



REPORT No.: SZ21030417S01

Annex E Conducted Power

Full 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	23.69	23.77	23.64	24.50	23.49	23.71	23.60	24.50	23.87	23.93	23.77	24.50
3GPP Rel 6	HSDPA Subtest-1	22.74	22.82	22.80	23.50	22.75	22.77	22.75	23.50	22.92	22.95	22.87	23.50
3GPP Rel 6	HSDPA Subtest-2	22.86	23.08	22.90	23.50	22.82	22.88	22.94	23.50	22.94	22.96	22.91	23.50
3GPP Rel 6	HSDPA Subtest-3	22.22	22.34	22.28	23.00	22.28	22.29	22.26	23.00	22.81	22.46	22.38	23.00
3GPP Rel 6	HSDPA Subtest-4	22.16	22.35	22.25	23.00	22.29	22.32	22.25	23.00	22.69	22.50	22.39	23.00
3GPP Rel 8	DC-HSDPA Subtest-1	22.95	22.87	22.89	23.50	22.76	22.84	22.73	23.50	23.04	23.06	22.96	23.50
3GPP Rel 8	DC-HSDPA Subtest-2	22.93	22.87	22.93	23.50	22.76	22.82	22.80	23.50	23.04	23.06	22.97	23.50
3GPP Rel 8	DC-HSDPA Subtest-3	22.33	22.33	22.37	23.00	22.23	22.30	22.29	23.00	22.54	22.57	22.49	23.00
3GPP Rel 8	DC-HSDPA Subtest-4	22.30	22.39	22.42	23.00	22.20	22.30	22.31	23.00	22.54	22.56	22.51	23.00
3GPP Rel 6	HSUPA Subtest-1	22.85	22.93	22.81	23.50	22.77	22.95	22.74	23.50	22.94	22.89	22.99	23.50
3GPP Rel 6	HSUPA Subtest-2	22.25	22.70	22.29	23.50	22.25	22.50	22.31	23.50	22.43	22.44	22.36	23.50
3GPP Rel 6	HSUPA Subtest-3	22.74	22.87	22.75	23.50	22.73	22.80	22.75	23.50	22.94	22.98	22.95	23.50
3GPP Rel 6	HSUPA Subtest-4	22.72	22.86	22.77	23.50	22.77	22.83	22.78	23.50	22.93	22.93	22.86	23.50
3GPP Rel 6	HSUPA Subtest-5	22.68	22.87	22.80	23.50	22.80	22.93	22.74	23.50	22.89	22.93	22.98	23.50
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	22.76	22.80	22.76	23.50	22.77	22.82	22.75	23.50	22.91	22.99	22.97	23.50
Mode			Max.	23.77			Max.	23.71			Max.	23.93	

1.4	64QAM	1	3	22.35	22.43	22.43	23
1.4	64QAM	1	5	22.27	22.39	22.39	
1.4	64QAM	3	0	22.20	22.13	22.22	
1.4	64QAM	3	1	22.11	22.01	22.11	
1.4	64QAM	3	3	22.07	21.96	22.03	22.5
1.4	64QAM	6	0	22.01	21.85	21.96	
1.4	256QAM	1	0	18.52	18.57	18.50	19
1.4	256QAM	1	3	18.47	18.48	18.47	
1.4	256QAM	1	5	18.44	18.40	18.45	
1.4	256QAM	3	0	17.66	17.78	17.62	
1.4	256QAM	3	1	17.60	17.73	17.54	
1.4	256QAM	3	3	17.55	17.63	17.45	
1.4	256QAM	6	0	17.52	17.61	17.36	18

1.4	64QAM	1	3	22.65	22.49	22.41	23.5
1.4	64QAM	1	5	22.62	22.45	22.32	
1.4	64QAM	3	0	22.26	22.29	22.23	
1.4	64QAM	3	1	22.18	22.18	22.17	
1.4	64QAM	3	3	22.11	22.08	22.11	23
1.4	64QAM	6	0	22.09	21.98	22.02	
1.4	256QAM	1	0	18.59	18.66	18.63	19.5
1.4	256QAM	1	3	18.53	18.61	18.59	
1.4	256QAM	1	5	18.50	18.54	18.54	
1.4	256QAM	3	0	17.75	17.81	17.71	
1.4	256QAM	3	1	17.73	17.73	17.61	
1.4	256QAM	3	3	17.69	17.69	17.52	
1.4	256QAM	6	0	17.62	17.63	17.44	18

5	64QAM	1	12	22.32	22.49	22.40	23.5
5	64QAM	1	24	22.25	22.47	22.34	23.5
5	64QAM	12	0	22.28	22.32	22.36	
5	64QAM	12	7	22.26	22.27	22.33	
5	64QAM	12	13	22.21	22.21	22.30	
5	64QAM	25	0	22.11	22.19	22.26	19
5	256QAM	1	0	18.18	18.28	18.24	
5	256QAM	1	12	18.16	18.25	18.14	
5	256QAM	1	24	18.06	18.24	18.03	
5	256QAM	12	0	17.69	17.80	17.75	18.5
5	256QAM	12	7	17.67	17.76	17.68	
5	256QAM	12	13	17.64	17.66	17.66	
5	256QAM	25	0	17.60	17.57	17.62	
Channel				131987	132322	132657	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	23.51	23.59	23.45	24.5
3	QPSK	1	8	23.42	23.50	23.40	
3	QPSK	1	14	23.34	23.43	23.34	
3	QPSK	8	0	22.46	22.56	22.43	
3	QPSK	8	4	22.35	22.46	22.39	23.5
3	QPSK	8	7	22.31	22.40	22.30	
3	QPSK	15	0	22.26	22.31	22.29	
3	16QAM	1	0	22.50	22.54	22.52	
3	16QAM	1	8	22.43	22.51	22.44	23.5
3	16QAM	1	14	22.34	22.45	22.34	
3	16QAM	8	0	22.31	22.33	22.31	
3	16QAM	8	4	22.28	22.32	22.27	
3	16QAM	8	7	22.20	22.24	22.18	23.5
3	16QAM	15	0	22.14	22.15	22.10	
3	64QAM	1	0	22.30	22.45	22.38	
3	64QAM	1	8	22.27	22.44	22.35	
3	64QAM	1	14	22.20	22.42	22.29	23.5
3	64QAM	8	0	22.23	22.27	22.31	
3	64QAM	8	4	22.21	22.22	22.28	
3	64QAM	8	7	22.16	22.16	22.25	
3	64QAM	15	0	22.06	22.14	22.21	19
3	256QAM	1	0	18.13	18.23	18.19	
3	256QAM	1	8	18.11	18.20	18.09	
3	256QAM	1	14	18.01	18.19	17.98	
3	256QAM	8	0	17.64	17.75	17.70	18.5
3	256QAM	8	4	17.62	17.71	17.63	
3	256QAM	8	7	17.59	17.61	17.61	
3	256QAM	15	0	17.55	17.52	17.57	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	23.46	23.54	23.40	24.5
1.4	QPSK	1	3	23.37	23.45	23.35	
1.4	QPSK	1	5	23.29	23.38	23.29	
1.4	QPSK	3	0	22.51	22.56	22.38	
1.4	QPSK	3	1	22.40	22.41	22.34	23.5
1.4	QPSK	3	3	22.36	22.35	22.30	
1.4	QPSK	6	0	22.21	22.26	22.24	
1.4	16QAM	1	0	22.45	22.49	22.47	
1.4	16QAM	1	3	22.38	22.46	22.39	23.5
1.4	16QAM	1	5	22.29	22.40	22.29	
1.4	16QAM	3	0	22.26	22.28	22.26	
1.4	16QAM	3	1	22.23	22.27	22.22	
1.4	16QAM	3	3	22.15	22.19	22.13	23.5
1.4	16QAM	6	0	22.09	22.10	22.05	
1.4	64QAM	1	0	22.25	22.40	22.33	
1.4	64QAM	1	3	22.22	22.39	22.30	
1.4	64QAM	1	5	22.15	22.37	22.24	23.5
1.4	64QAM	3	0	22.18	22.22	22.26	
1.4	64QAM	3	1	22.16	22.17	22.23	
1.4	64QAM	3	3	22.11	22.11	22.20	
1.4	64QAM	6	0	22.01	22.09	22.16	23.5
1.4	256QAM	1	0	18.08	18.18	18.14	19
1.4	256QAM	1	3	18.06	18.15	18.04	
1.4	256QAM	1	5	17.96	18.14	17.93	
1.4	256QAM	3	0	17.59	17.70	17.65	
1.4	256QAM	3	1	17.57	17.66	17.58	18.5
1.4	256QAM	3	3	17.54	17.56	17.56	
1.4	256QAM	6	0	17.50	17.47	17.52	18.5

Band 48 (Full Power)

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Middle-Low Channel	Middle-Low Channel	Middle-High Channel	High Channel	Tune-up limit (dBm)
Channel				55340	55830	55990	56150	56640	
Frequency (MHz)				3560	3609	3625	3641	3690	
20	QPSK	1	0	23.31	23.27	23.41	23.34	23.31	24
20	QPSK	1	49	23.13	23.15	23.21	23.16	23.08	
20	QPSK	1	99	23.10	23.06	23.00	23.18	23.19	
20	QPSK	50	0	22.20	22.21	22.31	22.26	22.19	23
20	QPSK	50	24	22.10	22.15	22.15	22.16	22.17	
20	QPSK	50	50	22.16	22.12	22.26	22.06	22.13	
20	QPSK	100	0	22.13	22.16	22.12	22.21	22.03	23
20	16QAM	1	0	22.31	22.19	22.21	22.11	22.26	
20	16QAM	1	49	22.18	22.06	22.06	22.26	22.17	
20	16QAM	1	99	22.20	22.21	22.10	22.07	22.09	22.5
20	16QAM	50	0	22.15	22.19	22.13	22.00	21.90	
20	16QAM	50	24	22.09	22.10	22.05	21.98	21.93	
20	16QAM	50	50	22.01	22.03	22.18	22.17	22.06	22.5
20	16QAM	100	0	22.12	22.21	22.23	22.18	22.03	
20	64QAM	1	0	22.40	22.35	22.28	22.35	22.21	
20	64QAM	1	49	22.37	22.24	22.45	22.21	22.20	22
20	64QAM	1	99	22.30	22.50	22.39	22.30	22.18	
20	64QAM	50	0	21.34	21.46	21.62	21.50	21.44	
20	64QAM	50	24	21.36	21.18	21.22	21.22	21.54	22
20	64QAM	50	50	21.42	21.33	21.20	21.06	21.33	
20	64QAM	100	0	21.22	21.12	21.33	21.34	21.21	
20	256QAM	1	0	17.55	17.33	17.32	17.41	17.62	18
20	256QAM	1	49	17.36	17.21	17.40	17.68	17.30	
20	256QAM	1	99	17.26	17.55	17.42	17.51	17.42	
20	256QAM	50	0	17.21	17.11	17.21	17.36	17.21	17.5
20	256QAM	50	24	17.15	17.20	17.12	17.02	17.11	
20	256QAM	50	50	17.11	17.09	17.26	16.88	17.21	
20	256QAM	100	0	16.89	17.02	16.95	17.00	17.30	Tune-up limit (dBm)
Channel				55315	55415	55735	56055	56765	
Frequency (MHz)				3557.5	3557.5	3589.5	3621.5	3692.5	
15	QPSK	1	0	23.20	23.16	23.30	23.23	23.20	24
15	QPSK	1	37	23.02	23.04	23.10	23.05	22.97	
15	QPSK	1	74	22.99	22.95	22.89	23.07	23.08	
15	QPSK	36	0	22.09	22.10	22.20	22.15	22.08	23
15	QPSK	36	20	21.99	22.04	22.04	22.05	22.06	
15	QPSK	36	39	22.05	22.01	22.15	21.95	22.02	
15	QPSK	75	0	22.02	22.05	22.01	22.10	21.92	23
15	16QAM	1	0	22.20	22.08	22.10	22.00	22.15	
15	16QAM	1	37	22.07	21.95	21.95	22.15	22.06	
15	16QAM	1	74	22.09	22.10	21.99	21.96	21.98	22.5
15	16QAM	36	0	22.04	22.08	22.02	21.89	21.79	
15	16QAM	36	20	21.98	21.99	21.94	21.87	21.82	
15	16QAM	36	39	21.90	21.92	22.07	22.06	21.95	22.5
15	16QAM	75	0	22.01	22.10	22.12	22.07	21.92	
15	64QAM	1	0	22.29	22.24	22.17	22.24	22.10	
15	64QAM	1	37	22.26	22.13	22.34	22.10	22.09	22
15	64QAM	1	74	22.19	22.39	22.28	22.19	22.07	
15	64QAM	36	0	21.23	21.35	21.51	21.39	21.33	
15	64QAM	36	20	21.25	21.07	21.11	21.11	21.43	22
15	64QAM	36	39	21.31	21.22	21.09	20.95	21.22	
15	64QAM	75	0	21.11	21.01	21.22	21.23	21.10	
15	256QAM	1	0	17.44	17.22	17.21	17.30	17.51	18
15	256QAM	1	37	17.25	17.10	17.29	17.57	17.19	
15	256QAM	1	74	17.15	17.44	17.31	17.40	17.31	
15	256QAM	36	0	17.10	17.00	17.10	17.25	17.10	17.5
15	256QAM	36	20	17.04	17.09	17.01	16.91	17.00	
15	256QAM	36	39	17.00	16.98	17.15	16.77	17.10	
15	256QAM	75	0	16.78	16.91	16.84	16.89	17.19	

