

APPENDIX G: NR LOWER BANDWIDTH RF CONDUCTED POWERS

FCC ID: BCGA2764	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 0 dB, so that the EUT transmits continuously at minimum (Plimit, limitimum tune up output power Plimit).

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 NR Lower Bandwidth RF Conducted Powers

G.1.1 NR Band n48

Table G-1
NR Band n48 Measured P_{Limit} Antenna 1 - 30 MHz Bandwidth

NR Band n48 30 MHz Bandwidth								
			Channel				MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	637668 (3565.02 MHz)	640334 (3605.01 MHz)	643000 (3645 MHz)	645666 (3684.99 MHz)		
			Conducted Power [dBm]					
DFT-s-OFDM $\pi/2$ BPSK	1	1	11.44	11.35	11.41	11.42	0	0.0
	1	39	11.49	11.33	11.40	11.53		0.0
	1	76	11.50	11.29	11.37	11.48		0.0
	36	0	11.52	11.39	11.38	11.47	0-0.5	0.0
	36	21	11.47	11.22	11.41	11.44	0	0.0
	36	42	11.55	11.21	11.22	11.32	0-0.5	0.0
	75	0	11.44	11.30	11.25	11.28		0.0
DFT-s-OFDM QPSK	1	1	11.65	11.50	11.60	11.59	0	0.0
	1	39	11.58	11.48	11.41	11.54		0.0
	1	76	11.66	11.51	11.50	11.55		0.0
	36	0	11.57	11.51	11.54	11.48	0-1	0.0
	36	21	11.59	11.46	11.47	11.50	0	0.0
	36	42	11.55	11.44	11.48	11.51	0-1	0.0
	75	0	11.49	11.40	11.41	11.55		0.0
DFT-s-OFDM 16QAM	1	1	11.77	11.60	11.58	11.50	0-1	0.0
CP-OFDM QPSK	1	1	11.30	11.25	11.27	11.32	0-1.5	0.0

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Table G-2
NR Band n48 Measured P_{Limit} Antenna 1 - 20 MHz Bandwidth

NR Band n48 20 MHz Bandwidth								
			Channel				MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	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	11.65	11.37	11.22	11.44	0	0.0
	1	26	11.62	11.43	11.26	11.24		0.0
	1	49	11.64	11.38	11.21	11.29		0.0
	25	0	11.56	11.35	11.22	11.39	0-0.5	0.0
	25	13	11.58	11.38	11.18	11.32	0	0.0
	25	26	11.62	11.34	11.19	11.28	0-0.5	0.0
	50	0	11.56	11.38	11.18	11.30		0.0
DFT-s-OFDM QPSK	1	1	11.66	11.38	11.29	11.42	0	0.0
	1	26	11.60	11.44	11.20	11.34		0.0
	1	49	11.69	11.37	11.34	11.30		0.0
	25	0	11.57	11.40	11.25	11.25	0-1	0.0
	25	13	11.58	11.39	11.20	11.31	0	0.0
	25	26	11.58	11.33	11.22	11.28	0-1	0.0
	50	0	11.57	11.41	11.23	11.30		0.0
DFT-s-OFDM 16QAM	1	1	11.82	11.62	11.51	11.57	0-1	0.0
CP-OFDM QPSK	1	1	11.48	11.28	11.23	11.31	0-1.5	0.0

Table G-3
NR Band n48 Measured P_{Limit} Antenna 1 - 10 MHz Bandwidth

NR Band n48 10 MHz Bandwidth								
			Channel				MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	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	11.55	11.32	11.12	11.25	0	0.0
	1	12	11.56	11.31	11.09	11.12		0.0
	1	22	11.54	11.30	11.17	11.17		0.0
	12	0	11.47	11.25	11.01	11.15	0-0.5	0.0
	12	6	11.45	11.28	11.09	11.09	0	0.0
	12	12	11.49	11.28	11.15	11.14	0-0.5	0.0
	24	0	11.51	11.29	11.12	11.15		0.0
DFT-s-OFDM QPSK	1	1	11.52	11.31	11.18	11.42	0	0.0
	1	12	11.53	11.38	11.07	11.22		0.0
	1	22	11.52	11.26	11.21	11.14		0.0
	12	0	11.48	11.31	11.13	11.19	0-1	0.0
	12	6	11.51	11.27	11.09	11.14	0	0.0
	12	12	11.54	11.29	11.09	11.20	0-1	0.0
	24	0	11.50	11.30	11.10	11.21		0.0
DFT-s-OFDM 16QAM	1	1	11.78	11.54	11.40	11.40	0-1	0.0
CP-OFDM QPSK	1	1	11.32	11.17	11.02	11.07	0-1.5	0.0

