

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 (Plimit, maximum tune up output power Pmax).

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	22.80	22.82	22.49	0	0
	1	12	22.82	22.84	22.49		0
	1	24	22.66	22.71	22.18		0
	12	0	21.85	21.85	21.53	0-1	1
	12	6	21.73	21.90	21.43		1
	12	13	21.64	21.75	21.24		1
16QAM	25	0	21.74	21.86	21.35	0-1	1
	1	0	22.15	22.18	22.01		1
	1	12	22.19	22.22	21.78		1
	1	24	22.00	22.02	21.60	0-2	1
	12	0	20.89	20.91	20.47		2
	12	6	20.75	20.90	20.46		2
64QAM	12	13	20.75	20.75	20.23	0-2	2
	25	0	20.72	20.84	20.45		2
	1	0	20.86	20.83	21.05		0-2
	1	12	21.01	20.70	20.60	2	
	1	24	20.82	20.68	20.51	0-3	
	12	0	19.98	19.74	19.50		3
12	6	19.81	19.71	19.47	3		
	12	13	19.70	19.53	19.30	0-3	3
	25	0	19.76	19.63	19.43		3






FCC ID A3LSMS908JPN	 <small>Proud to be part of </small>	SAR EVALUATION REPORT		Approved by: Quality Manager
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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	22.45	22.59	22.37	0	0
	1	7	22.40	22.70	22.35		0
	1	14	22.25	22.45	22.21		0
	8	0	21.42	21.65	21.38	0-1	1
	8	4	21.42	21.54	21.41		1
	8	7	21.38	21.45	21.30		1
	15	0	21.45	21.60	21.57	1	
16QAM	1	0	21.65	21.90	21.70	0-1	1
	1	7	21.75	21.98	21.66		1
	1	14	21.65	21.79	21.48		1
	8	0	20.46	20.71	20.51	0-2	2
	8	4	20.46	20.54	20.43		2
	8	7	20.33	20.55	20.37		2
	15	0	20.38	20.59	20.38	2	
64QAM	1	0	20.54	20.82	20.64	0-2	2
	1	7	20.65	20.66	20.57		2
	1	14	20.46	20.81	20.32		2
	8	0	19.50	19.66	19.40	0-3	3
	8	4	19.39	19.56	19.40		3
	8	7	19.33	19.57	19.56		3
	15	0	19.45	19.61	19.35	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	22.83	22.50	22.24	0	0
	1	2	22.85	22.48	22.26		0
	1	5	22.74	22.49	22.09		0
	3	0	22.84	22.57	22.28		0
	3	2	22.84	22.57	22.31		0
	3	3	22.77	22.47	22.31		0
16QAM	6	0	21.81	21.56	21.25	0-1	1
	1	0	22.17	21.89	21.63	0-1	1
	1	2	21.94	21.78	21.60		1
	1	5	22.23	21.87	21.55		1
	3	0	21.94	21.63	21.35		1
	3	2	21.89	21.67	21.43		1
	3	3	21.86	21.73	21.43	1	
64QAM	6	0	20.83	20.63	20.40	0-2	2
	1	0	21.00	20.65	20.55	0-2	2
	1	2	20.96	20.71	20.61		2
	1	5	20.88	20.61	20.39		2
	3	0	20.89	20.60	20.46		2
	3	2	20.79	20.74	20.41		2
	3	3	20.86	20.67	20.35		2
	6	0	19.85	19.53	19.27	0-3	3

FCC ID A3LSMS908JPN	 PCTEST <small>Proud to be part of the harrington group</small>	SAR EVALUATION REPORT		Approved by: Quality Manager
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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	22.63	0	0
	1	12	22.60		0
	1	24	22.51		0
	12	0	21.59	0-1	1
	12	6	21.63		1
	12	13	21.62		1
	25	0	21.58		1
16QAM	1	0	21.72	0-1	1
	1	12	22.00		1
	1	24	21.88		1
	12	0	20.57	0-2	2
	12	6	20.67		2
	12	13	20.70		2
	25	0	20.59		2
64QAM	1	0	20.87	0-2	2
	1	12	20.85		2
	1	24	20.71		2
	12	0	19.62	0-3	3
	12	6	19.64		3
	12	13	19.62		3
	25	0	19.62		3

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F.1.3 LTE Band 5 (Cell)

