

Appendix G: Secondary Mode Conducted Powers

G.1. LTE-M Conducted Powers

LTE-M Band 12		Frequency [MHz]			707.5	MPR [dB]
Antenna:	A05001-A2	Channel Number			23095	
Bandwidth [MHz]:	10	RB Size	RB Offset	NB Postion	Conducted Powers [dBm]	
Max	16QAM	1	0	1	23.93	0
		1	2	3	24.11	0
		1	5	6	23.91	0
		3	0	1	23.78	0
		3	2	3	24.05	0
		3	3	6	23.88	0
		6	0	1	22.10	2
		6	0	3	22.11	2
		6	0	6	22.15	2

LTE-M Band 12		Frequency [MHz]			701.5	707.5	713.5	MPR [dB]
Antenna:	A05001-A2	Channel Number			23035	23095	23155	
Bandwidth [MHz]:	5	RB Size	RB Offset	NB Postion	Conducted Powers [dBm]			
Max	QPSK	1	0	Low	23.55	23.55	23.73	0
		1	2	1	23.65	23.71	23.80	0
		1	5	2	23.57	23.62	23.89	0
		3	0	Low	23.03	23.00	23.14	1
		3	2	1	23.16	23.18	23.29	1
		3	3	2	23.04	23.10	23.11	1
		6	0	Low	23.05	22.98	22.99	1
		6	0	1	23.00	22.99	23.01	1
	16QAM	1	0	Low	23.77	23.70	23.68	0
		1	2	1	24.02	24.10	23.88	0
		1	5	2	23.61	23.70	23.74	0
		3	0	Low	23.30	23.27	23.06	1
		3	2	1	23.43	23.35	23.33	1
		3	3	2	23.28	23.34	23.22	1
		6	0	Low	22.02	21.85	21.90	2
		6	0	1	21.91	21.86	21.87	2
		6	0	2	21.91	21.87	21.88	2

LTE-M Band 12		Frequency [MHz]			700.5	707.5	714.5	MPR [dB]
Antenna:	A05001-A2	Channel Number			23025	23095	23165	
Bandwidth [MHz]:	3	RB Size	RB Offset	NB Postion	Conducted Powers [dBm]			
Power Level	Modulation	RB Size	RB Offset	NB Postion	Conducted Powers [dBm]			MPR [dB]
Max	QPSK	1	0	Low	23.80	23.59	23.86	0
		1	0	High	23.70	23.58	23.84	0
		1	5	High	23.77	23.73	23.72	0
		3	0	Low	23.27	23.07	23.15	1
		3	0	High	23.19	23.08	23.17	1
		3	3	High	23.24	23.09	23.13	1
		6	0	Low	22.15	22.05	22.05	2
		6	0	High	22.10	22.03	22.01	2
	16QAM	1	0	Low	23.08	23.03	22.69	1
		1	0	High	23.01	23.00	22.66	1
		1	5	High	23.15	23.16	22.76	1
		3	0	Low	22.06	21.99	22.14	2
		3	0	High	21.95	22.01	22.11	2
		3	3	High	22.10	22.15	22.32	2
		6	0	Low	21.95	22.01	22.00	2
		6	0	High	21.96	22.03	22.05	2

LTE-M Band 12		Frequency [MHz]			699.7	707.5	715.3	MPR [dB]
Antenna:	A05001-A2	Channel Number			23017	23095	23173	
Bandwidth [MHz]:	1.4	RB Size	RB Offset	NB Postion	Conducted Powers [dBm]			
Power Level	Modulation	RB Size	RB Offset	NB Postion	Conducted Powers [dBm]			MPR [dB]
Max	QPSK	1	0	N/A	23.71	23.75	23.75	0
		1	2	N/A	24.15	24.08	24.10	0
		1	5	N/A	23.93	24.00	23.97	0
		3	0	N/A	23.12	23.20	23.20	1
		3	2	N/A	23.23	23.26	23.27	1
		3	3	N/A	23.10	23.10	23.25	1
		6	0	N/A	22.17	22.15	22.09	2
	16QAM	1	0	N/A	22.98	22.98	23.05	1
		1	2	N/A	23.23	23.26	23.30	1
		1	5	N/A	23.39	23.30	23.39	1
		3	0	N/A	22.15	22.12	22.04	2
		3	2	N/A	22.38	22.40	22.34	2
		3	3	N/A	22.27	22.19	22.15	2
		6	0	N/A	21.95	21.92	21.95	2