Table G-4
NR Band n48 Measured P_{Limit} Antenna 2a - 30 MHz Bandwidth

NR Band n48 30 MHz Bandwidth								
			Channel				MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	637668 (3565.02 MHz)	640334 (3605.01 MHz)	643000 (3645 MHz)	645666 (3684.99 MHz)		
			Conducted Power [dBm]					
DFT-s-OFDM $\pi/2$ BPSK	1	1	11.40	11.31	11.33	11.43	0	0.0
	1	39	11.43	11.33	11.38	11.47		0.0
	1	76	11.44	11.30	11.46	11.46		0.0
	36	0	11.41	11.28	11.50	11.52	0-0.5	0.0
	36	21	11.38	11.37	11.53	11.44	0	0.0
	36	42	11.40	11.33	11.51	11.50	0-0.5	0.0
	75	0	11.38	11.35	11.44	11.48		0.0
DFT-s-OFDM QPSK	1	1	11.35	11.40	11.46	11.41	0	0.0
	1	39	11.33	11.43	11.51	11.37		0.0
	1	76	11.33	11.37	11.55	11.33		0.0
	36	0	11.39	11.33	11.58	11.38	0-1	0.0
	36	21	11.40	11.34	11.55	11.42	0	0.0
	36	42	11.38	11.32	11.60	11.39	0-1	0.0
	75	0	11.41	11.41	11.53	11.50		0.0
DFT-s-OFDM 16QAM	1	1	11.44	11.42	11.67	11.45	0-1	0.0
CP-OFDM QPSK	1	1	11.31	11.27	11.41	11.38	0-1.5	0.0

Table G-5
NR Band n48 Measured P_{Limit} Antenna 2a - 20 MHz Bandwidth

NR Band n48 20 MHz Bandwidth								
			Channel				MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	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	11.48	11.28	11.29	11.59	0	0.0
	1	26	11.46	11.32	11.22	11.52		0.0
	1	49	11.52	11.30	11.28	11.48		0.0
	25	0	11.42	11.35	11.22	11.54	0-0.5	0.0
	25	13	11.38	11.31	11.21	11.48	0	0.0
	25	26	11.51	11.28	11.20	11.45	0-0.5	0.0
	50	0	11.40	11.31	11.17	11.47		0.0
DFT-s-OFDM QPSK	1	1	11.43	11.32	11.24	11.60	0	0.0
	1	26	11.40	11.31	11.24	11.51		0.0
	1	49	11.54	11.29	11.28	11.48		0.0
	25	0	11.39	11.33	11.22	11.43	0-1	0.0
	25	13	11.41	11.30	11.22	11.50	0	0.0
	25	26	11.47	11.30	11.24	11.43	0-1	0.0
	50	0	11.36	11.29	11.21	11.47		0.0
DFT-s-OFDM 16QAM	1	1	11.71	11.46	11.45	11.83	0-1	0.0
CP-OFDM QPSK	1	1	11.28	11.22	11.14	11.35	0-1.5	0.0

Table G-6
NR Band n48 Measured P_{Limit} Antenna 2a - 10 MHz Bandwidth

NR Band n48 10 MHz Bandwidth								
			Channel				MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	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	11.31	11.26	11.27	11.49	0	0.0
	1	12	11.32	11.14	11.27	11.50		0.0
	1	22	11.45	11.22	11.24	11.42		0.0
	12	0	11.36	11.19	11.17	11.43	0-0.5	0.0
	12	6	11.36	11.21	11.18	11.41	0	0.0
	12	12	11.45	11.26	11.25	11.44	0-0.5	0.0
	24	0	11.37	11.27	11.21	11.46		0.0
DFT-s-OFDM QPSK	1	1	11.35	11.22	11.23	11.45	0	0.0
	1	12	11.42	11.33	11.24	11.46		0.0
	1	22	11.44	11.36	11.30	11.46		0.0
	12	0	11.36	11.30	11.21	11.45	0-1	0.0
	12	6	11.42	11.31	11.22	11.36	0	0.0
	12	12	11.40	11.24	11.15	11.39	0-1	0.0
	24	0	11.42	11.28	11.48	11.42		0.0
DFT-s-OFDM 16QAM	1	1	11.56	11.51	11.42	11.70	0-1	0.0
CP-OFDM QPSK	1	1	11.32	11.01	11.05	11.15	0-1.5	0.0