Channel				55290	55390	55710	56030	56790	Tune-up limit (dBm)
Frequency (MHz)				3555	3555	3587	3619	3695	
10	QPSK	1	0	23.08	23.04	23.18	23.11	23.08	24
10	QPSK	1	25	22.90	22.92	22.98	22.93	22.85	
10	QPSK	1	49	22.87	22.83	22.77	22.95	22.96	
10	QPSK	25	0	21.97	21.98	22.08	22.03	21.96	23
10	QPSK	25	12	21.87	21.92	21.92	21.93	21.94	
10	QPSK	25	25	21.93	21.89	22.03	21.83	21.90	
10	QPSK	50	0	21.90	21.93	21.89	21.98	21.80	23
10	16QAM	1	0	22.08	21.96	21.98	21.88	22.03	
10	16QAM	1	25	21.95	21.83	21.83	22.03	21.94	
10	16QAM	1	49	21.97	21.98	21.87	21.84	21.86	22.5
10	16QAM	25	0	21.92	21.96	21.90	21.77	21.67	
10	16QAM	25	12	21.86	21.87	21.82	21.75	21.70	
10	16QAM	25	25	21.78	21.80	21.95	21.94	21.83	22.5
10	16QAM	50	0	21.89	21.98	22.00	21.95	21.80	
10	64QAM	1	0	22.17	22.12	22.05	22.12	21.98	
10	64QAM	1	25	22.14	22.01	22.22	21.98	21.97	22.5
10	64QAM	1	49	22.07	22.27	22.16	22.07	21.95	
10	64QAM	25	0	21.11	21.23	21.39	21.27	21.21	
10	64QAM	25	12	21.13	20.95	20.99	20.99	21.31	22
10	64QAM	25	25	21.19	21.10	20.97	20.83	21.10	
10	64QAM	50	0	20.99	20.89	21.10	21.11	20.98	
10	256QAM	1	0	17.32	17.10	17.09	17.18	17.39	18
10	256QAM	1	25	17.13	16.98	17.17	17.45	17.07	
10	256QAM	1	49	17.03	17.32	17.19	17.28	17.19	
10	256QAM	25	0	16.98	16.88	16.98	17.13	16.98	17.5
10	256QAM	25	12	16.92	16.97	16.89	16.79	16.88	
10	256QAM	25	25	16.88	16.86	17.03	16.65	16.98	
10	256QAM	50	0	16.66	16.79	16.72	16.77	17.07	
Channel				55265	55365	55685	56005	56815	Tune-up limit (dBm)
Frequency (MHz)				3552.5	3552.5	3584.5	3616.5	3697.5	
5	QPSK	1	0	22.96	22.92	23.06	22.99	22.96	23.5
5	QPSK	1	12	22.78	22.80	22.86	22.81	22.73	
5	QPSK	1	24	22.75	22.71	22.65	22.83	22.84	
5	QPSK	12	0	21.85	21.86	21.96	21.91	21.84	22.5
5	QPSK	12	7	21.75	21.80	21.80	21.81	21.82	
5	QPSK	12	13	21.81	21.77	21.91	21.71	21.78	
5	QPSK	25	0	21.78	21.81	21.77	21.86	21.68	22.5
5	16QAM	1	0	21.96	21.84	21.86	21.76	21.91	
5	16QAM	1	12	21.83	21.71	21.71	21.91	21.82	
5	16QAM	1	24	21.85	21.86	21.75	21.72	21.74	22.5
5	16QAM	12	0	21.80	21.84	21.78	21.65	21.55	
5	16QAM	12	7	21.74	21.75	21.70	21.63	21.58	
5	16QAM	12	13	21.66	21.68	21.83	21.82	21.71	22.5
5	16QAM	25	0	21.77	21.86	21.88	21.83	21.68	
5	64QAM	1	0	22.05	22.00	21.93	22.00	21.86	
5	64QAM	1	12	22.02	21.89	22.10	21.86	21.85	22.5
5	64QAM	1	24	21.95	22.15	22.04	21.95	21.83	
5	64QAM	12	0	20.99	21.11	21.27	21.15	21.09	
5	64QAM	12	7	21.01	20.83	20.87	20.87	21.19	21.5
5	64QAM	12	13	21.07	20.98	20.85	20.71	20.98	
5	64QAM	25	0	20.87	20.77	20.98	20.99	20.86	
5	256QAM	1	0	17.20	16.98	16.97	17.06	17.27	18
5	256QAM	1	12	17.01	16.86	17.05	17.33	16.95	
5	256QAM	1	24	16.91	17.20	17.07	17.16	17.07	
5	256QAM	12	0	16.86	16.76	16.86	17.01	16.86	17.5
5	256QAM	12	7	16.80	16.85	16.77	16.67	16.76	
5	256QAM	12	13	16.76	16.74	16.91	16.53	16.86	
5	256QAM	25	0	16.54	16.67	16.60	16.65	16.95	

n2 (Full Power)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				372000	376000	380000.00	
Frequency (MHz)				1860	1880	1900.00	
20	DFT-s-OFDM PI/2 BPSK	1	1	23.54	23.45	23.27	24.00
20		1	53	23.58	23.33	22.71	
20		1	104	23.61	23.18	23.26	
20		50	1	23.72	23.51	22.73	24.00
20		50	25	23.68	23.48	23.68	
20		50	50	23.66	23.68	23.78	
20		100	0	23.18	23.26	23.76	
20	DFT-s-OFDM QPSK	1	1	23.74	24.01	23.82	24.50
20		1	53	23.69	23.77	23.19	
20		1	104	23.64	23.65	23.37	
20		50	1	23.50	23.58	23.47	24.00
20		50	25	23.49	23.27	23.42	
20		50	50	23.24	23.47	23.33	
20		100	0	23.11	23.29	23.25	
20	DFT-s-OFDM 16QAM	1	1	20.83	20.99	21.66	23.00
20	DFT-s-OFDM 64QAM	1	1	20.06	20.08	20.68	21.20
20	DFT-s-OFDM 256QAM	1	1	19.02	19.89	19.67	19.50
Channel				3715000	376000	380500.00	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.50	
15	DFT-s-OFDM QPSK	1	1	23.51	23.53	23.59	24.00
Channel				371000	376000	381000.00	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905.00	
10	DFT-s-OFDM QPSK	1	1	23.71	23.56	23.72	24.50
Channel				370500	376000	381500.00	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.50	
5	DFT-s-OFDM QPSK	1	1	23.76	23.53	23.72	24.50
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				372000	376000	380000.00	
Frequency (MHz)				1860	1880	1767.50	
20	CP-OFDM QPSK	1	1	23.11	22.92	23.13	23.50
20	CP-OFDM 16QAM	1	1	22.94	22.69	22.83	23.50
20	CP-OFDM 64QAM	1	1	20.99	20.52	20.85	21.50
20	CP-OFDM 256QAM	1	1	18.01	17.79	17.96	18.50

n5 (Full Power)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				166800	167300	167800.00	
Frequency (MHz)				834	836.5	839.00	
20	DFT-s-OFDM PI/2 BPSK	1	1	22.79	22.73	22.69	23.50
20		1	53	22.54	22.51	22.69	
20		1	104	23.36	23.35	22.80	
20		50	1	22.67	22.68	22.81	24.20
20		50	25	22.63	22.55	22.85	
20		50	50	23.52	23.45	23.02	
20		100	0	22.65	22.61	22.77	
20	DFT-s-OFDM QPSK	1	1	23.40	23.53	23.44	24.00
20		1	53	23.27	23.25	23.34	
20		1	104	23.34	23.10	23.11	
20		50	1	22.57	22.66	22.60	23.00
20		50	25	22.50	22.60	22.47	
20		50	50	22.25	22.42	22.48	
20		100	0	22.38	22.40	22.38	
20	DFT-s-OFDM 16QAM	1	1	22.95	22.62	23.05	24.20
20	DFT-s-OFDM 64QAM	1	1	22.36	22.48	22.28	21.50
20	DFT-s-OFDM 256QAM	1	1	20.61	20.44	20.51	21.20
Channel				166300	167300	168300.00	Tune-up limit (dBm)
Frequency (MHz)				831.5	836.5	841.50	
15	DFT-s-OFDM QPSK	1	1	23.31	23.15	22.98	24.20
Channel				165800	167300	168800.00	Tune-up limit (dBm)
Frequency (MHz)				829	836.5	844.00	
10	DFT-s-OFDM QPSK	1	1	22.62	22.58	23.02	24.20
Channel				165300	167300	169300.00	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.50	
5	DFT-s-OFDM QPSK	1	1	23.29	23.17	22.83	23.50
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				166800	167300	167800.00	
Frequency (MHz)				834	836.5	839.00	
20	CP-OFDM QPSK	1	1	22.81	22.81	22.89	23.50
20	CP-OFDM 16QAM	1	1	23.27	23.04	22.93	23.50
20	CP-OFDM 64QAM	1	1	21.34	21.35	21.42	22.00
20	CP-OFDM 256QAM	1	1	18.72	18.65	18.77	19.50

n66 (Full Power)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				344000	349000	354000.00	
Frequency (MHz)				1720	1745	1770.00	
20	DFT-s-OFDM PI/2 BPSK	1	1	23.29	23.34	23.47	24.00
20		1	53	23.26	23.46	23.41	
20		1	104	23.36	23.47	23.56	
20		50	1	23.00	23.02	23.06	23.50
20		50	25	23.05	23.05	23.01	
20		50	50	22.13	23.52	23.02	
20		100	0	23.01	23.00	23.07	
20	DFT-s-OFDM QPSK	1	1	23.50	23.68	23.58	23.20
20		1	53	23.45	23.50	23.52	
20		1	104	23.32	23.41	23.44	
20		50	1	23.01	23.04	23.00	23.50
20		50	25	22.84	22.96	22.93	
20		50	50	22.88	23.56	22.93	
20		100	0	22.76	22.88	22.74	
20	DFT-s-OFDM 16QAM	1	1	23.52	23.61	23.66	24.00
20	DFT-s-OFDM 64QAM	1	1	21.67	21.85	21.87	22.50
20	DFT-s-OFDM 256QAM	1	1	19.68	19.87	19.91	20.50
Channel				343500	349000	354500.00	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.50	
15	DFT-s-OFDM QPSK	1	1	23.33	23.43	23.38	24.00
Channel				343000	349000	355000.00	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775.00	
10	DFT-s-OFDM QPSK	1	1	23.49	23.50	23.42	24.00
Channel				3425000	349000	355500.00	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.50	
5	DFT-s-OFDM QPSK	1	1	23.38	23.45	23.45	24.00
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				344000	349000	354000.00	
Frequency (MHz)				1720	1745	1767.50	
20	CP-OFDM QPSK	1	1	22.89	23.04	23.04	23.50
20	CP-OFDM 16QAM	1	1	22.55	22.68	22.75	23.50
20	CP-OFDM 64QAM	1	1	20.71	20.79	20.83	21.50
20	CP-OFDM 256QAM	1	1	17.76	18.06	18.10	18.50

Reduced Power Level 1

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	18.69	18.79	18.72	19.50	18.97	19.01	18.80	19.50	17.92	18.33	18.01	19.00
3GPP Rel 6	HSDPA Subtest-1	17.74	17.82	17.80	18.50	18.05	18.07	18.05	18.50	17.32	17.35	17.27	18.00
3GPP Rel 6	HSDPA Subtest-2	17.86	18.08	17.90	18.50	18.12	18.18	18.24	18.50	17.34	17.36	17.31	18.00
3GPP Rel 6	HSDPA Subtest-3	17.22	17.34	17.28	18.00	17.58	17.59	17.56	18.00	17.21	16.86	16.78	17.50
3GPP Rel 6	HSDPA Subtest-4	17.16	17.35	17.25	18.00	17.59	17.62	17.55	18.00	17.09	16.90	16.79	17.50
3GPP Rel 8	DC-HSDPA Subtest-1	17.85	17.93	17.81	18.50	18.07	18.25	18.04	19.00	17.34	17.29	17.39	18.00
3GPP Rel 8	DC-HSDPA Subtest-2	17.25	17.70	17.29	18.50	17.55	17.80	17.61	18.50	16.83	16.84	16.76	18.00
3GPP Rel 8	DC-HSDPA Subtest-3	17.74	17.87	17.75	18.50	18.03	18.10	18.05	18.50	17.34	17.38	17.35	17.50
3GPP Rel 8	DC-HSDPA Subtest-4	17.72	17.86	17.77	18.50	18.07	18.13	18.08	18.50	17.33	17.33	17.26	17.50
3GPP Rel 6	HSUPA Subtest-1	17.68	17.87	17.80	18.50	18.10	18.23	18.04	19.00	17.29	17.33	17.38	18.00
3GPP Rel 6	HSUPA Subtest-2	17.76	17.80	17.76	18.50	18.07	18.12	18.05	18.50	17.31	17.39	17.37	18.00
3GPP Rel 6	HSUPA Subtest-3	17.95	17.87	17.89	18.50	18.06	18.14	18.03	18.50	17.44	17.46	17.36	18.00
3GPP Rel 6	HSUPA Subtest-4	17.93	17.87	17.93	18.50	18.06	18.12	18.10	18.50	17.44	17.46	17.37	18.00
3GPP Rel 6	HSUPA Subtest-5	17.33	17.33	17.37	18.00	17.53	17.60	17.59	18.00	16.94	16.97	16.89	17.50
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	17.30	17.39	17.42	18.00	17.50	17.60	17.61	18.00	16.94	16.96	16.91	17.50
Mode			Max.	18.79			Max.	19.01			Max.	18.33	