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	22.62	22.41	22.41	0	0
	1	12	22.71	22.53	22.43		0
	1	24	22.56	22.54	22.28		0
	12	0	21.71	21.48	21.31	0-1	1
	12	6	21.71	21.54	21.44		1
	12	13	21.68	21.57	21.40		1
16QAM	25	0	21.67	21.55	21.28	0-1	1
	1	0	21.87	21.91	21.80		1
	1	12	22.01	22.01	21.78		1
	1	24	21.73	21.81	21.66	0-2	1
	12	0	20.63	20.50	20.37		2
	12	6	20.76	20.52	20.43		2
64QAM	12	13	20.65	20.63	20.37	0-2	2
	25	0	20.69	20.49	20.36		2
	1	0	20.82	20.66	20.62		0-2
	1	12	21.01	20.65	20.62	2	
	1	24	20.72	20.62	20.56	2	
	64QAM	12	0	19.73	19.52	19.44	0-3
12		6	19.78	19.54	19.43	3	
12		13	19.68	19.59	19.42	3	
25		0	19.70	19.50	19.34	0-3	3
							3
							3

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	22.57	22.45	22.29	0	0	
	1	7	22.71	22.69	22.44		0	
	1	14	22.59	22.41	22.25		0	
	8	0	21.70	21.46	21.42	0-1	1	
	8	4	21.74	21.62	21.46		1	
	8	7	21.66	21.51	21.46		1	
16QAM	15	0	21.69	21.43	21.46	0-1	1	
	1	0	21.86	21.78	21.63		0-1	1
	1	7	22.01	21.83	21.67			1
	1	14	21.94	21.74	21.48	0-2		1
	8	0	20.79	20.54	20.50		2	
	8	4	20.76	20.65	20.55		2	
64QAM	8	7	20.64	20.69	20.58	0-2	2	
	15	0	20.72	20.52	20.46		2	
	1	0	20.63	20.60	20.39		0-2	2
	1	7	20.89	20.71	20.60	2		
	1	14	20.73	20.59	20.38	2		
	64QAM	8	0	19.72	19.49	19.47	0-3	3
8		4	19.77	19.68	19.48	3		
8		7	19.74	19.65	19.45	3		
15		0	19.73	19.47	19.46	0-3	3	
							3	
							3	




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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	22.56	22.48	22.26	0	0
	1	2	22.64	22.42	22.36		0
	1	5	22.56	22.39	22.33		0
	3	0	22.70	22.52	22.40		0
	3	2	22.65	22.52	22.33		0
	3	3	22.61	22.59	22.34		0
16QAM	6	0	21.65	21.55	21.41	0-1	1
	1	0	21.92	21.90	21.68	0-1	1
	1	2	21.95	22.30	22.01		1
	1	5	21.94	21.67	21.68		1
	3	0	21.78	21.63	21.55		1
	3	2	21.86	21.73	21.52		1
3	3	21.78	21.53	21.48	1		
64QAM	6	0	20.70	20.57	20.48	0-2	2
	1	0	20.75	20.73	20.55	0-2	2
	1	2	20.94	20.73	20.51		2
	1	5	20.80	20.73	20.58		2
	3	0	20.75	20.53	20.20		2
	3	2	20.76	20.64	20.47		2
3	3	20.81	20.60	20.58	2		
	6	0	19.68	19.57	19.41	0-3	3

F.1.4 LTE Band 4 (AWS)

Table F-8
LTE Band 4 (AWS) Measured P_{Max} – 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	22.24	22.23	22.05	0	0	
	1	36	22.61	22.37	22.43		0	
	1	74	22.41	22.28	22.20		0	
	16QAM	36	0	21.30	21.12	21.16	0-1	1
		36	18	21.44	21.35	21.38		1
		36	37	21.36	21.30	21.41		1
75		0	21.33	21.34	21.33	1		
64QAM	1	0	21.31	21.46	21.13	0-1	1	
	1	36	21.72	21.64	21.64		1	
	1	74	21.45	21.47	21.35		1	
	16QAM	36	0	20.31	20.27	20.21	0-2	2
		36	18	20.40	20.39	20.39		2
		36	37	20.39	20.37	20.36		2
75		0	20.28	20.27	20.27	2		
75		0	20.28	20.27	20.27	2		
64QAM	1	0	20.42	20.29	20.34	0-2	2	
	1	36	20.78	20.48	20.58		2	
	1	74	20.30	20.39	20.55		2	
	16QAM	36	0	19.37	19.18	19.10	0-3	3
		36	18	19.41	19.31	19.37		3
		36	37	19.45	19.31	19.46		3
	75	0	19.25	19.24	19.33		3	



