39948	64QAM	1	0	100	0	1	0	19.45	19.0
40620	40521	40719	64QAM	1	0	100	0	1	0	18.24	19.0
41490	41292	41490	64QAM	1	0	100	0	1	0	18.44	19.0

CA_48C Combination:20MHz+20MHz(100RB+100RB)											
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)	Measured Power(dBm)
				RB Size	RB Offset	RB Size	RB Offset				
55340	55340	55538	QPSK	1	0	100	0	1	0	18.9	19.5
55990	55891	56089	QPSK	1	0	100	0	1	0	19.13	20.0
56640	56442	56640	QPSK	1	0	100	0	1	0	19.36	20.0
55340	55340	55538	16QAM	1	0	100	0	1	0	16.22	17.0
55990	55891	56089	16QAM	1	0	100	0	1	0	16.52	17.0
56640	56442	56640	16QAM	1	0	100	0	1	0	16.55	17.0
55340	55340	55538	64QAM	1	0	100	0	1	0	15.98	17.0
55990	55891	56089	64QAM	1	0	100	0	1	0	16.72	17.0
56640	56442	56640	64QAM	1	0	100	0	1	0	16.49	17.0

**2.4GHz WLAN ANT 0**

Mode	Channel	Frequency (MHz)	Average power (dBm)	Time-Up Limit	Power Setting	Duty Cycle %
802.11a 1Mbps	CH 1	2412	13.43	14.0	13	99.28
	CH 6	2437	13.14	14.0	13	
	CH 11	2462	13.36	14.0	13	
802.11g 6Mbps	CH 1	2412	13.02	14.0	13	95.59
	CH 6	2437	12.34	13.0	13	
	CH 11	2462	12.32	13.0	13	
802.11n-HT20 MCS0	CH 1	2412	12.82	13.0	13	95.07
	CH 6	2437	12.14	13.0	13	
	CH 11	2462	12.04	13.0	13	
802.11n-HT40 MCS0	CH 3	2403	13.25	14.0	13	99.48
	CH 9	2437	10.87	11.5	13	
	CH 9	2462	10.96	11.0	13	

**5GHz WLAN ANT 0**

Mode	Channel	Frequency (MHz)	Average power (dBm)	Time-Up Limit	Power Setting	Duty Cycle %
802.11a 6Mbps	CH 36	5180	12.11	13.0	13	95.83
	CH 44	5220	12.25	13.0	13	
	CH 48	5240	12.27	13.0	13	
802.11n-HT20 MCS0	CH 36	5180	11.37	13.0	13	95.07
	CH 44	5220	12.07	13.0	13	
	CH 48	5240	11.99	13.0	13	
802.11n-HT40 MCS0	CH 36	5180	11.29	13.0	13	92.31
	CH 46	5230	12.46	13.0	13	
	CH 48	5240	11.91	12.5	13	
802.11ac-VHT20 MCS0	CH 44	5220	11.97	12.5	13	95.10
	CH 48	5240	11.98	12.5	13	
	CH 38	5190	12.37	13.0	13	
802.11ac-VHT40 MCS0	CH 46	5230	12.44	13.0	13	99.48
	CH 42	5210	11.83	12.5	13	

**5GHz WLAN ANT 0**

Mode	Channel	Frequency (MHz)	Average power (dBm)	Time-Up Limit	Power Setting	Duty Cycle %
802.11a MCS0	CH 149	5745	15.31	16.0	13	95.83
	CH 157	5765	12.56	13.0	13	
	CH 165	5825	12.17	13.0	13	
802.11n-HT20 MCS0	CH 149	5745	15.07	15.5	13	95.07
	CH 157	5765	12.35	13.0	13	
	CH 165	5825	11.91	12.5	13	
802.11n-HT40 MCS0	CH 151	5755	16.67	16.0	13	92.31
	CH 159	5765	12.39	13.0	13	
	CH 149	5745	15.13	15.5	13	
802.11ac-VHT20 MCS0	CH 157	5765	12.46	13.0	13	95.10
	CH 165	5825	11.99	12.5	13	
	CH 151	5755	16.97	16.0	13	
802.11ac-VHT40 MCS0	CH 159	5765	12.40	13.0	13	99.48
	CH 155	5775	14.73	15.0	13	

**2.4GHz WLAN ANT 1**

Mode	Channel	Frequency (MHz)	Average power (dBm)	Time-Up Limit	Power Setting	Duty Cycle %
802.11a 1Mbps	CH 1	2412	12.55	13.5	13	99.28
	CH 6	2437	12.79	13.5	13	
	CH 11	2462	12.55	13.0	13	
802.11g 6Mbps	CH 1	2412	12.16	13.0	13	95.59
	CH 6	2437	12.19	13.0	13	
	CH 11	2462	12.07	13.0	13	
802.11n-HT20 MCS0	CH 1	2412	11.91	12.5	13	95.07
	CH 6	2437	11.95	12.5	13	
	CH 11	2462	11.83	12.5	13	
802.11n-HT40 MCS0	CH 3	2403	13.67	12.6	13	99.48
	CH 9	2437	11.52	12.0	13	
	CH 9	2462	11.07	12.0	13	

