

Appendix C

LTE BAND42

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

CONDUCTED OUTPUT POWER (dBm)

LTE Band 42

LTE Band 42 FCC Part96 (Ant7)						
BW	MCS Index	RB Size	RB Offset	Low	Mid	High
		Channel		43190	43340	43490
		Frequency (MHz)		3560	3575	3590
20M	QPSK	1	0	22.34	22.47	22.39
		1	50	22.34	22.39	22.44
		1	99	22.19	22.07	22.32
		50	0	21.76	21.86	21.70
		50	25	21.71	21.79	21.64
		50	50	21.60	21.76	21.67
		100	0	21.65	21.60	21.69
	16QAM	1	0	21.47	21.56	21.51
		1	50	21.31	21.29	21.37
		1	99	21.18	21.22	21.30
		50	0	20.66	20.71	20.79
		50	25	20.50	20.60	20.73
		50	50	20.70	20.57	20.77
		100	0	20.64	20.78	20.78
	64QAM	1	0	20.45	20.37	20.48
		1	50	20.41	20.34	20.45
		1	99	20.24	20.18	20.39
		50	0	19.85	19.86	19.82
		50	25	19.81	19.83	19.75
		50	50	19.70	19.69	19.76
		100	0	19.62	19.69	19.79
	256QAM	1	0	17.65	17.88	17.88
		1	50	17.87	17.79	17.82
		1	99	17.67	17.73	17.79
		50	0	17.69	17.80	17.86
		50	25	17.70	17.65	17.89
		50	50	17.81	17.72	17.93
		100	0	17.80	17.73	17.88

BW	MCS Index	Channel		43165	43340	43515
		Frequency (MHz)		3557.5	3575	3592.5
15M	QPSK	1	0	22.26	22.37	22.27
		1	37	22.24	22.28	22.37
		1	74	22.12	21.94	22.28
		36	0	21.56	21.51	21.81
		36	19	21.74	21.59	21.70
		36	39	21.55	21.62	21.63
		75	0	21.54	21.46	21.61
	16QAM	1	0	21.42	21.43	21.44
		1	37	21.26	21.15	21.35
		1	74	21.12	21.19	21.18
		36	0	20.54	20.65	20.68
		36	19	20.42	20.46	20.65
		36	39	20.64	20.48	20.76
		75	0	20.57	20.77	20.74
	64QAM	1	0	20.34	20.35	20.39
		1	37	20.40	20.23	20.40
		1	74	20.20	20.06	20.24
		36	0	19.70	19.72	19.71
		36	19	19.79	19.70	19.63
		36	39	19.62	19.58	19.72
		75	0	19.57	19.58	19.73
	256QAM	1	0	17.50	17.77	17.82
		1	37	17.86	17.77	17.68
		1	74	17.52	17.65	17.77
		36	0	17.65	17.71	17.83
		36	19	17.59	17.58	17.85
		36	39	17.76	17.57	17.80
		75	0	17.67	17.69	17.83

BW	MCS Index	Channel		43140	43340	43540
		Frequency (MHz)		3555	3575	3595
10M	QPSK	1	0	22.25	22.42	22.34
		1	24	22.29	22.25	22.33
		1	49	22.12	21.98	22.20
		25	0	21.59	21.56	21.75
		25	12	21.66	21.62	21.70
		25	25	21.48	21.58	21.64
		50	0	21.50	21.55	21.54
	16QAM	1	0	21.40	21.43	21.45
		1	24	21.22	21.20	21.26
		1	49	21.04	21.20	21.20
		25	0	20.52	20.66	20.73
		25	12	20.45	20.54	20.69
		25	25	20.69	20.48	20.66
		50	0	20.58	20.68	20.75
	64QAM	1	0	20.34	20.29	20.35
		1	24	20.34	20.24	20.44
		1	49	20.22	20.04	20.35
		25	0	19.79	19.72	19.69
		25	12	19.73	19.78	19.71
		25	25	19.65	19.61	19.64
		50	0	19.52	19.60	19.78
	256QAM	1	0	17.62	17.81	17.79
		1	24	17.75	17.75	17.75
		1	49	17.59	17.60	17.74
		25	0	17.65	17.75	17.74
		25	12	17.57	17.57	17.80
		25	25	17.74	17.66	17.78
		50	0	17.70	17.66	17.74

BW	MCS Index	Channel		43115	43340	43565
		Frequency (MHz)		3552.5	3575	3597.5
5M	QPSK	1	0	22.25	22.45	22.27
		1	12	22.28	22.34	22.34
		1	24	22.17	22.01	22.20
		12	0	21.61	21.61	21.73
		12	6	21.62	21.67	21.72
		12	13	21.56	21.57	21.68
		25	0	21.62	21.52	21.57
	16QAM	1	0	21.39	21.53	21.39
		1	12	21.23	21.24	21.28
		1	24	21.03	21.13	21.15
		12	0	20.55	20.66	20.64
		12	6	20.41	20.54	20.71
		12	13	20.65	20.50	20.74
		25	0	20.59	20.75	20.70
	64QAM	1	0	20.30	20.27	20.40
		1	12	20.27	20.24	20.36
		1	24	20.14	20.13	20.31
		12	0	19.80	19.78	19.68
		12	6	19.70	19.80	19.65
		12	13	19.62	19.54	19.65
		25	0	19.60	19.68	19.70
	256QAM	1	0	17.50	17.83	17.75
		1	12	17.82	17.65	17.71
		1	24	17.55	17.66	17.64
		12	0	17.58	17.79	17.81
		12	6	17.67	17.62	17.80
		12	13	17.75	17.68	17.78
		25	0	17.76	17.67	17.83