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Table F-9
LTE Band 4 (AWS) Measured P_{Max} – 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	22.23	22.05	22.15	0	0	
	1	25	22.54	22.47	22.42		0	
	1	49	22.25	22.08	22.22		0	
	25	0	21.51	21.29	21.40	0-1	1	
	25	12	21.55	21.49	21.50		1	
	25	25	21.41	21.36	21.38		1	
16QAM	50	0	21.44	21.42	21.36	0-1	1	
	1	0	21.59	21.52	21.40		0-1	1
	1	25	21.92	21.66	21.85			1
	1	49	21.64	21.53	21.46	0-2		1
	25	0	20.47	20.30	20.34		2	
	25	12	20.66	20.54	20.43		2	
64QAM	25	25	20.36	20.38	20.37	0-2	2	
	50	0	20.42	20.35	20.39		2	
	1	0	20.49	20.17	20.38		0-2	2
	1	25	20.81	20.70	20.75	0-3		2
	1	49	20.39	20.20	20.36			2
	25	0	19.47	19.30	19.38		0-3	3
	25	12	19.49	19.49	19.48	3		
	25	25	19.35	19.35	19.39	3		
	50	0	19.37	19.35	19.40		3	

Table F-10
LTE Band 4 (AWS) Measured P_{Max} – 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	22.48	22.37	22.26	0	0	
	1	12	22.68	22.39	22.53		0	
	1	24	22.41	22.28	22.31		0	
	12	0	21.66	21.37	21.45	0-1	1	
	12	6	21.60	21.46	21.49		1	
	12	13	21.45	21.39	21.42		1	
16QAM	25	0	21.50	21.39	21.40	0-1	1	
	1	0	21.80	21.62	21.50		0-1	1
	1	12	22.09	21.71	21.81			1
	1	24	21.90	21.60	21.67	0-2		1
	12	0	20.73	20.43	20.40		2	
	12	6	20.69	20.48	20.51		2	
64QAM	12	13	20.51	20.54	20.45	0-2	2	
	25	0	20.47	20.43	20.37		2	
	1	0	20.82	20.52	20.60		0-2	2
	1	12	20.81	20.74	20.70	0-3		2
	1	24	20.57	20.59	20.62			2
	12	0	19.51	19.44	19.44		0-3	3
	12	6	19.54	19.51	19.58	3		
	12	13	19.45	19.41	19.42	3		
	25	0	19.45	19.36	19.40		3	



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Table F-11
LTE Band 4 (AWS) Measured P_{Max} – 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	22.53	22.47	22.31	0	0	
	1	7	22.59	22.43	22.51		0	
	1	14	22.35	22.33	22.34		0	
	8	0	21.63	21.42	21.44	0-1	1	
	8	4	21.68	21.47	21.41		1	
	8	7	21.44	21.38	21.39		1	
16QAM	15	0	21.59	21.48	21.49	0-1	1	
	1	0	21.70	21.60	21.52		1	
	1	7	22.10	21.70	21.81		1	
	1	14	21.80	21.70	21.56	0-2	1	
	8	0	20.70	20.56	20.46		2	
	8	4	20.61	20.40	20.56		2	
64QAM	8	7	20.61	20.40	20.49	0-2	2	
	15	0	20.62	20.40	20.41		2	
	1	0	20.84	20.63	20.56		0-2	2
	1	7	20.93	20.61	20.60	2		
	1	14	20.62	20.49	20.58	2		
	64QAM	8	0	19.72	19.54	19.46	0-3	3
		8	4	19.56	19.43	19.39		3
		8	7	19.56	19.42	19.44		3
15		0	19.61	19.42	19.44	3		

