

A2.1 UMPC Data

Table A2-1
DSI = 5 P_{Limit} Calculations – GSM 850 UMPC Body SAR

MEASUREMENT RESULTS													
FREQUENCY		Mode	Service	Conducted Power [dBm]	Spacing	Antenna Config.	Device Serial Number	# of Time Slots	Duty Cycle	Side	SAR (1g)	Plimit	Overall Plimit
MHz	Ch.										(W/kg)		
824.20	128	GSM850	GPRS	27.20	5 mm	S	HT211	2	1:4.15	back	0.454	24.44	24.44
824.20	128	GSM850	GPRS	27.20	5 mm	S	HT211	2	1:4.15	bottom	0.206	27.87	
824.20	128	GSM850	GPRS	27.20	5 mm	S	HT211	2	1:4.15	right	0.232	27.35	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population					UMPC Body 1.6 W/kg (mW/g) averaged over 1 gram								

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

Table A2-2
DSI = 5 P_{Limit} Calculations – GSM 1900 UMPC Body SAR

MEASUREMENT RESULTS													
FREQUENCY		Mode	Service	Conducted Power [dBm]	Spacing	Antenna Config.	Device Serial Number	# of Time Slots	Duty Cycle	Side	SAR (1g)	Plimit	Overall Plimit
MHz	Ch.										(W/kg)		
1850.20	512	GSM 1900	GPRS	21.60	5 mm	S	LT211	2	1:4.15	back	0.482	18.58	17.81
1880.00	661	GSM 1900	GPRS	21.93	5 mm	S	LT211	2	1:4.15	back	0.531	18.49	
1909.80	810	GSM 1900	GPRS	21.81	5 mm	S	LT211	2	1:4.15	back	0.604	17.81	
1880.00	661	GSM 1900	GPRS	21.93	5 mm	S	LT211	2	1:4.15	bottom	0.146	24.10	
1880.00	661	GSM 1900	GPRS	21.93	5 mm	S	LT211	2	1:4.15	right	0.332	20.53	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population					UMPC Body 1.6 W/kg (mW/g) averaged over 1 gram								

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

FCC ID: C3K1995		PART 0 SAR CHAR REPORT		Approved by: Quality Manager
Test Dates: 06/21/2021– 09/09/2021	DUT Type: Portable Handset			APPENDIX A2: Page 1 of 23

Table A2-3
DSI = 5 P_{Limit} Calculations – UMTS 850 UMPC Body SAR

MEASUREMENT RESULTS												
FREQUENCY		Mode	Service	Conducted Power [dBm]	Spacing	Antenna Config.	Device Serial Number	Duty Cycle	Side	SAR (1g)	Plimit	Overall Plimit
MHz	Ch.									(W/kg)		
826.40	4132	UMTS 850	RMC	21.20	5 mm	S	LA211	1:1	back	0.403	25.15	24.25
836.60	4183	UMTS 850	RMC	21.35	5 mm	S	LA211	1:1	back	0.447	24.85	
846.60	4233	UMTS 850	RMC	21.41	5 mm	S	LA211	1:1	back	0.520	24.25	
846.60	4233	UMTS 850	RMC	21.41	5 mm	S	LA211	1:1	bottom	0.259	27.28	
846.60	4233	UMTS 850	RMC	21.41	5 mm	S	LA211	1:1	right	0.204	28.31	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population					UMPC Body 1.6 W/kg (mW/g) averaged over 1 gram							

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

Table A2-4
DSI = 5 P_{Limit} Calculations – UMTS 1900 UMPC Body SAR

MEASUREMENT RESULTS												
FREQUENCY		Mode	Service	Conducted Power [dBm]	Spacing	Antenna Config.	Device Serial Number	Duty Cycle	Side	SAR (1g)	Plimit	Overall Plimit
MHz	Ch.									(W/kg)		
1852.40	9262	UMTS 1900	RMC	15.58	5 mm	S	HT211	1:1	back	0.750	16.83	16.24
1880.00	9400	UMTS 1900	RMC	15.77	5 mm	S	HT211	1:1	back	0.897	16.24	
1907.60	9538	UMTS 1900	RMC	15.73	5 mm	S	HT211	1:1	back	0.789	16.76	
1880.00	9400	UMTS 1900	RMC	15.77	5 mm	S	HT211	1:1	bottom	0.184	23.12	
1880.00	9400	UMTS 1900	RMC	15.77	5 mm	S	HT211	1:1	right	0.427	19.47	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population					UMPC Body 1.6 W/kg (mW/g) averaged over 1 gram							

