



Bandwidth	RB size/offset	Frequency (MHz)	Power(dBm)			
			QPSK	16QAM	64QAM	256QAM
10MHz	1 RB high	844.0	24.00	23.26	22.22	19.14
		836.5	24.13	23.23	22.27	19.27
		829.0	24.13	23.22	22.17	19.29
	1 RB low	844.0	24.01	23.25	22.23	19.19
		836.5	23.99	23.06	22.20	19.14
		829.0	24.04	23.14	22.09	19.23
	50% RB mid	844.0	22.99	22.03	21.03	19.19
		836.5	23.07	22.12	21.13	19.23
		829.0	23.09	22.08	21.08	19.29
	100% RB	844.0	23.04	22.07	21.05	19.19
		836.5	23.13	22.13	21.12	19.33
		829.0	23.06	22.05	21.05	19.27
15MHz	1 RB high	841.5	24.06	23.27	22.30	19.21
		836.5	24.07	23.33	22.30	19.25
		831.5	24.12	23.37	22.32	19.23
	1 RB low	841.5	24.08	23.27	22.25	19.27
		836.5	23.98	23.21	22.18	19.14
		831.5	23.99	23.24	22.12	19.14
	50% RB mid	841.5	22.95	21.98	20.99	19.12
		836.5	23.04	22.08	21.07	19.20
		831.5	23.13	22.05	21.08	19.32
	100% RB	841.5	23.01	22.03	20.97	19.19
		836.5	23.04	22.00	21.03	19.22
		831.5	23.00	22.07	21.01	19.19

Note: Expanded measurement uncertainty is U = 0.49dB, k = 1.96



LTE band 38

Bandwidth	RB size/offset	Frequency (MHz)	Power(dBm)			
			QPSK	16QAM	64QAM	256QAM
5MHz	1 RB high	2617.5	22.77	22.27	21.04	18.07
		2595.0	22.72	22.22	20.97	18.17
		2572.5	22.75	22.26	20.96	17.99
	1 RB low	2617.5	22.76	22.29	21.06	18.11
		2595.0	22.73	22.23	20.98	18.18
		2572.5	22.75	22.19	20.94	18.05
	50% RB mid	2617.5	21.76	21.21	20.25	18.12
		2595.0	21.71	21.13	20.17	18.12
		2572.5	21.75	21.17	20.17	18.08
	100% RB	2617.5	21.73	21.29	20.25	18.26
		2595.0	21.70	21.25	20.27	18.18
		2572.5	21.72	21.23	20.21	18.19
10MHz	1 RB high	2615.0	22.81	22.29	21.01	17.98
		2595.0	22.72	22.22	20.93	18.18
		2575.0	22.71	22.21	20.91	18.15
	1 RB low	2615.0	22.77	22.25	20.97	17.93
		2595.0	22.68	22.19	20.93	18.05
		2575.0	22.69	22.22	20.90	18.07
	50% RB mid	2615.0	21.77	21.30	20.28	18.23
		2595.0	21.66	21.23	20.24	18.20
		2575.0	21.73	21.23	20.26	18.15
	100% RB	2615.0	21.76	21.22	20.26	18.19
		2595.0	21.71	21.21	20.19	18.22
		2575.0	21.70	21.24	20.23	18.21
15MHz	1 RB high	2612.5	22.78	22.36	21.05	18.01
		2595.0	22.73	22.30	20.97	18.17
		2577.5	22.75	22.29	20.98	18.25
	1 RB low	2612.5	22.76	22.31	21.03	18.04
		2595.0	22.66	22.22	20.93	18.09
		2577.5	22.74	22.29	20.97	18.04
	50% RB mid	2612.5	21.72	21.21	20.24	18.21
		2595.0	21.69	21.17	20.21	18.22
		2577.5	21.64	21.12	20.19	18.21
	100% RB	2612.5	21.78	21.27	20.28	18.22
		2595.0	21.70	21.24	20.22	18.27



Bandwidth	RB size/offset	Frequency (MHz)	Power(dBm)			
			QPSK	16QAM	64QAM	256QAM
		2577.5	21.73	21.20	20.23	18.27
20MHz	1 RB high	2610.0	22.80	22.33	21.05	18.16
		2595.0	22.76	22.32	21.03	18.21
		2580.0	22.74	22.26	20.99	18.17
	1 RB low	2610.0	22.75	22.27	21.02	18.17
		2595.0	22.71	22.20	20.95	18.12
		2580.0	22.73	22.29	21.04	18.03
	50% RB mid	2610.0	21.81	21.30	20.27	18.23
		2595.0	21.74	21.26	20.18	18.21
		2580.0	21.76	21.23	20.21	18.28
	100% RB	2610.0	21.77	21.26	20.25	18.23
		2595.0	21.74	21.21	20.24	18.27
		2580.0	21.77	21.19	20.22	18.19

Note: Expanded measurement uncertainty is U = 0.49dB, k = 1.96



LTE band 41

Bandwidth	RB size/offset	Frequency (MHz)	Power(dBm)			
			QPSK	16QAM	64QAM	256QAM
5MHz	1 RB high	2687.5	22.26	22.19	21.54	18.53
		2593.0	22.23	22.19	21.47	18.57
		2498.5	22.11	22.10	21.39	18.42
	1 RB low	2687.5	22.30	22.19	21.56	18.58
		2593.0	22.20	22.17	21.48	18.46
		2498.5	22.08	22.08	21.41	18.41
	50% RB mid	2687.5	22.19	21.63	20.68	18.51
		2593.0	22.14	21.62	20.61	18.42
		2498.5	22.06	21.52	20.55	18.38
	100% RB	2687.5	22.21	21.76	20.79	18.52
		2593.0	22.16	21.71	20.69	18.43
		2498.5	22.09	21.62	20.61	18.38
10MHz	1 RB high	2685.0	22.17	22.14	21.46	18.44
		2593.0	22.11	22.16	21.37	18.44
		2501.0	22.11	22.11	21.35	18.38
	1 RB low	2685.0	22.24	22.21	21.49	18.51
		2593.0	22.11	22.13	21.40	18.39
		2501.0	22.11	22.04	21.33	18.43
	50% RB mid	2685.0	22.22	21.76	20.76	18.54
		2593.0	22.08	21.62	20.63	18.38
		2501.0	22.06	21.62	20.63	18.40
	100% RB	2685.0	22.25	21.73	20.74	18.51
		2593.0	22.14	21.66	20.63	18.44
		2501.0	22.11	21.64	20.57	18.37
15MHz	1 RB high	2682.5	22.16	22.21	21.45	18.48
		2593.0	22.10	22.16	21.46	18.41
		2503.5	22.13	22.19	21.34	18.40
	1 RB low	2682.5	22.25	22.29	21.58	18.52
		2593.0	22.12	22.16	21.42	18.40
		2503.5	22.11	22.11	21.33	18.38
	50% RB mid	2682.5	22.21	21.67	20.72	18.51
		2593.0	22.05	21.55	20.59	18.39