Table F-12
LTE Band 4 (AWS) Measured P_{Max} – 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	22.60	22.64	22.50	0	0	
	1	2	22.57	22.69	22.70		0	
	1	5	22.50	22.55	22.67		0	
	3	0	22.56	22.64	22.64	0-1	0	
	3	2	22.57	22.58	22.71		0	
	3	3	22.61	22.53	22.70		0	
16QAM	6	0	21.59	21.63	21.63	0-1	1	
	1	0	21.70	21.84	21.56		0-1	1
	1	2	21.95	21.98	22.11			1
	1	5	21.88	21.85	21.79	0-1		1
	3	0	21.70	21.67	21.78		1	
	3	2	21.70	21.72	21.78		1	
64QAM	3	3	21.75	21.65	21.69	0-2	1	
	6	0	20.61	20.64	20.69		2	
	1	0	20.90	20.62	20.81		0-2	2
	1	2	21.03	21.04	20.92	2		
	1	5	20.69	20.77	20.82	2		
	64QAM	3	0	20.88	20.67	20.73	0-2	2
3		2	20.92	20.67	20.69	2		
3		3	20.82	20.65	20.74	2		
6		0	19.74	19.63	19.67	0-3	3	



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Table F-13

LTE Band 4 (AWS) Measured P_{Limit} for DSI = 1 (Phablet with grip sensor active), or DSI = 3 (Hotspot Mode) 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	18.68	18.60	18.43	0	0
	1	36	18.88	18.93	18.95		0
	1	74	18.89	18.76	18.67		0
	36	0	18.79	18.65	18.66	0-1	0
	36	18	18.88	18.80	18.90		0
	36	37	18.84	18.82	18.81		0
	75	0	18.76	18.78	18.76		0
16QAM	1	0	18.81	18.99	18.90	0-1	0
	1	36	19.05	19.06	19.00		0
	1	74	19.07	18.99	18.78		0
	36	0	18.79	18.63	18.56	0-2	0
	36	18	18.93	18.87	18.85		0
	36	37	18.87	18.78	18.97		0
	75	0	18.72	18.76	18.75		0
64QAM	1	0	18.60	18.70	18.63	0-2	0
	1	36	19.03	18.90	18.92		0
	1	74	18.85	18.74	18.47		0
	36	0	18.73	18.67	18.59	0-3	0
	36	18	18.92	18.87	18.77		0
	36	37	18.82	18.84	18.88		0
	75	0	18.73	18.63	18.79		0

Table F-14

LTE Band 4 (AWS) Measured P_{Limit} for DSI = 1 (Phablet with grip sensor active), or DSI = 3 (Hotspot Mode) 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	18.67	18.54	18.54	0	0
	1	25	18.99	18.93	18.85		0
	1	49	18.81	18.43	18.57		0
	25	0	18.91	18.86	18.84	0-1	0
	25	12	19.02	18.97	18.96		0
	25	25	18.94	18.81	18.87		0
	50	0	18.90	18.80	18.83		0
16QAM	1	0	19.05	19.04	18.94	0-1	0
	1	25	19.00	19.05	19.05		0
	1	49	19.05	19.06	18.91		0
	25	0	18.95	18.88	18.87	0-2	0
	25	12	18.96	18.97	18.99		0
	25	25	18.83	18.90	18.99		0
	50	0	18.96	18.85	18.93		0
64QAM	1	0	18.73	18.64	18.66	0-2	0
	1	25	18.91	19.03	18.86		0
	1	49	18.87	18.84	18.97		0
	25	0	18.97	18.85	18.89	0-3	0
	25	12	19.01	18.96	18.97		0
	25	25	18.91	18.87	18.94		0
	50	0	18.81	18.83	18.93		0




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Table F-15
LTE Band 4 (AWS) Measured P_{Limit} for DSI = 1 (Phablet with grip sensor active), or DSI = 3 (Hotspot Mode)
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	18.99	18.80	18.93	0	0
	1	12	19.00	18.92	19.05		0
	1	24	18.83	18.75	18.87		0
	12	0	19.03	18.90	18.93	0-1	0
	12	6	19.02	18.91	18.99		0
	12	13	18.94	18.90	18.99		0
	25	0	18.97	18.89	18.88		0
16QAM	1	0	19.07	19.06	19.07	0-1	0
	1	12	19.06	19.07	19.06		0
	1	24	19.07	19.06	19.07		0
	12	0	18.95	18.90	18.92	0-2	0
	12	6	19.08	19.00	19.06		0
	12	13	19.02	19.00	18.98		0
	25	0	18.95	19.00	18.94		0
64QAM	1	0	18.72	18.74	18.71	0-2	0
	1	12	19.07	18.90	18.90		0
	1	24	18.91	18.78	18.84		0
	12	0	18.90	18.92	18.86	0-3	0
	12	6	19.01	19.10	19.09		0
	12	13	19.00	18.93	19.03		0
	25	0	19.00	18.92	18.90		0

