

APPENDIX F: LTE LOWER BANDWIDTH RF CONDUCTED POWERS

All conducted power measurements for 4G WWAN technologies and bands in this section were performed by setting *Reserve power margin* (Qualcomm® Smart Transmit EFS entry) to 0 dB, so that the EUT transmits continuously at minimum (P_{limit}, maximum tune up output power P_{max}).

Note: Some bands do not support three non-overlapping channels. Per KDB Publication 941225 D05v02, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

F.1 LTE Lower Bandwidth RF Conducted Powers

F.1.1 LTE Band 12

Table F-1
LTE Band 12 Measured P_{Max} for all DSI - 5 MHz Bandwidth

LTE Band 12 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23035 (701.5 MHz)	23095 (707.5 MHz)	23155 (713.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	24.51	24.40	24.36	0	0
	1	12	24.54	24.52	24.44		0
	1	24	24.31	24.43	24.36		0
	12	0	23.46	23.35	23.44	0-1	1
	12	6	23.50	23.31	23.37		1
	12	13	23.44	23.32	23.34		1
	25	0	23.41	23.31	23.39		1
16QAM	1	0	24.04	23.82	23.75	0-1	1
	1	12	23.94	23.92	23.61		1
	1	24	23.75	23.74	23.77		1
	12	0	22.49	22.46	22.47	0-2	2
	12	6	22.53	22.42	22.61		2
	12	13	22.47	22.49	22.33		2
	25	0	22.43	22.41	22.36		2
64QAM	1	0	22.85	22.67	22.53	0-2	2
	1	12	22.41	22.45	22.77		2
	1	24	22.65	22.72	22.42		2
	12	0	21.49	21.39	21.41	0-3	3
	12	6	21.53	21.43	21.34		3
	12	13	21.45	21.36	21.38		3
	25	0	21.42	21.32	21.36		3





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Table F-2
LTE Band 12 Measured P_{Max} for all DSI - 3 MHz Bandwidth

LTE Band 12 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23025 (700.5 MHz)	23095 (707.5 MHz)	23165 (714.5 MHz)		
Conducted Power [dBm]							
QPSK	1	0	24.49	24.47	24.32	0	0
	1	7	24.45	24.45	24.40		0
	1	14	24.37	24.39	24.23		0
	8	0	23.48	23.46	23.26	0-1	1
	8	4	23.48	23.42	23.37		1
	8	7	23.52	23.47	23.30		1
	15	0	23.49	23.31	23.35		1
16QAM	1	0	23.75	23.73	23.63	0-1	1
	1	7	23.72	23.75	23.70		1
	1	14	23.76	23.82	23.56		1
	8	0	22.71	22.44	22.39	0-2	2
	8	4	22.58	22.53	22.42		2
	8	7	22.50	22.56	22.39		2
	15	0	22.49	22.36	22.32		2
64QAM	1	0	22.78	22.57	22.50	0-2	2
	1	7	22.71	22.86	22.93		2
	1	14	22.65	22.61	22.36		2
	8	0	21.41	21.30	21.35	0-3	3
	8	4	21.59	21.41	21.46		3
	8	7	21.35	21.55	21.18		3
	15	0	21.45	21.36	21.32		3

Table F-3
LTE Band 12 Measured P_{Max} for all DSI - 1.4 MHz Bandwidth

LTE Band 12 1.4 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23017 (699.7 MHz)	23095 (707.5 MHz)	23173 (715.3 MHz)		
Conducted Power [dBm]							
QPSK	1	0	24.39	24.31	24.29	0	0
	1	2	24.44	24.47	24.17		0
	1	5	24.27	24.52	24.22		0
	3	0	24.48	24.32	24.29		0
	3	2	24.45	24.42	24.17		0
	3	3	24.47	24.41	24.31		0
	6	0	23.44	23.27	23.29	0-1	1
16QAM	1	0	23.70	23.91	23.63	0-1	1
	1	2	24.17	23.87	23.91		1
	1	5	23.76	23.70	23.71		1
	3	0	23.36	23.51	23.43		1
	3	2	23.64	23.42	23.53		1
	3	3	23.61	23.57	23.42		1
	6	0	22.57	22.49	22.45	0-2	2
64QAM	1	0	22.87	22.72	22.69	0-2	2
	1	2	22.48	22.48	22.54		2
	1	5	22.57	22.46	22.48		2
	3	0	22.59	22.42	22.46		2
	3	2	22.51	22.51	22.45		2
	3	3	22.59	22.44	22.37		2
	6	0	21.51	21.27	21.32	0-3	3

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F.1.2 LTE Band 13

Table F-4
LTE Band 13 Measured P_{Max} for all DSI - 5 MHz Bandwidth

LTE Band 13 5 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23230 (782.0 MHz) Conducted Power [dBm]		
QPSK	1	0	24.18	0	0
	1	12	24.27		0
	1	24	24.20		0
	12	0	23.13	0-1	1
	12	6	23.20		1
	12	13	23.18		1
16QAM	25	0	23.06	0-1	1
	1	0	23.50		1
	1	12	23.71		1
	1	24	23.51	0-2	1
	12	0	22.14		2
	12	6	22.23		2
64QAM	12	13	22.32	0-2	2
	25	0	22.11		2
	1	0	22.21		0-2
	1	12	22.28	2	
	1	24	22.07	2	
	64QAM	12	0	21.03	0-3
12		6	21.21	3	
12		13	21.17	3	
25		0	21.10	3	