EIRP

LTE Band 42

LTE B42 5M QPSK Part96						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Lmit (dBm/10Mhz)
43115	3552.5	22.28	0.5	22.78	189.67	23
43340	3575	22.45	0.5	22.95	197.24	23
43565	3597.5	22.34	0.5	22.84	192.31	23

LTE B42 5M 16QAM Part96						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Lmit (dBm/10Mhz)
43115	3552.5	21.39	0.5	21.89	154.53	23
43340	3575	21.53	0.5	22.03	159.59	23
43565	3597.5	21.39	0.5	21.89	154.53	23

LTE B42 5M 64QAM Part96						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Lmit (dBm/10Mhz)
43115	3552.5	20.3	0.5	20.8	120.23	23
43340	3575	20.27	0.5	20.77	119.4	23
43565	3597.5	20.4	0.5	20.9	123.03	23

LTE B42 5M 256QAM Part96						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Lmit (dBm/10Mhz)
43115	3552.5	17.82	0.5	18.32	67.92	23
43340	3575	17.83	0.5	18.33	68.08	23
43565	3597.5	17.83	0.5	18.33	68.08	23

LTE B42 10M QPSK Part96						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Lmit (dBm/10Mhz)
43140	3555	22.29	0.5	22.79	190.11	23
43340	3575	22.42	0.5	22.92	195.88	23
43540	3595	22.34	0.5	22.84	192.31	23

LTE B42 10M 16QAM Part96						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Lmit (dBm/10Mhz)
43140	3555	21.4	0.5	21.9	154.88	23
43340	3575	21.43	0.5	21.93	155.96	23
43540	3595	21.45	0.5	21.95	156.68	23

LTE B42 10M 64QAM Part96						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Lmit (dBm/10Mhz)
43140	3555	20.34	0.5	20.84	121.34	23
43340	3575	20.29	0.5	20.79	119.95	23
43540	3595	20.44	0.5	20.94	124.17	23

LTE B42 10M 256QAM Part96						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Lmit (dBm/10Mhz)
43140	3555	17.75	0.5	18.25	66.83	23
43340	3575	17.81	0.5	18.31	67.76	23
43540	3595	17.8	0.5	18.3	67.61	23

LTE B42 15M QPSK Part96						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Lmit (dBm/10Mhz)
43165	3557.5	22.26	0.5	22.76	188.8	23
43340	3575	22.37	0.5	22.87	193.64	23
43515	3592.5	22.37	0.5	22.87	193.64	23

LTE B42 15M 16QAM Part96						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Lmit (dBm/10Mhz)
43165	3557.5	21.42	0.5	21.92	155.6	23
43340	3575	21.43	0.5	21.93	155.96	23
43515	3592.5	21.44	0.5	21.94	156.31	23

LTE B42 15M 64QAM Part96						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Lmit (dBm/10Mhz)
43165	3557.5	20.4	0.5	20.9	123.03	23
43340	3575	20.35	0.5	20.85	121.62	23
43515	3592.5	20.4	0.5	20.9	123.03	23

LTE B42 15M 256QAM Part96						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Lmit (dBm/10Mhz)
43165	3557.5	17.86	0.5	18.36	68.55	23
43340	3575	17.77	0.5	18.27	67.14	23
43515	3592.5	17.85	0.5	18.35	68.39	23

LTE B42 20M QPSK Part96						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Lmit (dBm/10Mhz)
43190	3560	22.34	0.5	22.84	192.31	23
43340	3575	22.47	0.5	22.97	198.15	23
43490	3590	22.44	0.5	22.94	196.79	23

LTE B42 20M 16QAM Part96						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Lmit (dBm/10Mhz)
43190	3560	21.47	0.5	21.97	157.4	23
43340	3575	21.56	0.5	22.06	160.69	23
43490	3590	21.51	0.5	22.01	158.85	23

LTE B42 20M 64QAM Part96						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Lmit (dBm/10Mhz)
43190	3560	20.45	0.5	20.95	124.45	23
43340	3575	20.37	0.5	20.87	122.18	23
43490	3590	20.48	0.5	20.98	125.31	23

LTE B42 20M 256QAM Part96						
Channel	Frequency (MHz)	Conducted Power (dBm)	Gain (dBi)	EIRP (dBm)	EIRP (mW)	Lmit (dBm/10Mhz)
43190	3560	17.87	0.5	18.37	68.71	23
43340	3575	17.88	0.5	18.38	68.87	23
43490	3590	17.93	0.5	18.43	69.66	23

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

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