Table F-16
LTE Band 4 (AWS) Measured P_{Limit} for DSI = 1 (Phablet with grip sensor active), or DSI = 3 (Hotspot Mode)
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	18.84	18.80	18.93	0	0
	1	7	19.03	18.85	18.99		0
	1	14	18.86	18.70	18.85		0
	8	0	19.04	18.90	18.99	0-1	0
	8	4	19.10	18.92	18.98		0
	8	7	19.14	18.89	18.94		0
	15	0	19.04	18.88	18.90		0
16QAM	1	0	19.07	19.06	19.07	0-1	0
	1	7	19.06	19.07	19.06		0
	1	14	19.07	19.06	19.07		0
	8	0	18.98	18.99	18.97	0-2	0
	8	4	19.10	19.01	19.03		0
	8	7	19.04	18.95	19.04		0
	15	0	18.97	18.90	18.90		0
64QAM	1	0	18.72	18.76	18.74	0-2	0
	1	7	19.06	19.07	19.06		0
	1	14	19.07	18.76	18.77		0
	8	0	18.89	18.85	18.84	0-3	0
	8	4	19.03	18.99	19.07		0
	8	7	18.93	18.97	18.99		0
	15	0	19.01	18.94	18.99		0




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Table F-17

LTE Band 4 (AWS) Measured P_{Limit} for DSI = 1 (Phablet with grip sensor active), or DSI = 3 (Hotspot Mode) 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	19.06	18.78	18.86	0	0
	1	2	19.06	18.95	19.02		0
	1	5	18.86	18.89	18.92		0
	3	0	19.01	18.86	18.94		0
	3	2	18.98	18.91	18.90		0
	3	3	18.98	18.75	19.06		0
	6	0	19.10	18.90	18.96	0-1	0
16QAM	1	0	19.07	19.06	19.07	0-1	0
	1	2	19.06	19.07	19.06		0
	1	5	19.07	19.06	19.07		0
	3	0	19.14	18.93	19.03		0
	3	2	19.25	19.08	19.05		0
	3	3	19.16	19.01	19.15		0
	6	0	19.04	18.94	18.96	0-2	0
64QAM	1	0	19.07	18.66	19.07	0-2	0
	1	2	19.06	19.07	19.06		0
	1	5	19.07	18.96	18.97		0
	3	0	19.14	18.89	19.06		0
	3	2	19.18	19.02	19.15		0
	3	3	19.24	19.06	19.11		0
	6	0	19.09	18.85	18.97	0-3	0

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Table F-18

LTE Band 41 Measured P_{Max} – 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	23.46	23.44	23.69	23.84	23.54	0	0	
	1	36	23.55	23.64	23.94	23.96	23.84		0	
	1	74	23.63	23.47	23.84	23.69	23.85		0	
		36	0	22.59	22.54	22.89	22.96	22.87	0-1	1
		36	18	22.65	22.75	22.96	23.05	22.96		1
		36	37	22.64	22.73	23.03	22.93	22.92		1
	75	0	22.60	22.72	22.94	22.94	22.88	1		
16QAM	1	0	22.55	22.19	22.77	22.79	22.71	0-1	1	
	1	36	22.53	22.78	23.06	23.10	22.85		1	
	1	74	22.63	22.54	22.79	22.70	23.09		1	
		36	0	21.52	21.62	21.88	21.97	21.85	0-2	2
		36	18	21.62	21.77	21.95	22.05	21.91		2
		36	37	21.61	21.73	22.06	21.97	21.97		2
	75	0	21.56	21.74	21.89	21.99	21.90	2		
64QAM	1	0	21.39	21.51	21.77	21.75	21.59	0-2	2	
	1	36	21.55	21.66	22.15	22.05	22.06		2	
	1	74	21.43	21.58	21.89	21.63	21.89		2	
		36	0	20.52	20.56	20.84	21.03	20.82	0-3	3
		36	18	20.57	20.75	20.98	21.10	20.94		3
		36	37	20.65	20.74	21.07	20.98	20.96		3
	75	0	20.42	20.73	20.83	20.96	20.89	3		