F.1.3 LTE Band 5

Table F-5
LTE Band 5 (Cell) Measured P_{Max} for all DSI - 5 MHz Bandwidth

LTE Band 5 (Cell) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20425 (826.5 MHz)	20525 (836.5 MHz)	20625 (846.5 MHz)		
Conducted Power [dBm]							
QPSK	1	0	24.49	24.50	24.53	0	0
	1	12	24.63	24.55	24.45		0
	1	24	24.76	24.56	24.40		0
	12	0	23.86	23.50	23.41	0-1	1
	12	6	23.91	23.62	23.44		1
	12	13	23.87	23.61	23.49		1
16QAM	25	0	23.60	23.58	23.56	0-1	1
	1	0	23.96	23.80	23.57		1
	1	12	23.89	23.88	23.67		1
	1	24	23.85	23.86	23.79	0-2	1
	12	0	22.73	22.55	22.48		2
	12	6	22.68	22.51	22.50		2
64QAM	12	13	22.67	22.65	22.49	0-2	2
	25	0	22.63	22.64	22.51		2
	1	0	22.79	22.56	22.75		2
	1	12	22.81	22.62	22.74	0-3	2
	1	24	22.74	22.68	22.71		2
	12	0	21.76	21.49	21.46		3
64QAM	12	6	21.79	21.55	21.53	0-3	3
	12	13	21.77	21.47	21.58		3
	25	0	21.75	21.53	21.59		3







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Table F-6
LTE Band 5 (Cell) Measured P_{Max} for all DSI - 3 MHz Bandwidth

LTE Band 5 (Cell) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20415 (825.5 MHz)	20525 (836.5 MHz)	20635 (847.5 MHz)		
Conducted Power [dBm]							
QPSK	1	0	24.72	24.45	24.63	0	0
	1	7	24.69	24.52	24.56		0
	1	14	24.71	24.49	24.55		0
	8	0	23.63	23.55	23.43	0-1	1
	8	4	23.65	23.57	23.42		1
	8	7	23.61	23.59	23.46		1
16QAM	15	0	23.66	23.54	23.52	0-1	1
	1	0	23.85	23.79	23.71		1
	1	7	24.02	23.72	23.83		1
	1	14	24.05	23.69	23.77	0-2	1
	8	0	22.78	22.52	22.46		2
	8	4	22.76	22.58	22.65		2
64QAM	8	7	22.77	22.55	22.63	0-2	2
	15	0	22.72	22.63	22.68		2
	1	0	22.85	22.64	22.75		0-2
	1	7	22.83	22.54	22.79	2	
	1	14	22.81	22.57	22.73	2	
	64QAM	8	0	21.66	21.52	21.48	0-3
8		4	21.63	21.49	21.50	3	
8		7	21.77	21.53	21.56	3	
15		0	21.76	21.60	21.53	3	

Table F-7
LTE Band 5 (Cell) Measured P_{Max} for all DSI - 1.4 MHz Bandwidth

LTE Band 5 (Cell) 1.4 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20407 (824.7 MHz)	20525 (836.5 MHz)	20643 (848.3 MHz)		
Conducted Power [dBm]							
QPSK	1	0	24.68	24.60	24.53	0	0
	1	2	24.66	24.56	24.50		0
	1	5	24.64	24.55	24.42		0
	3	0	24.68	24.45	24.51	0-1	0
	3	2	24.66	24.49	24.49		0
	3	3	24.74	24.51	24.55		0
16QAM	6	0	23.64	23.55	23.57	0-1	1
	1	0	23.89	23.97	23.88		1
	1	2	23.95	23.92	23.90		1
	1	5	23.77	23.93	23.87	0-1	1
	3	0	23.82	23.65	23.71		1
	3	2	23.78	23.63	23.72		1
64QAM	3	3	23.84	23.69	23.69	0-2	1
	6	0	22.76	22.60	22.57		2
	1	0	22.81	22.63	22.60		0-2
	1	2	22.77	22.61	22.82	2	
	1	5	22.82	22.67	22.79	2	
	3	0	22.78	22.65	22.59	0-3	2
3	2	22.75	22.68	22.61	2		
3	3	22.79	22.64	22.63	2		
6	0	21.66	21.53	21.55	3		

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F.1.4 LTE Band 4

Table F-8
LTE Band 4 (AWS) Measured P_{Max} for DSI = 2 (Head) or DSI = 0 (Body-worn, or Phablet with grip sensor inactive) - 15 MHz Bandwidth

LTE Band 4 (AWS) 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20025 (1717.5 MHz)	20175 (1732.5 MHz)	20325 (1747.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	22.55	22.55	22.66	0	0
	1	36	22.92	22.82	23.09		0
	1	74	22.69	22.71	22.87		0
	36	0	21.75	21.83	21.91	0-1	1
	36	18	21.77	21.79	22.01		1
	36	37	21.74	21.80	22.03		1
	75	0	21.70	21.75	21.98		1
16QAM	1	0	21.77	21.89	21.83	0-1	1
	1	36	22.14	22.18	22.24		1
	1	74	21.95	22.12	22.14		1
	36	0	20.77	20.77	21.09	0-2	2
	36	18	20.83	20.89	21.02		2
	36	37	20.78	20.82	21.08		2
	75	0	20.74	20.81	21.01		2
64QAM	1	0	20.63	20.69	20.70	0-2	2
	1	36	20.87	21.03	21.47		2
	1	74	20.76	20.93	21.29		2
	36	0	19.79	19.77	19.92	0-3	3
	36	18	19.82	19.87	20.01		3
	36	37	19.79	19.82	20.06		3
	75	0	19.72	19.79	20.01		3

