

Appendix E

LTE BAND43 CONDUCTED OUTPUT POWER AND E.I.R.P.

CONDUCTED OUTPUT POWER (dBm)

LTE band 43:

LTE Band 43 for FCC (Ant7)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		43690	44090	44490
		Frequency (MHz)		3610	3650	3690
20M	QPSK	1	0	22.91	22.95	23.16
		1	50	22.77	22.81	22.94
		1	99	22.57	22.77	22.86
		50	0	21.80	21.94	22.02
		50	25	21.72	21.87	22.00
		50	50	21.73	21.82	21.88
		100	0	21.68	21.74	21.83
	16QAM	1	0	21.76	21.84	21.93
		1	50	21.63	21.75	21.86
		1	99	21.35	21.53	21.58
		50	0	20.77	20.80	20.99
		50	25	20.68	20.87	20.86
		50	50	20.68	20.76	20.88
		100	0	20.76	20.95	21.04
	64QAM	1	0	20.60	20.83	20.79
		1	50	20.52	20.73	20.66
		1	99	20.45	20.58	20.57
		50	0	19.79	19.82	19.99
		50	25	19.76	20.00	20.05
		50	50	19.70	19.88	19.97
		100	0	19.74	19.91	20.02
	256QAM	1	0	17.94	17.76	17.94
		1	50	17.98	17.89	18.00
		1	99	17.92	17.89	17.89
		50	0	18.01	17.85	17.93
		50	25	17.88	17.75	17.82
		50	50	17.91	17.93	17.88
		100	0	18.01	18.00	17.96

BW	MCS Index	Channel		43665	44090	44515
		Frequency (MHz)		3607.5	3650	3692.5
15M	QPSK	1	0	22.86	22.90	23.14
		1	37	22.75	22.78	22.79
		1	74	22.51	22.71	22.71
		36	0	21.68	21.80	21.89
		36	19	21.59	21.92	21.87
		36	39	21.67	21.73	21.73
		75	0	21.54	21.67	21.76
	16QAM	1	0	21.62	21.76	21.81
		1	37	21.56	21.69	21.80
		1	74	21.27	21.42	21.51
		36	0	20.69	20.74	20.90
		36	19	20.60	20.72	20.85
		36	39	20.59	20.75	20.80
		75	0	20.64	20.90	20.92
	64QAM	1	0	20.51	20.81	20.69
		1	37	20.50	20.70	20.61
		1	74	20.31	20.54	20.42
		36	0	19.65	19.80	19.97
		36	19	19.75	19.85	19.93
		36	39	19.62	19.81	19.95
		75	0	19.68	19.83	19.94
	256QAM	1	0	17.80	17.64	17.87
		1	37	17.88	17.81	17.92
		1	74	17.91	17.74	17.83
		36	0	17.91	17.75	17.88
		36	19	17.87	17.69	17.73
		36	39	17.80	17.80	17.80
		75	0	17.94	17.94	17.93

BW	MCS Index	Channel		43640	44090	44540
		Frequency (MHz)		3605	3650	3695
10M	QPSK	1	0	22.86	22.94	23.15
		1	24	22.70	22.79	22.85
		1	49	22.47	22.71	22.73
		25	0	21.79	21.74	22.00
		25	12	21.63	21.88	21.93
		25	25	21.69	21.81	21.82
		50	0	21.65	21.63	21.81
	16QAM	1	0	21.66	21.74	21.78
		1	24	21.61	21.61	21.73
		1	49	21.26	21.52	21.53
		25	0	20.72	20.71	20.85
		25	12	20.60	20.73	20.82
		25	25	20.60	20.71	20.76
		50	0	20.68	20.94	21.02
	64QAM	1	0	20.59	20.81	20.70
		1	24	20.46	20.60	20.57
		1	49	20.39	20.56	20.50
		25	0	19.74	19.69	19.84
		25	12	19.68	19.85	20.03
		25	25	19.57	19.84	19.82
		50	0	19.68	19.78	19.92
	256QAM	1	0	17.90	17.65	17.80
		1	24	17.95	17.87	17.86
		1	49	17.86	17.78	17.76
		25	0	17.91	17.78	17.79
		25	12	17.81	17.71	17.68
		25	25	17.78	17.84	17.86
		50	0	17.86	17.87	17.90

BW	MCS Index	Channel		43615	44090	44565
		Frequency (MHz)		3602.5	3650	3697.5
5M	QPSK	1	0	22.82	22.85	23.12
		1	12	22.62	22.76	22.87
		1	24	22.54	22.70	22.75
		12	0	21.68	21.84	21.95
		12	6	21.69	21.82	21.99
		12	13	21.68	21.72	21.87
		25	0	21.67	21.63	21.76
	16QAM	1	0	21.75	21.79	21.87
		1	12	21.51	21.70	21.82
		1	24	21.25	21.50	21.44
		12	0	20.65	20.78	20.96
		12	6	20.67	20.74	20.79
		12	13	20.56	20.63	20.78
		25	0	20.65	20.86	20.93
	64QAM	1	0	20.56	20.82	20.69
		1	12	20.51	20.66	20.56
		1	24	20.39	20.54	20.43
		12	0	19.70	19.75	19.97
		12	6	19.73	19.94	19.95
		12	13	19.62	19.75	19.83
		25	0	19.69	19.78	19.88
	256QAM	1	0	17.79	17.70	17.92
		1	12	17.90	17.83	17.89
		1	24	17.85	17.83	17.75
		12	0	17.99	17.84	17.86
		12	6	17.81	17.74	17.74
		12	13	17.88	17.82	17.83
		25	0	17.87	17.85	17.84

