

APPENDIX G: NR LOWER BANDWIDTH RF CONDUCTED POWERS

FCC ID: BCGA2589	SAR EVALUATION REPORT	Approved by: Technical Manager
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All conducted power measurements for 5G Sub6 WWAN technologies and bands in this section were performed by setting Reserve_power_margin (Qualcomm® Smart Transmit EFS entry) to 0dB, so that the EUT transmits continuously at minimum (P_{limit}, maximum tune up output power P_{max}).

G.1 NR Conducted Powers

Note: Some bands do not support non-overlapping channels. Per FCC Guidance, 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.

See the original filling for all NR lower bandwidth RF conducted powers for bands that were not evaluated for this permissive change.

G.1.1 NR Band n48

Table G-1
NR Band n48 Measured P_{limit} Antenna 1b - 20 MHz

NR Band n48 20 MHz Bandwidth								
Modulation	RB Size	RB Offset	Channel				MPR Allowed per 3GPP [dB]	MPR [dB]
			637334 (3560.01 MHz)	640222 (3603.33 MHz)	643112 (3646.68 MHz)	646000 (3690 MHz)		
			Conducted Power [dBm]					
DFT-s-OFDM $\pi/2$ BPSK	1	1	12.35	13.25	13.15	12.97	0	0.0
	1	26	12.39	13.08	13.04	12.94		0.0
	1	49	12.50	13.03	13.09	12.92		0.0
	25	0	12.33	13.25	13.12	12.98	0-0.5	0.0
	25	13	12.34	13.12	13.08	12.93	0	0.0
	25	26	12.40	13.04	13.14	12.89	0-0.5	0.0
50	0	12.34	13.16	13.08	12.95	0.0		
DFT-s-OFDM QPSK	1	1	12.32	13.29	12.99	12.95	0	0.0
	1	26	12.30	13.04	13.06	12.84		0.0
	1	49	12.43	12.95	12.97	12.98		0.0
	25	0	12.33	13.26	13.07	12.92	0-1	0.0
	25	13	12.32	13.15	13.10	12.90	0	0.0
	25	26	12.43	13.06	13.09	12.92	0-1	0.0
50	0	12.37	13.18	13.12	12.90	0.0		
DFT-s-OFDM 16QAM	1	1	12.38	13.27	13.13	13.00	0-1	0.0
CP-OFDM QPSK	1	1	12.40	13.28	13.09	13.09	0-1.5	0.0

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Table G-2
NR Band n48 Measured P_{limit} Antenna 1b - 10 MHz

NR Band n48 10 MHz Bandwidth								
Modulation	RB Size	RB Offset	Channel				MPR Allowed per 3GPP [dB]	MPR [dB]
			637000 (3555 MHz)	640112 (3601.68 MHz)	643222 (3648.33 MHz)	646332 (3694.98 MHz)		
			Conducted Power [dBm]					
DFT-s-OFDM $\pi/2$ BPSK	1	1	12.33	13.22	13.26	13.17	0	0.0
	1	12	12.37	13.24	13.16	12.94		0.0
	1	22	12.50	13.15	13.21	12.95		0.0
	12	0	12.32	13.21	13.10	12.96	0-0.5	0.0
	12	6	12.28	13.18	13.12	12.92	0	0.0
	12	12	12.39	13.13	13.05	12.90	0-0.5	0.0
	24	0	12.33	13.16	13.10	12.95		0.0
DFT-s-OFDM QPSK	1	1	12.28	13.10	13.16	13.10	0	0.0
	1	12	12.30	13.06	13.13	13.08		0.0
	1	22	12.42	13.05	13.15	12.94		0.0
	12	0	12.27	13.07	13.12	12.93	0-1	0.0
	12	6	12.30	12.96	13.06	12.90	0	0.0
	12	12	12.35	12.95	13.13	12.95	0-1	0.0
	24	0	12.25	13.05	13.08	12.90		0.0
DFT-s-OFDM 16QAM	1	1	12.21	13.30	13.18	12.95	0-1	0.0
CP-OFDM QPSK	1	1	12.40	13.09	13.06	13.05	0-1.5	0.0

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**Table G-3
NR Band n48 Measured P_{limit} Antenna 2b - 20 MHz**