Table F-9
LTE Band 4 (AWS) Measured P_{Max} for DSI = 2 (Head) or DSI = 0 (Body-worn, or Phablet with grip sensor inactive) - 10 MHz Bandwidth

LTE Band 4 (AWS) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20000 (1715.0 MHz)	20175 (1732.5 MHz)	20350 (1750.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	22.71	22.60	22.78	0	0
	1	25	23.05	22.97	23.15		0
	1	49	22.69	22.69	22.87		0
	25	0	21.94	21.92	22.02	0-1	1
	25	12	22.03	22.02	22.18		1
	25	25	21.84	21.90	22.10		1
	50	0	21.85	21.91	22.11		1
16QAM	1	0	21.92	22.07	22.14	0-1	1
	1	25	22.38	22.36	22.54		1
	1	49	21.97	22.12	22.29		1
	25	0	20.94	20.95	21.01	0-2	2
	25	12	21.05	21.04	21.21		2
	25	25	20.83	20.93	21.07		2
	50	0	20.86	20.91	21.12		2
64QAM	1	0	20.73	20.83	20.91	0-2	2
	1	25	21.01	21.12	21.33		2
	1	49	20.67	20.87	20.97		2
	25	0	19.87	19.95	20.03	0-3	3
	25	12	19.98	20.03	20.22		3
	25	25	19.83	19.92	20.11		3
	50	0	19.77	19.89	20.13		3




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Table F-10

LTE Band 4 (AWS) Measured P_{Max} for DSI = 2 (Head) or DSI = 0 (Body-worn, or Phablet with grip sensor inactive) - 5 MHz Bandwidth

LTE Band 4 (AWS) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			19975 (1712.5 MHz)	20175 (1732.5 MHz)	20375 (1752.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	22.78	22.89	23.12	0	0
	1	12	22.95	23.01	23.21		0
	1	24	22.77	22.79	23.06		0
	12	0	21.98	21.94	22.16	0-1	1
	12	6	22.03	21.99	22.24		1
	12	13	21.88	21.93	22.18		1
16QAM	25	0	21.95	21.94	22.21	0-1	1
	1	0	22.24	22.27	22.18		1
	1	12	22.41	22.33	22.56		1
	1	24	22.25	22.17	22.48	0-2	1
	12	0	21.02	21.03	21.23		2
	12	6	21.05	21.09	21.38		2
64QAM	12	13	20.91	21.03	21.27	0-2	2
	25	0	20.99	20.95	21.25		2
	1	0	21.06	21.09	21.20		2
	1	12	21.27	21.27	21.52	0-3	2
	1	24	21.18	21.13	21.23		2
	12	0	20.05	20.11	20.12		3
64QAM	12	6	20.09	20.10	20.21	0-3	3
	12	13	19.93	20.07	20.14		3
	25	0	19.97	19.96	20.24		3

Table F-11

LTE Band 4 (AWS) Measured P_{Max} for DSI = 2 (Head) or DSI = 0 (Body-worn, or Phablet with grip sensor inactive) - 3 MHz Bandwidth

LTE Band 4 (AWS) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			19965 (1711.5 MHz)	20175 (1732.5 MHz)	20385 (1753.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	22.89	22.82	23.12	0	0
	1	7	22.99	23.01	23.26		0
	1	14	22.85	22.86	23.16		0
	8	0	21.97	21.94	22.21	0-1	1
	8	4	21.93	21.98	22.26		1
	8	7	21.89	21.93	22.25		1
16QAM	15	0	21.90	21.95	22.17	0-1	1
	1	0	22.22	22.25	22.25		1
	1	7	22.21	22.26	22.59		1
	1	14	22.19	22.19	22.35	0-2	1
	8	0	21.07	21.01	21.24		2
	8	4	21.01	21.04	21.36		2
64QAM	8	7	20.96	21.00	21.27	0-2	2
	15	0	20.91	21.01	21.18		2
	1	0	21.01	21.03	21.15		0-3
	1	7	21.34	21.15	21.55	2	
	1	14	21.14	21.02	21.40	2	
	64QAM	8	0	20.01	20.07	20.19	0-3
8		4	19.95	20.12	20.28	3	
8		7	19.87	20.04	20.19	3	
15		0	19.94	19.98	20.19	3	



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Table F-12
LTE Band 4 (AWS) Measured P_{Max} for DSI = 2 (Head) or DSI = 0 (Body-worn, or Phablet with grip sensor inactive) - 1.4 MHz Bandwidth