**5.2GHz WLAN ANT 1**

Mode	Channel	Frequency (MHz)	Average power (dBm)	Time-Up Limit	Power Setting	Duty Cycle %
802.11a 6Mbps	CH 38	5180	12.00	12.5	11	95.83
	CH 44	5220	12.06	12.5	11	
	CH 48	5240	12.04	12.5	11	
802.11n-HT20 MCS0	CH 38	5180	11.79	12.0	11	95.07
	CH 44	5220	11.86	12.5	11	
	CH 48	5240	11.79	12.5	11	
802.11n-HT40 MCS0	CH 38	5180	12.13	12.5	11	92.31
	CH 46	5230	12.12	12.5	11	
	CH 38	5180	11.66	12.5	11	
802.11ac-VHT20 MCS0	CH 44	5220	11.73	12.5	11	95.10
	CH 48	5240	11.72	12.5	11	
	CH 38	5180	12.10	12.5	11	
802.11ac-VHT40 MCS0	CH 46	5230	12.21	12.5	11	99.48
	CH 42	5210	10.94	11.5	11	

**5.8 WLAN ANT 1**

Mode	Channel	Frequency (MHz)	Average power (dBm)	Time-Up Limit	Power Setting	Duty Cycle %
802.11a MCS0	CH 149	5745	15.01	15.5	11	95.83
	CH 157	5765	12.68	13.0	11	
	CH 165	5825	12.26	13.0	11	
802.11n-HT20 MCS0	CH 149	5745	12.74	13.0	11	95.07
	CH 157	5765	12.39	13.0	11	
	CH 165	5825	12.27	13.0	11	
802.11n-HT40 MCS0	CH 151	5755	15.11	15.0	11	92.31
	CH 159	5765	12.70	13.0	11	
	CH 149	5745	12.67	13.0	11	
802.11ac-VHT20 MCS0	CH 157	5765	12.33	13.0	11	95.10
	CH 165	5825	12.23	13.0	11	
	CH 151	5755	16.97	16.0	11	
802.11ac-VHT40 MCS0	CH 159	5765	12.40	13.0	11	99.48
	CH 155	5775	12.49	13.0	11	

**2.4GHz WLAN ANT 0+1**

Mode	Channel	Frequency (MHz)	Average power (dBm)	Duty Cycle %
802.11a 1Mbps	CH 1	2412	N/A	N/A
	CH 6	2437	N/A	N/A
	CH 11	2462	N/A	N/A
802.11g 6Mbps	CH 1	2412	N/A	N/A
	CH 6	2437	N/A	N/A
	CH 11	2462	N/A	N/A
802.11n-HT20 MCS0	CH 1	2412	15.56	95.07
	CH 6	2437	15.31	95.07
	CH 11	2462	15.19	95.07
802.11n-HT40 MCS0	CH 3	2403	14.62	99.48
	CH 9	2437	14.62	99.48
	CH 9	2462	13.98	99.48

**5.2GHz WLAN ANT 0+1**

Mode	Channel	Frequency (MHz)	Average power (dBm)	Duty Cycle %
802.11a 6Mbps	CH 38	5180	N/A	N/A
	CH 44	5220	N/A	N/A
	CH 48	5240	N/A	N/A
802.11n-HT20 MCS0	CH 38	5180	14.91	95.07
	CH 44	5220	15.19	95.07
	CH 48	5240	15.19	95.07
802.11n-HT40 MCS0	CH 38	5180	15.56	92.31
	CH 46	5230	15.68	92.31
	CH 38	5180	15.05	95.10
802.11ac-VHT20 MCS0	CH 44	5220	15.45	95.10
	CH 48	5240	15.05	95.10
	CH 38	5180	15.68	95.10
802.11ac-VHT40 MCS0	CH 46	5230	15.80	99.48
	CH 42	5210	15.31	99.48

**5.8 WLAN ANT 0+1**

Mode	Channel	Frequency (MHz)	Average power (dBm)	Duty Cycle %
802.11a MCS0	CH 149	5745	N/A	N/A
	CH 157	5765	N/A	N/A
	CH 165	5825	N/A	N/A
802.11n-HT20 MCS0	CH 149	5745	17.32	95.07
	CH 157	5765	15.56	95.07
	CH 165	5825	15.31	95.07
802.11n-HT40 MCS0	CH 151	5755	17.76	92.31
	CH 159	5765	15.02	92.31
	CH 149	5745	17.32	92.31
802.11ac-VHT20 MCS0	CH 157	5765	15.68	95.10
	CH 165	5825	15.31	95.10
	CH 151	5755	17.99	95.10
802.11ac-VHT40 MCS0	CH 159	5765	15.23	99.48
	CH 155	5775	17.62	99.48