LTE-M Band 4		Frequency [MHz]			1732.5	MPR [dB]
Antenna: A05001-A3		Channel Number			20175	
Bandwidth [MHz]: 20		Conducted Powers [dBm]				
Power Level	Modulation	RB Size	RB Offset	NB Postion		
Max	16QAM	1	0	1	23.61	0
		1	0	7	23.66	0
		1	5	14	23.46	0
		3	0	1	23.66	0
		3	0	7	23.75	0
		3	3	14	23.66	0
		6	0	1	23.34	0
		6	0	7	23.41	0
		6	0	14	23.31	0

LTE-M Band 4		Frequency [MHz]			1717.5	1732.5	1747.5	MPR [dB]	
Antenna: A05001-A3		Channel Number			20025	20175	20325		
Bandwidth [MHz]: 15		Conducted Powers [dBm]							
Power Level	Modulation	RB Size	RB Offset	NB Postion					
Max	QPSK	1	0	1	23.69	23.61	23.67	0	
		1	0	5	23.67	23.64	23.68	0	
		1	5	10	23.48	23.70	23.46	0	
		3	0	1	23.42	23.36	23.40	0	
		3	0	5	23.45	23.41	23.44	0	
		3	3	10	23.49	23.43	23.43	0	
		6	0	1	23.33	23.42	23.28	0	
		6	0	5	23.34	23.48	23.32	0	
			6	0	10	23.28	23.43	23.50	0
	16QAM	1	0	1	23.60	23.64	23.69	0	
		1	0	5	23.62	23.66	23.72	0	
		1	5	10	23.57	23.68	23.51	0	
		3	0	1	23.60	23.59	23.47	0	
		3	0	5	23.65	23.65	23.51	0	
		3	3	10	23.68	23.67	23.61	0	
		6	0	1	23.42	23.45	23.39	0	
6		0	5	23.46	23.48	23.42	0		
		6	0	10	23.30	23.39	23.37	0	

LTE-M Band 4		Frequency [MHz]			1715	1732.5	1750	MPR [dB]
Antenna: A05001-A3		Channel Number			20000	20175	20350	
Bandwidth [MHz]: 10		Channel Number			20000	20175	20350	
Power Level	Modulation	RB Size	RB Offset	NB Postion	Conducted Powers [dBm]			
Max	QPSK	1	0	1	23.64	23.55	23.73	0
		1	2	3	23.73	23.59	23.76	0
		1	5	6	23.52	23.48	23.70	0
		3	0	1	23.42	23.34	23.60	0
		3	2	3	23.54	23.58	23.67	0
		3	3	6	23.44	23.45	23.56	0
		6	0	1	22.75	22.70	22.73	1
		6	0	3	22.74	22.78	22.71	1
		6	0	6	22.85	22.76	22.71	1
	16QAM	1	0	1	23.56	23.49	23.62	0
		1	2	3	23.60	23.81	23.77	0
		1	5	6	23.58	23.67	23.52	0
		3	0	1	23.48	23.69	23.47	0
		3	2	3	23.61	23.91	23.76	0
		3	3	6	23.49	23.76	23.64	0
		6	0	1	21.82	21.64	21.92	2
6	0	3	21.81	21.67	21.89	2		
6	0	6	21.83	21.68	21.88	2		

LTE-M Band 4		Frequency [MHz]			1712.5	1732.5	1752.5	MPR [dB]
Antenna: A05001-A3		Channel Number			19975	20175	20375	
Bandwidth [MHz]: 5		Channel Number			19975	20175	20375	
Power Level	Modulation	RB Size	RB Offset	NB Postion	Conducted Powers [dBm]			
Max	QPSK	1	0	Low	23.73	23.48	23.74	0
		1	2	1	23.89	23.68	23.70	0
		1	5	2	23.83	23.53	23.56	0
		3	0	Low	22.74	22.80	22.65	1
		3	2	1	23.06	22.99	22.94	1
		3	3	2	22.90	22.89	22.87	1
		6	0	Low	22.90	22.85	22.75	1
		6	0	1	22.91	22.86	22.75	1
		6	0	2	22.88	22.77	22.72	1
	16QAM	1	0	Low	23.62	23.39	23.65	0
		1	2	1	23.85	23.47	23.67	0
		1	5	2	23.67	23.48	23.51	0
		3	0	Low	22.89	22.91	22.75	1
		3	2	1	23.14	23.12	23.29	1
		3	3	2	22.97	23.08	23.02	1
		6	0	Low	21.90	21.77	21.71	2
6	0	1	21.88	21.66	21.70	2		
6	0	2	21.87	21.64	21.69	2		