Bandwidth	RB size/offset	Frequency (MHz)	Power(dBm)			
			QPSK	16QAM	64QAM	256QAM
	100% RB	2503.5	22.04	21.53	20.56	18.35
		2682.5	22.20	21.75	20.68	18.56
		2593.0	22.10	21.61	20.60	18.47
		2503.5	22.12	21.57	20.56	18.42
20MHz	1 RB high	2680.0	22.19	22.18	21.48	18.52
		2593.0	22.20	22.18	21.46	18.50
		2506.0	22.12	22.22	21.42	18.40
	1 RB low	2680.0	22.29	22.35	21.60	18.57
		2593.0	22.21	22.17	21.43	18.54
		2506.0	22.13	22.13	21.40	18.45
	50% RB mid	2680.0	22.25	21.77	20.74	18.58
		2593.0	22.16	21.68	20.66	18.43
		2506.0	22.11	21.68	20.63	18.43
	100% RB	2680.0	22.22	21.73	20.77	18.48
		2593.0	22.15	21.70	20.67	18.41
		2506.0	22.14	21.69	20.59	18.48

Note: Expanded measurement uncertainty is U = 0.49dB, k = 1.96



LTE band 66

Bandwidth	RB size/offset	Frequency (MHz)	Power(dBm)			
			QPSK	16QAM	64QAM	256QAM
1.4MHz	1 RB high	1779.3	20.72	20.85	20.81	17.99
		1745.0	20.94	21.00	21.02	18.11
		1710.7	20.73	20.91	20.90	17.96
	1 RB low	1779.3	20.73	20.88	20.86	18.02
		1745.0	20.87	20.97	20.99	18.09
		1710.7	20.74	20.90	20.84	18.01
	50% RB mid	1779.3	20.72	20.77	20.85	18.05
		1745.0	20.78	20.80	20.96	18.04
		1710.7	20.71	20.78	20.91	18.02
	100% RB	1779.3	20.69	20.81	19.71	18.17
		1745.0	20.80	20.81	19.79	18.13
		1710.7	20.75	20.80	19.71	18.13
3MHz	1 RB high	1778.5	20.65	20.82	20.73	17.95
		1745.0	20.83	20.96	20.79	18.10
		1711.5	20.67	20.88	20.84	18.11
	1 RB low	1778.5	20.70	20.81	20.79	17.86
		1745.0	20.77	21.00	20.80	18.00
		1711.5	20.65	20.85	20.88	18.02
	50% RB mid	1778.5	20.68	20.78	19.73	18.17
		1745.0	20.78	20.86	19.81	18.15
		1711.5	20.70	20.80	19.84	18.09
	100% RB	1778.5	20.74	20.73	19.76	18.15
		1745.0	20.81	20.83	19.81	18.19
		1711.5	20.76	20.81	19.79	18.12
5MHz	1 RB high	1777.5	20.74	20.93	20.84	17.98
		1745.0	20.93	20.88	20.97	18.10
		1712.5	20.69	20.81	20.90	18.19
	1 RB low	1777.5	20.79	20.96	20.94	18.01
		1745.0	20.90	20.84	20.98	18.04
		1712.5	20.71	20.85	20.91	18.01
	50% RB mid	1777.5	20.76	20.73	19.77	18.16
		1745.0	20.80	20.80	19.82	18.17
		1712.5	20.76	20.77	19.76	18.18
	100% RB	1777.5	20.71	20.72	19.72	18.18
		1745.0	20.79	20.82	19.81	18.17
		1712.5	20.73	20.80	19.78	18.18



Bandwidth	RB size/offset	Frequency (MHz)	Power(dBm)			
			QPSK	16QAM	64QAM	256QAM
10MHz	1 RB high	1775.0	20.78	20.89	20.81	18.08
		1745.0	20.84	21.03	20.99	18.15
		1715.0	20.80	20.88	20.93	18.07
	1 RB low	1775.0	20.80	20.93	20.84	18.07
		1745.0	20.89	21.07	21.04	18.02
		1715.0	20.80	20.85	20.93	17.99
	50% RB mid	1775.0	20.74	20.81	19.78	18.17
		1745.0	20.83	20.85	19.85	18.16
		1715.0	20.71	20.81	19.77	18.19
	100% RB	1775.0	20.75	20.75	19.74	18.15
		1745.0	20.81	20.85	19.84	18.18
		1715.0	20.72	20.73	19.69	18.13
15MHz	1 RB high	1772.5	20.72	20.79	20.83	18.06
		1745.0	20.77	20.93	20.85	18.10
		1717.5	20.76	20.90	20.74	18.14
	1 RB low	1772.5	20.77	20.81	20.82	18.10
		1745.0	20.82	20.94	20.90	18.02
		1717.5	20.76	20.88	20.78	18.00
	50% RB mid	1772.5	20.70	20.71	19.74	18.17
		1745.0	20.78	20.81	19.81	18.16
		1717.5	20.74	20.74	19.77	18.19
	100% RB	1772.5	20.73	20.73	19.71	18.17
		1745.0	20.79	20.80	19.78	18.18
		1717.5	20.74	20.74	19.70	18.17
20MHz	1 RB high	1770.0	20.73	20.91	20.91	18.08
		1745.0	20.80	20.97	20.94	18.13
		1720.0	20.74	20.88	20.89	18.17
	1 RB low	1770.0	20.79	21.01	21.01	18.10
		1745.0	20.96	21.07	21.06	18.07
		1720.0	20.75	20.86	20.85	18.09
	50% RB mid	1770.0	20.75	20.76	19.77	18.18
		1745.0	20.82	20.82	19.83	18.12
		1720.0	20.75	20.78	19.77	18.15
	100% RB	1770.0	20.74	20.76	19.76	18.12
		1745.0	20.81	20.83	19.82	18.16
		1720.0	20.78	20.78	19.75	18.15