1.4	16QAM	1	5	18.58	18.62	18.54	19.5
1.4	16QAM	3	0	18.46	18.44	18.37	
1.4	16QAM	3	1	18.45	18.38	18.35	
1.4	16QAM	3	3	18.37	18.29	18.27	
1.4	16QAM	6	0	18.32	18.23	18.26	19.5
1.4	64QAM	1	0	18.51	18.60	18.63	19.5
1.4	64QAM	1	3	18.49	18.56	18.54	
1.4	64QAM	1	5	18.40	18.50	18.52	
1.4	64QAM	3	0	18.34	18.24	18.37	
1.4	64QAM	3	1	18.24	18.12	18.26	19.5
1.4	64QAM	3	3	18.24	18.10	18.16	
1.4	64QAM	6	0	18.11	17.95	18.09	
1.4	256QAM	1	0	18.15	18.16	18.14	
1.4	256QAM	1	3	16.07	16.10	16.11	17
1.4	256QAM	1	5	16.07	16.02	16.08	
1.4	256QAM	3	0	15.28	15.37	15.24	
1.4	256QAM	3	1	15.23	15.33	15.18	
1.4	256QAM	3	3	15.18	15.22	15.08	16
1.4	256QAM	6	0	15.16	15.22	14.99	

5	16QAM	1	24	19.15	19.22	19.12	20
5	16QAM	12	0	19.12	19.12	19.14	
5	16QAM	12	7	19.06	19.14	19.07	
5	16QAM	12	13	18.97	19.06	18.98	
5	16QAM	25	0	18.94	18.95	18.91	20
5	64QAM	1	0	19.03	19.35	19.26	
5	64QAM	1	12	19.01	19.31	19.27	
5	64QAM	1	24	18.92	19.33	19.18	
5	64QAM	12	0	19.10	19.15	19.22	20
5	64QAM	12	7	19.09	19.12	19.18	
5	64QAM	12	13	19.05	19.06	19.16	
5	64QAM	25	0	18.96	19.02	19.12	
5	256QAM	1	0	16.26	16.38	16.35	17.5
5	256QAM	1	12	16.27	16.32	16.22	
5	256QAM	1	24	16.15	16.34	16.12	
5	256QAM	12	0	15.79	15.89	15.85	
5	256QAM	12	7	15.78	15.85	15.79	16.5
5	256QAM	12	13	15.71	15.74	15.75	
5	256QAM	25	0	15.68	15.66	15.71	
Channel				131987	132322	132657	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	20.08	20.20	20.12	21
3	QPSK	1	8	19.91	20.01	19.88	
3	QPSK	1	14	19.84	19.96	19.86	
3	QPSK	8	0	19.07	19.15	19.05	
3	QPSK	8	4	18.98	19.07	18.98	20
3	QPSK	8	7	18.92	19.02	18.89	
3	QPSK	15	0	18.86	18.95	18.86	
3	16QAM	1	0	19.23	19.32	19.30	
3	16QAM	1	8	19.20	19.25	19.20	20
3	16QAM	1	14	19.12	19.20	19.09	
3	16QAM	8	0	19.08	19.10	19.11	
3	16QAM	8	4	19.03	19.12	19.05	
3	16QAM	8	7	18.93	19.03	18.93	20
3	16QAM	15	0	18.91	18.91	18.87	
3	64QAM	1	0	18.99	19.32	19.21	
3	64QAM	1	8	18.98	19.28	19.24	
3	64QAM	1	14	18.90	19.31	19.14	20
3	64QAM	8	0	19.06	19.11	19.18	
3	64QAM	8	4	19.07	19.08	19.14	
3	64QAM	8	7	19.00	19.02	19.12	
3	64QAM	15	0	18.94	18.98	19.09	17.5
3	256QAM	1	0	16.22	16.35	16.31	
3	256QAM	1	8	16.22	16.30	16.17	
3	256QAM	1	14	16.11	16.30	16.08	
3	256QAM	8	0	15.76	15.86	15.82	16.5
3	256QAM	8	4	15.74	15.82	15.76	
3	256QAM	8	7	15.68	15.70	15.73	
3	256QAM	15	0	15.65	15.61	15.66	
Channel				131979	132322	132655	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	20.06	20.15	20.07	21
1.4	QPSK	1	3	19.86	19.97	19.86	
1.4	QPSK	1	5	19.81	19.92	19.82	
1.4	QPSK	3	0	19.03	19.13	19.01	
1.4	QPSK	3	1	18.94	19.02	18.95	
1.4	QPSK	3	3	18.89	18.97	18.84	
1.4	QPSK	6	0	18.81	18.92	18.83	20
1.4	16QAM	1	0	19.19	19.29	19.27	20
1.4	16QAM	1	3	19.16	19.22	19.18	
1.4	16QAM	1	5	19.09	19.18	19.05	
1.4	16QAM	3	0	19.03	19.07	19.09	
1.4	16QAM	3	1	19.00	19.09	19.03	
1.4	16QAM	3	3	18.91	19.00	18.88	
1.4	16QAM	6	0	18.88	18.89	18.84	20
1.4	64QAM	1	0	18.95	19.27	19.17	
1.4	64QAM	1	3	18.94	19.24	19.20	20
1.4	64QAM	1	5	18.86	19.29	19.11	
1.4	64QAM	3	0	19.04	19.07	19.14	
1.4	64QAM	3	1	19.03	19.05	19.11	
1.4	64QAM	3	3	18.95	18.97	19.07	
1.4	64QAM	6	0	18.90	18.95	19.05	
1.4	256QAM	1	0	16.18	16.32	16.26	17.5
1.4	256QAM	1	3	16.19	16.25	16.14	
1.4	256QAM	1	5	16.07	16.26	16.04	
1.4	256QAM	3	0	15.74	15.82	15.78	
1.4	256QAM	3	1	15.69	15.79	15.72	16.5
1.4	256QAM	3	3	15.65	15.67	15.70	
1.4	256QAM	6	0	15.62	15.59	15.62	16.5

LTE Band 48 (Reduced Power Level 1)

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Middle-Low Channel	Middle-Low Channel	Middle-High Channel	High Channel	Tune-up limit (dBm)
Channel				55340	55830	55990	56150	56640	
Frequency (MHz)				3560	3609	3625	3641	3690	
20	QPSK	1	0	22.64	22.60	22.74	22.67	22.64	23.5
20	QPSK	1	49	22.46	22.48	22.54	22.49	22.41	
20	QPSK	1	99	22.43	22.39	22.33	22.51	22.52	
20	QPSK	50	0	21.53	21.54	21.64	21.59	21.52	22.5
20	QPSK	50	24	21.43	21.48	21.48	21.49	21.50	
20	QPSK	50	50	21.49	21.45	21.59	21.39	21.46	
20	QPSK	100	0	21.46	21.49	21.45	21.54	21.36	
20	16QAM	1	0	21.64	21.52	21.54	21.44	21.59	22.5
20	16QAM	1	49	21.51	21.39	21.39	21.59	21.50	
20	16QAM	1	99	21.53	21.54	21.43	21.40	21.42	
20	16QAM	50	0	21.48	21.52	21.46	21.33	21.23	22
20	16QAM	50	24	21.42	21.43	21.38	21.31	21.26	
20	16QAM	50	50	21.34	21.36	21.51	21.50	21.39	
20	16QAM	100	0	21.45	21.54	21.56	21.51	21.36	
20	64QAM	1	0	21.73	21.68	21.61	21.68	21.54	
20	64QAM	1	49	21.70	21.57	21.78	21.54	21.53	22
20	64QAM	1	99	21.63	21.83	21.72	21.63	21.51	
20	64QAM	50	0	20.67	20.79	20.95	20.83	20.77	21.5
20	64QAM	50	24	20.69	20.51	20.55	20.55	20.87	
20	64QAM	50	50	20.75	20.66	20.53	20.39	20.66	
20	64QAM	100	0	20.55	20.45	20.66	20.67	20.54	
20	256QAM	1	0	16.88	16.66	16.65	16.74	16.95	17.5
20	256QAM	1	49	16.69	16.54	16.73	17.01	16.63	
20	256QAM	1	99	16.59	16.88	16.75	16.84	16.75	
20	256QAM	50	0	16.54	16.44	16.54	16.69	16.54	17
20	256QAM	50	24	16.48	16.53	16.45	16.35	16.44	
20	256QAM	50	50	16.44	16.42	16.59	16.21	16.54	
20	256QAM	100	0	16.22	16.35	16.28	16.33	16.63	
Channel				55315	55820	55990	56160	56665	Tune-up limit (dBm)
Frequency (MHz)				3557.5	3608	3625	3642	3692.5	
15	QPSK	1	0	22.61	22.57	22.71	22.64	22.61	23.5
15	QPSK	1	37	22.43	22.45	22.51	22.46	22.38	
15	QPSK	1	74	22.40	22.36	22.30	22.48	22.49	
15	QPSK	36	0	21.50	21.51	21.61	21.56	21.49	22.5
15	QPSK	36	20	21.40	21.45	21.45	21.46	21.47	
15	QPSK	36	39	21.46	21.42	21.56	21.36	21.43	
15	QPSK	75	0	21.43	21.46	21.42	21.51	21.33	
15	16QAM	1	0	21.61	21.49	21.51	21.41	21.56	22.5
15	16QAM	1	37	21.48	21.36	21.36	21.56	21.47	
15	16QAM	1	74	21.50	21.51	21.40	21.37	21.39	
15	16QAM	36	0	21.45	21.49	21.43	21.30	21.20	22
15	16QAM	36	20	21.39	21.40	21.35	21.28	21.23	
15	16QAM	36	39	21.31	21.33	21.48	21.47	21.36	
15	16QAM	75	0	21.42	21.51	21.53	21.48	21.33	
15	64QAM	1	0	21.70	21.65	21.58	21.65	21.51	22
15	64QAM	1	37	21.67	21.54	21.75	21.51	21.50	
15	64QAM	1	74	21.60	21.80	21.69	21.60	21.48	
15	64QAM	36	0	20.64	20.76	20.92	20.80	20.74	21.5
15	64QAM	36	20	20.66	20.48	20.52	20.52	20.84	
15	64QAM	36	39	20.72	20.63	20.50	20.36	20.63	
15	64QAM	75	0	20.52	20.42	20.63	20.64	20.51	
15	256QAM	1	0	16.85	16.63	16.62	16.71	16.92	17.5
15	256QAM	1	37	16.66	16.51	16.70	16.98	16.60	
15	256QAM	1	74	16.56	16.85	16.72	16.81	16.72	
15	256QAM	36	0	16.51	16.41	16.51	16.66	16.51	17
15	256QAM	36	20	16.45	16.50	16.42	16.32	16.41	
15	256QAM	36	39	16.41	16.39	16.56	16.18	16.51	
15	256QAM	75	0	16.19	16.32	16.25	16.30	16.60	
Channel				55290	55815	55990	56165	56690	Tune-up limit (dBm)
Frequency (MHz)				3555	3607.5	3625	3642.5	3695	
10	QPSK	1	0	22.58	22.54	22.68	22.61	22.58	23.5
10	QPSK	1	25	22.40	22.42	22.48	22.43	22.35	
10	QPSK	1	49	22.37	22.33	22.27	22.45	22.46	
10	QPSK	25	0	21.47	21.48	21.58	21.53	21.46	22.5
10	QPSK	25	12	21.37	21.42	21.42	21.43	21.44	
10	QPSK	25	25	21.43	21.39	21.53	21.33	21.40	

