

# APPENDIX A: SAR TEST RESULTS FOR $P_{LIMIT}$ CALCULATIONS

**Table A-1**  
**DSI = 2  $P_{Limit}$  Calculations – 5G Head SAR**

MEASUREMENT RESULTS															
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Side	Test Position	Modulation	RB Size	RB Offset	Duty Cycle	SAR (1g)	PLimit	Minimum PLimit
MHz	Ch.	(W/kg)											[dBm]	[dBm]	
3624.99	641666	Mid	NR Band n48	40	15.86	0	Right	Cheek	DFT-s-OFDM QPSK	1	1	1:1	0.326	20.73	20.47
3624.99	641666	Mid	NR Band n48	40	15.72	0	Right	Cheek	DFT-s-OFDM QPSK	50	0	1:1	0.335	20.47	
3624.99	641666	Mid	NR Band n48	40	15.86	0	Right	Tilt	DFT-s-OFDM QPSK	1	1	1:1	0.033	30.67	
3624.99	641666	Mid	NR Band n48	40	15.72	0	Right	Tilt	DFT-s-OFDM QPSK	50	0	1:1	0.031	30.81	
3624.99	641666	Mid	NR Band n48	40	15.86	0	Left	Cheek	DFT-s-OFDM QPSK	1	1	1:1	0.116	25.22	
3624.99	641666	Mid	NR Band n48	40	15.72	0	Left	Cheek	DFT-s-OFDM QPSK	50	0	1:1	0.123	24.82	
3624.99	641666	Mid	NR Band n48	40	15.86	0	Left	Tilt	DFT-s-OFDM QPSK	1	1	1:1	0.059	28.15	
3624.99	641666	Mid	NR Band n48	40	15.72	0	Left	Tilt	DFT-s-OFDM QPSK	50	0	1:1	0.060	27.94	
3624.99	641666	Mid	NR Band n48	40	15.88	0	Right	Cheek	CP-OFDM QPSK	1	1	1:1	0.334	20.64	

For some bands/modes, a lower  $P_{Limit}$  was selected as a more conservative evaluation.

**Table A-2**  
**DSI = 0  $P_{Limit}$  Calculations – 5G Body-Worn SAR**




MEASUREMENT RESULTS															
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Modulation	RB Size	RB Offset	Spacing (mm)	Side	Duty Cycle	SAR (1g)	PLimit	Minimum PLimit
MHz	Ch.	(W/kg)											[dBm]	[dBm]	
3624.99	641666	Mid	NR Band n48	40	18.43	0	DFT-s-OFDM QPSK	1	53	15	Back	1:1	0.139	27.00	26.65
3624.99	641666	Mid	NR Band n48	40	18.20	0	DFT-s-OFDM QPSK	50	28	15	Back	1:1	0.143	26.65	
3624.99	641666	Mid	NR Band n48	40	17.00	1.5	CP-OFDM QPSK	1	1	15	Back	1:1	0.097	27.13	

For some bands/modes, a lower  $P_{Limit}$  was selected as a more conservative evaluation.

**Table A-3**  
**DSI = 3  $P_{Limit}$  Calculations – 5G Hotspot SAR**

MEASUREMENT RESULTS															
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Modulation	RB Size	RB Offset	Spacing (mm)	Side	Duty Cycle	SAR (1g)	PLimit	Minimum PLimit
MHz	Ch.	(W/kg)											[dBm]	[dBm]	
3624.99	641666	Mid	NR Band n48	40	18.43	0	DFT-s-OFDM QPSK	1	53	10	Back	1:1	0.237	24.68	21.81
3624.99	641666	Mid	NR Band n48	40	18.20	0	DFT-s-OFDM QPSK	50	28	10	Back	1:1	0.243	24.34	
3624.99	641666	Mid	NR Band n48	40	18.43	0	DFT-s-OFDM QPSK	1	53	10	Front	1:1	0.161	26.36	
3624.99	641666	Mid	NR Band n48	40	18.20	0	DFT-s-OFDM QPSK	50	28	10	Front	1:1	0.155	26.30	
3624.99	641666	Mid	NR Band n48	40	18.43	0	DFT-s-OFDM QPSK	1	53	10	Right	1:1	0.425	22.15	
3624.99	641666	Mid	NR Band n48	40	18.20	0	DFT-s-OFDM QPSK	50	28	10	Right	1:1	0.436	21.81	
3624.99	641666	Mid	NR Band n48	40	17.00	1.5	CP-OFDM QPSK	1	1	10	Right	1:1	0.291	22.36	

For some bands/modes, a lower  $P_{Limit}$  was selected as a more conservative evaluation.