Note: Expanded measurement uncertainty is U = 0.49dB, k = 1.96



LTE CA\_7C

Bandwidth	Frequency (MHz)	Frequency (MHz)	Modulation	PCC RB		SCC RB		Conducted Power(dBm)
				Size	Offset	Size	Offset	
10MHz/20MHz	2525.6	2540	QPSK	1	49	1	0	23.21
10MHz/20MHz	2525.6	2540	QPSK	50	0	100	0	21.52
10MHz/20MHz	2525.6	2540	16QAM	1	49	1	0	22.19
10MHz/20MHz	2525.6	2540	16QAM	50	0	100	0	20.59
10MHz/20MHz	2525.6	2540	64QAM	1	49	1	0	21.96
10MHz/20MHz	2525.6	2540	64QAM	50	0	100	0	20.34
10MHz/20MHz	2525.6	2540	256QAM	1	49	1	0	19.43
10MHz/20MHz	2525.6	2540	256QAM	50	0	100	0	17.82
15MHz/10MHz	2530.1	2542.1	QPSK	1	74	1	0	23.28
15MHz/10MHz	2530.1	2542.1	QPSK	75	0	50	0	21.52
15MHz/10MHz	2530.1	2542.1	16QAM	1	74	1	0	22.31
15MHz/10MHz	2530.1	2542.1	16QAM	75	0	50	0	20.54
15MHz/10MHz	2530.1	2542.1	64QAM	1	74	1	0	22.07
15MHz/10MHz	2530.1	2542.1	64QAM	75	0	50	0	20.30
15MHz/10MHz	2530.1	2542.1	256QAM	1	74	1	0	19.53
15MHz/10MHz	2530.1	2542.1	256QAM	75	0	50	0	17.75
15MHz/15MHz	2527.5	2542.5	QPSK	1	74	1	0	23.40
15MHz/15MHz	2527.5	2542.5	QPSK	75	0	75	0	21.56
15MHz/15MHz	2527.5	2542.5	16QAM	1	74	1	0	22.40
15MHz/15MHz	2527.5	2542.5	16QAM	75	0	75	0	20.60
15MHz/15MHz	2527.5	2542.5	64QAM	1	74	1	0	22.19
15MHz/15MHz	2527.5	2542.5	64QAM	75	0	75	0	20.36
15MHz/15MHz	2527.5	2542.5	256QAM	1	74	1	0	19.64
15MHz/15MHz	2527.5	2542.5	256QAM	75	0	75	0	17.82
15MHz/20MHz	2525.3	2542.4	QPSK	1	74	1	0	23.29
15MHz/20MHz	2525.3	2542.4	QPSK	75	0	100	0	21.56
15MHz/20MHz	2525.3	2542.4	16QAM	1	74	1	0	22.31
15MHz/20MHz	2525.3	2542.4	16QAM	75	0	100	0	20.60
15MHz/20MHz	2525.3	2542.4	64QAM	1	74	1	0	22.09
15MHz/20MHz	2525.3	2542.4	64QAM	75	0	100	0	20.39
15MHz/20MHz	2525.3	2542.4	256QAM	1	74	1	0	19.59
15MHz/20MHz	2525.3	2542.4	256QAM	75	0	100	0	17.78
20MHz/10MHz	2530.1	2544.5	QPSK	1	99	1	0	23.12
20MHz/10MHz	2530.1	2544.5	QPSK	100	0	50	0	21.49
20MHz/10MHz	2530.1	2544.5	16QAM	1	99	1	0	21.97
20MHz/10MHz	2530.1	2544.5	16QAM	100	0	50	0	20.50
20MHz/10MHz	2530.1	2544.5	64QAM	1	99	1	0	21.76
20MHz/10MHz	2530.1	2544.5	64QAM	100	0	50	0	20.29





Bandwidth	Frequency (MHz)	Frequency (MHz)	Modulation	PCC RB		SCC RB		Conducted Power(dBm)
				Size	Offset	Size	Offset	
20MHz/10MHz	2530.1	2544.5	256QAM	1	99	1	0	19.20
20MHz/10MHz	2530.1	2544.5	256QAM	100	0	50	0	17.75
20MHz/15MHz	2527.6	2544.7	QPSK	1	99	1	0	23.28
20MHz/15MHz	2527.6	2544.7	QPSK	100	0	75	0	21.56
20MHz/15MHz	2527.6	2544.7	16QAM	1	99	1	0	22.13
20MHz/15MHz	2527.6	2544.7	16QAM	100	0	75	0	20.55
20MHz/15MHz	2527.6	2544.7	64QAM	1	99	1	0	21.89
20MHz/15MHz	2527.6	2544.7	64QAM	100	0	75	0	20.35
20MHz/15MHz	2527.6	2544.7	256QAM	1	99	1	0	19.31
20MHz/15MHz	2527.6	2544.7	256QAM	100	0	75	0	17.78
20MHz/20MHz	2525.1	2544.9	QPSK	1	99	1	0	23.26
20MHz/20MHz	2525.1	2544.9	QPSK	100	0	100	0	21.51
20MHz/20MHz	2525.1	2544.9	16QAM	1	99	1	0	22.11
20MHz/20MHz	2525.1	2544.9	16QAM	100	0	100	0	20.53
20MHz/20MHz	2525.1	2544.9	64QAM	1	99	1	0	21.87
20MHz/20MHz	2525.1	2544.9	64QAM	100	0	100	0	20.33
20MHz/20MHz	2525.1	2544.9	256QAM	1	99	1	0	19.35
20MHz/20MHz	2525.1	2544.9	256QAM	100	0	100	0	17.80

Note: Expanded measurement uncertainty is U = 0.49dB, k = 1.96



**LTE CA\_38C**

Bandwidth	Frequency (MHz)	Frequency (MHz)	Modulation	PCC RB		SCC RB		Conducted Power(dBm)
				Size	Offset	Size	Offset	
15MHz/15MHz	2587.5	2602.5	QPSK	1	74	1	0	23.11
15MHz/15MHz	2587.5	2602.5	QPSK	75	0	75	0	21.26
15MHz/15MHz	2587.5	2602.5	16QAM	1	74	1	0	22.15
15MHz/15MHz	2587.5	2602.5	16QAM	75	0	75	0	20.29
15MHz/15MHz	2587.5	2602.5	64QAM	1	74	1	0	22.03
15MHz/15MHz	2587.5	2602.5	64QAM	75	0	75	0	20.06
15MHz/15MHz	2587.5	2602.5	256QAM	1	74	1	0	19.85
15MHz/15MHz	2587.5	2602.5	256QAM	75	0	75	0	17.98
20MHz/20MHz	2585.1	2604.9	QPSK	1	99	1	0	22.97
20MHz/20MHz	2585.1	2604.9	QPSK	100	0	100	0	21.26
20MHz/20MHz	2585.1	2604.9	16QAM	1	99	1	0	21.79
20MHz/20MHz	2585.1	2604.9	16QAM	100	0	100	0	20.27
20MHz/20MHz	2585.1	2604.9	64QAM	1	99	1	0	21.59
20MHz/20MHz	2585.1	2604.9	64QAM	100	0	100	0	20.07
20MHz/20MHz	2585.1	2604.9	256QAM	1	99	1	0	19.48
20MHz/20MHz	2585.1	2604.9	256QAM	100	0	100	0	17.66

