

Appendix G: Secondary Mode Conducted Powers

G.1. LTE-M Conducted Powers

LTE-M Band 12		Frequency [MHz]			707.5	MPR [dB]
Antenna:	Main	Channel Number			23095	
Bandwidth [MHz]:	10	Channel Number			23095	
Power Level	Modulation	RB Size	RB Offset	NB Position	Conducted Powers [dBm]	MPR [dB]
Max	16QAM	1	0	1	22.79	
		1	2	3	22.81	
		1	5	6	22.74	
		3	0	1	22.83	
		3	2	3	22.79	
		3	3	6	22.80	
		6	0	1	19.73	
		6	0	3	19.98	
		6	0	6	20.38	

LTE-M Band 12		Frequency [MHz]			701.5	707.5	713.5	MPR [dB]
Antenna:	Main	Channel Number			23035	23095	23155	
Bandwidth [MHz]:	5	Channel Number			23035	23095	23155	
Power Level	Modulation	RB Size	RB Offset	NB Position	Conducted Powers [dBm]			MPR [dB]
Max	QPSK	1	0	Low	22.52	22.53	22.50	
		1	2	1	22.34	22.40	22.41	
		1	5	2	22.45	22.44	22.40	
		3	0	Low	21.86	21.94	21.93	
		3	2	1	21.90	21.92	21.90	
		3	3	2	21.97	21.98	21.92	
		6	0	Low	21.89	21.86	21.84	
		6	0	1	21.96	21.91	21.77	
		6	0	2	21.92	21.85	21.92	
	16QAM	1	0	Low	22.76	22.74	22.96	MPR [dB]
		1	2	1	22.71	22.73	22.92	
		1	5	2	22.70	22.72	22.97	
		3	0	Low	22.12	22.12	22.14	
		3	2	1	22.09	22.07	22.05	
		3	3	2	22.08	22.11	22.13	
		6	0	Low	21.68	21.83	21.56	
		6	0	1	21.62	21.71	21.52	
		6	0	2	21.59	21.80	21.53	

LTE-M Band 12		Frequency [MHz]			700.5	707.5	714.5	MPR [dB]
Antenna:	Main							
Bandwidth [MHz]: 3		Channel Number			23025	23095	23165	
Power Level	Modulation	RB Size	RB Offset	NB Position	Conducted Powers [dBm]			
Max	QPSK	1	0	Low	22.55	22.50	22.59	0
		1	0	High	22.52	22.47	22.56	0
		1	5	High	22.45	22.40	22.49	0
		3	0	Low	21.96	21.91	22.00	1
		3	0	High	21.99	21.94	22.03	1
		3	3	High	22.03	21.98	22.07	1
		6	0	Low	21.29	21.24	21.33	2
		6	0	High	21.54	21.49	21.58	2
	16QAM	1	0	Low	22.24	22.25	22.53	1
		1	0	High	22.22	22.43	22.58	1
		1	5	High	22.28	22.45	22.50	1
		3	0	Low	21.80	22.06	22.06	2
		3	0	High	21.93	21.79	21.83	2
		3	3	High	21.89	22.18	21.90	2
		6	0	Low	21.63	22.09	21.76	2
		6	0	High	21.47	21.97	21.72	2

LTE-M Band 12		Frequency [MHz]			699.7	707.5	715.3	MPR [dB]
Antenna:	Main							
Bandwidth [MHz]:	1.4	Channel Number			23017	23095	23173	
Power Level	Modulation	RB Size	RB Offset	NB Position	Conducted Powers [dBm]			
Max	QPSK	1	0	N/A	22.55	22.59	22.50	0
		1	2	N/A	22.45	22.48	22.41	0
		1	5	N/A	22.49	22.53	22.58	0
		3	0	N/A	21.55	21.94	21.57	1
		3	2	N/A	21.54	21.89	21.62	1
		3	3	N/A	21.57	21.91	21.45	1
		6	0	N/A	20.68	20.62	20.69	2
	16QAM	1	0	N/A	22.26	22.35	22.45	1
		1	2	N/A	22.43	22.38	22.37	1
		1	5	N/A	22.41	22.41	22.41	1
		3	0	N/A	21.65	21.65	21.77	2
		3	2	N/A	21.67	21.77	21.82	2
		3	3	N/A	21.49	21.97	21.71	2
		6	0	N/A	22.16	21.91	21.88	2

LTE-M Band 4		Frequency [MHz]			1732.5	MPR [dB]
Antenna:	Main					
Bandwidth [MHz]:	20	Channel Number			20175	
Power Level	Modulation	RB Size	RB Offset	NB Position	Conducted Powers [dBm]	
Max	16QAM	1	0	1	22.27	0
		1	0	7	22.38	0
		1	5	14	22.24	0
		3	0	1	22.21	0
		3	0	7	22.28	0
		3	3	14	22.26	0
		6	0	1	22.19	0
		6	0	7	22.31	0
		6	0	14	22.30	0