10	16QAM	1	25	21.45	21.33	21.33	21.53	21.44	22.5
10	16QAM	1	49	21.47	21.48	21.37	21.34	21.36	
10	16QAM	25	0	21.42	21.46	21.40	21.27	21.17	22
10	16QAM	25	12	21.36	21.37	21.32	21.25	21.20	
10	16QAM	25	25	21.28	21.30	21.45	21.44	21.33	
10	16QAM	50	0	21.39	21.48	21.50	21.45	21.30	
10	64QAM	1	0	21.67	21.62	21.55	21.62	21.48	22
10	64QAM	1	25	21.64	21.51	21.72	21.48	21.47	
10	64QAM	1	49	21.57	21.77	21.66	21.57	21.45	
10	64QAM	25	0	20.61	20.73	20.89	20.77	20.71	21.5
10	64QAM	25	12	20.63	20.45	20.49	20.49	20.81	
10	64QAM	25	25	20.69	20.60	20.47	20.33	20.60	
10	64QAM	50	0	20.49	20.39	20.60	20.61	20.48	
10	256QAM	1	0	16.82	16.60	16.59	16.68	16.89	
10	256QAM	1	25	16.63	16.48	16.67	16.95	16.57	17.5
10	256QAM	1	49	16.53	16.82	16.69	16.78	16.69	
10	256QAM	25	0	16.48	16.38	16.48	16.63	16.48	
10	256QAM	25	12	16.42	16.47	16.39	16.29	16.38	17
10	256QAM	25	25	16.38	16.36	16.53	16.15	16.48	
10	256QAM	50	0	16.16	16.29	16.22	16.27	16.57	
Channel				55265	55810	55990	56170	56175	Tune-up limit (dBm)
Frequency (MHz)				3552.5	3607	3625	3643	3697.5	
5	QPSK	1	0	22.55	22.51	22.65	22.58	22.55	23.5
5	QPSK	1	12	22.37	22.39	22.45	22.40	22.32	
5	QPSK	1	24	22.34	22.30	22.24	22.42	22.43	
5	QPSK	12	0	21.44	21.45	21.55	21.50	21.43	22.5
5	QPSK	12	7	21.34	21.39	21.39	21.40	21.41	
5	QPSK	12	13	21.40	21.36	21.50	21.30	21.37	
5	QPSK	25	0	21.37	21.40	21.36	21.45	21.27	
5	16QAM	1	0	21.55	21.43	21.45	21.35	21.50	22.5
5	16QAM	1	12	21.42	21.30	21.30	21.50	21.41	
5	16QAM	1	24	21.44	21.45	21.34	21.31	21.33	
5	16QAM	12	0	21.39	21.43	21.37	21.24	21.14	22
5	16QAM	12	7	21.33	21.34	21.29	21.22	21.17	
5	16QAM	12	13	21.25	21.27	21.42	21.41	21.30	
5	16QAM	25	0	21.36	21.45	21.47	21.42	21.27	
5	64QAM	1	0	21.64	21.59	21.52	21.59	21.45	
5	64QAM	1	12	21.61	21.48	21.69	21.45	21.44	22
5	64QAM	1	24	21.54	21.74	21.63	21.54	21.42	
5	64QAM	12	0	20.58	20.70	20.86	20.74	20.68	21.5
5	64QAM	12	7	20.60	20.42	20.46	20.46	20.78	
5	64QAM	12	13	20.66	20.57	20.44	20.30	20.57	
5	64QAM	25	0	20.46	20.36	20.57	20.58	20.45	
5	256QAM	1	0	16.79	16.57	16.56	16.65	16.86	
5	256QAM	1	12	16.60	16.45	16.64	16.92	16.54	17.5
5	256QAM	1	24	16.50	16.79	16.66	16.75	16.66	
5	256QAM	12	0	16.45	16.35	16.45	16.60	16.45	
5	256QAM	12	7	16.39	16.44	16.36	16.26	16.35	17
5	256QAM	12	13	16.35	16.33	16.50	16.12	16.45	
5	256QAM	25	0	16.13	16.26	16.19	16.24	16.54	

n2 (Reduce Power Level 1)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				372000	376000	380000.00	
Frequency (MHz)				1860	1880	1900.00	
20	DFT-s-OFDM PI/2 BPSK	1	1	19.84	19.75	19.57	20.50
20		1	53	19.88	19.63	19.01	
20		1	104	19.91	19.48	19.56	
20		50	1	20.02	19.81	19.03	20.00
20		50	25	19.98	19.78	19.98	
20		50	50	19.96	19.98	20.08	
20		100	0	19.48	19.56	20.06	
20	DFT-s-OFDM QPSK	1	1	20.24	20.31	20.28	21.00
20		1	53	19.99	20.07	19.49	
20		1	104	19.94	19.95	19.67	
20		50	1	19.80	19.88	19.77	20.50
20		50	25	19.79	19.57	19.72	
20		50	50	19.54	19.77	19.63	
20		100	0	19.41	19.59	19.55	
20	DFT-s-OFDM 16QAM	1	1	17.13	17.29	17.96	18.50
20	DFT-s-OFDM 64QAM	1	1	16.36	16.38	16.98	17.50
20	DFT-s-OFDM 256QAM	1	1	15.32	16.19	15.97	16.50
Channel				3715000	376000	380500.00	Tune-up limit (dBm)
Frequency (MHz)				1857.5	1880	1902.50	
15	DFT-s-OFDM QPSK	1	1	19.81	19.83	19.89	20.50
Channel				371000	376000	381000.00	Tune-up limit (dBm)
Frequency (MHz)				1855	1880	1905.00	
10	DFT-s-OFDM QPSK	1	1	20.01	19.86	20.02	20.50
Channel				370500	376000	381500.00	Tune-up limit (dBm)
Frequency (MHz)				1852.5	1880	1907.50	
5	DFT-s-OFDM QPSK	1	1	20.06	19.83	20.02	20.50
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				372000	376000	380000.00	
Frequency (MHz)				1860	1880	1767.50	
20	CP-OFDM QPSK	1	1	19.41	19.22	19.43	20.00
20	CP-OFDM 16QAM	1	1	19.24	18.99	19.13	19.50
20	CP-OFDM 64QAM	1	1	17.29	16.82	17.15	18.00
20	CP-OFDM 256QAM	1	1	14.31	14.09	14.26	15.00

n5 (Reduce Power Level 1)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				166800	167300	167800.00	
Frequency (MHz)				834	836.5	839.00	
20	DFT-s-OFDM PI/2 BPSK	1	1	22.79	22.73	22.69	23.50
20		1	53	22.54	22.51	22.69	
20		1	104	23.36	23.35	22.80	
20		50	1	22.67	22.68	22.81	24.20
20		50	25	22.63	22.55	22.85	
20		50	50	23.52	23.45	23.02	
20		100	0	22.65	22.61	22.77	
20	DFT-s-OFDM QPSK	1	1	23.40	23.53	23.44	24.00
20		1	53	23.27	23.25	23.34	
20		1	104	23.34	23.10	23.11	
20		50	1	22.57	22.66	22.60	23.00
20		50	25	22.50	22.60	22.47	
20		50	50	22.25	22.42	22.48	
20		100	0	22.38	22.40	22.38	
20	DFT-s-OFDM 16QAM	1	1	22.95	22.62	23.05	24.20
20	DFT-s-OFDM 64QAM	1	1	22.36	22.48	22.28	21.50
20	DFT-s-OFDM 256QAM	1	1	20.61	20.44	20.51	21.20
Channel				166300	167300	168300.00	Tune-up limit (dBm)
Frequency (MHz)				831.5	836.5	841.50	
15	DFT-s-OFDM QPSK	1	1	23.31	23.15	22.98	24.20
Channel				165800	167300	168800.00	Tune-up limit (dBm)
Frequency (MHz)				829	836.5	844.00	
10	DFT-s-OFDM QPSK	1	1	22.62	22.58	23.02	24.20
Channel				165300	167300	169300.00	Tune-up limit (dBm)
Frequency (MHz)				826.5	836.5	846.50	
5	DFT-s-OFDM QPSK	1	1	23.29	23.17	22.83	23.50
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				166800	167300	167800.00	
Frequency (MHz)				834	836.5	839.00	
20	CP-OFDM QPSK	1	1	22.81	22.81	22.89	23.50
20	CP-OFDM 16QAM	1	1	23.27	23.04	22.93	23.50
20	CP-OFDM 64QAM	1	1	21.34	21.35	21.42	22.00
20	CP-OFDM 256QAM	1	1	18.72	18.65	18.77	19.50

n66 (Reduce Power Level 1)

BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				344000	349000	354000.00	
Frequency (MHz)				1720	1745	1770.00	
20	DFT-s-OFDM PI/2 BPSK	1	1	19.99	20.04	20.17	21.00
20		1	53	19.96	20.16	20.11	
20		1	104	20.06	20.17	20.26	
20		50	1	19.70	19.72	19.76	20.50
20		50	25	19.75	19.75	19.71	
20		50	50	18.83	20.22	19.72	
20		100	0	19.71	19.70	19.77	
20	DFT-s-OFDM QPSK	1	1	20.20	20.38	20.28	21.00
20		1	53	20.15	20.20	20.22	
20		1	104	20.02	20.11	20.14	
20		50	1	19.71	19.74	19.70	20.50
20		50	25	19.54	19.66	19.63	
20		50	50	19.58	20.26	19.63	
20		100	0	19.46	19.58	19.44	
20	DFT-s-OFDM 16QAM	1	1	20.22	20.31	20.36	21.00
20	DFT-s-OFDM 64QAM	1	1	18.37	18.55	18.57	19.00
20	DFT-s-OFDM 256QAM	1	1	19.68	16.57	16.61	17.00
Channel				343500	349000	354500.00	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.50	
15	DFT-s-OFDM QPSK	1	1	20.03	20.13	20.08	21.00
Channel				343000	349000	355000.00	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775.00	
10	DFT-s-OFDM QPSK	1	1	20.19	20.20	20.12	21.00
Channel				3425000	349000	355500.00	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.50	
5	DFT-s-OFDM QPSK	1	1	20.08	20.15	20.15	21.00
BW [MHz]	Modulation	RB Size	RB Offset	Low Channel	Middle Channel	High Channel	Tune-up limit (dBm)
Channel				344000	349000	354000.00	
Frequency (MHz)				1720	1745	1767.50	
20	CP-OFDM QPSK	1	1	19.59	19.74	19.74	20.50
20	CP-OFDM 16QAM	1	1	19.25	19.38	19.45	20.00
20	CP-OFDM 64QAM	1	1	17.41	17.49	17.53	18.00
20	CP-OFDM 256QAM	1	1	14.46	14.76	14.80	15.50

Reduced Power Level 2

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	12.57	12.65	12.52	13.00	13.07	13.29	13.18	14.00	16.26	16.32	16.17	17.00
3GPP Rel 6	HSDPA Subtest-1	11.62	11.70	11.68	12.50	12.33	12.35	12.33	13.00	15.31	15.34	15.26	16.00
3GPP Rel 6	HSDPA Subtest-2	11.74	11.96	11.78	12.50	12.40	12.46	12.52	13.00	15.33	15.35	15.30	16.00
3GPP Rel 6	HSDPA Subtest-3	11.10	11.22	11.16	12.00	11.86	11.87	11.84	12.50	15.20	14.85	14.77	15.50
3GPP Rel 6	HSDPA Subtest-4	11.04	11.23	11.13	12.00	11.87	11.90	11.83	12.50	15.08	14.89	14.78	15.50
3GPP Rel 8	DC-HSDPA Subtest-1	11.83	11.75	11.77	12.50	12.34	12.42	12.31	13.00	15.43	15.45	15.35	16.00
3GPP Rel 8	DC-HSDPA Subtest-2	11.81	11.75	11.81	12.50	12.34	12.40	12.38	13.00	15.43	15.45	15.36	16.00
3GPP Rel 8	DC-HSDPA Subtest-3	11.21	11.21	11.25	12.00	11.81	11.88	11.87	12.50	14.93	14.96	14.88	15.50
3GPP Rel 8	DC-HSDPA Subtest-4	11.18	11.27	11.30	12.00	11.78	11.88	11.89	12.50	14.93	14.95	14.90	15.50
3GPP Rel 6	HSUPA Subtest-1	11.73	11.81	11.69	12.50	12.35	12.53	12.32	13.00	15.33	15.28	15.38	16.00
3GPP Rel 6	HSUPA Subtest-2	11.13	11.58	11.17	12.00	11.83	12.08	11.89	12.50	14.82	14.83	14.75	15.50
3GPP Rel 6	HSUPA Subtest-3	11.62	11.75	11.63	12.00	12.31	12.38	12.33	13.00	15.33	15.37	15.34	16.00
3GPP Rel 6	HSUPA Subtest-4	11.60	11.74	11.65	12.00	12.35	12.41	12.36	13.00	15.32	15.32	15.25	16.00
3GPP Rel 6	HSUPA Subtest-5	11.56	11.75	11.68	12.00	12.38	12.51	12.32	13.00	15.28	15.32	15.37	16.00
3GPP Rel 7	HSPA+ (16QAM) Subtest-1	11.64	11.68	11.64	12.00	12.35	12.40	12.33	13.00	15.30	15.38	15.36	16.00
Mode			Max.	12.65			Max.	13.29			Max.	16.32	

1.4	16QAM	1	5	16.24	16.28	16.21	17
1.4	16QAM	3	0	16.13	16.09	16.05	
1.4	16QAM	3	1	16.11	16.02	15.99	
1.4	16QAM	3	3	16.01	15.95	15.96	
1.4	16QAM	6	0	15.94	15.91	15.91	16.5
1.4	64QAM	1	0	16.17	16.26	16.27	17
1.4	64QAM	1	3	16.14	16.22	16.22	
1.4	64QAM	1	5	16.06	16.18	16.18	
1.4	64QAM	3	0	15.99	15.92	16.01	
1.4	64QAM	3	1	15.90	15.80	15.90	
1.4	64QAM	3	3	15.86	15.75	15.82	
1.4	64QAM	6	0	15.80	15.64	15.75	16.5
1.4	256QAM	1	0	12.31	12.36	12.29	13
1.4	256QAM	1	3	12.26	12.27	12.26	
1.4	256QAM	1	5	12.23	12.19	12.24	
1.4	256QAM	3	0	11.45	11.57	11.41	
1.4	256QAM	3	1	11.39	11.52	11.33	
1.4	256QAM	3	3	11.34	11.42	11.24	12
1.4	256QAM	6	0	11.31	11.40	11.15	