Note: Expanded measurement uncertainty is U = 0.49dB, k = 1.96



LTE CA\_41C

Bandwidth	Frequency (MHz)	Frequency (MHz)	Modulation	PCC RB		SCC RB		Conducted Power(dBm)
				Size	Offset	Size	Offset	
10MHz/15MHz	2585.9	2597.9	QPSK	1	49	1	0	24.29
10MHz/15MHz	2585.9	2597.9	QPSK	50	0	75	0	22.51
10MHz/15MHz	2585.9	2597.9	16QAM	1	49	1	0	23.32
10MHz/15MHz	2585.9	2597.9	16QAM	50	0	75	0	21.51
10MHz/15MHz	2585.9	2597.9	64QAM	1	49	1	0	23.11
10MHz/15MHz	2585.9	2597.9	64QAM	50	0	75	0	21.28
10MHz/15MHz	2585.9	2597.9	256QAM	1	49	1	0	20.48
10MHz/15MHz	2585.9	2597.9	256QAM	50	0	75	0	18.75
10MHz/20MHz	2583.6	2598	QPSK	1	49	1	0	24.15
10MHz/20MHz	2583.6	2598	QPSK	50	0	100	0	22.44
10MHz/20MHz	2583.6	2598	16QAM	1	49	1	0	22.97
10MHz/20MHz	2583.6	2598	16QAM	50	0	100	0	21.45
10MHz/20MHz	2583.6	2598	64QAM	1	49	1	0	22.73
10MHz/20MHz	2583.6	2598	64QAM	50	0	100	0	21.22
10MHz/20MHz	2583.6	2598	256QAM	1	49	1	0	20.16
10MHz/20MHz	2583.6	2598	256QAM	50	0	100	0	18.70
15MHz/10MHz	2588.1	2600.1	QPSK	1	74	1	0	24.37
15MHz/10MHz	2588.1	2600.1	QPSK	75	0	50	0	22.49
15MHz/10MHz	2588.1	2600.1	16QAM	1	74	1	0	23.36
15MHz/10MHz	2588.1	2600.1	16QAM	75	0	50	0	21.55
15MHz/10MHz	2588.1	2600.1	64QAM	1	74	1	0	23.13
15MHz/10MHz	2588.1	2600.1	64QAM	75	0	50	0	21.33
15MHz/10MHz	2588.1	2600.1	256QAM	1	74	1	0	20.62
15MHz/10MHz	2588.1	2600.1	256QAM	75	0	50	0	18.81
15MHz/15MHz	2585.5	2600.5	QPSK	1	74	1	0	24.40
15MHz/15MHz	2585.5	2600.5	QPSK	75	0	75	0	22.51
15MHz/15MHz	2585.5	2600.5	16QAM	1	74	1	0	23.47
15MHz/15MHz	2585.5	2600.5	16QAM	75	0	75	0	21.52
15MHz/15MHz	2585.5	2600.5	64QAM	1	74	1	0	23.24
15MHz/15MHz	2585.5	2600.5	64QAM	75	0	75	0	21.30
15MHz/15MHz	2585.5	2600.5	256QAM	1	74	1	0	20.66
15MHz/15MHz	2585.5	2600.5	256QAM	75	0	75	0	18.69
15MHz/20MHz	2583.3	2600.4	QPSK	1	74	1	0	24.28
15MHz/20MHz	2583.3	2600.4	QPSK	75	0	100	0	22.49
15MHz/20MHz	2583.3	2600.4	16QAM	1	74	1	0	23.25
15MHz/20MHz	2583.3	2600.4	16QAM	75	0	100	0	21.52
15MHz/20MHz	2583.3	2600.4	64QAM	1	74	1	0	23.04
15MHz/20MHz	2583.3	2600.4	64QAM	75	0	100	0	21.27



Bandwidth	Frequency (MHz)	Frequency (MHz)	Modulation	PCC RB		SCC RB		Conducted Power(dBm)
				Size	Offset	Size	Offset	
15MHz/20MHz	2583.3	2600.4	256QAM	1	74	1	0	20.52
15MHz/20MHz	2583.3	2600.4	256QAM	75	0	100	0	18.78
20MHz/10MHz	2588.1	2602.5	QPSK	1	99	1	0	24.03
20MHz/10MHz	2588.1	2602.5	QPSK	100	0	50	0	22.44
20MHz/10MHz	2588.1	2602.5	16QAM	1	99	1	0	23.02
20MHz/10MHz	2588.1	2602.5	16QAM	100	0	50	0	21.48
20MHz/10MHz	2588.1	2602.5	64QAM	1	99	1	0	22.80
20MHz/10MHz	2588.1	2602.5	64QAM	100	0	50	0	21.25
20MHz/10MHz	2588.1	2602.5	256QAM	1	99	1	0	20.20
20MHz/10MHz	2588.1	2602.5	256QAM	100	0	50	0	18.70
20MHz/15MHz	2585.6	2602.7	QPSK	1	99	1	0	24.18
20MHz/15MHz	2585.6	2602.7	QPSK	100	0	75	0	22.49
20MHz/15MHz	2585.6	2602.7	16QAM	1	99	1	0	23.14
20MHz/15MHz	2585.6	2602.7	16QAM	100	0	75	0	21.46
20MHz/15MHz	2585.6	2602.7	64QAM	1	99	1	0	22.89
20MHz/15MHz	2585.6	2602.7	64QAM	100	0	75	0	21.21
20MHz/15MHz	2585.6	2602.7	256QAM	1	99	1	0	20.30
20MHz/15MHz	2585.6	2602.7	256QAM	100	0	75	0	18.70
20MHz/20MHz	2583.1	2602.9	QPSK	1	99	1	0	24.14
20MHz/20MHz	2583.1	2602.9	QPSK	100	0	100	0	22.48
20MHz/20MHz	2583.1	2602.9	16QAM	1	99	1	0	23.08
20MHz/20MHz	2583.1	2602.9	16QAM	100	0	100	0	21.48
20MHz/20MHz	2583.1	2602.9	64QAM	1	99	1	0	22.83
20MHz/20MHz	2583.1	2602.9	64QAM	100	0	100	0	21.27
20MHz/20MHz	2583.1	2602.9	256QAM	1	99	1	0	20.35
20MHz/20MHz	2583.1	2602.9	256QAM	100	0	100	0	18.73
20MHz/5MHz	2590.5	2602.2	QPSK	1	99	1	0	24.30
20MHz/5MHz	2590.5	2602.2	QPSK	100	0	25	0	22.51
20MHz/5MHz	2590.5	2602.2	16QAM	1	99	1	0	23.15
20MHz/5MHz	2590.5	2602.2	16QAM	100	0	25	0	21.57
20MHz/5MHz	2590.5	2602.2	64QAM	1	99	1	0	22.90
20MHz/5MHz	2590.5	2602.2	64QAM	100	0	25	0	21.37
20MHz/5MHz	2590.5	2602.2	256QAM	1	99	1	0	20.35
20MHz/5MHz	2590.5	2602.2	256QAM	100	0	25	0	18.80
5MHz/20MHz	2583.8	2595.5	QPSK	1	24	1	0	24.24
5MHz/20MHz	2583.8	2595.5	QPSK	25	0	100	0	22.51
5MHz/20MHz	2583.8	2595.5	16QAM	1	24	1	0	23.22
5MHz/20MHz	2583.8	2595.5	16QAM	25	0	100	0	21.53
5MHz/20MHz	2583.8	2595.5	64QAM	1	24	1	0	23.01