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**Table A-4**  
**DSI = 0  $P_{Limit}$  Calculations – 5G Phablet SAR**




MEASUREMENT RESULTS															
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Modulation	RB Size	RB Offset	Spacing (mm)	Side	Duty Cycle	SAR (10g)	PLimit	Minimum PLimit
MHz	Ch.	(W/kg)											[dBm]	[dBm]	
3624.99	641666	Mid	NR Band n48	40	17.50	0	DFT-s-OFDM QPSK	1	1	0	Back	1:1	0.275	27.09	19.29
3624.99	641666	Mid	NR Band n48	40	17.50	0	DFT-s-OFDM QPSK	1	1	0	Front	1:1	0.257	27.38	
3570.00	638000	Low	NR Band n48	40	17.99	0	DFT-s-OFDM QPSK	1	104	0	Right	1:1	1.530	20.12	
3624.99	641666	Mid	NR Band n48	40	18.43	0	DFT-s-OFDM QPSK	1	53	0	Right	1:1	1.520	20.59	
3679.98	645332	High	NR Band n48	40	18.17	0	DFT-s-OFDM QPSK	1	53	0	Right	1:1	1.730	19.77	
3570.00	638000	Low	NR Band n48	40	17.92	0	DFT-s-OFDM QPSK	50	28	0	Right	1:1	1.520	20.08	
3624.99	641666	Mid	NR Band n48	40	18.20	0	DFT-s-OFDM QPSK	50	28	0	Right	1:1	1.610	20.11	
3679.98	645332	High	NR Band n48	40	17.84	0	DFT-s-OFDM QPSK	50	28	0	Right	1:1	1.790	19.29	
3624.99	641666	Mid	NR Band n48	40	17.29	1	DFT-s-OFDM QPSK	100	0	0	Right	1:1	1.280	20.20	
3624.99	641666	Mid	NR Band n48	40	17.00	1.5	CP-OFDM QPSK	1	1	0	Right	1:1	1.080	20.65	

For some bands/modes, a lower  $P_{Limit}$  was selected as a more conservative evaluation.  
Data highlighted in blue was tested and provided by the manufacturer.

**Table A-5**  
**DSI = 1  $P_{Limit}$  Calculations – 5G Phablet SAR**

MEASUREMENT RESULTS															
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Modulation	RB Size	RB Offset	Spacing (mm)	Side	Duty Cycle	SAR (10g)	PLimit	Minimum PLimit
MHz	Ch.	(W/kg)											[dBm]	[dBm]	
3624.99	641666	Mid	NR Band n48	40	17.50	0	DFT-s-OFDM QPSK	1	1	0	Back	1:1	0.275	27.09	19.29
3624.99	641666	Mid	NR Band n48	40	17.50	0	DFT-s-OFDM QPSK	1	1	0	Front	1:1	0.257	27.38	
3570.00	638000	Low	NR Band n48	40	17.99	0	DFT-s-OFDM QPSK	1	104	0	Right	1:1	1.530	20.12	
3624.99	641666	Mid	NR Band n48	40	18.43	0	DFT-s-OFDM QPSK	1	53	0	Right	1:1	1.520	20.59	
3679.98	645332	High	NR Band n48	40	18.17	0	DFT-s-OFDM QPSK	1	53	0	Right	1:1	1.730	19.77	
3570.00	638000	Low	NR Band n48	40	17.92	0	DFT-s-OFDM QPSK	50	28	0	Right	1:1	1.520	20.08	
3624.99	641666	Mid	NR Band n48	40	18.20	0	DFT-s-OFDM QPSK	50	28	0	Right	1:1	1.610	20.11	
3679.98	645332	High	NR Band n48	40	17.84	0	DFT-s-OFDM QPSK	50	28	0	Right	1:1	1.790	19.29	
3624.99	641666	Mid	NR Band n48	40	17.29	1	DFT-s-OFDM QPSK	100	0	0	Right	1:1	1.280	20.20	
3624.99	641666	Mid	NR Band n48	40	17.00	1.5	CP-OFDM QPSK	1	1	0	Right	1:1	1.080	20.65	

For some bands/modes, a lower  $P_{Limit}$  was selected as a more conservative evaluation.  
Data highlighted in blue was tested and provided by the manufacturer.

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