LTE-M Band 4		Frequency [MHz]			1711.5	1732.5	1753.5	MPR [dB]
Antenna:	A05001-A3	Channel Number			19965	20175	20385	
Bandwidth [MHz]:	3	RB Size	RB Offset	NB Postion	Conducted Powers [dBm]			
Power Level	Modulation							
Max	QPSK	1	0	Low	23.49	23.44	23.51	0
		1	0	High	23.52	23.42	23.42	0
		1	5	High	23.77	23.71	23.68	0
		3	0	Low	22.88	22.89	22.87	1
		3	0	High	22.90	22.87	22.85	1
		3	3	High	22.99	22.88	22.86	1
		6	0	Low	21.99	21.90	21.87	2
	16QAM	6	0	High	21.94	21.88	21.84	2
		1	0	Low	23.10	23.06	23.07	1
		1	0	High	23.04	23.05	23.05	1
		1	5	High	23.19	23.27	23.18	1
		3	0	Low	21.91	22.02	21.82	2
		3	0	High	21.92	21.99	21.89	2
		3	3	High	21.98	21.98	21.96	2
6	0	Low	21.87	21.79	21.86	2		
6	0	High	21.86	21.78	21.83	2		

LTE-M Band 4		Frequency [MHz]			1710.7	1732.5	1754.3	MPR [dB]
Antenna:	A05001-A3	Channel Number			19957	20175	20393	
Bandwidth [MHz]:	1.4	RB Size	RB Offset	NB Postion	Conducted Powers [dBm]			
Power Level	Modulation							
Max	QPSK	1	0	N/A	23.55	23.93	23.62	0
		1	2	N/A	23.96	23.93	23.69	0
		1	5	N/A	23.78	23.87	23.76	0
		3	0	N/A	23.01	23.06	23.10	1
		3	2	N/A	23.23	23.17	23.11	1
		3	3	N/A	23.01	23.05	22.93	1
		6	0	N/A	21.95	21.85	21.94	2
	16QAM	1	0	N/A	23.31	23.24	23.11	1
		1	2	N/A	23.47	23.51	23.22	1
		1	5	N/A	23.33	23.51	23.13	1
		3	0	N/A	22.15	22.02	22.00	2
		3	2	N/A	22.11	22.19	22.19	2
		3	3	N/A	22.07	22.02	21.96	2
		6	0	N/A	21.99	21.98	21.82	2

LTE-M Band 2		Frequency [MHz]			1860	1880	1900	MPR [dB]
Antenna:	A05001-A3	Channel Number			18700	18900	19100	
Bandwidth [MHz]:	20	RB Size	RB Offset	NB Postion	Conducted Powers [dBm]			
Max	16QAM	1	0	1	23.89	23.79	23.60	0
		1	0	7	23.94	23.86	23.66	0
		1	5	14	24.02	23.83	23.73	0
		3	0	1	23.56	23.68	23.74	0
		3	0	7	23.60	23.76	23.81	0
		3	3	14	23.67	23.75	23.77	0
		6	0	1	23.68	23.71	23.72	0
		6	0	7	23.76	23.72	23.82	0
		6	0	14	23.62	23.67	23.78	0

LTE-M Band 2		Frequency [MHz]			1857.5	1880	1902.5	MPR [dB]
Antenna:	A05001-A3	Channel Number			18675	18900	19125	
Bandwidth [MHz]:	15	RB Size	RB Offset	NB Postion	Conducted Powers [dBm]			
Max	QPSK	1	0	1	23.91	23.83	23.99	0
		1	0	5	23.94	23.91	24.03	0
		1	5	10	23.95	23.96	23.96	0
		3	0	1	23.53	23.51	23.81	0
		3	0	5	23.54	23.54	23.81	0
		3	3	10	23.62	23.63	23.74	0
		6	0	1	23.61	23.62	23.65	0
		6	0	5	23.63	23.65	23.70	0
		6	0	10	23.64	23.63	23.63	0
	16QAM	1	0	1	23.70	23.70	23.58	0
		1	0	5	23.71	23.85	23.67	0
		1	5	10	23.81	23.88	23.70	0
		3	0	1	23.88	23.85	23.78	0
		3	0	5	23.89	23.89	23.82	0
		3	3	10	23.85	23.86	23.84	0
		6	0	1	23.53	23.53	23.68	0
		6	0	5	23.59	23.54	23.74	0
		6	0	10	23.52	23.54	23.67	0