Bandwidth	Frequency (MHz)	Frequency (MHz)	Modulation	PCC RB		SCC RB		Conducted Power(dBm)
				Size	Offset	Size	Offset	
5MHz/20MHz	2583.8	2595.5	64QAM	25	0	100	0	21.29
5MHz/20MHz	2583.8	2595.5	256QAM	1	24	1	0	20.46
5MHz/20MHz	2583.8	2595.5	256QAM	25	0	100	0	18.72

Note: Expanded measurement uncertainty is  $U = 0.49\text{dB}$ ,  $k = 1.96$



### **A.1.3 Radiated**

#### **A.1.3.1 Description**

This is the test for the maximum radiated power from the EUT.

Rule Part 24.232(b) specifies, "Mobile/portable stations are limited to 2 watts e.i.r.p. Peak power" and 24.232(c) specifies that "Peak transmit power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage."

Rule Part 27.50(d) specifies "Fixed, mobile, and portable (handheld) stations operating in the 1710–1755 MHz band are limited to 1 watt EIRP".

Rule Part 27.50(h)(2) specifies "Mobile stations are limited to 2.0 watts EIRP".

Rule Part 27.50(c) specifies "Portable stations (hand-held de-vices) are limited to 3 watts ERP".

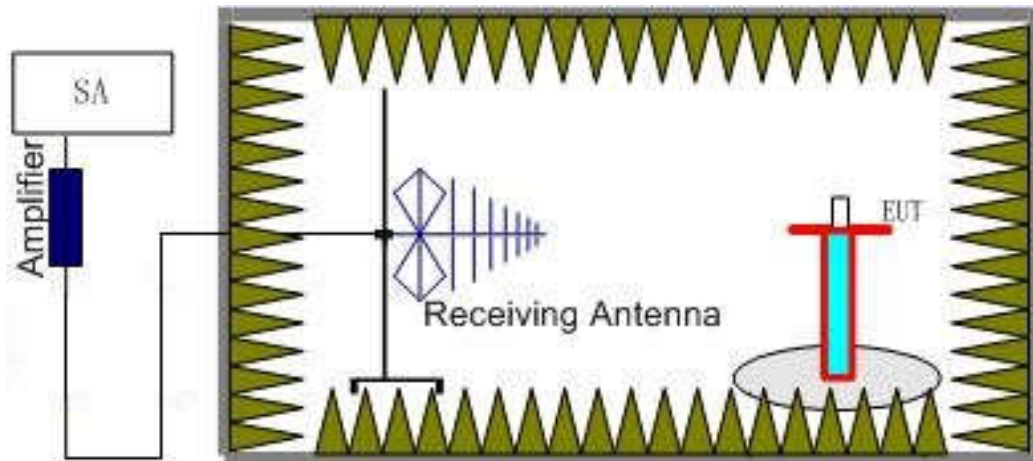
Rule Part 27.50(a)(3) specifies "For mobile and portable stations transmitting in the 2305–2315 MHz band or the 2350–2360 MHz band, the average EIRP must not exceed 50 milliwatts within any 1 megahertz of authorized bandwidth, except that for mobile and portable stations compliant with 3GPP LTE standards or another advanced mobile broadband protocol that avoids concentrating energy at the edge of the operating band the average EIRP must not exceed 250 milliwatts within any 5 megahertz of authorized bandwidth but may exceed 50 milliwatts within any 1 megahertz of authorized bandwidth."

Rule Part 22.913(a) specifies "The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts."

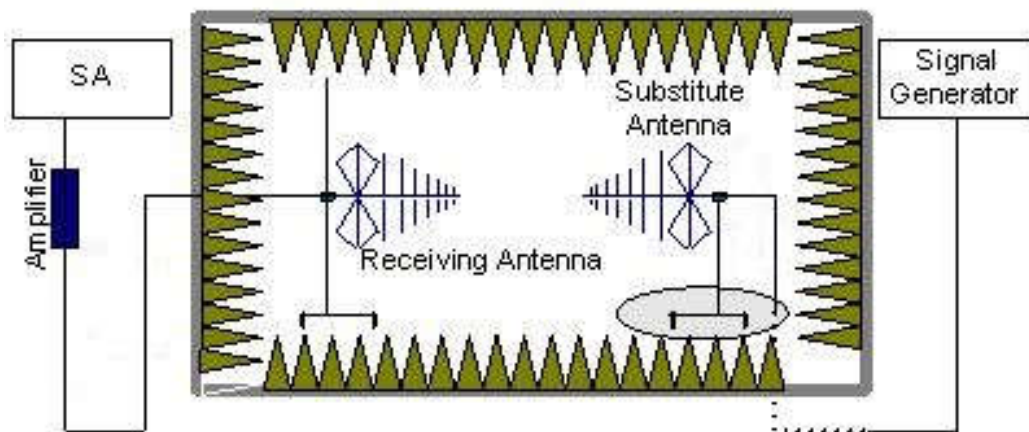
Rule Part 90.542 specifies "Portable stations (hand-held devices) transmitting in the 758-768 MHz band and the 788-798 MHz band are limited to 3 watts ERP."

#### **A.1.3.2 Method of Measurement**

1. For radiated emissions measurements performed at frequencies less than or equal to 1 GHz, EUT was placed on a 80 cm high non-conductive stand at a 3 meter test distance from the receive antenna. For radiated measurements performed at frequencies above 1 GHz, EUT was placed on a 1.5 meter high non-conductive stand at a 3 meter test distance from the receive antenna. Receiving antenna was placed on the antenna mast 3 meters from the EUT. For emission measurements. The receiving antenna shall be varied from 1 m to 4 m in height above the reference ground in a search for the relative positioning that produces the maximum radiated signal level. The test setup refers to figure below. Detected emissions were maximized at each frequency by rotating the EUT through 360° and adjusting the receiving antenna polarization. The radiated emission measurements of all transmit frequencies in three channels (High, Middle, Low) were measured with peak detector.