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

FCC ID: C3K1995		PART 0 SAR CHAR REPORT		Approved by: Quality Manager
Test Dates: 06/21/2021– 09/09/2021	DUT Type: Portable Handset	APPENDIX A2: Page 2 of 23		

Table A2-5
DSI = 5 P_{Limit} Calculations – LTE Band 71 UMPC Body SAR

MEASUREMENT RESULTS																	
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Overall Plimit
MHz	Ch.														(W/kg)		
680.50	133297	Mid	LTE Band 71	20	23.23	0	S	YM212	QPSK	1	0	5 mm	back	1:1	0.673	24.95	24.47
680.50	133297	Mid	LTE Band 71	20	23.21	0.5	S	YM212	QPSK	50	0	5 mm	back	1:1	0.725	24.61	
680.50	133297	Mid	LTE Band 71	20	23.14	0.5	S	YM212	QPSK	100	0	5 mm	back	1:1	0.737	24.47	
680.50	133297	Mid	LTE Band 71	20	23.23	0	S	YM212	QPSK	1	0	5 mm	bottom	1:1	0.122	32.37	
680.50	133297	Mid	LTE Band 71	20	23.21	0.5	S	YM212	QPSK	50	0	5 mm	bottom	1:1	0.133	31.97	
680.50	133297	Mid	LTE Band 71	20	23.23	0	S	YM212	QPSK	1	0	5 mm	right	1:1	0.378	27.46	
680.50	133297	Mid	LTE Band 71	20	23.21	0.5	S	YM212	QPSK	50	0	5 mm	right	1:1	0.397	27.22	27.23
680.50	133297	Mid	LTE Band 71	20	22.80	0	N	YM212	QPSK	1	0	5 mm	back	1:1	0.307	27.93	
680.50	133297	Mid	LTE Band 71	20	22.78	0	N	YM212	QPSK	50	0	5 mm	back	1:1	0.313	27.82	
680.50	133297	Mid	LTE Band 71	20	22.80	0	N	YM212	QPSK	1	0	5 mm	top	1:1	0.152	30.98	
680.50	133297	Mid	LTE Band 71	20	22.78	0	N	YM212	QPSK	50	0	5 mm	top	1:1	0.157	30.82	
680.50	133297	Mid	LTE Band 71	20	22.80	0	N	YM212	QPSK	1	0	5 mm	right	1:1	0.352	27.33	
680.50	133297	Mid	LTE Band 71	20	22.78	0	N	YM212	QPSK	50	0	5 mm	right	1:1	0.359	27.23	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						UMPC Body 1.6 W/kg (mW/g) averaged over 1 gram											

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

Table A2-6
DSI = 5 P_{Limit} Calculations – LTE Band 12 UMPC Body SAR

MEASUREMENT RESULTS																	
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plim it	Overall Plim it
MHz	Ch.														(W/kg)		
707.50	23095	Mid	LTE Band 12	10	23.27	0	S	YM212	QPSK	1	0	5 mm	back	1:1	0.659	25.08	25.08
707.50	23095	Mid	LTE Band 12	10	23.34	0.2	S	YM212	QPSK	25	25	5 mm	back	1:1	0.631	25.34	
707.50	23095	Mid	LTE Band 12	10	23.26	0.2	S	YM212	QPSK	50	0	5 mm	back	1:1	0.654	25.10	
707.50	23095	Mid	LTE Band 12	10	23.27	0	S	YM212	QPSK	1	0	5 mm	bottom	1:1	0.182	30.67	
707.50	23095	Mid	LTE Band 12	10	23.34	0.2	S	YM212	QPSK	25	25	5 mm	bottom	1:1	0.206	30.20	
707.50	23095	Mid	LTE Band 12	10	23.27	0	S	YM212	QPSK	1	0	5 mm	right	1:1	0.431	26.93	
707.50	23095	Mid	LTE Band 12	10	23.34	0.2	S	YM212	QPSK	25	25	5 mm	right	1:1	0.434	26.97	27.76
707.50	23095	Mid	LTE Band 12	10	22.59	0	N	YM212	QPSK	1	0	5 mm	back	1:1	0.296	27.88	
707.50	23095	Mid	LTE Band 12	10	22.63	0	N	YM212	QPSK	25	0	5 mm	back	1:1	0.307	27.76	
707.50	23095	Mid	LTE Band 12	10	22.59	0	N	YM212	QPSK	1	0	5 mm	top	1:1	0.156	30.66	
707.50	23095	Mid	LTE Band 12	10	22.63	0	N	YM212	QPSK	25	0	5 mm	top	1:1	0.164	30.48	
707.50	23095	Mid	LTE Band 12	10	22.59	0	N	YM212	QPSK	1	0	5 mm	right	1:1	0.178	30.09	
707.50	23095	Mid	LTE Band 12	10	22.63	0	N	YM212	QPSK	25	0	5 mm	right	1:1	0.182	30.03	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						UMPC Body 1.6 W/kg (mW/g) averaged over 1 gram											