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Table F-19
LTE Band 41 Measured P_{Max} – 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	23.81	23.54	23.87	23.77	23.70	0	0
	1	25	23.84	23.87	24.23	24.09	24.03		0
	1	49	23.78	23.59	23.94	23.73	23.72		0
	25	0	22.72	22.85	23.04	23.14	23.06	0-1	1
	25	12	22.79	23.01	23.12	23.23	23.14		1
	25	25	22.78	22.89	23.13	23.10	23.03		1
16QAM	50	0	22.70	22.93	23.06	23.11	23.06	0-1	1
	1	0	22.78	22.77	22.81	22.91	22.70		1
	1	25	22.82	22.95	23.22	23.05	22.87		1
	1	49	22.80	22.61	22.92	22.75	22.84	0-2	1
	25	0	21.78	21.90	22.15	22.14	22.08		2
	25	12	21.75	21.91	22.09	22.25	22.15		2
64QAM	25	25	21.73	21.89	22.13	22.13	22.00	0-2	2
	50	0	21.68	21.97	22.03	22.14	21.97		2
	1	0	21.49	21.64	21.74	21.77	21.65		0-2
	1	25	21.65	22.09	22.11	22.22	22.02	2	
	1	49	21.76	21.53	21.95	21.90	21.76	2	
	64QAM	25	0	20.76	20.83	21.08	21.13	21.05	0-3
25		12	20.77	20.99	21.11	21.23	20.99	3	
25		25	20.75	20.93	21.11	21.07	21.02	3	
50		0	20.42	20.90	21.03	20.96	21.06	3	

Table F-20
LTE Band 41 Measured P_{Max} – 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	23.81	23.90	23.90	23.94	23.78	0	0
	1	12	23.86	23.96	24.12	24.30	24.20		0
	1	24	23.72	23.96	23.97	23.73	24.11		0
	12	0	22.75	22.99	23.10	23.20	23.13	0-1	1
	12	6	22.82	23.08	23.16	23.23	23.15		1
	12	13	22.76	23.00	23.22	23.14	23.13		1
16QAM	25	0	22.78	23.01	23.15	23.17	23.14	0-1	1
	1	0	22.69	22.79	22.93	22.91	22.82		1
	1	12	22.82	23.02	23.22	23.23	22.87		1
	1	24	22.85	22.81	22.92	22.75	23.08	0-2	1
	12	0	21.70	21.99	22.16	22.09	22.15		2
	12	6	21.84	22.09	22.20	22.28	22.13		2
64QAM	12	13	21.79	22.03	22.17	22.13	22.05	0-2	2
	25	0	21.77	21.97	22.08	22.19	22.14		2
	1	0	21.80	21.72	22.01	22.03	21.65		0-2
	1	12	21.70	22.00	22.21	22.20	21.93	2	
	1	24	21.70	21.86	21.90	21.96	21.89	2	
	64QAM	12	0	20.81	20.93	21.17	21.13	21.11	0-3
12		6	20.69	20.98	21.21	21.28	21.15	3	
12		13	20.81	20.94	21.15	21.07	21.18	3	
25		0	20.42	20.98	21.09	20.96	21.17	3	




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Table F-21
LTE Band 41 Measured P_{Limit} for DSI = 1 (Phablet with grip sensor active), or DSI = 3 (Hotspot Mode)
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	19.59	19.59	19.81	19.93	19.67	0	0	
	1	36	19.64	19.76	20.15	20.12	20.03		0	
	1	74	19.63	19.64	19.94	19.85	19.94		0	
	16QAM	36	0	19.73	19.75	20.02	20.08	19.99	0-1	0
		36	18	19.71	19.93	20.08	20.18	20.09		0
		36	37	19.78	19.86	20.15	20.16	20.12		0
		64QAM	75	0	19.76	19.83	20.04	20.15	20.04	0-1
1			0	19.68	19.67	19.91	20.11	19.68	0	
1			36	19.81	20.12	20.20	20.27	20.11	0	
16QAM	1		74	19.74	19.65	20.05	19.65	20.14	0-2	0
	36		0	19.69	19.80	19.99	20.14	20.01		0
	36		18	19.76	19.92	20.11	20.20	20.02		0
	64QAM		36	37	19.80	19.84	20.21	20.15	20.15	0-2
		75	0	19.78	19.87	20.05	20.14	20.08	0	
		1	0	19.70	19.55	19.82	20.04	19.72	0-3	
1		36	19.75	19.85	20.07	20.06	20.03	0		
1		74	19.78	19.70	20.02	19.92	19.96	0		
36		0	19.68	19.81	20.01	20.17	19.96	0		
64QAM		36	18	19.75	19.95	20.12	20.21	20.08	0-3	0
	36	37	19.73	19.86	20.19	20.17	20.12	0		
	75	0	19.80	19.87	20.04	20.12	20.06	0		