2. The EUT is then put into continuously transmitting mode at its maximum power level during the test. And the maximum value of the receiver should be recorded as ( $P_r$ ).
3. The EUT shall be replaced by a substitution antenna. The test setup refers to figure below.



In the chamber, a substitution antenna for the frequency band of interest is placed at the reference point of the chamber. An RF signal source for the frequency band of interest is connected to the substitution antenna with a cable that has been constructed to not interfere with the radiation pattern of the antenna. A power ( $P_{Mea}$ ) is applied to the input of the substitution antenna and adjusts the level of the signal generator output until the value of the receiver reaches the previously recorded ( $P_r$ ). The power of signal source ( $P_{Mea}$ ) is recorded. The test should be performed by rotating the test item and adjusting the receiving antenna polarization.

4. An amplifier should be connected to the Signal Source output port. And the cable should be connected between the amplifier and the substitution antenna.  
The cable loss ( $P_{cl}$ ), the substitution Antenna Gain(dBi) ( $G_a$ ) and the amplifier Gain ( $P_{Ag}$ ) should be recorded after test.

The measurement results are obtained as described below:

$$\text{Power (EIRP)} = P_{Mea} - P_{Ag} - P_{cl} + G_a$$



5. This value is EIRP since the measurement is calibrated using an antenna of known gain (unit dBi) and known input power.
6. ERP can be calculated from EIRP by subtracting the gain of the dipole,  $ERP = EIRP - 2.15dB$ .



**A.1.3.3 Measurement result****Up antenna****LTE Band 2- EIRP Part 24. 232(c)**Limits:  $\leq 33\text{dBm}$  (2W)**LTE Band 2\_1.4MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1850.70	-16.98	-29.30	8.10	20.42	33.00	H
1880.00	-16.67	-29.40	8.10	20.83	33.00	H
1909.30	-17.10	-29.30	8.10	20.30	33.00	H

**LTE Band 2\_3MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1851.50	-17.02	-29.30	8.10	20.38	33.00	H
1880.00	-16.71	-29.40	8.10	20.79	33.00	H
1908.50	-17.13	-29.30	8.10	20.27	33.00	H

**LTE Band 2\_5MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1852.50	-17.05	-29.30	8.10	20.35	33.00	H
1880.00	-16.77	-29.40	8.10	20.73	33.00	H
1907.50	-17.19	-29.30	8.10	20.21	33.00	H

**LTE Band 2\_10MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1855.00	-17.06	-29.30	8.10	20.34	33.00	H
1880.00	-16.82	-29.40	8.10	20.68	33.00	H
1905.00	-16.77	-29.30	8.10	20.63	33.00	H

**LTE Band 2\_15MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1857.50	-17.10	-29.30	8.10	20.30	33.00	H
1880.00	-16.86	-29.40	8.10	20.64	33.00	H
1902.50	-16.99	-29.30	8.10	20.41	33.00	H

**LTE Band 2\_20MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1860.00	-17.14	-29.30	8.10	20.26	33.00	H
1880.00	-16.90	-29.40	8.10	20.60	33.00	H
1900.00	-17.02	-29.30	8.10	20.38	33.00	H

**LTE Band 2\_1.4MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1850.70	-17.02	-29.30	8.10	20.38	33.00	H
1880.00	-16.72	-29.40	8.10	20.78	33.00	H
1909.30	-17.11	-29.30	8.10	20.29	33.00	H

**LTE Band 2\_3MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1851.50	-17.06	-29.30	8.10	20.34	33.00	H
1880.00	-16.78	-29.40	8.10	20.72	33.00	H
1908.50	-17.16	-29.30	8.10	20.24	33.00	H

**LTE Band 2\_5MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1852.50	-17.09	-29.30	8.10	20.31	33.00	H
1880.00	-16.81	-29.40	8.10	20.69	33.00	H
1907.50	-17.21	-29.30	8.10	20.19	33.00	H

**LTE Band 2\_10MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1855.00	-17.13	-29.30	8.10	20.27	33.00	H
1880.00	-16.85	-29.40	8.10	20.65	33.00	H
1905.00	-16.96	-29.30	8.10	20.44	33.00	H

**LTE Band 2\_15MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1857.50	-17.20	-29.30	8.10	20.20	33.00	H
1880.00	-16.90	-29.40	8.10	20.60	33.00	H
1902.50	-16.92	-29.30	8.10	20.48	33.00	H

**LTE Band 2\_20MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1860.00	-16.87	-29.30	8.10	20.53	33.00	H
1880.00	-16.95	-29.40	8.10	20.55	33.00	H
1900.00	-16.98	-29.30	8.10	20.42	33.00	H

**LTE Band 4- EIRP Part 27.50(d)(4)**Limits:  $\leq 30\text{dBm}$  (1W)**LTE Band 4\_1.4MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1710.70	-18.18	-29.60	8.10	19.52	30.00	H
1732.50	-18.45	-29.60	8.10	19.25	30.00	H
1754.30	-17.90	-29.50	8.10	19.70	30.00	H

**LTE Band 4\_3MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1711.50	-18.31	-29.60	8.10	19.39	30.00	H
1732.50	-18.48	-29.60	8.10	19.22	30.00	H
1753.50	-17.93	-29.50	8.10	19.67	30.00	H

**LTE Band 4\_5MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1712.50	-17.75	-29.60	8.10	19.95	30.00	H
1732.50	-18.53	-29.60	8.10	19.17	30.00	H
1752.50	-17.88	-29.50	8.10	19.72	30.00	H

**LTE Band 4\_10MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1715.00	-17.80	-29.60	8.10	19.90	30.00	H
1732.50	-17.58	-29.60	8.10	20.12	30.00	H
1750.00	-17.92	-29.50	8.10	19.68	30.00	H

**LTE Band 4\_15MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1717.50	-17.84	-29.60	8.10	19.86	30.00	H
1732.50	-17.61	-29.60	8.10	20.09	30.00	H
1747.50	-17.97	-29.50	8.10	19.63	30.00	H

**LTE Band 4\_20MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1720.00	-17.87	-29.60	8.10	19.83	30.00	H
1732.50	-17.65	-29.60	8.10	20.05	30.00	H
1745.00	-18.03	-29.50	8.10	19.57	30.00	H