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

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Test Dates: 06/21/2021– 09/09/2021	DUT Type: Portable Handset	APPENDIX A2: Page 3 of 23		

Table A2-7
DSI = 5 P_{Limit} Calculations – LTE Band 13 UMPC Body SAR

MEASUREMENT RESULTS																	
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Overall Plimit
															(W/kg)		
782.00	23230	Mid	LTE Band 13	10	21.27	0	S	YM212	QPSK	1	25	5 mm	back	1:1	0.732	22.62	22.40
782.00	23230	Mid	LTE Band 13	10	21.53	0	S	YM212	QPSK	25	12	5 mm	back	1:1	0.757	22.74	
782.00	23230	Mid	LTE Band 13	10	21.26	0	S	YM212	QPSK	50	0	5 mm	back	1:1	0.770	22.40	
782.00	23230	Mid	LTE Band 13	10	21.27	0	S	YM212	QPSK	1	25	5 mm	bottom	1:1	0.249	27.31	
782.00	23230	Mid	LTE Band 13	10	21.53	0	S	YM212	QPSK	25	12	5 mm	bottom	1:1	0.262	27.35	
782.00	23230	Mid	LTE Band 13	10	21.27	0	S	YM212	QPSK	1	25	5 mm	right	1:1	0.226	27.73	
782.00	23230	Mid	LTE Band 13	10	21.53	0	S	YM212	QPSK	25	12	5 mm	right	1:1	0.235	27.82	23.26
782.00	23230	Mid	LTE Band 13	10	22.06	0	N	YM212	QPSK	1	0	5 mm	back	1:1	0.653	23.91	
782.00	23230	Mid	LTE Band 13	10	22.15	0	N	YM212	QPSK	25	0	5 mm	back	1:1	0.711	23.63	
782.00	23230	Mid	LTE Band 13	10	22.00	0	N	YM212	QPSK	50	0	5 mm	back	1:1	0.749	23.26	
782.00	23230	Mid	LTE Band 13	10	22.06	0	N	YM212	QPSK	1	0	5 mm	top	1:1	0.264	27.84	
782.00	23230	Mid	LTE Band 13	10	22.15	0	N	YM212	QPSK	25	0	5 mm	top	1:1	0.284	27.62	
782.00	23230	Mid	LTE Band 13	10	22.06	0	N	YM212	QPSK	1	0	5 mm	right	1:1	0.301	27.27	23.26
782.00	23230	Mid	LTE Band 13	10	22.15	0	N	YM212	QPSK	25	0	5 mm	right	1:1	0.315	27.17	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT						UMPC Body											
Spatial Peak						1.6 W/kg (mW/g)											
Uncontrolled Exposure/General Population						averaged over 1 gram											