Table G-7
NR Band n48 Measured P_{Limit} Antenna 3 - 30 MHz Bandwidth

NR Band n48 30 MHz Bandwidth								
			Channel				MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	637668 (3565.02 MHz)	640334 (3605.01 MHz)	643000 (3645 MHz)	645666 (3684.99 MHz)		
			Conducted Power [dBm]					
DFT-s-OFDM $\pi/2$ BPSK	1	1	12.01	11.95	11.95	11.79	0	0.0
	1	39	11.99	11.88	11.92	11.74		0.0
	1	76	12.05	11.75	11.99	11.78		0.0
	36	0	12.03	11.74	11.94	11.75	0-0.5	0.0
	36	21	12.08	11.68	11.96	11.71	0	0.0
	36	42	12.00	11.70	11.88	11.70	0-0.5	0.0
	75	0	12.04	11.80	11.90	11.77		0.0
DFT-s-OFDM QPSK	1	1	12.15	11.80	11.99	11.86	0	0.0
	1	39	12.11	11.74	12.01	11.81		0.0
	1	76	12.07	11.72	11.97	11.80		0.0
	36	0	12.05	11.70	11.94	11.85	0-1	0.0
	36	21	12.13	11.75	11.95	11.84	0	0.0
	36	42	12.01	11.71	11.97	11.88	0-1	0.0
	75	0	11.99	11.77	12.00	11.90		0.0
DFT-s-OFDM 16QAM	1	1	12.40	12.12	12.20	11.98	0-1	0.0
CP-OFDM QPSK	1	1	12.00	11.99	12.05	11.94	0-1.5	0.0

Table G-8
NR Band n48 Measured P_{Limit} Antenna 3 - 20 MHz Bandwidth

NR Band n48 20 MHz Bandwidth								
			Channel				MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	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	12.06	11.79	11.50	11.63	0	0.0
	1	26	12.09	11.81	11.45	11.60		0.0
	1	49	12.08	11.73	11.51	11.52		0.0
	25	0	12.06	11.80	11.45	11.60	0-0.5	0.0
	25	13	12.06	11.83	11.38	11.58	0	0.0
	25	26	12.03	11.79	11.41	11.51	0-0.5	0.0
	50	0	12.01	11.84	11.42	11.55		0.0
DFT-s-OFDM QPSK	1	1	12.01	11.82	11.44	11.56	0	0.0
	1	26	12.09	11.82	11.48	11.61		0.0
	1	49	12.11	11.77	11.52	11.52		0.0
	25	0	12.02	11.84	11.43	11.79	0-1	0.0
	25	13	12.02	11.79	11.45	11.57	0	0.0
	25	26	12.01	11.80	11.44	11.51	0-1	0.0
	50	0	12.04	11.80	11.42	11.60		0.0
DFT-s-OFDM 16QAM	1	1	12.32	12.02	11.31	11.84	0-1	0.0
CP-OFDM QPSK	1	1	11.88	11.79	11.47	11.51	0-1.5	0.0

Table G-9
NR Band n48 Measured P_{Limit} Antenna 3 - 10 MHz Bandwidth

NR Band n48 10 MHz Bandwidth								
			Channel				MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	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	12.15	11.83	11.64	11.67	0	0.0
	1	12	12.22	11.89	11.69	11.70		0.0
	1	22	12.19	11.82	11.68	11.68		0.0
	12	0	12.12	11.82	11.65	11.64	0-0.5	0.0
	12	6	12.15	11.80	11.64	11.58	0	0.0
	12	12	12.16	11.77	11.70	11.62	0-0.5	0.0
	24	0	12.00	11.83	11.68	11.60		0.0
DFT-s-OFDM QPSK	1	1	12.21	11.86	11.70	11.67	0	0.0
	1	12	12.24	11.89	11.66	11.58		0.0
	1	22	12.30	11.86	11.69	11.64		0.0
	12	0	12.17	11.97	11.70	11.60	0-1	0.0
	12	6	12.16	11.82	11.67	11.60	0	0.0
	12	12	12.18	11.84	11.65	11.65	0-1	0.0
	24	0	12.16	11.80	11.67	11.63		0.0
DFT-s-OFDM 16QAM	1	1	12.31	11.98	11.78	11.85	0-1	0.0
CP-OFDM QPSK	1	1	12.02	11.46	11.56	11.52	0-1.5	0.0