**LTE Band 4\_1.4MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1710.70	-18.30	-29.60	8.10	19.40	30.00	H
1732.50	-18.52	-29.60	8.10	19.18	30.00	H
1754.30	-17.96	-29.50	8.10	19.64	30.00	H

**LTE Band 4\_3MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1711.50	-18.22	-29.60	8.10	19.48	30.00	H
1732.50	-18.55	-29.60	8.10	19.15	30.00	H
1753.50	-17.98	-29.50	8.10	19.62	30.00	H

**LTE Band 4\_5MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1712.50	-18.27	-29.60	8.10	19.43	30.00	H
1732.50	-18.18	-29.60	8.10	19.52	30.00	H
1752.50	-18.04	-29.50	8.10	19.56	30.00	H

**LTE Band 4\_10MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1715.00	-18.21	-29.60	8.10	19.49	30.00	H
1732.50	-18.29	-29.60	8.10	19.41	30.00	H
1750.00	-18.07	-29.50	8.10	19.53	30.00	H

**LTE Band 4\_15MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1717.50	-18.43	-29.60	8.10	19.27	30.00	H
1732.50	-18.24	-29.60	8.10	19.46	30.00	H
1747.50	-18.12	-29.50	8.10	19.48	30.00	H

**LTE Band 4\_20MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1720.00	-17.88	-29.60	8.10	19.82	30.00	H
1732.50	-18.29	-29.60	8.10	19.41	30.00	H
1745.00	-18.15	-29.50	8.10	19.45	30.00	H

**LTE Band 5- ERP Part 22.913(a)**Limits:  $\leq 38.45\text{dBm}$  (7W)**LTE Band 5\_1.4MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>d</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
824.70	-9.58	-33.60	-0.79	2.15	21.08	38.45	V
836.50	-8.87	-33.50	-0.74	2.15	21.75	38.45	V
848.30	-9.70	-33.50	-0.73	2.15	20.92	38.45	V

**LTE Band 5\_3MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>d</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
825.50	-9.51	-33.60	-0.84	2.15	21.10	38.45	V
836.50	-8.90	-33.50	-0.74	2.15	21.71	38.45	V
847.50	-9.75	-33.50	-0.73	2.15	20.87	38.45	V

**LTE Band 5\_5MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>d</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
826.50	-9.63	-33.60	-0.84	2.15	20.98	38.45	V
836.50	-8.94	-33.50	-0.74	2.15	21.67	38.45	V
846.50	-9.77	-33.50	-0.73	2.15	20.85	38.45	V

**LTE Band 5\_10MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>d</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
829.00	-9.65	-33.60	-0.84	2.15	20.96	38.45	V
836.50	-9.01	-33.50	-0.74	2.15	21.60	38.45	V
844.00	-9.76	-33.50	-0.78	2.15	20.81	38.45	V



**LTE Band 5\_1.4MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>d</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
824.70	-9.65	-33.60	-0.79	2.15	21.01	38.45	V
836.50	-8.89	-33.50	-0.74	2.15	21.72	38.45	V
848.30	-9.73	-33.50	-0.73	2.15	20.89	38.45	V

**LTE Band 5\_3MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>d</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
825.50	-9.64	-33.60	-0.84	2.15	20.97	38.45	V
836.50	-8.98	-33.50	-0.74	2.15	21.63	38.45	V
847.50	-9.78	-33.50	-0.73	2.15	20.84	38.45	V

**LTE Band 5\_5MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>d</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
826.50	-9.71	-33.60	-0.84	2.15	20.90	38.45	V
836.50	-9.02	-33.50	-0.74	2.15	21.59	38.45	V
846.50	-9.83	-33.50	-0.73	2.15	20.79	38.45	V

**LTE Band 5\_10MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>d</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
829.00	-9.74	-33.60	-0.84	2.15	20.87	38.45	V
836.50	-9.08	-33.50	-0.74	2.15	21.53	38.45	V
844.00	-9.83	-33.50	-0.78	2.15	20.74	38.45	V

**LTE Band 7- EIRP Part 27.50(h)(2)**Limits:  $\leq 33$  dBm (2W)**LTE Band 7\_5MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2502.50	-19.66	-28.70	10.70	19.74	33.00	H
2535.00	-19.83	-28.60	10.70	19.47	33.00	H
2567.50	-19.36	-28.60	10.70	19.94	33.00	H

**LTE Band 7\_10MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2505.00	-19.71	-28.70	10.70	19.69	33.00	H
2535.00	-19.87	-28.60	10.70	19.43	33.00	H
2565.00	-19.41	-28.60	10.70	19.89	33.00	H

**LTE Band 7\_15MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2507.50	-19.73	-28.70	10.70	19.67	33.00	H
2535.00	-19.91	-28.60	10.70	19.39	33.00	H
2562.50	-19.45	-28.60	10.70	19.85	33.00	H

**LTE Band 7\_20MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2510.00	-19.77	-28.70	10.70	19.63	33.00	H
2535.00	-19.94	-28.60	10.70	19.36	33.00	H
2560.00	-19.47	-28.60	10.70	19.83	33.00	H

**LTE Band 7\_5MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2502.50	-19.72	-28.70	10.70	19.68	33.00	H
2535.00	-19.90	-28.60	10.70	19.40	33.00	H
2567.50	-19.41	-28.60	10.70	19.89	33.00	H

**LTE Band 7\_10MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2505.00	-19.77	-28.70	10.70	19.63	33.00	H
2535.00	-19.95	-28.60	10.70	19.35	33.00	H
2565.00	-19.45	-28.60	10.70	19.85	33.00	H

**LTE Band 7\_15MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2507.50	-19.82	-28.70	10.70	19.58	33.00	H
2535.00	-20.00	-28.60	10.70	19.30	33.00	H
2562.50	-19.51	-28.60	10.70	19.79	33.00	H

**LTE Band 7\_20MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
2510.00	-19.85	-28.70	10.70	19.55	33.00	H
2535.00	-19.99	-28.60	10.70	19.31	33.00	H
2560.00	-19.54	-28.60	10.70	19.76	33.00	H



**LTE Band 12 - ERP Part 27.50(c)(10)**Limits:  $\leq 34.77$ dBm (3W)**LTE Band 12\_1.4MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>d</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
699.70	-11.61	-34.80	-0.93	2.15	20.11	34.77	V
707.50	-10.96	-34.70	-0.91	2.15	20.68	34.77	V
715.30	-11.52	-34.70	-0.68	2.15	20.34	34.77	V

**LTE Band 12\_3MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>d</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
700.50	-11.59	-34.80	-0.97	2.15	20.09	34.77	V
707.50	-11.02	-34.70	-0.91	2.15	20.62	34.77	V
714.50	-11.59	-34.70	-0.64	2.15	20.32	34.77	V