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

Table A2-8
DSI = 5 P_{Limit} Calculations – LTE Band 14 UMPC Body SAR

MEASUREMENT RESULTS																	
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Overall Plimit
MHz	Ch.														(W/kg)		
793.00	23330	Mid	LTE Band 14	10	21.18	0	S	YM212	QPSK	1	0	5 mm	back	1:1	0.683	22.84	22.78
793.00	23330	Mid	LTE Band 14	10	21.19	0	S	YM212	QPSK	25	0	5 mm	back	1:1	0.685	22.83	
793.00	23330	Mid	LTE Band 14	10	21.14	0	S	YM212	QPSK	50	0	5 mm	back	1:1	0.685	22.78	
793.00	23330	Mid	LTE Band 14	10	21.18	0	S	YM212	QPSK	1	0	5 mm	bottom	1:1	0.250	27.20	
793.00	23330	Mid	LTE Band 14	10	21.19	0	S	YM212	QPSK	25	0	5 mm	bottom	1:1	0.245	27.30	
793.00	23330	Mid	LTE Band 14	10	21.18	0	S	YM212	QPSK	1	0	5 mm	right	1:1	0.384	25.34	
793.00	23330	Mid	LTE Band 14	10	21.19	0	S	YM212	QPSK	25	0	5 mm	right	1:1	0.353	25.71	
793.00	23330	Mid	LTE Band 14	10	22.46	0	N	YM212	QPSK	1	0	5 mm	back	1:1	0.654	24.30	24.18
793.00	23330	Mid	LTE Band 14	10	22.45	0	N	YM212	QPSK	25	0	5 mm	back	1:1	0.672	24.18	
793.00	23330	Mid	LTE Band 14	10	22.43	0	N	YM212	QPSK	50	0	5 mm	back	1:1	0.663	24.21	
793.00	23330	Mid	LTE Band 14	10	22.46	0	N	YM212	QPSK	1	0	5 mm	top	1:1	0.326	27.33	
793.00	23330	Mid	LTE Band 14	10	22.45	0	N	YM212	QPSK	25	0	5 mm	top	1:1	0.330	27.26	
793.00	23330	Mid	LTE Band 14	10	22.46	0	N	YM212	QPSK	1	0	5 mm	right	1:1	0.291	27.82	
793.00	23330	Mid	LTE Band 14	10	22.45	0	N	YM212	QPSK	25	0	5 mm	right	1:1	0.269	28.15	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						UMPC Body 1.6 W/kg (mW/g) averaged over 1 gram											

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

FCC ID: C3K1995		PART 0 SAR CHAR REPORT		Approved by:
Test Dates: 06/21/2021– 09/09/2021	DUT Type: Portable Handset			Quality Manager
APPENDIX A2: Page 4 of 23				

Table A2-9
DSI = 5 P_{Limit} Calculations – LTE Band 26 (Cell) UMPC Body SAR

MEASUREMENT RESULTS																	
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Overall Plimit
MHz	Ch.														(W/kg)		
831.50	26865	Mid	LTE Band 26 (Cell)	15	21.41	0	S	HT211	QPSK	1	36	5 mm	back	1:1	0.390	25.50	25.40
831.50	26865	Mid	LTE Band 26 (Cell)	15	21.47	0	S	HT211	QPSK	36	37	5 mm	back	1:1	0.405	25.40	
831.50	26865	Mid	LTE Band 26 (Cell)	15	21.41	0	S	HT211	QPSK	1	36	5 mm	bottom	1:1	0.269	27.11	
831.50	26865	Mid	LTE Band 26 (Cell)	15	21.47	0	S	HT211	QPSK	36	37	5 mm	bottom	1:1	0.285	26.92	
831.50	26865	Mid	LTE Band 26 (Cell)	15	21.41	0	S	HT211	QPSK	1	36	5 mm	right	1:1	0.294	26.73	
831.50	26865	Mid	LTE Band 26 (Cell)	15	21.47	0	S	HT211	QPSK	36	37	5 mm	right	1:1	0.310	26.56	25.82
831.50	26865	Mid	LTE Band 26 (Cell)	15	21.46	0	N	HT211	QPSK	1	36	5 mm	back	1:1	0.365	25.84	
831.50	26865	Mid	LTE Band 26 (Cell)	15	21.76	0	N	HT211	QPSK	36	37	5 mm	back	1:1	0.393	25.82	
831.50	26865	Mid	LTE Band 26 (Cell)	15	21.46	0	N	HT211	QPSK	1	36	5 mm	top	1:1	0.312	26.52	
831.50	26865	Mid	LTE Band 26 (Cell)	15	21.76	0	N	HT211	QPSK	36	37	5 mm	top	1:1	0.324	26.65	
831.50	26865	Mid	LTE Band 26 (Cell)	15	21.46	0	N	HT211	QPSK	1	36	5 mm	right	1:1	0.144	29.88	
831.50	26865	Mid	LTE Band 26 (Cell)	15	21.76	0	N	HT211	QPSK	36	37	5 mm	right	1:1	0.168	29.51	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT																	
Spatial Peak						UMPC Body											
Uncontrolled Exposure/General Population						1.6 W/kg (mW/g)											
						averaged over 1 gram											