1.4	16QAM	1	5	22.54	22.58	22.62	23.5
1.4	16QAM	3	0	22.37	22.47	22.41	
1.4	16QAM	3	1	22.28	22.36	22.39	
1.4	16QAM	3	3	22.17	22.33	22.34	
1.4	16QAM	6	0	22.14	22.24	22.23	23.5
1.4	64QAM	1	0	22.73	22.51	22.45	23.5
1.4	64QAM	1	3	22.65	22.49	22.41	
1.4	64QAM	1	5	22.62	22.45	22.32	
1.4	64QAM	3	0	22.26	22.29	22.23	
1.4	64QAM	3	1	22.18	22.18	22.17	
1.4	64QAM	3	3	22.11	22.08	22.11	
1.4	64QAM	6	0	22.09	21.98	22.02	23
1.4	256QAM	1	0	18.59	18.68	18.63	19.5
1.4	256QAM	1	3	18.53	18.61	18.59	
1.4	256QAM	1	5	18.50	18.54	18.54	
1.4	256QAM	3	0	17.75	17.81	17.71	
1.4	256QAM	3	1	17.73	17.73	17.61	
1.4	256QAM	3	3	17.69	17.69	17.52	18
1.4	256QAM	6	0	17.62	17.63	17.44	

5	16QAM	1	24	13.07	13.18	13.07	13.5
5	16QAM	12	0	13.04	13.06	13.04	
5	16QAM	12	7	13.01	13.05	13.00	
5	16QAM	12	13	12.93	12.97	12.91	
5	16QAM	25	0	12.87	12.88	12.83	
5	64QAM	1	0	13.03	13.18	13.11	14
5	64QAM	1	12	13.00	13.17	13.08	
5	64QAM	1	24	12.93	13.15	13.02	
5	64QAM	12	0	12.96	13.00	13.04	13.5
5	64QAM	12	7	12.94	12.95	13.01	
5	64QAM	12	13	12.89	12.89	12.98	
5	64QAM	25	0	12.79	12.87	12.94	
5	256QAM	1	0	8.86	8.96	8.92	
5	256QAM	1	12	8.84	8.93	8.82	9.5
5	256QAM	1	24	8.74	8.92	8.71	
5	256QAM	12	0	8.37	8.48	8.43	
5	256QAM	12	7	8.35	8.44	8.36	9
5	256QAM	12	13	8.32	8.34	8.34	
5	256QAM	25	0	8.28	8.25	8.30	
Channel				131987	132322	132657	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1745	1778.5	
3	QPSK	1	0	14.13	14.21	14.07	14.5
3	QPSK	1	8	14.04	14.12	14.02	
3	QPSK	1	14	13.96	14.05	13.96	
3	QPSK	8	0	13.08	13.18	13.05	13.5
3	QPSK	8	4	12.97	13.08	13.01	
3	QPSK	8	7	12.93	13.02	12.92	
3	QPSK	15	0	12.88	12.93	12.91	
3	16QAM	1	0	13.12	13.16	13.14	
3	16QAM	1	8	13.05	13.13	13.06	13.5
3	16QAM	1	14	12.96	13.07	12.96	
3	16QAM	8	0	12.93	12.95	12.93	
3	16QAM	8	4	12.90	12.94	12.89	
3	16QAM	8	7	12.82	12.86	12.80	
3	16QAM	15	0	12.76	12.77	12.72	13.5
3	64QAM	1	0	12.92	13.07	13.00	
3	64QAM	1	8	12.89	13.06	12.97	
3	64QAM	1	14	12.82	13.04	12.91	
3	64QAM	8	0	12.85	12.89	12.93	
3	64QAM	8	4	12.83	12.84	12.90	13.5
3	64QAM	8	7	12.78	12.78	12.87	
3	64QAM	15	0	12.68	12.76	12.83	
3	256QAM	1	0	8.75	8.85	8.81	
3	256QAM	1	8	8.73	8.82	8.71	
3	256QAM	1	14	8.63	8.81	8.60	9
3	256QAM	8	0	8.26	8.37	8.32	
3	256QAM	8	4	8.24	8.33	8.25	
3	256QAM	8	7	8.21	8.23	8.23	
3	256QAM	15	0	8.17	8.14	8.19	
Channel				131979	132322	132665	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1745	1779.3	
1.4	QPSK	1	0	14.02	14.10	13.96	14.5
1.4	QPSK	1	3	13.93	14.01	13.91	
1.4	QPSK	1	5	13.85	13.94	13.85	
1.4	QPSK	3	0	12.97	13.07	12.94	
1.4	QPSK	3	1	12.86	12.97	12.90	
1.4	QPSK	3	3	12.82	12.91	12.81	
1.4	QPSK	6	0	12.77	12.82	12.80	13.5
1.4	16QAM	1	0	13.01	13.05	13.03	13.5
1.4	16QAM	1	3	12.94	13.02	12.95	
1.4	16QAM	1	5	12.85	12.96	12.85	
1.4	16QAM	3	0	12.82	12.84	12.82	
1.4	16QAM	3	1	12.79	12.83	12.78	
1.4	16QAM	3	3	12.71	12.75	12.69	
1.4	16QAM	6	0	12.65	12.66	12.61	
1.4	64QAM	1	0	12.81	12.96	12.89	13
1.4	64QAM	1	3	12.78	12.95	12.86	
1.4	64QAM	1	5	12.71	12.93	12.80	
1.4	64QAM	3	0	12.74	12.78	12.82	
1.4	64QAM	3	1	12.72	12.73	12.79	
1.4	64QAM	3	3	12.67	12.67	12.76	
1.4	64QAM	6	0	12.57	12.65	12.72	13.5
1.4	256QAM	1	0	8.64	8.74	8.70	9.5
1.4	256QAM	1	3	8.62	8.71	8.60	
1.4	256QAM	1	5	8.52	8.70	8.49	
1.4	256QAM	3	0	8.15	8.26	8.21	
1.4	256QAM	3	1	8.13	8.22	8.14	
1.4	256QAM	3	3	8.10	8.12	8.12	
1.4	256QAM	6	0	8.06	8.03	8.08	8.5

Band 48 (Reduced Power Level 2)

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Middle-Low Channel	Middle-Low Channel	Middle-High Channel	High Channel	Tune-up limit (dBm)
Channel				55340	55830	55990	56150	56640	
Frequency (MHz)				3560	3609	3625	3641	3690	
20	QPSK	1	0	8.01	7.97	8.11	8.04	8.01	8.5
20	QPSK	1	49	7.83	7.85	7.91	7.86	7.78	
20	QPSK	1	99	7.80	7.76	7.70	7.88	7.89	
20	QPSK	50	0	6.90	6.91	7.01	6.96	6.89	7.5
20	QPSK	50	24	6.80	6.85	6.85	6.86	6.87	
20	QPSK	50	50	6.86	6.82	6.96	6.76	6.83	
20	QPSK	100	0	6.83	6.86	6.82	6.91	6.73	
20	16QAM	1	0	7.01	6.89	6.91	6.81	6.96	7.5
20	16QAM	1	49	6.88	6.76	6.76	6.96	6.87	
20	16QAM	1	99	6.90	6.91	6.80	6.77	6.79	
20	16QAM	50	0	6.85	6.89	6.83	6.70	6.60	7.5
20	16QAM	50	24	6.79	6.80	6.75	6.68	6.63	
20	16QAM	50	50	6.71	6.73	6.88	6.87	6.76	
20	16QAM	100	0	6.82	6.91	6.93	6.88	6.73	
20	64QAM	1	0	7.10	7.05	6.98	7.05	6.91	7.5
20	64QAM	1	49	7.07	6.94	7.15	6.91	6.90	
20	64QAM	1	99	7.00	7.20	7.09	7.00	6.88	
20	64QAM	50	0	6.04	6.16	6.32	6.20	6.14	6.5
20	64QAM	50	24	6.06	5.88	5.92	5.92	6.24	
20	64QAM	50	50	6.12	6.03	5.90	5.76	6.03	
20	64QAM	100	0	5.92	5.82	6.03	6.04	5.91	
20	64QAM	1	0	2.25	2.03	2.02	2.11	2.32	3
20	64QAM	1	49	2.06	1.91	2.10	2.38	2.00	
20	64QAM	1	99	1.96	2.25	2.12	2.21	2.12	
20	64QAM	50	0	1.91	1.81	1.91	2.06	1.91	2.5
20	64QAM	50	24	1.85	1.90	1.82	1.72	1.81	
20	64QAM	50	50	1.81	1.79	1.96	1.58	1.91	
20	64QAM	100	0	1.59	1.72	1.65	1.70	2.00	
Channel				55315	55820	55990	56160	56665	Tune-up limit (dBm)
Frequency (MHz)				3557.5	3608	3625	3642	3692.5	
15	QPSK	1	0	7.90	7.86	8.00	7.93	7.90	8.5
15	QPSK	1	37	7.72	7.74	7.80	7.75	7.67	
15	QPSK	1	74	7.69	7.65	7.59	7.77	7.78	
15	QPSK	36	0	6.79	6.80	6.90	6.85	6.78	7.5
15	QPSK	36	20	6.69	6.74	6.74	6.75	6.76	
15	QPSK	36	39	6.75	6.71	6.85	6.65	6.72	
15	QPSK	75	0	6.72	6.75	6.71	6.80	6.62	
15	16QAM	1	0	6.90	6.78	6.80	6.70	6.85	7.5
15	16QAM	1	37	6.77	6.65	6.65	6.85	6.76	
15	16QAM	1	74	6.79	6.80	6.69	6.66	6.68	
15	16QAM	36	0	6.74	6.78	6.72	6.59	6.49	7.5
15	16QAM	36	20	6.68	6.69	6.64	6.57	6.52	
15	16QAM	36	39	6.60	6.62	6.77	6.76	6.65	
15	16QAM	75	0	6.71	6.80	6.82	6.77	6.62	
15	64QAM	1	0	6.99	6.94	6.87	6.94	6.80	7.5
15	64QAM	1	37	6.96	6.83	7.04	6.80	6.79	
15	64QAM	1	74	6.89	7.09	6.98	6.89	6.77	
15	64QAM	36	0	5.93	6.05	6.21	6.09	6.03	6.5
15	64QAM	36	20	5.95	5.77	5.81	5.81	6.13	
15	64QAM	36	39	6.01	5.92	5.79	5.65	5.92	
15	64QAM	75	0	5.81	5.71	5.92	5.93	5.80	
15	256QAM	1	0	2.14	1.92	1.91	2.00	2.21	3
15	256QAM	1	37	1.95	1.80	1.99	2.27	1.89	
15	256QAM	1	74	1.85	2.14	2.01	2.10	2.01	
15	256QAM	36	0	1.80	1.70	1.80	1.95	1.80	2.5
15	256QAM	36	20	1.74	1.79	1.71	1.61	1.70	
15	256QAM	36	39	1.70	1.68	1.85	1.47	1.80	
15	256QAM	75	0	1.48	1.61	1.54	1.59	1.89	

Channel				55290	55815	55990	56165	56690	Tune-up limit (dBm)
Frequency (MHz)				3555	3607.5	3625	3642.5	3695	
10	QPSK	1	0	7.80	7.76	7.90	7.83	7.80	8.5
10	QPSK	1	25	7.62	7.64	7.70	7.65	7.57	
10	QPSK	1	49	7.59	7.55	7.53	7.67	7.68	
10	QPSK	25	0	6.69	6.70	6.80	6.75	6.72	7.5
10	QPSK	25	12	6.59	6.64	6.64	6.65	6.66	
10	QPSK	25	25	6.65	6.61	6.75	6.55	6.62	
10	QPSK	50	0	6.62	6.65	6.61	6.70	6.52	
10	16QAM	1	0	6.80	6.68	6.70	6.60	6.75	7.5
10	16QAM	1	25	6.67	6.55	6.55	6.75	6.66	
10	16QAM	1	49	6.69	6.70	6.59	6.56	6.58	
10	16QAM	25	0	6.64	6.68	6.62	6.49	6.39	7.5
10	16QAM	25	12	6.58	6.59	6.54	6.47	6.42	
10	16QAM	25	25	6.50	6.52	6.67	6.66	6.55	
10	16QAM	50	0	6.61	6.70	6.72	6.67	6.52	
10	64QAM	1	0	6.89	6.84	6.77	6.84	6.70	7.5
10	64QAM	1	25	6.86	6.73	6.94	6.70	6.69	
10	64QAM	1	49	6.79	6.99	6.88	6.79	6.67	
10	64QAM	25	0	5.83	5.95	6.11	5.99	5.93	6.5
10	64QAM	25	12	5.85	5.67	5.71	5.71	6.03	
10	64QAM	25	25	5.91	5.82	5.69	5.55	5.82	
10	64QAM	50	0	5.71	5.61	5.82	5.83	5.70	
10	256QAM	1	0	2.04	1.82	1.81	1.90	2.11	3
10	256QAM	1	25	1.85	1.70	1.89	2.17	1.79	
10	256QAM	1	49	1.75	2.04	1.91	2.00	1.91	
10	256QAM	25	0	1.70	1.60	1.70	1.85	1.70	2.5
10	256QAM	25	12	1.64	1.69	1.61	1.51	1.60	
10	256QAM	25	25	1.60	1.58	1.75	1.58	1.70	
10	256QAM	50	0	1.55	1.51	1.42	1.49	1.79	
Channel				55265	55810	55990	56170	56175	Tune-up limit (dBm)
Frequency (MHz)				3552.5	3607	3625	3643	3697.5	
5	QPSK	1	0	7.68	7.64	7.78	7.71	7.68	8.5
5	QPSK	1	12	7.50	7.52	7.58	7.53	7.45	
5	QPSK	1	24	7.47	7.43	7.37	7.55	7.56	
5	QPSK	12	0	6.57	6.58	6.68	6.63	6.56	7
5	QPSK	12	7	6.47	6.52	6.52	6.53	6.54	
5	QPSK	12	13	6.53	6.49	6.63	6.43	6.50	
5	QPSK	25	0	6.50	6.53	6.49	6.58	6.40	
5	16QAM	1	0	6.68	6.56	6.58	6.48	6.63	7
5	16QAM	1	12	6.55	6.43	6.43	6.63	6.54	
5	16QAM	1	24	6.57	6.58	6.47	6.44	6.46	
5	16QAM	12	0	6.52	6.56	6.50	6.37	6.27	7
5	16QAM	12	7	6.46	6.47	6.42	6.35	6.30	
5	16QAM	12	13	6.38	6.40	6.55	6.54	6.43	
5	16QAM	25	0	6.49	6.58	6.60	6.55	6.40	
5	64QAM	1	0	6.77	6.72	6.65	6.72	6.58	7
5	64QAM	1	12	6.74	6.61	6.82	6.58	6.57	
5	64QAM	1	24	6.67	6.87	6.76	6.67	6.55	
5	64QAM	12	0	5.71	5.83	5.99	5.87	5.81	6.5
5	64QAM	12	7	5.73	5.55	5.59	5.59	5.91	
5	64QAM	12	13	5.79	5.70	5.57	5.43	5.70	
5	64QAM	25	0	5.59	5.49	5.70	5.71	5.58	
5	256QAM	1	0	1.92	1.70	1.69	1.78	1.99	2.5
5	256QAM	1	12	1.73	1.58	1.77	2.05	1.67	
5	256QAM	1	24	1.63	1.92	1.79	1.88	1.79	
5	256QAM	12	0	1.58	1.48	1.58	1.73	1.58	2
5	256QAM	12	7	1.52	1.57	1.49	1.39	1.48	
5	256QAM	12	13	1.48	1.46	1.63	1.25	1.58	
5	256QAM	25	0	1.26	1.39	1.32	1.37	1.67	