**LTE Band 12\_5MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>d</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
701.50	-11.67	-34.80	-0.97	2.15	20.01	34.77	V
707.50	-11.07	-34.70	-0.91	2.15	20.57	34.77	V
713.50	-11.63	-34.70	-0.64	2.15	20.28	34.77	V

**LTE Band 12\_10MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>d</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
704.00	-11.71	-34.80	-0.97	2.15	19.97	34.77	V
707.50	-11.13	-34.70	-0.91	2.15	20.51	34.77	V
711.00	-11.70	-34.70	-0.64	2.15	20.21	34.77	V

**LTE Band 12\_1.4MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>d</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
699.70	-11.67	-34.80	-0.93	2.15	20.05	34.77	V
707.50	-11.01	-34.70	-0.91	2.15	20.63	34.77	V
715.30	-11.57	-34.70	-0.68	2.15	20.30	34.77	V

**LTE Band 12\_3MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>d</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
700.50	-11.69	-34.80	-0.97	2.15	19.99	34.77	V
707.50	-11.07	-34.70	-0.91	2.15	20.57	34.77	V
714.50	-11.67	-34.70	-0.64	2.15	20.24	34.77	V

**LTE Band 12\_5MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>d</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
701.50	-11.72	-34.80	-0.97	2.15	19.96	34.77	V
707.50	-11.12	-34.70	-0.91	2.15	20.52	34.77	V
713.50	-11.72	-34.70	-0.64	2.15	20.19	34.77	V

**LTE Band 12\_10MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>d</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
704.00	-11.76	-34.80	-0.97	2.15	19.92	34.77	V
707.50	-11.17	-34.70	-0.91	2.15	20.47	34.77	V
711.00	-11.77	-34.70	-0.64	2.15	20.14	34.77	V



**LTE Band 17- ERP 27.50(c)(10)**

**Limits:** ≤34.77dBm (3W)

**LTE Band 17\_5MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>d</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
706.50	-11.32	-34.70	-0.91	2.15	20.32	34.77	V
710.00	-11.32	-34.70	-0.64	2.15	20.59	34.77	V
713.50	-11.53	-34.70	-0.64	2.15	20.38	34.77	V

**LTE Band 17\_10MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>d</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
709.00	-11.23	-34.70	-0.91	2.15	20.41	34.77	V
710.00	-11.40	-34.70	-0.64	2.15	20.50	34.77	V
711.00	-11.47	-34.70	-0.64	2.15	20.43	34.77	V

**LTE Band 17\_5MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>d</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
706.50	-11.35	-34.70	-0.91	2.15	20.30	34.77	V
710.00	-11.43	-34.70	-0.64	2.15	20.48	34.77	V
713.50	-11.58	-34.70	-0.64	2.15	20.32	34.77	V

**LTE Band 17\_10MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>d</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	Correction (dB)	ERP(dBm)	Limit(dBm)	Polarization
709.00	-11.23	-34.70	-0.91	2.15	20.41	34.77	V
710.00	-11.47	-34.70	-0.64	2.15	20.44	34.77	V
711.00	-11.51	-34.70	-0.64	2.15	20.39	34.77	V

**LTE band 25- ERP Part 24. 232(c)**Limits:  $\leq 33.00\text{dBm}$  (2W)**LTE Band 25\_1.4MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1850.70	-17.39	-29.30	8.10	20.01	33.00	H
1882.50	-18.32	-29.40	8.10	19.18	33.00	H
1914.30	-17.67	-29.30	8.10	19.73	33.00	H

**LTE Band 25\_3MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1851.50	-17.43	-29.30	8.10	19.97	33.00	H
1882.50	-18.35	-29.40	8.10	19.15	33.00	H
1913.50	-17.72	-29.30	8.10	19.68	33.00	H

**LTE Band 25\_5MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1852.50	-17.47	-29.30	8.10	19.93	33.00	H
1882.50	-17.38	-29.40	8.10	20.12	33.00	H
1912.50	-17.77	-29.30	8.10	19.63	33.00	H

**LTE Band 25\_10MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1855.00	-17.51	-29.30	8.10	19.89	33.00	H
1882.00	-17.42	-29.40	8.10	20.08	33.00	H
1910.00	-17.81	-29.30	8.10	19.59	33.00	H

**LTE Band 25\_15MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1857.50	-17.54	-29.30	8.10	19.86	33.00	H
1882.50	-17.47	-29.40	8.10	20.03	33.00	H
1907.50	-17.85	-29.30	8.10	19.55	33.00	H

**LTE Band 25\_20MHz\_QPSK**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1860.00	-17.58	-29.30	8.10	19.82	33.00	H
1882.50	-17.48	-29.40	8.10	20.02	33.00	H
1905.00	-17.88	-29.30	8.10	19.52	33.00	H

**LTE Band 25\_1.4MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1850.70	-17.43	-29.30	8.10	19.97	33.00	H
1882.50	-18.34	-29.40	8.10	19.16	33.00	H
1914.30	-17.74	-29.30	8.10	19.66	33.00	H

**LTE Band 25\_3MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1851.50	-17.48	-29.30	8.10	19.92	33.00	H
1882.50	-17.79	-29.40	8.10	19.71	33.00	H
1913.50	-17.79	-29.30	8.10	19.61	33.00	H

**LTE Band 25\_5MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1852.50	-17.51	-29.30	8.10	19.89	33.00	H
1882.50	-17.83	-29.40	8.10	19.67	33.00	H
1912.50	-17.82	-29.30	8.10	19.58	33.00	H

**LTE Band 25\_10MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1855.00	-17.55	-29.30	8.10	19.85	33.00	H
1882.00	-17.68	-29.40	8.10	19.82	33.00	H
1910.00	-17.86	-29.30	8.10	19.54	33.00	H

**LTE Band 25\_15MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1857.50	-17.60	-29.30	8.10	19.80	33.00	H
1882.50	-17.51	-29.40	8.10	19.99	33.00	H
1907.50	-17.93	-29.30	8.10	19.47	33.00	H

**LTE Band 25\_20MHz\_16QAM**

Frequency(MHz)	P <sub>Mea</sub> (dBm)	P <sub>ci</sub> (dB)+ P <sub>Ag</sub> (dB)	Ga Antenna Gain(dBi)	EIRP(dBm)	Limit(dBm)	Polarization
1860.00	-17.65	-29.30	8.10	19.75	33.00	H
1882.50	-17.54	-29.40	8.10	19.96	33.00	H
1905.00	-17.97	-29.30	8.10	19.43	33.00	H