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

Table A2-10
DSI = 5 P_{Limit} Calculations – LTE Band 5 (Cell) UMPC Body SAR

MEASUREMENT RESULTS																	
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Overall Plimit
MHz	Ch.														(W/kg)		
836.50	20525	Mid	LTE Band 5 (Cell)	10	21.57	0	S	KF211	QPSK	1	25	5 mm	back	1:1	0.390	25.66	25.45
836.50	20525	Mid	LTE Band 5 (Cell)	10	21.57	0	S	KF211	QPSK	25	0	5 mm	back	1:1	0.409	25.45	
836.50	20525	Mid	LTE Band 5 (Cell)	10	21.64	0	S	KF211	QPSK	25	12	5 mm	back	1:1	0.411	25.50	
836.50	20525	Mid	LTE Band 5 (Cell)	10	21.57	0	S	KF211	QPSK	1	25	5 mm	bottom	1:1	0.161	29.50	
836.50	20525	Mid	LTE Band 5 (Cell)	10	21.64	0	S	KF211	QPSK	25	12	5 mm	bottom	1:1	0.170	29.34	
836.50	20525	Mid	LTE Band 5 (Cell)	10	21.57	0	S	KF211	QPSK	1	25	5 mm	right	1:1	0.061	33.72	
836.50	20525	Mid	LTE Band 5 (Cell)	10	21.64	0	S	KF211	QPSK	25	12	5 mm	right	1:1	0.063	33.65	24.89
836.50	20525	Mid	LTE Band 5 (Cell)	10	21.51	0	N	HT211	QPSK	1	25	5 mm	back	1:1	0.449	24.99	
836.50	20525	Mid	LTE Band 5 (Cell)	10	21.61	0	N	HT211	QPSK	25	25	5 mm	back	1:1	0.470	24.89	
836.50	20525	Mid	LTE Band 5 (Cell)	10	21.51	0	N	HT211	QPSK	1	25	5 mm	top	1:1	0.312	26.57	
836.50	20525	Mid	LTE Band 5 (Cell)	10	21.61	0	N	HT211	QPSK	25	25	5 mm	top	1:1	0.315	26.63	
836.50	20525	Mid	LTE Band 5 (Cell)	10	21.51	0	N	HT211	QPSK	1	25	5 mm	right	1:1	0.206	28.37	
836.50	20525	Mid	LTE Band 5 (Cell)	10	21.61	0	N	HT211	QPSK	25	25	5 mm	right	1:1	0.231	27.97	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						UMPC Body 1.6 W/kg (mW/g) averaged over 1 gram											

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

FCC ID: C3K1995		PART 0 SAR CHAR REPORT		Approved by: Quality Manager
Test Dates: 06/21/2021– 09/09/2021	DUT Type: Portable Handset	APPENDIX A2: Page 5 of 23		