Table G-10
NR Band n48 Measured P_{Limit} Antenna 4b - 30 MHz Bandwidth

NR Band n48 30 MHz Bandwidth								
			Channel				MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	637668 (3565.02 MHz)	640334 (3605.01 MHz)	643000 (3645 MHz)	645666 (3684.99 MHz)		
			Conducted Power [dBm]					
DFT-s-OFDM $\pi/2$ BPSK	1	1	11.48	11.31	11.24	11.54	0	0.0
	1	39	11.45	11.65	11.27	11.59		0.0
	1	76	11.48	11.30	11.23	11.52		0.0
	36	0	11.46	11.37	11.20	11.54	0-0.5	0.0
	36	21	11.41	11.33	11.28	11.55	0	0.0
	36	42	11.42	11.42	11.25	11.57	0-0.5	0.0
	75	0	11.50	11.41	11.34	11.62		0.0
DFT-s-OFDM QPSK	1	1	11.19	11.55	11.64	11.38	0	0.0
	1	39	11.18	11.51	11.69	11.34		0.0
	1	76	11.15	11.53	11.64	11.37		0.0
	36	0	11.25	11.52	11.66	11.32	0-1	0.0
	36	21	11.23	11.58	11.62	11.35	0	0.0
	36	42	11.22	11.57	11.60	11.38	0-1	0.0
	75	0	11.10	11.59	11.67	11.45		0.0
DFT-s-OFDM 16QAM	1	1	11.30	11.72	11.63	11.56	0-1	0.0
CP-OFDM QPSK	1	1	11.17	11.42	11.31	11.44	0-1.5	0.0

Table G-11
NR Band n48 Measured P_{Limit} Antenna 4b - 20 MHz Bandwidth

NR Band n48 20 MHz Bandwidth								
			Channel				MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	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	11.57	11.16	11.09	11.55	0	0.0
	1	26	11.53	11.17	11.18	11.56		0.0
	1	49	11.54	11.18	11.20	11.48		0.0
	25	0	11.50	11.18	10.99	11.51	0-0.5	0.0
	25	13	11.49	11.17	11.09	11.52	0	0.0
	25	26	11.49	11.17	11.10	11.46	0-0.5	0.0
	50	0	11.51	11.16	11.13	11.51		0.0
DFT-s-OFDM QPSK	1	1	11.56	11.20	11.08	11.57	0	0.0
	1	26	11.55	11.17	11.16	11.54		0.0
	1	49	11.56	11.22	11.25	11.55		0.0
	25	0	11.49	11.17	11.10	11.58	0-1	0.0
	25	13	11.48	11.16	11.17	11.48	0	0.0
	25	26	11.51	11.14	11.12	11.50	0-1	0.0
	50	0	11.51	11.17	11.10	11.50		0.0
DFT-s-OFDM 16QAM	1	1	11.71	11.40	11.34	11.76	0-1	0.0
CP-OFDM QPSK	1	1	11.41	11.01	10.91	11.50	0-1.5	0.0

Table G-12
NR Band n48 Measured P_{Limit} Antenna 4b - 10 MHz Bandwidth

NR Band n48 10 MHz Bandwidth								
			Channel				MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	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	11.48	11.14	11.24	11.42	0	0.0
	1	12	11.46	11.23	11.16	11.52		0.0
	1	22	11.48	11.25	11.18	11.47		0.0
	12	0	11.45	11.14	11.08	11.44	0-0.5	0.0
	12	6	11.46	11.06	11.10	11.43	0	0.0
	12	12	11.49	11.12	11.10	11.42	0-0.5	0.0
	24	0	11.47	11.14	11.08	11.45		0.0
DFT-s-OFDM QPSK	1	1	11.49	11.15	11.13	11.44	0	0.0
	1	12	11.52	11.19	11.25	11.54		0.0
	1	22	11.52	11.27	11.22	11.42		0.0
	12	0	11.45	11.13	11.12	11.45	0-1	0.0
	12	6	11.49	11.11	11.15	11.45	0	0.0
	12	12	11.50	11.07	11.09	11.49	0-1	0.0
	24	0	11.44	11.17	11.10	11.46		0.0
DFT-s-OFDM 16QAM	1	1	11.72	11.37	11.33	11.72	0-1	0.0
CP-OFDM QPSK	1	1	11.34	11.10	10.97	11.44	0-1.5	0.0

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