

Appendix C

LTE BAND42

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

CONDUCTED OUTPUT POWER (dBm)

Band/BW	Modulation	RB Size	RB Offset	Low CH (43115)	Mid CH(43340)	High CH(43565)
				Frequency (3552.5)MHz	Frequency (3575)MHz	Frequency (3597.5)MHz
42/ 5	QPSK	1	0	20.76	20.80	20.80
		1	12	20.89	20.89	20.73
		1	24	20.68	20.76	20.79
		12	0	19.85	19.90	19.99
		12	6	19.82	20.03	19.95
		12	13	19.84	19.78	19.74
		25	0	19.82	19.95	19.83
	16QAM	1	0	20.02	20.12	20.17
		1	12	20.23	20.27	20.17
		1	24	20.06	20.04	20.07
		12	0	18.70	18.81	18.95
		12	6	18.90	18.74	18.85
		12	13	18.79	18.96	19.02
		25	0	18.78	18.80	18.77
	64QAM	1	0	19.18	19.12	19.12
		1	12	19.30	19.19	19.21
		1	24	19.01	19.11	19.26
		12	0	17.69	17.85	17.99
		12	6	17.83	17.92	17.81
		12	13	17.85	17.69	17.85
		25	0	17.88	17.81	17.90
	256QAM	1	0	16.03	16.18	16.03
		1	12	15.89	16.03	15.99
		1	24	16.19	16.01	16.16
		12	0	16.00	16.20	16.04
		12	6	15.93	16.00	15.93
		12	13	16.26	16.08	16.19
		25	0	16.01	16.30	15.96

Band/BW	Modulation	RB Size	RB Offset	Low CH(43140)	Mid CH(43340)	High CH(43540)
				Frequency (3555)MHz	Frequency (3575)MHz	Frequency (3595)MHz
42/ 10	QPSK	1	0	20.80	20.90	20.96
		1	24	20.77	20.94	20.85
		1	49	20.78	20.64	20.81
		25	0	19.75	19.82	20.00
		25	12	19.84	19.91	19.88
		25	25	19.74	19.71	19.80
		50	0	19.89	19.87	19.93
	16QAM	1	0	20.07	20.19	20.10
		1	24	20.18	20.35	20.11
		1	49	20.11	20.21	20.15
		25	0	18.69	18.89	18.83
		25	12	18.91	18.70	18.82
		25	25	18.86	19.01	18.90
		50	0	18.81	18.74	18.70
	64QAM	1	0	19.09	19.21	19.23
		1	24	19.37	19.20	19.39
		1	49	19.10	19.19	19.24
		25	0	17.71	17.88	18.00
		25	12	17.81	17.89	17.95
		25	25	17.70	17.85	17.71
		50	0	17.96	17.88	17.90
	256QAM	1	0	16.09	16.15	16.20
		1	24	16.03	16.03	16.05
		1	49	16.07	16.19	16.09
		25	0	15.96	16.11	16.17
		25	12	16.11	16.09	16.14
		25	25	16.12	16.16	16.30
		50	0	16.05	16.33	16.04

Band/BW	Modulation	RB Size	RB Offset	Low CH (43165)	Mid CH (43340)	High CH (43515)
				Frequency (3557.5)MHz	Frequency (3575)MHz	Frequency (3592.5)MHz
42/ 15	QPSK	1	0	20.91	20.95	20.79
		1	37	20.92	20.84	20.89
		1	74	20.61	20.77	20.70
		36	0	19.80	19.96	19.93
		36	19	19.82	19.86	20.03
		36	39	19.80	19.85	19.74
		75	0	19.79	19.80	19.79
	16QAM	1	0	20.10	20.19	20.05
		1	37	20.30	20.20	20.14
		1	74	20.22	20.03	20.19
		36	0	18.79	18.82	18.97
		36	19	18.87	18.76	18.83
		36	39	18.86	18.93	19.01
		75	0	18.72	18.80	18.88
	64QAM	1	0	19.06	19.15	19.16
		1	37	19.27	19.25	19.34
		1	74	19.00	19.05	19.26
		36	0	17.81	17.87	17.86
		36	19	17.75	17.93	17.95
		36	39	17.85	17.78	17.76
		75	0	17.75	17.89	18.01
	256QAM	1	0	16.15	16.25	16.18
		1	37	16.05	16.20	15.98
		1	74	16.25	16.03	16.06
		36	0	15.92	16.03	16.05
		36	19	16.13	15.96	16.14
		36	39	16.17	16.10	16.16
		75	0	16.15	16.13	16.09