2CC Uplink Carrier Aggregation for Intra-band										
CA_5B Combination:10MHz+10MHz(50RB+50RB)										
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)
				RB Size	RB Offset	RB Size	RB Offset			
20450	20450	20549	QPSK	1	0	0	0	1	0	18.59
20525	20476	20575	QPSK	1	0	0	0	1	0	18.76
20600	20501	20600	QPSK	1	0	0	0	1	0	18.73

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)
				RB Size	RB Offset	RB Size	RB Offset			
55340	55340	55538	QPSK	1	0	0	0	1	0	13.31
55990	55891	56089	QPSK	1	0	0	0	1	0	13.67
56640	56442	56640	QPSK	1	0	0	0	1	0	13.55

CA_48E Combination:20MHz+20MHz(100RB+100RB)															
PCC Channel	PCC Channel (3GPP)	SCC Channel	SCC Channel	SCC Channel	Modulation	PCC		SCC		SCC		SCC		Total RB Size	Target MPR Level(dB)
						RB Size	RB Offset	RB Size	RB Offset	RB Size	RB Offset	RB Size	RB Offset		
55340	55340	55538	55736	55736	QPSK	1	0	1	0	1	0	1	0	1	13.23
55990	55891	56089	56188	56188	QPSK	1	0	1	0	1	0	1	0	1	13.54
56640	56442	56640	56640	56640	QPSK	1	0	1	0	1	0	1	0	1	13.41

Reduced Power Level 3										
2CC Uplink Carrier Aggregation for Inter-band										
CA_5A_66A										
Combination:10MHz+20MHz(50RB+50RB)										
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)
				RB Size	RB Offset	RB Size	RB Offset			
20450	20450	132072	QPSK	1	0	0	0	1	0	18.11
20525	20525	132322	QPSK	1	0	0	0	1	0	18.22
20600	20600	132572	QPSK	1	0	0	0	1	0	17.72

CA_4A_5A										
Combination:20MHz+10MHz(100RB+50RB)										
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)
				RB Size	RB Offset	RB Size	RB Offset			
20050	20050	20450	QPSK	1	0	0	0	1	0	14.23
20175	20175	20525	QPSK	1	0	0	0	1	0	14.21
20300	20300	20600	QPSK	1	0	0	0	1	0	14.11

CA_4A_13A										
Combination:20MHz+10MHz(100RB+50RB)										
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)
				RB Size	RB Offset	RB Size	RB Offset			
20050	20050	23230	QPSK	1	0	0	0	1	0	14.39
20175	20175	23230	QPSK	1	0	0	0	1	0	14.06
20300	20300	23230	QPSK	1	0	0	0	1	0	14.03

CA_2A_5A										
Combination:20MHz+10MHz(100RB+50RB)										
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)
				RB Size	RB Offset	RB Size	RB Offset			
18700	18700	20450	QPSK	1	0	0	0	1	0	14.24
18900	18900	20525	QPSK	1	0	0	0	1	0	15.16
19100	19100	20600	QPSK	1	0	0	0	1	0	15.32

CA_2A_13A										
Combination:20MHz+10MHz(100RB+50RB)										
PCC Channel	PCC Channel (3GPP)	SCC Channel	Modulation	PCC		SCC		Total RB Size	Target MPR Level(dB)	Measured Power(dBm)
				RB Size	RB Offset	RB Size	RB Offset			
18700	18700	23230	QPSK	1	0	0	0	1	0	14.13
18900	18900	23230	QPSK	1	0	0	0	1	0	15.01
19100	19100	23230	QPSK	1	0	0	0	1	0	15.44

CA_13A_66A										
Combination:10MHz+20MHz(50RB+100RB)										
PCC	PCC	SCC		PCC		SCC		Total	Target MPR	Measured

Channel	Channel (3GPP)	Channel	Modulation	RB Size	RB Offset	RB Size	RB Offset	RB Size	Target RSRP Level(dB)	Measured Power(dBm)
23230	23230	132072	QPSK	1	0	0	0	1	0	23.91
23230	23230	132322	QPSK	1	0	0	0	1	0	23.89
23230	23230	132572	QPSK	1	0	0	0	1	0	24.03

2CC LTE Downlink													
Configure		CA Configuration	PCC					SCC				Power	
			Band	BW (MHz)	UL Channel	UL Fre. (MHz)	UL Mode (Modulation/RB/Offset)	Band	BW (MHz)	DL Channel	DL Fre. (MHz)	CA TX (dBm)	Rel.8 TX (dBm)
Intra-band	Non Continuous	CA_2A_2A	2	20	18700	1860	QPSK/1#0	2	20	19100	1900	22.25	
		CA_4A_4A	4	20	20050	1720	QPSK/1#0	4	20	20300	1745	22.59	
		CA_66A_66A	66	20	132072	1720	QPSK/1#0	66	20	132597	1772.5	22.55	

3CC LTE Downlink																
Configure		CA Configuration	PCC					SCC1				SCC2				Power
			Band	BW (MHz)	UL Channel	UL Fre. (MHz)	UL Mode (Modulation/RB/Offset)	Band	BW (MHz)	DL Channel	DL Fre. (MHz)	Band	BW (MHz)	DL Channel	DL Fre. (MHz)	CA TX (dBm)
Inter-band		CA_2A_5B	2	20	18700	1860	QPSK/1#0	5	10	20476	831.6	5	10	2575	886.5	22.18
		CA_4A_5B	4	20	20050	1720	QPSK/1#0	5	10	20476	831.6	5	10	2575	886.5	22.42
		CA_5A_5A_66A	5	10	20450	829	QPSK/1#0	5	10	20600	844	66	20	67036	2170	22.11
		CA_5B_66A	5	10	20476	831.6	QPSK/1#0	5	10	20575	841.5	66	20	67036	2170	22.33

5	16QAM	1	12	9.35	9.59	9.41	10
5	16QAM	1	24	9.30	9.55	9.39	
5	16QAM	12	0	9.48	9.50	9.52	
5	16QAM	12	7	9.42	9.44	9.45	10
5	16QAM	12	13	9.33	9.31	9.40	
5	16QAM	25	0	9.30	9.27	9.33	
5	64QAM	1	0	9.28	9.53	9.48	10
5	64QAM	1	12	9.18	9.47	9.45	
5	64QAM	1	24	9.13	9.36	9.32	
5	64QAM	12	0	9.25	9.28	9.19	10
5	64QAM	12	7	9.22	9.25	9.11	
5	64QAM	12	13	9.08	9.14	8.99	
5	64QAM	25	0	9.01	9.06	8.94	
5	256QAM	1	0	5.23	5.32	5.28	6
5	256QAM	1	12	5.21	5.26	5.22	
5	256QAM	1	24	5.24	5.18	5.12	
5	256QAM	12	0	4.82	4.89	4.86	5.5
5	256QAM	12	7	4.75	4.87	4.78	
5	256QAM	12	13	4.70	4.78	4.73	
5	256QAM	25	0	4.73	4.79	4.74	
Channel				18615	18900	19185	Tune-up limit (dBm)
Frequency (MHz)				1851.5	1880	1908.5	
3	QPSK	1	0	10.53	10.65	10.67	11
3	QPSK	1	8	10.36	10.26	10.25	
3	QPSK	1	14	10.25	10.16	10.08	
3	QPSK	8	0	9.43	9.47	9.34	10
3	QPSK	8	4	9.34	9.43	9.25	
3	QPSK	8	7	9.27	9.35	9.14	
3	QPSK	15	0	9.17	9.23	9.10	
3	16QAM	1	0	9.37	9.51	9.36	10
3	16QAM	1	8	9.25	9.49	9.31	
3	16QAM	1	14	9.20	9.45	9.29	
3	16QAM	8	0	9.38	9.40	9.42	10
3	16QAM	8	4	9.32	9.34	9.35	
3	16QAM	8	7	9.23	9.21	9.30	
3	16QAM	15	0	9.20	9.17	9.23	
3	64QAM	1	0	9.18	9.43	9.38	10
3	64QAM	1	8	9.08	9.37	9.35	
3	64QAM	1	14	9.03	9.26	9.22	
3	64QAM	8	0	9.15	9.18	9.09	10
3	64QAM	8	4	9.12	9.15	9.01	
3	64QAM	8	7	8.98	9.04	8.89	
3	64QAM	15	0	8.91	8.96	8.84	
3	256QAM	1	0	5.13	5.22	5.18	6
3	256QAM	1	8	5.11	5.16	5.12	
3	256QAM	1	14	5.14	5.08	5.02	
3	256QAM	8	0	4.72	4.79	4.76	5.5
3	256QAM	8	4	4.65	4.77	4.68	
3	256QAM	8	7	4.60	4.68	4.63	
3	256QAM	15	0	4.63	4.69	4.64	
Channel				18607	18900	19193	Tune-up limit (dBm)
Frequency (MHz)				1850.7	1880	1909.3	
1.4	QPSK	1	0	10.41	10.53	10.55	11
1.4	QPSK	1	3	10.24	10.14	10.13	
1.4	QPSK	1	5	10.13	10.04	9.96	
1.4	QPSK	3	0	9.31	9.35	9.22	9.5
1.4	QPSK	3	1	9.22	9.31	9.13	
1.4	QPSK	3	3	9.15	9.23	9.02	
1.4	QPSK	6	0	9.05	9.11	8.98	10
1.4	16QAM	1	0	9.25	9.39	9.24	
1.4	16QAM	1	3	9.13	9.37	9.19	
1.4	16QAM	1	5	9.08	9.33	9.17	
1.4	16QAM	3	0	9.26	9.28	9.30	9.5
1.4	16QAM	3	1	9.20	9.22	9.23	
1.4	16QAM	3	3	9.11	9.09	9.18	
1.4	16QAM	6	0	9.08	9.05	9.11	10
1.4	64QAM	1	0	9.06	9.31	9.26	
1.4	64QAM	1	3	8.96	9.25	9.23	
1.4	64QAM	1	5	8.91	9.14	9.10	
1.4	64QAM	3	0	9.03	9.06	8.97	9.5
1.4	64QAM	3	1	9.00	9.03	8.89	
1.4	64QAM	3	3	8.86	8.92	8.77	
1.4	64QAM	6	0	8.79	8.84	8.72	10
1.4	256QAM	1	0	5.01	5.10	5.06	5.5
1.4	256QAM	1	3	4.99	5.04	5.00	
1.4	256QAM	1	5	5.02	4.96	4.90	
1.4	256QAM	3	0	4.60	4.67	4.64	
1.4	256QAM	3	1	4.53	4.65	4.56	
1.4	256QAM	3	3	4.48	4.56	4.51	5
1.4	256QAM	6	0	4.51	4.57	4.52	