NR Band n48 20 MHz Bandwidth								
Modulation	RB Size	RB Offset	Channel				MPR Allowed per 3GPP [dB]	MPR [dB]
			637334 (3560.01 MHz)	640222 (3603.33 MHz)	643112 (3646.68 MHz)	646000 (3690 MHz)		
			Conducted Power [dBm]					
DFT-s-OFDM $\pi/2$ BPSK	1	1	12.66	12.43	12.44	12.48	0	0.0
	1	26	12.71	12.39	12.32	12.59		0.0
	1	49	12.86	12.42	12.41	12.71		0.0
	25	0	12.59	12.36	12.32	12.55	0-0.5	0.0
	25	13	12.68	12.34	12.30	12.60	0	0.0
	25	26	12.74	12.31	12.31	12.58	0-0.5	0.0
	50	0	12.71	12.35	12.36	12.59		0.0
DFT-s-OFDM QPSK	1	1	12.65	12.33	12.31	12.48	0	0.0
	1	26	12.67	12.38	12.31	12.57		0.0
	1	49	12.72	12.37	12.32	12.60		0.0
	25	0	12.65	12.34	12.36	12.48	0-1	0.0
	25	13	12.67	12.35	12.34	12.56	0	0.0
	25	26	12.75	12.30	12.35	12.60	0-1	0.0
	50	0	12.72	12.37	12.32	12.65		0.0
DFT-s-OFDM 16QAM	1	1	12.73	12.50	12.46	12.57	0-1	0.0
CP-OFDM QPSK	1	1	12.61	12.42	12.30	12.46	0-1.5	0.0

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Table G-4
NR Band n48 Measured P_{limit} Antenna 2b - 10 MHz

NR Band n48 10 MHz Bandwidth									
Modulation	RB Size	RB Offset	Channel				MPR Allowed per 3GPP [dB]	MPR [dB]	
			637000 (3555 MHz)	640112 (3601.68 MHz)	643222 (3648.33 MHz)	646332 (3694.98 MHz)			
			Conducted Power [dBm]						
DFT-s-OFDM $\pi/2$ BPSK	1	1	12.93	12.55	12.67	12.82	0	0.0	
	1	12	12.88	12.48	12.50	12.81		0.0	
	1	22	12.92	12.59	12.64	12.86		0.0	
		12	0	12.81	12.51	12.56	12.80	0-0.5	0.0
		12	6	12.83	12.46	12.57	12.76	0	0.0
		12	12	12.85	12.38	12.63	12.84	0-0.5	0.0
		24	0	12.82	12.47	12.51	12.74		0.0
DFT-s-OFDM QPSK	1	1	12.76	12.59	12.53	12.91	0	0.0	
	1	12	12.78	12.47	12.59	12.83		0.0	
	1	22	12.85	12.55	12.54	12.88		0.0	
		12	0	12.72	12.49	12.57	12.78	0-1	0.0
		12	6	12.78	12.51	12.49	12.80	0	0.0
		12	12	12.83	12.50	12.54	12.85	0-1	0.0
		24	0	12.80	12.53	12.59	12.83		0.0
DFT-s-OFDM 16QAM	1	1	12.91	12.75	12.64	12.92	0-1	0.0	
CP-OFDM QPSK	1	1	12.76	12.42	12.34	12.77	0-1.5	0.0	

Table G-5
NR Band n48 Measured P_{limit} Antenna 3b - 20 MHz

NR Band n48 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Channel				MPR Allowed per 3GPP [dB]	MPR [dB]	
			637334 (3560.01 MHz)	640222 (3603.33 MHz)	643112 (3646.68 MHz)	646000 (3690 MHz)			
			Conducted Power [dBm]						
DFT-s-OFDM $\pi/2$ BPSK	1	1	14.17	15.30	14.99	14.95	0	0.0	
	1	26	14.09	15.08	14.94	14.83		0.0	
	1	49	14.26	15.03	14.98	14.94		0.0	
		25	0	14.18	15.29	14.91	14.96	0-0.5	0.0
		25	13	14.23	15.16	14.90	14.92	0	0.0
		25	26	14.25	15.00	14.87	14.94	0-0.5	0.0
		50	0	14.20	15.12	14.92	14.93		0.0
DFT-s-OFDM QPSK	1	1	14.18	15.35	15.03	14.86	0	0.0	
	1	26	14.17	15.05	14.82	14.80		0.0	
	1	49	14.22	15.08	14.78	14.74		0.0	
		25	0	14.25	15.25	14.91	14.89	0-1	0.0
		25	13	14.23	15.14	14.93	14.85	0	0.0
		25	26	14.27	15.07	14.88	14.87	0-1	0.0
		50	0	14.19	15.10	14.90	14.85		0.0
DFT-s-OFDM 16QAM	1	1	14.16	14.98	14.73	14.70	0-1	0.0	
CP-OFDM QPSK	1	1	14.24	15.10	15.07	14.94	0-1.5	0.0	

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Table G-6
NR Band n48 Measured P_{limit} Antenna 3b - 10 MHz