LTE Band 4 (AWS) 1.4 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			19957 (1710.7 MHz)	20175 (1732.5 MHz)	20393 (1754.3 MHz)		
Conducted Power [dBm]							
QPSK	1	0	22.89	22.87	23.16	0	0
	1	2	22.91	22.92	23.24		0
	1	5	22.89	22.85	23.25		0
	3	0	22.93	22.96	23.28		0
	3	2	22.94	23.02	23.25		0
	3	3	22.96	22.96	23.23		0
16QAM	6	0	21.96	21.97	22.23	0-1	1
	1	0	22.13	22.02	22.30	0-1	1
	1	2	22.02	22.22	22.59		1
	1	5	22.12	22.27	22.55		1
	3	0	22.17	22.15	22.47		1
	3	2	22.18	22.15	22.45		1
3	3	22.11	22.12	22.43	1		
64QAM	6	0	21.06	20.99	21.25	0-2	2
	1	0	21.04	21.17	21.18	0-2	2
	1	2	21.15	21.23	21.33		2
	1	5	21.21	21.22	21.38		2
	3	0	21.17	21.11	21.43		2
	3	2	21.04	21.08	21.40		2
3	3	21.10	21.13	21.32	2		
64QAM	6	0	19.95	19.99	20.25	0-3	3

Table F-13
LTE Band 4 (AWS) Measured P_{Limit} for DSI = 3 (Hotspot Mode) - 15 MHz Bandwidth

LTE Band 4 (AWS) 15 MHz Bandwidth								
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]	
			20025 (1717.5 MHz)	20175 (1732.5 MHz)	20325 (1747.5 MHz)			
Conducted Power [dBm]								
QPSK	1	0	17.63	17.56	17.82	0	0	
	1	36	17.91	17.78	18.13		0	
	1	74	17.76	17.72	17.99		0	
	36	0	17.85	17.87	18.01		0-1	0
	36	18	17.84	17.95	18.13			0
	36	37	17.86	17.92	18.12			0
16QAM	75	0	17.78	17.90	18.06	0-1	0	
	1	0	17.81	17.77	18.10		0	
	1	36	17.74	18.08	18.09		0	
	1	74	17.69	17.82	18.11		0	
	36	0	17.87	17.81	18.05		0-2	0
	36	18	17.81	17.89	18.13			0
36	37	17.97	17.91	18.03	0			
64QAM	75	0	17.87	17.81	18.10	0-2	0	
	1	0	17.67	17.71	18.02		0	
	1	36	17.71	17.92	18.13		0	
	1	74	17.98	18.09	18.07		0	
	36	0	17.84	17.82	18.01		0-3	0
	36	18	17.88	17.87	18.07			0
36	37	17.91	17.97	18.16	0			
64QAM	75	0	17.81	17.91	18.08	0-3	0	



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Table F-14
LTE Band 4 (AWS) Measured P_{Limit} for DSI = 3 (Hotspot Mode) - 10 MHz Bandwidth

LTE Band 4 (AWS) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20000 (1715.0 MHz)	20175 (1732.5 MHz)	20350 (1750.0 MHz)		
Conducted Power [dBm]							
QPSK	1	0	17.65	17.62	17.88	0	0
	1	25	17.87	17.88	18.14		0
	1	49	17.63	17.57	17.86		0
	25	0	17.89	17.76	17.98	0-1	0
	25	12	18.01	17.90	18.19		0
	25	25	17.76	17.78	18.01		0
16QAM	50	0	17.75	17.83	18.14	0-1	0
	1	0	17.78	17.86	17.94		0
	1	25	18.00	18.01	18.07		0
	1	49	17.79	17.92	18.01	0-2	0
	25	0	17.89	17.88	18.02		0
	25	12	18.01	17.95	18.15		0
64QAM	25	25	17.73	17.88	18.09	0-2	0
	50	0	17.84	17.81	18.07		0
	1	0	17.87	17.86	17.93		0-2
	1	25	17.79	17.82	17.86	0	
	1	49	17.93	17.75	18.01	0-3	
	25	0	17.82	17.95	18.02		0
25	12	17.93	18.01	18.17	0		
64QAM	25	25	17.81	18.02	18.09	0-3	0
	50	0	17.87	18.05	18.06		0

Table F-15
LTE Band 4 (AWS) Measured P_{Limit} for DSI = 3 (Hotspot Mode) - 5 MHz Bandwidth

LTE Band 4 (AWS) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			19975 (1712.5 MHz)	20175 (1732.5 MHz)	20375 (1752.5 MHz)		
Conducted Power [dBm]							
QPSK	1	0	17.85	17.76	18.09	0	0
	1	12	17.95	17.93	18.14		0
	1	24	17.79	17.74	18.01		0
	12	0	17.93	17.89	18.13	0-1	0
	12	6	18.00	17.96	18.14		0
	12	13	17.83	17.85	18.17		0
16QAM	25	0	17.97	17.86	18.15	0-1	0
	1	0	18.04	18.06	18.13		0
	1	12	18.00	17.94	18.11		0
	1	24	17.92	17.99	18.14	0-2	0
	12	0	17.86	17.87	18.13		0
	12	6	17.97	18.07	18.25		0
64QAM	12	13	17.87	17.97	18.17	0-2	0
	25	0	17.96	17.93	18.22		0
	1	0	17.85	17.86	17.92		0-2
	1	12	17.97	18.00	18.01	0	
	1	24	17.90	18.11	18.11	0-3	
	12	0	18.03	17.88	18.13		0
12	6	18.02	18.04	18.16	0		
64QAM	12	13	17.87	17.86	18.08	0-3	0
	25	0	17.94	17.94	18.23		0