5	16QAM	1	12	9.52	9.66	9.49	10
5	16QAM	1	24	9.48	9.64	9.39	
5	16QAM	12	0	9.48	9.53	9.57	
5	16QAM	12	7	9.44	9.44	9.48	10
5	16QAM	12	13	9.40	9.38	9.44	
5	16QAM	25	0	9.34	9.36	9.41	
5	64QAM	1	0	9.69	9.50	9.71	10
5	64QAM	1	12	9.67	9.49	9.69	
5	64QAM	1	24	9.61	9.45	9.65	
5	64QAM	12	0	9.58	9.25	9.28	10
5	64QAM	12	7	9.20	9.23	9.20	
5	64QAM	12	13	9.14	9.15	9.11	
5	64QAM	25	0	9.13	9.12	9.10	
5	256QAM	1	0	5.40	5.45	5.41	6
5	256QAM	1	12	5.37	5.39	5.32	
5	256QAM	1	24	5.35	5.35	5.30	
5	256QAM	12	0	4.92	4.95	4.86	5.5
5	256QAM	12	7	4.84	4.86	4.85	
5	256QAM	12	13	4.78	4.78	4.78	
5	256QAM	25	0	4.70	4.77	4.72	
Channel				19965	20175	20385	Tune-up limit (dBm)
Frequency (MHz)				1711.5	1732.5	1753.5	
3	QPSK	1	0	10.57	10.64	10.59	11
3	QPSK	1	8	10.51	10.54	10.52	
3	QPSK	1	14	10.47	10.46	10.42	
3	QPSK	8	0	9.53	9.58	9.54	10
3	QPSK	8	4	9.52	9.50	9.51	
3	QPSK	8	7	9.47	9.44	9.41	
3	QPSK	15	0	9.39	9.41	9.37	
3	16QAM	1	0	9.50	9.55	9.46	10
3	16QAM	1	8	9.40	9.54	9.37	
3	16QAM	1	14	9.36	9.52	9.27	
3	16QAM	8	0	9.36	9.41	9.45	10
3	16QAM	8	4	9.32	9.32	9.36	
3	16QAM	8	7	9.28	9.26	9.32	
3	16QAM	15	0	9.22	9.24	9.29	
3	64QAM	1	0	9.57	9.38	9.59	9.5
3	64QAM	1	8	9.55	9.37	9.57	
3	64QAM	1	14	9.49	9.33	9.53	
3	64QAM	8	0	9.46	9.13	9.16	6
3	64QAM	8	4	9.08	9.11	9.08	
3	64QAM	8	7	9.02	9.03	8.99	
3	64QAM	15	0	9.01	9.00	8.98	
3	256QAM	1	0	5.28	5.33	5.29	5.5
3	256QAM	1	8	5.25	5.27	5.20	
3	256QAM	1	14	5.23	5.23	5.18	
3	256QAM	8	0	4.80	4.83	4.74	
3	256QAM	8	4	4.72	4.74	4.73	
3	256QAM	8	7	4.66	4.66	4.66	
3	256QAM	15	0	4.58	4.65	4.60	
Channel				19957	20175	20393	Tune-up limit (dBm)
Frequency (MHz)				1710.7	1732.5	1754.3	
1.4	QPSK	1	0	10.47	10.54	10.49	11
1.4	QPSK	1	3	10.41	10.44	10.42	
1.4	QPSK	1	5	10.37	10.36	10.32	
1.4	QPSK	3	0	9.43	9.48	9.44	9.5
1.4	QPSK	3	1	9.42	9.40	9.41	
1.4	QPSK	3	3	9.37	9.34	9.31	
1.4	QPSK	6	0	9.29	9.31	9.27	10
1.4	16QAM	1	0	9.40	9.45	9.36	
1.4	16QAM	1	3	9.30	9.44	9.27	
1.4	16QAM	1	5	9.26	9.42	9.17	
1.4	16QAM	3	0	9.26	9.31	9.35	10
1.4	16QAM	3	1	9.22	9.22	9.26	
1.4	16QAM	3	3	9.18	9.16	9.22	
1.4	16QAM	6	0	9.12	9.14	9.19	9.5
1.4	64QAM	1	0	9.47	9.28	9.49	
1.4	64QAM	1	3	9.45	9.27	9.47	
1.4	64QAM	1	5	9.39	9.23	9.43	
1.4	64QAM	3	0	9.36	9.03	9.06	6
1.4	64QAM	3	1	8.98	9.01	8.98	
1.4	64QAM	3	3	8.92	8.93	8.89	
1.4	64QAM	6	0	8.91	8.90	8.88	
1.4	256QAM	1	0	5.18	5.23	5.19	5.5
1.4	256QAM	1	3	5.15	5.17	5.10	
1.4	256QAM	1	5	5.13	5.13	5.08	
1.4	256QAM	3	0	4.70	4.73	4.64	
1.4	256QAM	3	1	4.62	4.64	4.63	
1.4	256QAM	3	3	4.56	4.56	4.56	
1.4	256QAM	6	0	4.48	4.55	4.50	5

1.4	16QAM	1	3	22.48	22.52	22.43	23
1.4	16QAM	1	5	22.45	22.49	22.42	
1.4	16QAM	3	0	22.34	22.30	22.26	
1.4	16QAM	3	1	22.32	22.23	22.20	
1.4	16QAM	3	3	22.22	22.16	22.17	
1.4	16QAM	6	0	22.15	22.12	22.12	23
1.4	64QAM	1	0	22.38	22.47	22.48	23
1.4	64QAM	1	3	22.35	22.43	22.43	
1.4	64QAM	1	5	22.27	22.39	22.39	
1.4	64QAM	3	0	22.20	22.13	22.22	
1.4	64QAM	3	1	22.11	22.01	22.11	
1.4	64QAM	3	3	22.07	21.96	22.03	22.5
1.4	64QAM	6	0	22.01	21.85	21.96	
1.4	256QAM	1	0	18.52	18.57	18.50	19
1.4	256QAM	1	3	18.47	18.48	18.47	
1.4	256QAM	1	5	18.44	18.40	18.45	
1.4	256QAM	3	0	17.66	17.78	17.62	
1.4	256QAM	3	1	17.60	17.73	17.54	
1.4	256QAM	3	3	17.55	17.63	17.45	18
1.4	256QAM	6	0	17.52	17.61	17.36	

LTE Band 66(Reduced Power Level 4)

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	11.02	11.05	11.00	11.5
20	QPSK	1	49	10.97	11.01	10.95	
20	QPSK	1	99	10.89	10.98	10.89	
20	QPSK	50	0	9.96	10.11	9.98	10.5
20	QPSK	50	24	9.90	10.01	9.94	
20	QPSK	50	50	9.86	9.95	9.85	
20	QPSK	100	0	9.81	9.86	9.84	10.5
20	16QAM	1	0	10.05	10.09	10.07	
20	16QAM	1	49	9.98	10.06	9.99	
20	16QAM	1	99	9.89	10.00	9.89	10.5
20	16QAM	50	0	9.86	9.88	9.86	
20	16QAM	50	24	9.83	9.87	9.82	
20	16QAM	50	50	9.75	9.79	9.73	10.5
20	16QAM	100	0	9.69	9.70	9.65	
20	64QAM	1	0	9.85	10.00	9.93	
20	64QAM	1	49	9.82	9.99	9.90	10.5
20	64QAM	1	99	9.75	9.97	9.84	
20	64QAM	50	0	9.78	9.82	9.86	
20	64QAM	50	24	9.76	9.77	9.83	10.5
20	64QAM	50	50	9.71	9.71	9.80	
20	64QAM	100	0	9.61	9.69	9.76	
20	256QAM	1	0	5.68	5.78	5.74	6.5
20	256QAM	1	49	5.66	5.75	5.64	
20	256QAM	1	99	5.56	5.74	5.53	
20	256QAM	50	0	5.19	5.30	5.25	6
20	256QAM	50	24	5.17	5.26	5.18	
20	256QAM	50	50	5.14	5.16	5.16	
20	256QAM	100	0	5.10	5.07	5.12	
Channel				132047	132322	132597	Tune-up limit (dBm)
Frequency (MHz)				1717.5	1745	1772.5	
15	QPSK	1	0	10.90	10.93	10.88	11.5
15	QPSK	1	37	10.85	10.89	10.83	
15	QPSK	1	74	10.77	10.86	10.77	
15	QPSK	36	0	9.84	9.99	9.86	10.5
15	QPSK	36	20	9.78	9.89	9.82	
15	QPSK	36	39	9.74	9.83	9.73	
15	QPSK	75	0	9.69	9.74	9.72	10.5
15	16QAM	1	0	9.93	9.97	9.95	
15	16QAM	1	37	9.86	9.94	9.87	
15	16QAM	1	74	9.77	9.88	9.77	10.5
15	16QAM	36	0	9.74	9.76	9.74	
15	16QAM	36	20	9.71	9.75	9.70	
15	16QAM	36	39	9.63	9.67	9.61	10.5
15	16QAM	75	0	9.57	9.58	9.53	
15	64QAM	1	0	9.73	9.88	9.81	
15	64QAM	1	37	9.70	9.87	9.78	10.5
15	64QAM	1	74	9.63	9.85	9.72	
15	64QAM	36	0	9.66	9.70	9.74	
15	64QAM	36	20	9.64	9.65	9.71	10.5
15	64QAM	36	39	9.59	9.59	9.68	
15	64QAM	75	0	9.49	9.57	9.64	
15	256QAM	1	0	5.56	5.66	5.62	6.5
15	256QAM	1	37	5.54	5.63	5.52	
15	256QAM	1	74	5.44	5.62	5.41	
15	256QAM	36	0	5.07	5.18	5.13	6
15	256QAM	36	20	5.05	5.14	5.06	
15	256QAM	36	39	5.02	5.04	5.04	
15	256QAM	75	0	4.98	4.95	5.00	
Channel				132022	132322	132622	Tune-up limit (dBm)
Frequency (MHz)				1715	1745	1775	
10	QPSK	1	0	10.78	10.81	10.76	11.5
10	QPSK	1	25	10.73	10.77	10.71	
10	QPSK	1	49	10.65	10.74	10.65	
10	QPSK	25	0	9.72	9.87	9.74	10.5
10	QPSK	25	12	9.66	9.77	9.70	
10	QPSK	25	25	9.62	9.71	9.61	
10	QPSK	50	0	9.57	9.62	9.60	10.5
10	16QAM	1	0	9.81	9.85	9.83	
10	16QAM	1	25	9.74	9.82	9.75	
10	16QAM	1	49	9.65	9.76	9.65	10
10	16QAM	25	0	9.62	9.64	9.62	
10	16QAM	25	12	9.59	9.63	9.58	
10	16QAM	25	25	9.51	9.55	9.49	10.5
10	16QAM	50	0	9.45	9.46	9.41	
10	64QAM	1	0	9.61	9.76	9.69	
10	64QAM	1	25	9.58	9.75	9.66	10
10	64QAM	1	49	9.51	9.73	9.60	
10	64QAM	25	0	9.54	9.58	9.62	
10	64QAM	25	12	9.52	9.53	9.59	6
10	64QAM	25	25	9.47	9.47	9.56	
10	64QAM	50	0	9.37	9.45	9.52	
10	256QAM	1	0	5.44	5.54	5.50	5.5
10	256QAM	1	25	5.42	5.51	5.40	
10	256QAM	1	49	5.32	5.50	5.29	
10	256QAM	25	0	4.95	5.06	5.01	5.5
10	256QAM	25	12	4.93	5.02	4.94	
10	256QAM	25	25	4.90	4.92	4.92	
10	256QAM	50	0	4.86	4.83	4.88	
Channel				131997	132322	132647	Tune-up limit (dBm)
Frequency (MHz)				1712.5	1745	1777.5	
5	QPSK	1	0	10.67	10.70	10.65	11.5
5	QPSK	1	12	10.62	10.66	10.60	
5	QPSK	1	24	10.54	10.63	10.54	
5	QPSK	12	0	9.61	9.76	9.63	10.5
5	QPSK	12	7	9.55	9.66	9.59	
5	QPSK	12	13	9.51	9.60	9.50	
5	QPSK	25	0	9.46	9.51	9.49	
5	16QAM	1	0	9.70	9.74	9.72	