LTE-M Band 4		Frequency [MHz]			1717.5	1732.5	1747.5	MPR [dB]
Antenna:	Main							
Bandwidth [MHz]:	15	Channel Number			20025	20175	20325	
Power Level	Modulation	RB Size	RB Offset	NB Position	Conducted Powers [dBm]			
Max	QPSK	1	0	1	22.20	22.24	22.44	0
		1	0	5	22.32	22.25	22.53	0
		1	5	10	22.32	22.30	22.43	0
		3	0	1	22.30	22.28	22.55	0
		3	0	5	22.30	22.28	22.54	0
		3	3	10	22.33	22.28	22.54	0
		6	0	1	22.31	22.25	22.36	0
		6	0	5	22.34	22.28	22.34	0
		6	0	10	22.40	22.28	22.36	0
	16QAM	1	0	1	22.35	22.34	22.64	0
		1	0	5	22.33	22.32	22.54	0
		1	5	10	22.36	22.42	22.47	0
		3	0	1	22.46	22.43	22.56	0
		3	0	5	22.46	22.43	22.56	0
		3	3	10	22.39	22.42	22.56	0
		6	0	1	22.39	22.36	22.67	0
		6	0	5	22.37	22.37	22.61	0
		6	0	10	22.38	22.35	22.68	0

LTE-M Band 4		Frequency [MHz]			1715	1732.5	1750	MPR [dB]
Antenna:	Main							
Bandwidth [MHz]:	10	Channel Number			20000	20175	20350	
Power Level	Modulation	RB Size	RB Offset	NB Position	Conducted Powers [dBm]			
Max	QPSK	1	0	1	22.21	22.45	22.40	0
		1	2	3	22.33	22.43	22.51	0
		1	5	6	22.33	22.37	22.46	0
		3	0	1	22.30	22.43	22.49	0
		3	2	3	22.30	22.41	22.49	0
		3	3	6	22.30	22.42	22.49	0
		6	0	1	21.95	22.08	22.01	1
		6	0	3	22.00	22.11	22.02	1
		6	0	6	21.89	22.02	22.04	1
	16QAM	1	0	1	22.36	22.40	22.64	0
		1	2	3	22.33	22.40	22.64	0
		1	5	6	22.30	22.40	22.59	0
		3	0	1	22.19	22.36	22.48	0
		3	2	3	22.22	22.44	22.41	0
		3	3	6	22.25	22.39	22.43	0
		6	0	1	21.42	21.37	21.34	2
		6	0	3	21.34	21.33	21.46	2
		6	0	6	21.33	21.30	21.47	2

LTE-M Band 4		Frequency [MHz]			1712.5	1732.5	1752.5	MPR [dB]
Antenna:	Main							
Bandwidth [MHz]:	5	Channel Number			19975	20175	20375	
Power Level	Modulation	RB Size	RB Offset	NB Position	Conducted Powers [dBm]			
Max	QPSK	1	0	Low	22.27	22.33	22.41	0
		1	2	1	22.20	22.29	22.38	0
		1	5	2	22.18	22.36	22.33	0
		3	0	Low	21.61	21.68	21.71	1
		3	2	1	21.59	21.69	21.72	1
		3	3	2	21.52	21.70	21.80	1
		6	0	Low	21.56	21.76	21.72	1
		6	0	1	21.60	21.75	21.75	1
		6	0	2	21.59	21.74	21.82	1
	16QAM	1	0	Low	22.25	22.51	22.57	0
		1	2	1	22.20	22.51	22.54	0
		1	5	2	22.24	22.57	22.68	0
		3	0	Low	21.56	21.61	21.71	1
		3	2	1	21.50	21.54	21.62	1
		3	3	2	21.52	21.65	21.67	1
		6	0	Low	21.05	20.95	21.01	2
		6	0	1	21.11	20.96	21.02	2
		6	0	2	21.12	20.93	21.00	2

LTE-M Band 4		Frequency [MHz]			1711.5	1732.5	1753.5	MPR [dB]
Antenna:	Main							
Bandwidth [MHz]: 3		Channel Number			19965	20175	20385	
Power Level	Modulation	RB Size	RB Offset	NB Position	Conducted Powers [dBm]			
Max	QPSK	1	0	Low	22.31	22.38	22.27	0
		1	0	High	22.29	22.37	22.42	0
		1	5	High	22.24	22.40	22.43	0
		3	0	Low	21.83	21.84	21.87	1
		3	0	High	21.78	21.82	21.95	1
		3	3	High	21.90	21.84	21.97	1
		6	0	Low	21.58	21.46	21.77	2
		6	0	High	21.37	21.31	21.49	2
	16QAM	1	0	Low	21.83	22.00	22.18	1
		1	0	High	21.67	22.06	22.14	1
		1	5	High	21.77	21.98	22.10	1
		3	0	Low	21.45	21.48	21.44	2
		3	0	High	21.43	21.55	21.46	2
		3	3	High	21.42	21.65	21.69	2
		6	0	Low	21.56	21.76	21.29	2
		6	0	High	21.40	21.70	21.24	2