Band/BW	Modulation	RB Size	RB Offset	Low CH (43190)	Mid CH (43340)	High CH (43490)
				Frequency (3560)MHz	Frequency (3575)MHz	Frequency (3590)MHz
42/ 20	QPSK	1	0	20.95	20.98	20.97
		1	50	20.92	20.97	20.94
		1	99	20.79	20.84	20.82
		50	0	19.94	20.00	20.02
		50	25	19.99	20.05	20.04
		50	50	19.85	19.89	19.80
		100	0	19.91	20.00	19.97
	16QAM	1	0	20.20	20.31	20.22
		1	50	20.35	20.34	20.26
		1	99	20.25	20.24	20.25
		50	0	18.88	19.02	19.02
		50	25	19.03	18.89	18.94
		50	50	18.92	19.08	19.08
		100	0	18.90	18.89	18.91
	64QAM	1	0	19.26	19.23	19.32
		1	50	19.38	19.26	19.38
		1	99	19.18	19.23	19.27
		50	0	17.90	17.94	18.01
		50	25	17.96	17.92	17.95
		50	50	17.91	17.87	17.91
		100	0	17.95	17.94	18.03
	256QAM	1	0	16.18	16.29	16.24
		1	50	16.05	16.21	16.06
		1	99	16.28	16.18	16.16
		50	0	16.13	16.23	16.20
		50	25	16.14	16.16	16.14
		50	50	16.27	16.27	16.31
		100	0	16.19	16.33	16.12

EIRP

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BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm)
20M-QPSK	43190	3560	20.95	2	22.95	197.24	23
	43340	3575	20.98	2	22.98	198.61	23
	43490	3590	20.97	2	22.97	198.15	23
20M-16QAM	43190	3560	20.35	2	22.35	171.79	23
	43340	3575	20.34	2	22.34	171.40	23
	43490	3590	20.26	2	22.26	168.27	23
20M-64QAM	43190	3560	19.38	2	21.38	137.40	23
	43340	3575	19.26	2	21.26	133.66	23
	43490	3590	19.38	2	21.38	137.40	23
20M-256QAM	43190	3560	16.28	2	18.28	67.30	23
	43340	3575	16.33	2	18.33	68.08	23
	43490	3590	16.31	2	18.31	67.76	23
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm)
15M-QPSK	43165	3557.5	20.92	2	22.92	195.88	23
	43340	3575	20.95	2	22.95	197.24	23
	43515	3592.5	20.89	2	22.89	194.54	23
15M-16QAM	43165	3557.5	20.30	2	22.30	169.82	23
	43340	3575	20.20	2	22.20	165.96	23
	43515	3592.5	20.19	2	22.19	165.58	23
15M-64QAM	43165	3557.5	19.27	2	21.27	133.97	23
	43340	3575	19.25	2	21.25	133.35	23
	43515	3592.5	19.34	2	21.34	136.14	23
15M-256QAM	43165	3557.5	16.25	2	18.25	66.83	23
	43340	3575	16.25	2	18.25	66.83	23
	43515	3592.5	16.18	2	18.18	65.77	23

BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm)
10M-QPSK	43140	3555	20.80	2	22.80	190.55	23
	43340	3575	20.94	2	22.94	196.79	23
	43540	3595	20.96	2	22.96	197.70	23
10M-16QAM	43140	3555	20.18	2	22.18	165.20	23
	43340	3575	20.35	2	22.35	171.79	23
	43540	3595	20.15	2	22.15	164.06	23
10M-64QAM	43140	3555	19.37	2	21.37	137.09	23
	43340	3575	19.21	2	21.21	132.13	23
	43540	3595	19.39	2	21.39	137.72	23
10M-256QAM	43140	3555	16.12	2	18.12	64.86	23
	43340	3575	16.33	2	18.33	68.08	23
	43540	3595	16.30	2	18.30	67.61	23
BW [MHz] Modulation	Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dB)	EIRP (dBm)	EIRP (mW)	Limit (dBm)
5M-QPSK	43115	3552.5	20.89	2	22.89	194.54	23
	43340	3575	20.89	2	22.89	194.54	23
	43565	3597.5	20.80	2	22.80	190.55	23
5M-16QAM	43115	3552.5	20.23	2	22.23	167.11	23
	43340	3575	20.27	2	22.27	168.66	23
	43565	3597.5	20.17	2	22.17	164.82	23
5M-64QAM	43115	3552.5	19.30	2	21.30	134.90	23
	43340	3575	19.19	2	21.19	131.52	23
	43565	3597.5	19.26	2	21.26	133.66	23
5M-256QAM	43115	3552.5	16.26	2	18.26	66.99	23
	43340	3575	16.30	2	18.30	67.61	23
	43565	3597.5	16.19	2	18.19	65.92	23

Note: 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).

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