5	16QAM	1	12	9.63	9.71	9.64	10.5
5	16QAM	1	24	9.54	9.65	9.54	
5	16QAM	12	0	9.51	9.53	9.51	
5	16QAM	12	7	9.48	9.52	9.47	10
5	16QAM	12	13	9.40	9.44	9.38	
5	16QAM	25	0	9.34	9.35	9.30	
5	64QAM	1	0	9.50	9.65	9.58	10
5	64QAM	1	12	9.47	9.64	9.55	
5	64QAM	1	24	9.40	9.62	9.49	
5	64QAM	12	0	9.43	9.47	9.51	10
5	64QAM	12	7	9.41	9.42	9.48	
5	64QAM	12	13	9.36	9.36	9.45	
5	64QAM	25	0	9.26	9.34	9.41	
5	256QAM	1	0	5.33	5.43	5.39	6
5	256QAM	1	12	5.31	5.40	5.29	
5	256QAM	1	24	5.21	5.39	5.18	
5	256QAM	12	0	4.84	4.95	4.90	5.5
5	256QAM	12	7	4.82	4.91	4.83	
5	256QAM	12	13	4.79	4.81	4.81	
5	256QAM	25	0	4.75	4.72	4.77	
Channel				131987	132322	132657	
Frequency (MHz)				1711.5	1745	1778.5	Tune-up limit (dBm)
3	QPSK	1	0	10.57	10.60	10.55	11
3	QPSK	1	8	10.52	10.56	10.50	
3	QPSK	1	14	10.44	10.53	10.44	
3	QPSK	8	0	9.51	9.66	9.53	10
3	QPSK	8	4	9.45	9.56	9.49	
3	QPSK	8	7	9.41	9.50	9.40	
3	QPSK	15	0	9.36	9.41	9.39	
3	16QAM	1	0	9.60	9.64	9.62	10
3	16QAM	1	8	9.53	9.61	9.54	
3	16QAM	1	14	9.44	9.55	9.44	
3	16QAM	8	0	9.41	9.43	9.41	10
3	16QAM	8	4	9.38	9.42	9.37	
3	16QAM	8	7	9.30	9.34	9.28	
3	16QAM	15	0	9.24	9.25	9.20	
3	64QAM	1	0	9.40	9.55	9.48	10
3	64QAM	1	8	9.37	9.54	9.45	
3	64QAM	1	14	9.30	9.52	9.39	
3	64QAM	8	0	9.33	9.37	9.41	10
3	64QAM	8	4	9.31	9.32	9.38	
3	64QAM	8	7	9.26	9.26	9.35	
3	64QAM	15	0	9.16	9.24	9.31	
3	256QAM	1	0	5.23	5.33	5.29	6
3	256QAM	1	8	5.21	5.30	5.19	
3	256QAM	1	14	5.11	5.29	5.08	
3	256QAM	8	0	4.74	4.85	4.80	5.5
3	256QAM	8	4	4.72	4.81	4.73	
3	256QAM	8	7	4.69	4.71	4.71	
3	256QAM	15	0	4.65	4.62	4.67	
Channel				131979	132322	132665	
Frequency (MHz)				1710.7	1745	1779.3	Tune-up limit (dBm)
1.4	QPSK	1	0	10.46	10.49	10.44	11
1.4	QPSK	1	3	10.41	10.45	10.39	
1.4	QPSK	1	5	10.33	10.42	10.33	
1.4	QPSK	3	0	9.40	9.55	9.42	
1.4	QPSK	3	1	9.34	9.45	9.38	
1.4	QPSK	3	3	9.30	9.39	9.29	
1.4	QPSK	6	0	9.25	9.30	9.28	10
1.4	16QAM	1	0	9.49	9.53	9.51	10
1.4	16QAM	1	3	9.42	9.50	9.43	
1.4	16QAM	1	5	9.33	9.44	9.33	
1.4	16QAM	3	0	9.30	9.32	9.30	
1.4	16QAM	3	1	9.27	9.31	9.26	
1.4	16QAM	3	3	9.19	9.23	9.17	
1.4	16QAM	6	0	9.13	9.14	9.09	9.5
1.4	64QAM	1	0	9.29	9.44	9.37	10
1.4	64QAM	1	3	9.26	9.43	9.34	
1.4	64QAM	1	5	9.19	9.41	9.28	
1.4	64QAM	3	0	9.22	9.26	9.30	
1.4	64QAM	3	1	9.20	9.21	9.27	
1.4	64QAM	3	3	9.15	9.15	9.24	
1.4	64QAM	6	0	9.05	9.13	9.20	9.5
1.4	256QAM	1	0	5.12	5.22	5.18	6
1.4	256QAM	1	3	5.10	5.19	5.08	
1.4	256QAM	1	5	5.00	5.18	4.97	
1.4	256QAM	3	0	4.63	4.74	4.69	
1.4	256QAM	3	1	4.61	4.70	4.62	
1.4	256QAM	3	3	4.58	4.60	4.60	
1.4	256QAM	6	0	4.54	4.51	4.56	5

LTE Band 48(Reduced Power Level 4)

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Middle-Low Channel	Middle-Low Channel	Middle-High Channel	High Channel	Tune-up limit (dBm)
Channel				55340	55830	55990	56150	56640	
Frequency (MHz)				3560	3609	3625	3641	3690	
20	QPSK	1	0	8.01	7.97	8.11	8.04	8.01	8.5
20	QPSK	1	49	7.83	7.85	7.91	7.86	7.78	
20	QPSK	1	99	7.80	7.76	7.70	7.88	7.89	
20	QPSK	50	0	6.90	6.91	7.01	6.96	6.89	7.5
20	QPSK	50	24	6.80	6.85	6.85	6.86	6.87	
20	QPSK	50	50	6.86	6.82	6.96	6.76	6.83	
20	QPSK	100	0	6.83	6.86	6.82	6.91	6.73	7.5
20	16QAM	1	0	7.01	6.89	6.91	6.81	6.96	
20	16QAM	1	49	6.88	6.76	6.76	6.96	6.87	
20	16QAM	1	99	6.90	6.91	6.80	6.77	6.79	7.5
20	16QAM	50	0	6.85	6.89	6.83	6.70	6.60	
20	16QAM	50	24	6.79	6.80	6.75	6.68	6.63	
20	16QAM	50	50	6.71	6.73	6.88	6.87	6.76	7.5
20	16QAM	100	0	6.82	6.91	6.93	6.88	6.73	
20	64QAM	1	0	7.10	7.05	6.98	7.05	6.91	7.5
20	64QAM	1	49	7.07	6.94	7.15	6.91	6.90	
20	64QAM	1	99	7.00	7.20	7.09	7.00	6.88	
20	64QAM	50	0	6.04	6.16	6.32	6.20	6.14	6.5
20	64QAM	50	24	6.06	5.88	5.92	5.92	6.24	
20	64QAM	50	50	6.12	6.03	5.90	5.76	6.03	
20	64QAM	100	0	5.92	5.82	6.03	6.04	5.91	3
20	256QAM	1	0	2.25	2.03	2.02	2.11	2.32	
20	256QAM	1	49	2.06	1.91	2.10	2.38	2.00	
20	256QAM	1	99	1.96	2.25	2.12	2.21	2.12	2.5
20	256QAM	50	0	1.91	1.81	1.91	2.06	1.91	
20	256QAM	50	24	1.85	1.90	1.82	1.72	1.81	
20	256QAM	50	50	1.81	1.79	1.96	1.58	1.91	2.5
20	256QAM	100	0	1.59	1.72	1.65	1.70	2.00	
Channel				55315	55820	55990	56160	56665	Tune-up limit (dBm)
Frequency (MHz)				3557.5	3608	3625	3642	3692.5	
15	QPSK	1	0	7.90	7.86	8.00	7.93	7.90	8.5
15	QPSK	1	37	7.72	7.74	7.80	7.75	7.67	
15	QPSK	1	74	7.69	7.65	7.59	7.77	7.78	
15	QPSK	36	0	6.79	6.80	6.90	6.85	6.78	7.5
15	QPSK	36	20	6.69	6.74	6.74	6.75	6.76	
15	QPSK	36	39	6.75	6.71	6.85	6.65	6.72	
15	QPSK	75	0	6.72	6.75	6.71	6.80	6.62	7.5
15	16QAM	1	0	6.90	6.78	6.80	6.70	6.85	
15	16QAM	1	37	6.77	6.65	6.65	6.85	6.76	
15	16QAM	1	74	6.79	6.80	6.69	6.66	6.68	7.5
15	16QAM	36	0	6.74	6.78	6.72	6.59	6.49	
15	16QAM	36	20	6.68	6.69	6.64	6.57	6.52	
15	16QAM	36	39	6.60	6.62	6.77	6.76	6.65	7.5
15	16QAM	75	0	6.71	6.80	6.82	6.77	6.62	
15	64QAM	1	0	6.99	6.94	6.87	6.94	6.80	
15	64QAM	1	37	6.96	6.83	7.04	6.80	6.79	6.5
15	64QAM	1	74	6.89	7.09	6.98	6.89	6.77	
15	64QAM	36	0	5.93	6.05	6.21	6.09	6.03	
15	64QAM	36	20	5.95	5.77	5.81	5.81	6.13	3
15	64QAM	36	39	6.01	5.92	5.79	5.65	5.92	
15	64QAM	75	0	5.81	5.71	5.92	5.93	5.80	
15	256QAM	1	0	2.14	1.92	1.91	2.00	2.21	2.5
15	256QAM	1	37	1.95	1.80	1.99	2.27	1.89	
15	256QAM	1	74	1.85	2.14	2.01	2.10	2.01	
15	256QAM	36	0	1.80	1.70	1.80	1.95	1.80	2.5
15	256QAM	36	20	1.74	1.79	1.71	1.61	1.70	
15	256QAM	36	39	1.70	1.68	1.85	1.47	1.80	
15	256QAM	75	0	1.48	1.61	1.54	1.59	1.89	Tune-up limit (dBm)
Channel				55290	55815	55990	56165	56690	
Frequency (MHz)				3555	3607.5	3625	3642.5	3695	Tune-up limit (dBm)
10	QPSK	1	0	7.80	7.76	7.90	7.83	7.80	
10	QPSK	1	25	7.62	7.64	7.70	7.65	7.57	8.5
10	QPSK	1	49	7.59	7.55	7.53	7.67	7.68	
10	QPSK	25	0	6.69	6.70	6.80	6.75	6.72	7.5
10	QPSK	25	12	6.59	6.64	6.64	6.65	6.66	
10	QPSK	25	25	6.65	6.61	6.75	6.55	6.62	
10	QPSK	50	0	6.62	6.65	6.61	6.70	6.52	7.5
10	16QAM	1	0	6.80	6.68	6.70	6.60	6.75	
10	16QAM	1	25	6.67	6.55	6.55	6.75	6.66	
10	16QAM	1	49	6.69	6.70	6.59	6.56	6.58	7.5
10	16QAM	25	0	6.64	6.68	6.62	6.49	6.39	
10	16QAM	25	12	6.58	6.59	6.54	6.47	6.42	
10	16QAM	25	25	6.50	6.52	6.67	6.66	6.55	7.5
10	16QAM	25	25	6.50	6.52	6.67	6.66	6.55	

10	16QAM	50	0	6.61	6.70	6.72	6.67	6.52	7.5
10	64QAM	1	0	6.89	6.84	6.77	6.84	6.70	
10	64QAM	1	25	6.86	6.73	6.94	6.70	6.69	
10	64QAM	1	49	6.79	6.99	6.88	6.79	6.67	
10	64QAM	25	0	5.83	5.95	6.11	5.99	5.93	6.5
10	64QAM	25	12	5.85	5.67	5.71	5.71	6.03	
10	64QAM	25	25	5.91	5.82	5.69	5.55	5.82	
10	64QAM	50	0	5.71	5.61	5.82	5.83	5.70	
10	256QAM	1	0	2.04	1.82	1.81	1.90	2.11	3
10	256QAM	1	25	1.85	1.70	1.89	2.17	1.79	
10	256QAM	1	49	1.75	2.04	1.91	2.00	1.91	
10	256QAM	25	0	1.70	1.60	1.70	1.85	1.70	
10	256QAM	25	12	1.64	1.69	1.61	1.51	1.60	2.5
10	256QAM	25	25	1.60	1.58	1.75	1.58	1.70	
10	256QAM	50	0	1.55	1.51	1.42	1.49	1.79	
Channel				55265	55810	55990	56170	56175	Tune-up limit (dBm)
Frequency (MHz)				3552.5	3607	3625	3643	3697.5	
5	QPSK	1	0	7.68	7.64	7.78	7.71	7.68	8.5
5	QPSK	1	12	7.50	7.52	7.58	7.53	7.45	
5	QPSK	1	24	7.47	7.43	7.37	7.55	7.56	
5	QPSK	12	0	6.57	6.58	6.68	6.63	6.56	
5	QPSK	12	7	6.47	6.52	6.52	6.53	6.54	7
5	QPSK	12	13	6.53	6.49	6.63	6.43	6.50	
5	QPSK	25	0	6.50	6.53	6.49	6.58	6.40	
5	16QAM	1	0	6.68	6.56	6.58	6.48	6.63	
5	16QAM	1	12	6.55	6.43	6.43	6.63	6.54	7
5	16QAM	1	24	6.57	6.58	6.47	6.44	6.46	
5	16QAM	12	0	6.52	6.56	6.50	6.37	6.27	
5	16QAM	12	7	6.46	6.47	6.42	6.35	6.30	
5	16QAM	12	13	6.38	6.40	6.55	6.54	6.43	7
5	16QAM	25	0	6.49	6.58	6.60	6.55	6.40	
5	64QAM	1	0	6.77	6.72	6.65	6.72	6.58	
5	64QAM	1	12	6.74	6.61	6.82	6.58	6.57	
5	64QAM	1	24	6.67	6.87	6.76	6.67	6.55	6.5
5	64QAM	12	0	5.71	5.83	5.99	5.87	5.81	
5	64QAM	12	7	5.73	5.55	5.59	5.59	5.91	
5	64QAM	12	13	5.79	5.70	5.57	5.43	5.70	
5	64QAM	25	0	5.59	5.49	5.70	5.71	5.58	2.5
5	256QAM	1	0	1.92	1.70	1.69	1.78	1.99	
5	256QAM	1	12	1.73	1.58	1.77	2.05	1.67	
5	256QAM	1	24	1.63	1.92	1.79	1.88	1.79	
5	256QAM	12	0	1.58	1.48	1.58	1.73	1.58	2
5	256QAM	12	7	1.52	1.57	1.49	1.39	1.48	
5	256QAM	12	13	1.48	1.46	1.63	1.25	1.58	
5	256QAM	25	0	1.26	1.39	1.32	1.37	1.67	