Table A2-11
DSI = 5 P_{Limit} Calculations – LTE Band 66 (AWS) UMPC Body SAR

MEASUREMENT RESULTS																
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit
MHz	Ch.														(W/kg)	
1720.00	132072	Low	LTE Band 66 (AWS)	20	14.19	0	N	HT211	QPSK	1	0	5 mm	back	1:1	0.542	16.85
1745.00	132322	Mid	LTE Band 66 (AWS)	20	14.20	0	N	HT211	QPSK	1	99	5 mm	back	1:1	0.777	15.30
1770.00	132572	High	LTE Band 66 (AWS)	20	14.16	0	N	HT211	QPSK	1	99	5 mm	back	1:1	0.720	15.59
1720.00	132072	Low	LTE Band 66 (AWS)	20	14.24	0	N	HT211	QPSK	50	25	5 mm	back	1:1	0.620	16.32
1745.00	132322	Mid	LTE Band 66 (AWS)	20	14.30	0	N	HT211	QPSK	50	25	5 mm	back	1:1	0.754	15.53
1770.00	132572	High	LTE Band 66 (AWS)	20	14.25	0	N	HT211	QPSK	50	0	5 mm	back	1:1	0.733	15.60
1745.00	132322	Mid	LTE Band 66 (AWS)	20	14.19	0	N	HT211	QPSK	100	0	5 mm	back	1:1	0.771	15.32
1745.00	132322	Mid	LTE Band 66 (AWS)	20	14.20	0	N	HT211	QPSK	1	99	5 mm	top	1:1	0.375	18.46
1745.00	132322	Mid	LTE Band 66 (AWS)	20	14.30	0	N	HT211	QPSK	50	25	5 mm	top	1:1	0.379	18.51
1745.00	132322	Mid	LTE Band 66 (AWS)	20	14.20	0	N	HT211	QPSK	1	99	5 mm	right	1:1	0.241	20.38
1745.00	132322	Mid	LTE Band 66 (AWS)	20	14.30	0	N	HT211	QPSK	50	25	5 mm	right	1:1	0.248	20.36
1720.00	132072	Low	LTE Band 66 (AWS)	20	14.47	0	S	HT211	QPSK	1	0	5 mm	back	1:1	0.769	15.61
1720.00	132072	Low	LTE Band 66 (AWS)	20	14.42	0	S	HT211	QPSK	1	99	5 mm	back	1:1	0.682	16.08
1745.00	132322	Mid	LTE Band 66 (AWS)	20	14.64	0	S	HT211	QPSK	1	0	5 mm	back	1:1	0.761	15.83
1770.00	132572	High	LTE Band 66 (AWS)	20	14.60	0	S	HT211	QPSK	1	0	5 mm	back	1:1	0.707	16.11
1720.00	132072	Low	LTE Band 66 (AWS)	20	14.66	0	S	HT211	QPSK	50	25	5 mm	back	1:1	0.778	15.75
1745.00	132322	Mid	LTE Band 66 (AWS)	20	14.68	0	S	HT211	QPSK	50	25	5 mm	back	1:1	0.758	15.88
1770.00	132572	High	LTE Band 66 (AWS)	20	14.61	0	S	HT211	QPSK	50	25	5 mm	back	1:1	0.697	16.18
1745.00	132322	Mid	LTE Band 66 (AWS)	20	14.63	0	S	HT211	QPSK	100	0	5 mm	back	1:1	0.748	15.89
1745.00	132322	Mid	LTE Band 66 (AWS)	20	14.64	0	S	HT211	QPSK	1	0	5 mm	bottom	1:1	0.276	20.23
1745.00	132322	Mid	LTE Band 66 (AWS)	20	14.68	0	S	HT211	QPSK	50	25	5 mm	bottom	1:1	0.267	20.41
1745.00	132322	Mid	LTE Band 66 (AWS)	20	14.64	0	S	HT211	QPSK	1	0	5 mm	right	1:1	0.388	18.75
1745.00	132322	Mid	LTE Band 66 (AWS)	20	14.68	0	S	HT211	QPSK	50	25	5 mm	right	1:1	0.388	18.79
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						UMPC Body 1.6 W/kg (mW/g) averaged over 1 gram										

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

FCC ID: C3K1995	 PCTEST Proud to be part of element	PART 0 SAR CHAR REPORT	 Microsoft	Approved by: Quality Manager
Test Dates: 06/21/2021– 09/09/2021	DUT Type: Portable Handset	APPENDIX A2: Page 6 of 23		