Table F-22
LTE Band 41 Measured P_{Limit} for DSI = 1 (Phablet with grip sensor active), or DSI = 3 (Hotspot Mode)
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	19.47	19.81	19.88	19.67	19.67	0	0	
	1	25	19.81	20.10	20.13	19.95	19.95		0	
	1	49	19.53	19.86	19.83	19.79	19.79		0	
	16QAM	25	0	19.81	19.97	19.88	19.93	19.93	0-1	0
		25	12	19.94	20.04	20.14	20.04	20.04		0
		25	25	19.81	20.02	20.01	19.94	19.94		0
		64QAM	50	0	19.85	19.96	20.06	19.96	19.96	0-1
1			0	19.62	19.62	19.90	19.56	19.56	0	
1			25	19.91	20.20	20.17	20.00	20.00	0	
16QAM	1		49	19.67	19.94	19.45	19.65	19.84	0-2	0
	25		0	19.87	19.97	20.06	19.96	19.96		0
	25		12	19.97	20.03	20.20	20.04	20.04		0
	64QAM		25	25	19.83	20.00	20.05	19.96	19.96	0-2
		50	0	19.86	19.96	20.06	19.98	19.98	0	
		1	0	19.48	19.72	19.77	19.67	19.74	0-3	
1		25	19.94	20.08	20.15	20.11	20.11	0		
1		49	19.59	19.77	19.75	19.87	19.87	0		
25		0	19.77	19.96	20.04	19.93	19.93	0		
64QAM		25	12	19.90	20.04	20.18	20.05	20.05	0-3	0
	25	25	19.80	20.03	20.02	19.93	19.93	0		
	50	0	19.84	20.00	20.05	19.94	19.94	0		






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Table F-23
LTE Band 41 Measured P_{Limit} for DSI = 1 (Phablet with grip sensor active), or DSI = 3 (Hotspot Mode)
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	19.85	19.91	20.02	20.08	19.92	0	0	
	1	12	19.92	20.01	20.40	20.21	20.35		0	
	1	24	19.84	19.96	20.06	20.09	20.20		0	
	16QAM	12	0	19.89	20.04	20.19	20.08	20.20	0-1	0
		12	6	19.90	20.18	20.23	20.36	20.25		0
		12	13	19.85	20.09	20.28	20.27	20.17	0	
		25	0	19.84	20.07	20.20	20.30	20.20	0	
1		0	19.58	20.26	20.08	20.14	19.90	0-1	0	
1	12	19.98	20.13	20.36	20.37	20.30	0			
64QAM	1	24	19.89	19.97	20.14	19.65	20.22	0-2	0	
	12	0	19.87	20.06	20.20	20.40	20.19		0	
	12	6	19.85	20.12	20.35	20.27	20.23		0	
	12	13	19.88	20.15	20.27	20.22	20.22	0		
	25	0	19.91	20.06	20.22	20.31	20.16	0		
64QAM	1	0	19.79	19.93	20.19	20.19	19.45	0-2	0	
	1	12	19.96	20.10	20.13	20.24	20.27		0	
	1	24	19.77	19.87	20.11	19.95	20.12		0	
	12	0	19.84	20.09	20.21	20.24	20.23	0-3	0	
	12	6	19.82	20.14	20.27	20.36	20.13		0	
	12	13	19.82	20.04	20.37	20.31	20.26		0	
	25	0	19.90	20.08	20.21	20.26	20.18		0	

FCC ID A3LSMS908JPN	 PCTEST <small>Proud to be part of  element</small>	SAR EVALUATION REPORT		Approved by: Quality Manager
Test Dates: 12/21/21 – 01/17/22	DUT Type: Portable Handset	APPENDIX F: Page 13 of 13		