

Appendix F

LTE BAND43

CONDUCTED OUTPUT POWER AND E.I.R.P.

CONDUCTED OUTPUT POWER (dBm)

Part 96_LTE Band 43_Ant 7						
BW [MHz]	Modulation	RB Size	RB Offset	Low	Mid	High
		Channel		43690	44090	44490
		Frequency (MHz)		3610	3650	3690
20	QPSK	1	0	22.34	22.47	22.49
		1	50	22.23	22.47	22.46
		1	99	22.31	22.43	22.43
		50	0	21.11	21.50	21.47
		50	25	21.28	21.51	21.54
		50	50	21.32	21.57	21.61
		100	0	21.28	21.45	21.56
	16QAM	1	0	21.18	21.33	21.44
		1	50	21.28	21.45	21.45
		1	99	21.22	21.49	21.42
		50	0	20.18	20.53	20.45
		50	25	20.31	20.57	20.48
		50	50	20.39	20.48	20.52
		100	0	20.37	20.56	20.61
	64QAM	1	0	20.18	20.44	20.46
		1	50	20.24	20.49	20.75
		1	99	20.51	20.51	20.61
		50	0	19.21	19.44	19.54
		50	25	19.45	19.48	19.57
		50	50	19.36	19.64	19.57
		100	0	19.30	19.48	19.57
	256QAM	1	0	17.20	17.51	17.64
		1	50	17.51	17.59	17.63
		1	99	17.45	17.55	17.59
		50	0	17.35	17.61	17.63
		50	25	17.47	17.71	17.72
		50	50	17.44	17.73	17.69
		100	0	17.50	17.69	17.71
BW [MHz]	Modulation	Channel		43665	44090	44515
		Frequency (MHz)		3607.5	3650	3692.5
15	QPSK	1	0	22.28	22.41	22.39

		1	37	22.11	22.36	22.40
		1	74	22.19	22.31	22.39
		36	0	21.02	21.38	21.44
		36	19	21.22	21.43	21.52
		36	39	21.30	21.56	21.56
		75	0	21.14	21.36	21.49
	16QAM	1	0	21.07	21.20	21.37
		1	37	21.18	21.44	21.39
		1	74	21.15	21.43	21.33
		36	0	20.14	20.41	20.38
		36	19	20.30	20.51	20.33
		36	39	20.25	20.47	20.51
		75	0	20.36	20.47	20.58
	64QAM	1	0	20.19	20.34	20.38
		1	37	20.23	20.34	20.62
		1	74	20.38	20.45	20.49
		36	0	19.24	19.36	19.39
		36	19	19.36	19.41	19.44
		36	39	19.39	19.50	19.45
		75	0	19.30	19.39	19.46
	256QAM	1	0	17.09	17.42	17.63
		1	37	17.38	17.54	17.48
		1	74	17.41	17.54	17.49
		36	0	17.24	17.49	17.58
		36	19	17.44	17.57	17.62
		36	39	17.32	17.69	17.67
		75	0	17.42	17.61	17.68
BW [MHz]	Modulation	Channel		43640	44090	44540
		Frequency (MHz)		3605	3650	3695
10	QPSK	1	0	22.27	22.44	22.45
		1	24	22.11	22.46	22.36
		1	49	22.23	22.41	22.36
		25	0	21.06	21.37	21.43
		25	12	21.20	21.47	21.40
		25	25	21.29	21.49	21.54
		50	0	21.26	21.34	21.41
	16QAM	1	0	21.08	21.25	21.30
		1	24	21.25	21.41	21.30
		1	49	21.09	21.39	21.40
		25	0	20.07	20.48	20.30
		25	12	20.19	20.48	20.41
		25	25	20.32	20.37	20.38
		50	0	20.26	20.47	20.59
	64QAM	1	0	20.15	20.40	20.32