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Table F-16
LTE Band 4 (AWS) Measured P_{Limit} for DSI = 3 (Hotspot Mode) - 3 MHz Bandwidth

LTE Band 4 (AWS) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			19965 (1711.5 MHz)	20175 (1732.5 MHz)	20385 (1753.5 MHz)		
Conducted Power [dBm]							
QPSK	1	0	17.92	17.97	18.14	0	0
	1	7	17.89	17.89	18.15		0
	1	14	17.86	17.72	18.01		0
	8	0	18.01	17.95	18.11	0-1	0
	8	4	17.91	18.02	18.28		0
	8	7	17.92	17.91	18.30		0
16QAM	15	0	17.94	17.95	18.13	0-1	0
	1	0	18.06	18.02	18.15		0
	1	7	17.95	17.96	17.93		0
	1	14	17.86	17.76	17.95	0-2	0
	8	0	17.97	17.99	18.26		0
	8	4	18.18	17.95	18.25		0
64QAM	8	7	17.91	17.93	18.29	0-2	0
	15	0	17.92	17.93	18.16		0
	1	0	17.94	17.72	18.11		0-2
	1	7	17.99	18.07	18.05	0	
	1	14	17.94	17.99	18.02	0	
	64QAM	8	0	18.03	18.02	18.13	0-3
8		4	18.10	17.91	18.31	0	
8		7	17.98	17.98	18.25	0	
15		0	17.87	17.92	18.05	0	

Table F-17
LTE Band 4 (AWS) Measured P_{Limit} for DSI = 3 (Hotspot Mode) - 1.4 MHz Bandwidth

LTE Band 4 (AWS) 1.4 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			19957 (1710.7 MHz)	20175 (1732.5 MHz)	20393 (1754.3 MHz)		
Conducted Power [dBm]							
QPSK	1	0	17.93	17.74	17.99	0	0
	1	2	17.89	17.78	18.02		0
	1	5	17.77	17.75	17.99		0
	3	0	17.85	17.86	18.09	0-1	0
	3	2	17.86	17.77	18.15		0
	3	3	17.77	17.78	18.14		0
16QAM	6	0	17.89	17.79	18.17	0-1	0
	1	0	17.98	18.04	18.02		0
	1	2	17.91	17.82	18.00		0
	1	5	18.00	17.86	18.05	0-1	0
	3	0	17.94	17.91	18.02		0
	3	2	17.97	17.98	18.16		0
64QAM	3	3	18.03	17.89	18.22	0-2	0
	6	0	17.81	17.82	18.07		0
	1	0	17.93	18.03	18.05		0-2
	1	2	17.82	17.96	18.02	0	
	1	5	17.81	17.85	17.94	0	
	64QAM	3	0	17.82	17.78	18.09	0-2
3		2	18.02	17.82	18.09	0	
3		3	17.99	17.87	18.06	0	
6		0	17.85	17.92	18.10	0-3	



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Table F-18

LTE Band 4 (AWS) Measured P_{Limit} for DSI = 1 (Phablet with Grip Sensor Active) and/or DSI = 4 (Earjack Active) - 15 MHz Bandwidth

LTE Band 4 (AWS) 15 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20025 (1717.5 MHz)	20175 (1732.5 MHz)	20325 (1747.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	18.04	17.92	18.31	0	0
	1	36	18.36	18.23	18.69		0
	1	74	18.15	18.12	18.55		0
	36	0	18.21	18.25	18.42	0-1	0
	36	18	18.29	18.33	18.53		0
	36	37	18.28	18.32	18.58		0
	75	0	18.20	18.27	18.48		0
16QAM	1	0	18.38	18.33	18.59	0-1	0
	1	36	18.66	18.69	18.82		0
	1	74	18.61	18.57	18.67		0
	36	0	18.31	18.29	18.43	0-2	0
	36	18	18.34	18.37	18.58		0
	36	37	18.36	18.38	18.62		0
	75	0	18.24	18.29	18.56		0
64QAM	1	0	18.21	18.24	18.55	0-2	0
	1	36	18.62	18.52	18.92		0
	1	74	18.23	18.57	18.77		0
	36	0	18.26	18.27	18.42	0-3	0
	36	18	18.33	18.37	18.56		0
	36	37	18.34	18.35	18.61		0
	75	0	18.24	18.32	18.56		0

Table F-19

LTE Band 4 (AWS) Measured P_{Limit} for DSI = 1 (Phablet with Grip Sensor Active) and/or DSI = 4 (Earjack Active) - 10 MHz Bandwidth

LTE Band 4 (AWS) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20000 (1715.0 MHz)	20175 (1732.5 MHz)	20350 (1750.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	18.15	18.08	18.23	0	0
	1	25	18.46	18.42	18.63		0
	1	49	18.18	18.14	18.33		0
	25	0	18.41	18.37	18.56	0-1	0
	25	12	18.49	18.52	18.76		0
	25	25	18.31	18.41	18.63		0
	50	0	18.33	18.43	18.60		0
16QAM	1	0	18.44	18.48	18.72	0-1	0
	1	25	18.84	18.60	18.88		0
	1	49	18.43	18.59	18.72		0
	25	0	18.45	18.42	18.59	0-2	0
	25	12	18.59	18.55	18.81		0
	25	25	18.37	18.35	18.67		0
	50	0	18.34	18.43	18.65		0
64QAM	1	0	18.23	18.21	18.57	0-2	0
	1	25	18.66	18.87	18.91		0
	1	49	18.21	18.53	18.71		0
	25	0	18.44	18.47	18.53	0-3	0
	25	12	18.53	18.53	18.77		0
	25	25	18.36	18.46	18.67		0
	50	0	18.34	18.45	18.66		0