LTE-M Band 4		Frequency [MHz]			1710.7	1732.5	1754.3	MPR [dB]
Antenna:	Main							
Bandwidth [MHz]:	1.4	Channel Number			19957	20175	20393	
Power Level	Modulation	RB Size	RB Offset	NB Position	Conducted Powers [dBm]			
Max	QPSK	1	0	N/A	22.18	22.42	22.13	0
		1	2	N/A	22.18	22.39	22.38	0
		1	5	N/A	22.20	22.35	22.40	0
		3	0	N/A	21.78	21.78	22.01	1
		3	2	N/A	21.70	21.75	21.89	1
		3	3	N/A	21.59	21.69	21.88	1
		6	0	N/A	21.36	21.30	21.40	2
	16QAM	1	0	N/A	22.00	21.88	22.09	1
		1	2	N/A	21.90	21.89	22.11	1
		1	5	N/A	21.89	21.83	22.06	1
		3	0	N/A	21.12	21.38	21.40	2
		3	2	N/A	21.15	21.36	21.33	2
		3	3	N/A	21.32	21.21	21.57	2
		6	0	N/A	21.29	21.24	21.32	2

LTE-M Band 2		Frequency [MHz]			1860	1880	1900	MPR [dB]
Antenna:	Main							
Bandwidth [MHz]:	20	Channel Number			18700	18900	19100	
Power Level	Modulation	RB Size	RB Offset	NB Position	Conducted Powers [dBm]			
Max	16QAM	1	0	1	22.52	22.67	22.51	0
		1	0	7	22.40	22.71	22.58	0
		1	5	14	22.43	22.69	22.48	0
		3	0	1	22.45	22.29	22.60	0
		3	0	7	22.53	22.32	22.53	0
		3	3	14	22.57	22.30	22.60	0
		6	0	1	22.03	21.97	22.25	0
		6	0	7	22.07	21.99	22.38	0
		6	0	14	22.03	21.93	22.29	0

LTE-M Band 2		Frequency [MHz]			1857.5	1880	1902.5	MPR [dB]
Antenna:	Main							
Bandwidth [MHz]:	15	Channel Number			18675	18900	19125	
Power Level	Modulation	RB Size	RB Offset	NB Position	Conducted Powers [dBm]			
Max	QPSK	1	0	1	22.62	22.52	22.47	0
		1	0	5	22.61	22.51	22.48	0
		1	5	10	22.57	22.51	22.48	0
		3	0	1	22.60	22.50	22.39	0
		3	0	5	22.64	22.50	22.39	0
		3	3	10	22.64	22.50	22.28	0
		6	0	1	22.58	22.23	22.42	0
		6	0	5	22.58	22.25	22.41	0
		6	0	10	22.57	22.26	22.41	0
	16QAM	1	0	1	22.61	22.69	22.56	0
		1	0	5	22.53	22.73	22.49	0
		1	5	10	22.58	22.77	22.48	0
		3	0	1	22.40	22.62	22.59	0
		3	0	5	22.46	22.62	22.63	0
		3	3	10	22.53	22.53	22.53	0
		6	0	1	22.61	22.41	22.60	0
		6	0	5	22.63	22.43	22.59	0
		6	0	10	22.62	22.35	22.59	0

LTE-M Band 2		Frequency [MHz]			1855	1880	1905	MPR [dB]
Antenna:	Main							
Bandwidth [MHz]:	10	Channel Number			18650	18900	19150	
Power Level	Modulation	RB Size	RB Offset	NB Position	Conducted Powers [dBm]			
Max	QPSK	1	0	1	22.69	22.52	22.40	0
		1	2	3	22.73	22.51	22.56	0
		1	5	6	22.62	22.52	22.40	0
		3	0	1	22.63	22.50	22.55	0
		3	2	3	22.70	22.50	22.54	0
		3	3	6	22.64	22.50	22.54	0
		6	0	1	22.31	22.11	22.21	1
		6	0	3	22.27	22.14	22.12	1
		6	0	6	22.27	22.14	22.08	1
	16QAM	1	0	1	22.72	22.53	22.61	0
		1	2	3	22.71	22.53	22.75	0
		1	5	6	22.66	22.46	22.60	0
		3	0	1	22.61	22.50	22.56	0
		3	2	3	22.60	22.57	22.55	0
		3	3	6	22.60	22.51	22.44	0
		6	0	1	22.11	22.08	22.04	2
		6	0	3	22.14	22.07	22.05	2
		6	0	6	22.10	22.03	22.02	2