		1	24	20.27	20.42	20.68
		1	49	20.41	20.45	20.58
		25	0	19.20	19.41	19.41
		25	12	19.32	19.45	19.46
		25	25	19.40	19.58	19.44
		50	0	19.38	19.43	19.50
	256QAM	1	0	17.08	17.39	17.57
		1	24	17.44	17.50	17.59
		1	49	17.36	17.48	17.49
		25	0	17.22	17.58	17.57
		25	12	17.39	17.59	17.60
		25	25	17.42	17.71	17.62
		50	0	17.46	17.57	17.62
BW [MHz]	Modulation	Channel		43615	44090	44565
		Frequency (MHz)		3602.5	3650	3697.5
5	QPSK	1	0	22.26	22.42	22.35
		1	12	22.20	22.34	22.34
		1	24	22.16	22.28	22.30
		12	0	21.00	21.45	21.41
		12	6	21.18	21.39	21.49
		12	13	21.22	21.53	21.57
		25	0	21.25	21.34	21.47
	16QAM	1	0	21.11	21.23	21.38
		1	12	21.24	21.38	21.35
		1	24	21.19	21.34	21.34
		12	0	20.11	20.49	20.43
		12	6	20.28	20.56	20.33
		12	13	20.29	20.34	20.45
		25	0	20.35	20.42	20.57
	64QAM	1	0	20.18	20.38	20.35
		1	12	20.32	20.37	20.72
		1	24	20.38	20.40	20.58
		12	0	19.26	19.43	19.42
		12	6	19.45	19.39	19.45
		12	13	19.30	19.61	19.44
		25	0	19.25	19.40	19.52
	256QAM	1	0	17.13	17.40	17.60
		1	12	17.44	17.46	17.55
		1	24	17.36	17.52	17.57
		12	0	17.26	17.46	17.49
		12	6	17.39	17.69	17.64
		12	13	17.30	17.58	17.56
		25	0	17.47	17.68	17.65

EIRP

Part 96_LTE Band 43_Ant 7						
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)
20M-QPSK	43690	3610	22.34	-0.36	21.98	157.76
	44090	3650	22.47	-0.36	22.11	162.55
	44490	3690	22.49	-0.36	22.13	163.31
20M-16QAM	43690	3610	21.28	-0.36	20.92	123.59
	44090	3650	21.49	-0.36	21.13	129.72
	44490	3690	21.45	-0.36	21.09	128.53
20M-64QAM	43690	3610	20.51	-0.36	20.15	103.51
	44090	3650	20.51	-0.36	20.15	103.51
	44490	3690	20.75	-0.36	20.39	109.40
20M-256QAM	43690	3610	17.51	-0.36	17.15	51.88
	44090	3650	17.73	-0.36	17.37	54.58
	44490	3690	17.72	-0.36	17.36	54.45
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)
15M-QPSK	43665	3607.5	22.28	-0.36	21.92	155.60
	44090	3650	22.41	-0.36	22.05	160.32
	44515	3692.5	22.40	-0.36	22.04	159.96
15M-16QAM	43665	3607.5	21.18	-0.36	20.82	120.78
	44090	3650	21.44	-0.36	21.08	128.23
	44515	3692.5	21.39	-0.36	21.03	126.77
15M-64QAM	43665	3607.5	20.38	-0.36	20.02	100.46
	44090	3650	20.45	-0.36	20.09	102.09
	44515	3692.5	20.62	-0.36	20.26	106.17
15M-256QAM	43665	3607.5	17.44	-0.36	17.08	51.05
	44090	3650	17.69	-0.36	17.33	54.08
	44515	3692.5	17.68	-0.36	17.32	53.95
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)
10M-QPSK	43640	3605	22.27	-0.36	21.91	155.24
	44090	3650	22.46	-0.36	22.10	162.18
	44540	3695	22.45	-0.36	22.09	161.81
10M-16QAM	43640	3605	21.25	-0.36	20.89	122.74
	44090	3650	21.41	-0.36	21.05	127.35
	44540	3695	21.40	-0.36	21.04	127.06
10M-64QAM	43640	3605	20.41	-0.36	20.05	101.16
	44090	3650	20.45	-0.36	20.09	102.09

	44540	3695	20.68	-0.36	20.32	107.65
10M-256QAM	43640	3605	17.46	-0.36	17.10	51.29
	44090	3650	17.71	-0.36	17.35	54.33
	44540	3695	17.62	-0.36	17.26	53.21
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)
5M-QPSK	43615	3602.5	22.26	-0.36	21.90	154.88
	44090	3650	22.42	-0.36	22.06	160.69
	44565	3697.5	22.35	-0.36	21.99	158.12
5M-16QAM	43615	3602.5	21.24	-0.36	20.88	122.46
	44090	3650	21.38	-0.36	21.02	126.47
	44565	3697.5	21.38	-0.36	21.02	126.47
5M-64QAM	43615	3602.5	20.38	-0.36	20.02	100.46
	44090	3650	20.40	-0.36	20.04	100.93
	44565	3697.5	20.72	-0.36	20.36	108.64
5M-256QAM	43615	3602.5	17.47	-0.36	17.11	51.40
	44090	3650	17.69	-0.36	17.33	54.08
	44565	3697.5	17.65	-0.36	17.29	53.58

Note:

1. The worst case EIRP shown in this section is found with LTE operating only using 1RB. As such, the EIRP/10MHz and full channel EIRP values will be identical since 1RB is fully contained within all available channel bandwidths (i.e., 5, 10, 15, 20MHz).
2. LTE Band 43 are covered by LTE Band 48, Because it is a subset of LTE Band 48 with the same output power and supported bandwidths, So the conducted test data and RSE test data please refer to LTE Band 48.