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Table F-20

LTE Band 4 (AWS) Measured P_{Limit} for DSI = 1 (Phablet with Grip Sensor Active) and/or DSI = 4 (Earjack Active) - 5 MHz Bandwidth

LTE Band 4 (AWS) 5 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			19975 (1712.5 MHz)	20175 (1732.5 MHz)	20375 (1752.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	18.46	18.25	18.67	0	0
	1	12	18.59	18.38	18.87		0
	1	24	18.39	18.27	18.69		0
	12	0	18.48	18.49	18.71	0-1	0
	12	6	18.54	18.50	18.83		0
	12	13	18.38	18.46	18.75		0
16QAM	25	0	18.46	18.48	18.76	0-1	0
	1	0	18.79	18.69	18.92		0
	1	12	18.91	18.84	19.03		0
	1	24	18.69	18.67	19.01	0-2	0
	12	0	18.61	18.58	18.78		0
	12	6	18.65	18.64	18.90		0
64QAM	12	13	18.50	18.57	18.81	0-2	0
	25	0	18.51	18.49	18.73		0
	1	0	18.67	18.72	18.90		0
	1	12	18.83	18.78	19.02	0-2	0
	1	24	18.54	18.67	18.92		0
	12	0	18.45	18.51	18.62		0-3
12	6	18.49	18.56	18.77	0		
12	13	18.35	18.47	18.67	0		
25	0	18.49	18.51	18.76	0		

Table F-21

LTE Band 4 (AWS) Measured P_{Limit} for DSI = 1 (Phablet with Grip Sensor Active) and/or DSI = 4 (Earjack Active) - 3 MHz Bandwidth

LTE Band 4 (AWS) 3 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			19965 (1711.5 MHz)	20175 (1732.5 MHz)	20385 (1753.5 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	18.44	18.32	18.60	0	0
	1	7	18.54	18.47	18.69		0
	1	14	18.38	18.27	18.57		0
	8	0	18.52	18.47	18.75	0-1	0
	8	4	18.46	18.50	18.82		0
	8	7	18.38	18.46	18.76		0
16QAM	15	0	18.42	18.48	18.69	0-1	0
	1	0	18.72	18.82	18.89		0
	1	7	18.82	18.88	19.02		0
	1	14	18.69	18.85	18.88	0-2	0
	8	0	18.51	18.55	18.75		0
	8	4	18.52	18.59	18.89		0
64QAM	8	7	18.53	18.53	18.85	0-2	0
	15	0	18.49	18.49	18.77		0
	1	0	18.46	18.56	18.97		0-2
	1	7	18.53	18.74	19.07	0	
	1	14	18.48	18.54	18.92	0-3	
	8	0	18.57	18.62	18.80		0
8	4	18.55	18.64	18.90	0		
8	7	18.49	18.61	18.82	0-3	0	
15	0	18.42	18.51	18.71		0	



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Table F-22

LTE Band 4 (AWS) Measured P_{Limit} for DSI = 1 (Phablet with Grip Sensor Active) and/or DSI = 4 (Earjack Active) - 1.4 MHz Bandwidth

LTE Band 4 (AWS) 1.4 MHz Bandwidth								
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]	
			19957 (1710.7 MHz)	20175 (1732.5 MHz)	20393 (1754.3 MHz)			
Conducted Power [dBm]								
QPSK	1	0	18.54	18.43	18.78	0	0	
	1	2	18.61	18.44	18.84		0	
	1	5	18.56	18.38	18.78		0	
	3	0	18.52	18.47	18.80		0	
	3	2	18.49	18.46	18.82		0	
	3	3	18.52	18.47	18.83		0	
	6	0	18.45	18.44	18.80	0-1	0	
16QAM	1	0	18.51	18.78	19.05	0-1	0	
	1	2	18.57	18.84	19.02		0	
	1	5	18.74	18.78	19.01		0	
	3	0	18.62	18.62	18.81		0	
	3	2	18.65	18.64	18.92		0	
	3	3	18.51	18.57	18.89		0	
	6	0	18.57	18.61	18.88	0-2	0	
64QAM	1	0	18.60	18.68	18.92	0-2	0	
	1	2	18.72	18.74	18.85		0	
	1	5	18.58	18.73	18.83		0	
	3	0	18.51	18.61	18.88		0	
	3	2	18.54	18.57	18.84		0	
	3	3	18.59	18.59	18.88		0	
	6	0	18.43	18.47	18.91	0-3	0	

F.1.5 LTE Band 41

Table F-23

LTE Band 41 Measured P_{Max} for DSI = 2 (Head) or DSI = 0 (Body-worn, or Phablet with grip sensor inactive) - 15 MHz Bandwidth