NR Band n48 10 MHz Bandwidth								
Modulation	RB Size	RB Offset	Channel				MPR Allowed per 3GPP [dB]	MPR [dB]
			637000 (3555 MHz)	640112 (3601.68 MHz)	643222 (3648.33 MHz)	646332 (3694.98 MHz)		
			Conducted Power [dBm]					
DFT-s-OFDM $\pi/2$ BPSK	1	1	14.07	14.95	14.58	14.88	0	0.0
	1	12	14.08	14.83	14.56	14.71		0.0
	1	22	14.18	14.92	14.71	14.78		0.0
	12	0	14.02	14.84	14.68	14.65	0-0.5	0.0
	12	6	14.06	14.81	14.58	14.71	0	0.0
	12	12	14.05	14.78	14.65	14.73	0-0.5	0.0
24	0	14.01	14.83	14.59	14.69	0.0		
DFT-s-OFDM QPSK	1	1	14.09	14.90	14.70	14.78	0	0.0
	1	12	14.17	14.80	14.66	14.66		0.0
	1	22	14.22	14.78	14.67	14.76		0.0
	12	0	14.11	14.88	14.58	14.71	0-1	0.0
	12	6	14.13	14.75	14.62	14.66	0	0.0
	12	12	14.27	14.79	14.63	14.68	0-1	0.0
24	0	14.17	14.76	14.67	14.71	0.0		
DFT-s-OFDM 16QAM	1	1	14.10	14.91	14.58	14.58	0-1	0.0
CP-OFDM QPSK	1	1	14.20	14.93	14.73	14.75	0-1.5	0.0

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Table G-7
NR Band n48 Measured P_{limit} Antenna 4 - 20 MHz

NR Band n48 20 MHz Bandwidth								
Modulation	RB Size	RB Offset	Channel				MPR Allowed per 3GPP [dB]	MPR [dB]
			637334 (3560.01 MHz)	640222 (3603.33 MHz)	643112 (3646.68 MHz)	646000 (3690 MHz)		
			Conducted Power [dBm]					
DFT-s-OFDM $\pi/2$ BPSK	1	1	12.31	12.21	12.10	11.90	0	0.0
	1	26	12.32	12.17	12.11	11.92		0.0
	1	49	12.33	12.28	12.02	12.08		0.0
	25	0	12.28	11.89	12.14	11.88	0-0.5	0.0
	25	13	12.32	12.21	12.15	11.95	0	0.0
	25	26	12.37	11.88	12.18	11.99	0-0.5	0.0
	50	0	12.35	11.90	12.02	11.89		0.0
DFT-s-OFDM QPSK	1	1	12.36	12.28	12.11	12.04	0	0.0
	1	26	12.34	12.22	12.20	11.89		0.0
	1	49	12.51	12.21	12.12	12.03		0.0
	25	0	12.43	12.18	12.13	12.02	0-1	0.0
	25	13	12.32	12.15	12.15	11.89	0	0.0
	25	26	12.31	12.08	12.15	12.02	0-1	0.0
	50	0	12.34	12.18	12.19	11.89		0.0
DFT-s-OFDM 16QAM	1	1	12.06	11.89	11.86	11.64	0-1	0.0
CP-OFDM QPSK	1	1	12.31	11.90	12.06	11.98	0-1.5	0.0

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Table G-8
NR Band n48 Measured P_{limit} Antenna 4 - 10 MHz

NR Band n48 10 MHz Bandwidth								
Modulation	RB Size	RB Offset	Channel				MPR Allowed per 3GPP [dB]	MPR [dB]
			637000 (3555 MHz)	640112 (3601.68 MHz)	643222 (3648.33 MHz)	646332 (3694.98 MHz)		
			Conducted Power [dBm]					
DFT-s-OFDM $\pi/2$ BPSK	1	1	12.38	12.40	12.30	12.33	0	0.0
	1	12	12.25	12.35	12.33	12.50		0.0
	1	22	12.28	12.32	12.38	12.48		0.0
	12	0	12.32	12.33	12.22	12.40	0-0.5	0.0
	12	6	12.31	12.28	12.35	12.46	0	0.0
	12	12	12.33	12.35	12.38	12.56	0-0.5	0.0
	24	0	12.31	12.37	12.30	12.50		0.0
DFT-s-OFDM QPSK	1	1	12.41	12.00	12.36	12.49	0	0.0
	1	12	12.31	12.34	12.32	12.45		0.0
	1	22	12.38	12.05	12.45	12.39		0.0
	12	0	12.30	12.31	12.41	12.52	0-1	0.0
	12	6	12.35	12.39	12.23	12.36	0	0.0
	12	12	12.38	12.37	12.28	12.45	0-1	0.0
	24	0	12.33	12.34	12.35	12.30		0.0
DFT-s-OFDM 16QAM	1	1	12.56	12.35	12.35	12.38	0-1	0.0
CP-OFDM QPSK	1	1	12.44	12.03	12.22	12.46	0-1.5	0.0

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