EIRP

LTE Band 43

LTE B43 5M QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Lmit (dBm/10Mhz)
43615	3602.5	22.82	-0.4	22.42	174.58	23
44090	3650	22.85	-0.4	22.45	175.79	23
44565	3697.5	23.12	-0.4	22.72	187.07	23

LTE B43 5M 16QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Lmit (dBm/10Mhz)
43615	3602.5	21.75	-0.4	21.35	136.46	23
44090	3650	21.79	-0.4	21.39	137.72	23
44565	3697.5	21.87	-0.4	21.47	140.28	23

LTE B43 5M 64QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Lmit (dBm/10Mhz)
43615	3602.5	20.56	-0.4	20.16	103.75	23
44090	3650	20.82	-0.4	20.42	110.15	23
44565	3697.5	20.69	-0.4	20.29	106.91	23

LTE B43 5M 256QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Lmit (dBm/10Mhz)
43615	3602.5	17.99	-0.4	17.59	57.41	23
44090	3650	17.85	-0.4	17.45	55.59	23
44565	3697.5	17.92	-0.4	17.52	56.49	23

LTE B43 10M QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Lmit (dBm/10Mhz)
43640	3605	22.86	-0.4	22.46	176.2	23
44090	3650	22.94	-0.4	22.54	179.47	23
44540	3695	23.15	-0.4	22.75	188.36	23

LTE B43 10M 16QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Lmit (dBm/10Mhz)
43640	3605	21.66	-0.4	21.26	133.66	23
44090	3650	21.74	-0.4	21.34	136.14	23
44540	3695	21.78	-0.4	21.38	137.4	23

LTE B43 10M 64QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Lmit (dBm/10Mhz)
43640	3605	20.59	-0.4	20.19	104.47	23
44090	3650	20.81	-0.4	20.41	109.9	23
44540	3695	20.7	-0.4	20.3	107.15	23

LTE B43 10M 256QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Lmit (dBm/10Mhz)
43640	3605	17.95	-0.4	17.55	56.89	23
44090	3650	17.87	-0.4	17.47	55.85	23
44540	3695	17.9	-0.4	17.5	56.23	23

LTE B43 15M QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Lmit (dBm/10Mhz)
43665	3607.5	22.86	-0.4	22.46	176.2	23
44090	3650	22.9	-0.4	22.5	177.83	23
44515	3692.5	23.14	-0.4	22.74	187.93	23

LTE B43 15M 16QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Lmit (dBm/10Mhz)
43665	3607.5	21.62	-0.4	21.22	132.43	23
44090	3650	21.76	-0.4	21.36	136.77	23
44515	3692.5	21.81	-0.4	21.41	138.36	23

LTE B43 15M 64QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Lmit (dBm/10Mhz)
43665	3607.5	20.51	-0.4	20.11	102.57	23
44090	3650	20.81	-0.4	20.41	109.9	23
44515	3692.5	20.69	-0.4	20.29	106.91	23

LTE B43 15M 256QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Lmit (dBm/10Mhz)
43665	3607.5	17.94	-0.4	17.54	56.75	23
44090	3650	17.94	-0.4	17.54	56.75	23
44515	3692.5	17.93	-0.4	17.53	56.62	23

LTE B43 20M QPSK						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Lmit (dBm/10Mhz)
43690	3610	22.91	-0.4	22.51	178.24	23
44090	3650	22.95	-0.4	22.55	179.89	23
44490	3690	23.16	-0.4	22.76	188.8	23

LTE B43 20M 16QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Lmit (dBm/10Mhz)
43690	3610	21.76	-0.4	21.36	136.77	23
44090	3650	21.84	-0.4	21.44	139.32	23
44490	3690	21.93	-0.4	21.53	142.23	23

LTE B43 20M 64QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Lmit (dBm/10Mhz)
43690	3610	20.6	-0.4	20.2	104.71	23
44090	3650	20.83	-0.4	20.43	110.41	23
44490	3690	20.79	-0.4	20.39	109.4	23

LTE B43 20M 256QAM						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Lmit (dBm/10Mhz)
43690	3610	18.01	-0.4	17.61	57.68	23
44090	3650	18	-0.4	17.6	57.54	23
44490	3690	18	-0.4	17.6	57.54	23

REMARKS: ERP Output Power (dBm) = EIRP (dBm) -2.15(dB).

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