LTE Band 41 15 MHz Bandwidth											
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]		
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)				
Conducted Power [dBm]											
QPSK	1	0	24.16	23.81	24.08	24.19	24.21	0	0		
	1	36	24.23	24.07	24.37	24.34	24.48		0	0	
	1	74	24.11	23.95	24.21	24.15	24.47		0	0	
	36	0	23.24	23.05	23.41	23.39	23.51		0-1	1	
	36	18	23.22	23.13	23.50	23.46	23.60			1	
	36	37	23.15	23.08	23.44	23.42	23.65			1	
75	0	23.09	23.03	23.46	23.31	23.52	1				
16QAM	1	0	23.11	22.92	23.16	23.24	23.29	0-1	1		
	1	36	23.23	23.11	23.43	23.44	23.51		1		
	1	74	23.17	23.00	23.21	23.33	23.53		1		
	36	0	22.31	22.04	22.43	22.36	22.47		0-2	2	
	36	18	22.24	22.15	22.53	22.42	22.61			2	
	36	37	22.14	22.18	22.55	22.44	22.65			2	
75	0	22.08	22.13	22.46	22.31	22.48	2				
64QAM	1	0	22.14	22.16	22.35	22.34	22.33	0-2	2		
	1	36	22.31	22.14	22.40	22.38	22.64		2		
	1	74	22.18	21.94	22.31	22.23	22.66		2		
	36	0	21.25	21.05	21.43	21.42	21.56		0-3	3	
	36	18	21.22	21.14	21.51	21.44	21.59			3	
	36	37	21.19	21.15	21.52	21.41	21.70			3	
75	0	21.11	21.03	21.48	21.33	21.56	3				



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Table F-24
LTE Band 41 Measured P_{Max} for DSI = 2 (Head) or DSI = 0 (Body-worn, or Phablet with grip sensor inactive) - 10 MHz Bandwidth

LTE Band 41 10 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)		
Conducted Power [dBm]									
QPSK	1	0	24.39	24.09	24.25	24.27	24.48	0	0
	1	25	24.41	24.32	24.55	24.57	24.72		0
	1	49	24.28	24.10	24.32	24.23	24.47		0
	25	0	23.48	23.27	23.57	23.49	23.66	0-1	1
	25	12	23.34	23.36	23.64	23.58	23.76		1
	25	25	23.36	23.34	23.58	23.55	23.77		1
16QAM	50	0	23.33	23.29	23.58	23.51	23.75	0-1	1
	1	0	23.40	23.19	23.37	23.34	23.51		1
	1	25	23.38	23.34	23.60	23.58	23.67		1
	1	49	23.29	23.16	23.32	23.30	23.57	0-2	1
	25	0	22.46	22.24	22.62	22.51	22.73		2
	25	12	22.34	22.32	22.71	22.57	22.77		2
64QAM	25	25	22.31	22.34	22.62	22.64	22.74	0-2	2
	50	0	22.28	22.21	22.62	22.56	22.80		2
	1	0	22.42	22.15	22.44	22.38	22.55		0-2
	1	25	22.56	22.36	22.62	22.55	22.74	2	
	1	49	22.49	22.17	22.35	22.34	22.54	0-3	
	25	0	21.46	21.27	21.68	21.55	21.74		3
25	12	21.36	21.32	21.67	21.63	21.79	3		
25	25	21.39	21.36	21.62	21.67	21.83	0-3	3	
50	0	21.33	21.35	21.60	21.54	21.76		3	

Table F-25
LTE Band 41 Measured P_{Max} for DSI = 2 (Head) or DSI = 0 (Body-worn, or Phablet with grip sensor inactive) - 5 MHz Bandwidth

LTE Band 41 5 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)		
Conducted Power [dBm]									
QPSK	1	0	24.38	24.23	24.61	24.54	24.63	0	0
	1	12	24.42	24.41	24.70	24.61	24.77		0
	1	24	24.27	24.27	24.53	24.52	24.67		0
	12	0	23.44	23.34	23.68	23.59	23.72	0-1	1
	12	6	23.47	23.31	23.72	23.56	23.72		1
	12	13	23.38	23.42	23.70	23.66	23.84		1
16QAM	25	0	23.32	23.31	23.71	23.57	23.77	0-1	1
	1	0	23.29	23.30	23.54	23.66	23.65		1
	1	12	23.38	23.32	23.63	23.60	23.73		1
	1	24	23.22	23.36	23.43	23.64	23.71	0-2	1
	12	0	22.43	22.27	22.63	22.56	22.71		2
	12	6	22.42	22.34	22.68	22.61	22.69		2
64QAM	12	13	22.36	22.36	22.67	22.61	22.74	0-2	2
	25	0	22.30	22.33	22.65	22.60	22.81		2
	1	0	22.36	22.38	22.60	22.68	22.73		0-2
	1	12	22.38	22.42	22.76	22.73	22.88	2	
	1	24	22.35	22.35	22.66	22.74	22.79	2	
	12	0	21.47	21.32	21.66	21.61	21.75	0-3	3
12	6	21.55	21.35	21.66	21.55	21.74	3		
12	13	21.33	21.38	21.72	21.65	21.84	3		
25	0	21.34	21.34	21.73	21.53	21.76	0-3	3	



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Table F-26
LTE Band 41 Measured P_{Limit} for DSI = 3 (Hotspot Mode), or DSI = 1 (Phablet with grip sensor active)
and/or DSI = 4 (Earjack Active) - 15 MHz Bandwidth