LTE-M Band 2		Frequency [MHz]			1852.5	1880	1907.5	MPR [dB]
Antenna:	Main							
Bandwidth [MHz]:	5	Channel Number			18625	18900	19175	
Power Level	Modulation	RB Size	RB Offset	NB Position	Conducted Powers [dBm]			
Max	QPSK	1	0	Low	22.70	22.47	22.50	0
		1	2	1	22.65	22.49	22.49	0
		1	5	2	22.68	22.46	22.46	0
		3	0	Low	22.02	21.88	21.82	1
		3	2	1	22.03	21.90	21.77	1
		3	3	2	22.05	21.87	21.86	1
		6	0	Low	21.97	21.71	21.73	1
		6	0	1	21.88	21.75	21.73	1
		6	0	2	21.95	21.74	21.67	1
	16QAM	1	0	Low	22.67	22.78	22.72	0
		1	2	1	22.62	22.75	22.74	0
		1	5	2	22.59	22.80	22.68	0
		3	0	Low	22.01	21.78	21.77	1
		3	2	1	21.93	21.74	21.82	1
		3	3	2	22.06	21.73	21.74	1
		6	0	Low	21.76	21.54	21.57	2
		6	0	1	21.64	21.69	21.63	2
		6	0	2	21.66	21.63	21.66	2

LTE-M Band 2		Frequency [MHz]			1851.5	1880	1908.5	MPR [dB]
Antenna:	Main							
Bandwidth [MHz]: 3		Channel Number			18615	18900	19185	
Power Level	Modulation	RB Size	RB Offset	NB Position	Conducted Powers [dBm]			
Max	QPSK	1	0	Low	22.63	22.49	22.37	0
		1	0	High	22.62	22.48	22.44	0
		1	5	High	22.67	22.50	22.49	0
		3	0	Low	22.34	22.08	21.95	1
		3	0	High	22.31	22.29	21.98	1
		3	3	High	22.30	22.03	21.92	1
		6	0	Low	21.74	21.49	21.41	2
		6	0	High	21.64	21.37	21.52	2
	16QAM	1	0	Low	22.26	21.98	22.24	1
		1	0	High	22.29	22.00	22.18	1
		1	5	High	22.13	21.94	22.05	1
		3	0	Low	21.65	21.47	21.50	2
		3	0	High	21.65	21.46	21.47	2
		3	3	High	21.65	21.46	21.49	2
		6	0	Low	21.60	21.38	21.31	2
		6	0	High	21.64	21.33	21.38	2

LTE-M Band 2		Frequency [MHz]			1850.7	1880	1909.3	MPR [dB]
Antenna:	Main							
Bandwidth [MHz]:	1.4	Channel Number			18607	18900	19193	
Power Level	Modulation	RB Size	RB Offset	NB Position	Conducted Powers [dBm]			
Max	QPSK	1	0	N/A	22.58	22.54	22.47	0
		1	2	N/A	22.71	22.59	22.46	0
		1	5	N/A	22.72	22.53	22.48	0
		3	0	N/A	22.16	21.91	21.89	1
		3	2	N/A	22.03	21.94	21.90	1
		3	3	N/A	22.12	21.99	21.97	1
		6	0	N/A	21.49	21.46	21.05	2
	16QAM	1	0	N/A	22.25	22.25	22.06	1
		1	2	N/A	22.30	22.19	22.02	1
		1	5	N/A	22.28	22.17	21.90	1
		3	0	N/A	21.51	21.29	21.43	2
		3	2	N/A	21.49	21.46	21.33	2
		3	3	N/A	21.46	21.39	21.29	2
		6	0	N/A	21.38	21.43	21.25	2

G.2. NTN Conducted Powers

NB NTN Band 23		Frequency [MHz]		2000	2010	2019.9	MPR [dB]
Antenna:	Main	Channel Number		25500	25600	25699	
Bandwidth [kHz]:	200	Conducted Powers [dBm]					
Power Level	Modulation	Number of Tones	Start Tone Index				
Max	BPSK	1	0	22.48	22.35	22.57	0
		1	5	22.54	22.41	22.61	0
		1	11	22.40	22.38	22.49	0

NB NTN Band 255		Frequency [MHz]		1626.6	1643.5	1660.4	MPR [dB]
Antenna:	Main	Channel Number		261505	261674	261843	
Bandwidth [kHz]:	200	Conducted Powers [dBm]					
Power Level	Modulation	Number of Tones	Start Tone Index				
Max	BPSK	1	0	22.53	22.74	22.58	0
		1	5	22.59	22.72	22.50	0
		1	11	22.47	22.69	22.53	0