LTE-M Band 2		Frequency [MHz]			1855	1880	1905	MPR [dB]
Antenna:	A05001-A3	Channel Number			18650	18900	19150	
Bandwidth [MHz]:	10	RB Size	RB Offset	NB Postion	Conducted Powers [dBm]			
Power Level	Modulation							
Max	QPSK	1	0	1	23.90	23.86	23.95	0
		1	2	3	23.97	23.98	23.98	0
		1	5	6	23.99	24.09	23.90	0
		3	0	1	23.60	23.70	23.71	0
		3	2	3	23.90	23.85	23.89	0
		3	3	6	23.77	23.69	23.73	0
		6	0	1	23.29	23.03	23.11	1
		6	0	3	23.25	23.06	23.12	1
	16QAM	6	0	6	23.22	23.09	23.11	1
		1	0	1	23.78	23.90	23.62	0
		1	2	3	24.32	24.20	23.86	0
		1	5	6	23.97	24.00	23.62	0
		3	0	1	23.92	23.88	23.79	0
		3	2	3	23.99	23.96	24.03	0
		3	3	6	23.80	23.80	23.89	0
		6	0	1	21.92	21.89	22.20	2
6	0	3	21.88	21.85	22.22	2		
6	0	6	21.93	21.87	22.10	2		

LTE-M Band 2		Frequency [MHz]			1852.5	1880	1907.5	MPR [dB]
Antenna:	A05001-A3	Channel Number			18625	18900	19175	
Bandwidth [MHz]:	5	RB Size	RB Offset	NB Postion	Conducted Powers [dBm]			
Power Level	Modulation							
Max	QPSK	1	0	Low	23.81	23.91	24.04	0
		1	2	1	24.02	24.02	24.10	0
		1	5	2	23.95	24.10	23.89	0
		3	0	Low	23.10	23.01	23.25	1
		3	2	1	23.30	23.27	23.37	1
		3	3	2	23.14	23.12	23.17	1
		6	0	Low	23.29	23.13	23.14	1
		6	0	1	23.25	23.12	23.13	1
	16QAM	6	0	2	23.21	23.11	23.15	1
		1	0	Low	23.88	23.96	23.63	0
		1	2	1	24.25	24.30	23.80	0
		1	5	2	23.92	24.00	23.73	0
		3	0	Low	23.43	23.37	23.20	1
		3	2	1	23.45	23.45	23.42	1
		3	3	2	23.29	23.30	23.28	1
		6	0	Low	21.98	21.99	22.13	2
6	0	1	21.82	21.96	22.21	2		
6	0	2	21.81	22.02	22.20	2		

LTE-M Band 2		Frequency [MHz]			1851.5	1880	1908.5	MPR [dB]
Antenna:	A05001-A3	Channel Number			18615	18900	19185	
Bandwidth [MHz]:	3	RB Size	RB Offset	NB Postion	Conducted Powers [dBm]			
Max	QPSK	1	0	Low	23.65	23.66	23.92	0
		1	0	High	23.60	23.67	23.91	0
		1	5	High	23.81	23.89	23.75	0
		3	0	Low	23.29	23.03	23.20	1
		3	0	High	23.05	23.04	23.19	1
		3	3	High	23.03	23.12	23.20	1
		6	0	Low	22.21	22.10	22.13	2
		6	0	High	22.05	22.13	22.14	2
	16QAM	1	0	Low	23.13	23.14	22.77	1
		1	0	High	23.16	23.14	22.78	1
		1	5	High	23.29	23.26	22.91	1
		3	0	Low	22.18	22.08	22.03	2
		3	0	High	22.13	22.20	22.00	2
		3	3	High	22.27	22.32	22.36	2
		6	0	Low	22.11	22.11	22.07	2
		6	0	High	22.16	22.13	22.06	2

LTE-M Band 2		Frequency [MHz]			1850.7	1880	1909.3	MPR [dB]
Antenna:	A05001-A3	Channel Number			18607	18900	19193	
Bandwidth [MHz]:	1.4	RB Size	RB Offset	NB Postion	Conducted Powers [dBm]			
Max	QPSK	1	0	N/A	23.72	23.85	23.98	0
		1	2	N/A	24.11	23.98	23.89	0
		1	5	N/A	23.90	23.77	23.80	0
		3	0	N/A	23.22	23.20	23.14	1
		3	2	N/A	23.35	23.34	23.14	1
		3	3	N/A	23.22	23.27	23.16	1
		6	0	N/A	22.26	22.20	22.39	2
	16QAM	1	0	N/A	23.12	22.76	22.74	1
		1	2	N/A	23.35	22.99	22.98	1
		1	5	N/A	23.37	22.98	23.04	1
		3	0	N/A	22.20	22.17	22.27	2
		3	2	N/A	22.40	22.47	22.45	2
		3	3	N/A	22.35	22.47	22.48	2
		6	0	N/A	22.06	22.05	22.09	2