LTE Band 41 15 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)		
Conducted Power [dBm]									
QPSK	1	0	21.27	20.96	21.24	21.27	21.29	0	0
	1	36	21.36	21.22	21.47	21.49	21.64		0
	1	74	21.25	21.06	21.29	21.21	21.66		0
	36	0	21.42	21.22	21.55	21.45	21.53	0-1	0
	36	18	21.34	21.28	21.62	21.53	21.60		0
	36	37	21.31	21.26	21.62	21.54	21.69		0
16QAM	75	0	21.28	21.23	21.53	21.44	21.56	0-1	0
	1	0	21.29	21.02	21.26	21.29	21.21		0
	1	36	21.37	21.28	21.52	21.56	21.63		0
	1	74	21.23	21.10	21.45	21.26	21.62	0-2	0
	36	0	21.43	21.25	21.52	21.47	21.59		0
	36	18	21.41	21.28	21.69	21.52	21.67		0
64QAM	36	37	21.32	21.33	21.61	21.55	21.77	0-2	0
	75	0	21.34	21.21	21.58	21.42	21.62		0
	1	0	21.47	20.93	21.38	21.40	21.32		0-2
	1	36	21.51	21.33	21.54	21.57	21.60	0	
	1	74	21.37	21.17	21.37	21.38	21.64	0-3	
	36	0	21.34	21.16	21.48	21.41	21.44		0
36	18	21.33	21.23	21.58	21.44	21.57	0		
36	37	21.25	21.24	21.55	21.37	21.67	0-3	0	
75	0	21.23	21.17	21.52	21.36	21.54		0	

Table F-27
LTE Band 41 Measured P_{Limit} for DSI = 3 (Hotspot Mode), or DSI = 1 (Phablet with grip sensor active)
and/or DSI = 4 (Earjack Active) - 10 MHz Bandwidth

LTE Band 41 10 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)		
Conducted Power [dBm]									
QPSK	1	0	21.43	21.17	21.40	21.39	21.57	0	0
	1	25	21.55	21.46	21.59	21.63	21.79		0
	1	49	21.51	21.27	21.38	21.38	21.52		0
	25	0	21.60	21.44	21.71	21.60	21.74	0-1	0
	25	12	21.58	21.54	21.77	21.66	21.80		0
	25	25	21.52	21.52	21.67	21.67	21.78		0
16QAM	50	0	21.48	21.46	21.71	21.59	21.85	0-1	0
	1	0	21.47	21.23	21.46	21.52	21.47		0
	1	25	21.54	21.43	21.69	21.57	21.79		0
	1	49	21.51	21.22	21.47	21.42	21.45	0-2	0
	25	0	21.65	21.40	21.74	21.58	21.72		0
	25	12	21.52	21.51	21.77	21.73	21.80		0
64QAM	25	25	21.52	21.50	21.62	21.69	21.74	0-2	0
	50	0	21.44	21.43	21.65	21.56	21.78		0
	1	0	21.48	21.36	21.54	21.42	21.45		0-2
	1	25	21.56	21.53	21.66	21.72	21.70	0	
	1	49	21.44	21.35	21.53	21.47	21.59	0-3	
	25	0	21.47	21.34	21.67	21.54	21.63		0
25	12	21.44	21.42	21.71	21.57	21.67	0		
25	25	21.47	21.43	21.63	21.64	21.70	0-3	0	
50	0	21.33	21.37	21.62	21.53	21.75		0	






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Table F-28

LTE Band 41 Measured P_{Limit} for DSI = 3 (Hotspot Mode) , or DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack Active)- 5 MHz Bandwidth

LTE Band 41 5 MHz Bandwidth										
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]	
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)			
Conducted Power [dBm]										
QPSK	1	0	21.42	21.46	21.43	21.58	21.71	0	0	
	1	12	21.57	21.60	21.74	21.64	21.78		0	
	1	24	21.56	21.53	21.58	21.53	21.76		0	
	16QAM	12	0	21.54	21.53	21.77	21.70	21.80	0-1	0
		12	6	21.58	21.56	21.80	21.70	21.77		0
		12	13	21.55	21.59	21.72	21.76	21.85		0
		64QAM	25	0	21.51	21.48	21.78	21.68	21.88	0-1
1			0	21.50	21.47	21.57	21.52	21.74	0	
1			12	21.56	21.54	21.79	21.66	21.80	0	
16QAM			1	24	21.51	21.43	21.71	21.56	21.76	0-2
	12		0	21.57	21.57	21.74	21.66	21.74	0	
	12		6	21.63	21.61	21.73	21.67	21.70	0	
	64QAM		12	13	21.51	21.49	21.72	21.67	21.84	0-2
		25	0	21.53	21.47	21.75	21.65	21.86	0	
		1	0	21.57	21.53	21.69	21.63	21.69	0	
		64QAM	1	12	21.71	21.63	21.72	21.74	21.81	0-2
1			24	21.62	21.51	21.63	21.59	21.71	0	
12			0	21.49	21.44	21.72	21.53	21.66	0-3	
12			6	21.52	21.42	21.73	21.60	21.65		0
12	13		21.44	21.51	21.67	21.62	21.69	0		
25	0		21.49	21.47	21.64	21.53	21.73	0		

FCC ID A3LSMS901JPN	 PCTEST Proud to be part of 	SAR EVALUATION REPORT		Approved by: Quality Manager
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