Table A2-12
DSI = 5 P_{Limit} Calculations – LTE Band 25 (PCS) UMPC Body SAR

MEASUREMENT RESULTS																	
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Overall Plimit
MHz	Ch.														(W/kg)		
1860.00	26140	Low	LTE Band 25 (PCS)	20	15.13	0	S	YM212	QPSK	1	50	5 mm	back	1:1	0.484	18.28	17.79
1860.00	26140	Low	LTE Band 25 (PCS)	20	15.24	0	S	YM212	QPSK	50	25	5 mm	back	1:1	0.508	18.18	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	15.12	0	S	YM212	QPSK	50	0	5 mm	back	1:1	0.541	17.79	
1905.00	26590	High	LTE Band 25 (PCS)	20	15.06	0	S	YM212	QPSK	50	50	5 mm	back	1:1	0.490	18.16	
1860.00	26140	Low	LTE Band 25 (PCS)	20	15.13	0	S	YM212	QPSK	1	50	5 mm	bottom	1:1	0.141	23.64	
1860.00	26140	Low	LTE Band 25 (PCS)	20	15.24	0	S	YM212	QPSK	50	25	5 mm	bottom	1:1	0.147	23.57	
1860.00	26140	Low	LTE Band 25 (PCS)	20	15.13	0	S	YM212	QPSK	1	50	5 mm	right	1:1	0.332	19.92	
1860.00	26140	Low	LTE Band 25 (PCS)	20	15.24	0	S	YM212	QPSK	50	25	5 mm	right	1:1	0.345	19.86	
1860.00	26140	Low	LTE Band 25 (PCS)	20	14.25	0	N	X2211	QPSK	1	99	5 mm	back	1:1	0.455	17.67	17.38
1860.00	26140	Low	LTE Band 25 (PCS)	20	14.26	0	N	X2211	QPSK	50	50	5 mm	back	1:1	0.488	17.38	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	14.25	0	N	X2211	QPSK	50	0	5 mm	back	1:1	0.357	18.72	
1905.00	26590	High	LTE Band 25 (PCS)	20	14.22	0	N	X2211	QPSK	50	25	5 mm	back	1:1	0.468	17.52	
1860.00	26140	Low	LTE Band 25 (PCS)	20	14.25	0	N	X2211	QPSK	1	99	5 mm	top	1:1	0.138	22.85	
1860.00	26140	Low	LTE Band 25 (PCS)	20	14.26	0	N	X2211	QPSK	50	50	5 mm	top	1:1	0.140	22.80	
1860.00	26140	Low	LTE Band 25 (PCS)	20	14.25	0	N	X2211	QPSK	1	99	5 mm	right	1:1	0.092	24.61	
1860.00	26140	Low	LTE Band 25 (PCS)	20	14.26	0	N	X2211	QPSK	50	50	5 mm	right	1:1	0.095	24.48	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT																	
Spatial Peak						UMPC Body											
Uncontrolled Exposure/General Population						1.6 W/kg (mW/g)											
						averaged over 1 gram											

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

Table A2-13
DSI = 5 P_{Limit} Calculations – LTE Band 30 UMPC Body SAR

MEASUREMENT RESULTS																	
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Overall Plimit
MHz	Ch.														(W/kg)		
2310.00	27710	Mid	LTE Band 30	10	17.75	0	S	LT211	QPSK	1	49	5 mm	back	1:1	0.436	21.36	21.27
2310.00	27710	Mid	LTE Band 30	10	17.80	0	S	LT211	QPSK	25	25	5 mm	back	1:1	0.450	21.27	
2310.00	27710	Mid	LTE Band 30	10	17.75	0	S	LT211	QPSK	1	49	5 mm	bottom	1:1	0.362	22.16	
2310.00	27710	Mid	LTE Band 30	10	17.80	0	S	LT211	QPSK	25	25	5 mm	bottom	1:1	0.373	22.08	
2310.00	27710	Mid	LTE Band 30	10	17.75	0	S	LT211	QPSK	1	49	5 mm	right	1:1	0.161	25.68	
2310.00	27710	Mid	LTE Band 30	10	17.80	0	S	LT211	QPSK	25	25	5 mm	right	1:1	0.168	25.55	
2310.00	27710	Mid	LTE Band 30	10	17.30	0	N	LT211	QPSK	1	0	5 mm	back	1:1	0.447	20.80	20.60
2310.00	27710	Mid	LTE Band 30	10	17.25	0	N	LT211	QPSK	25	0	5 mm	back	1:1	0.462	20.60	
2310.00	27710	Mid	LTE Band 30	10	17.30	0	N	LT211	QPSK	1	0	5 mm	top	1:1	0.367	21.65	
2310.00	27710	Mid	LTE Band 30	10	17.25	0	N	LT211	QPSK	25	0	5 mm	top	1:1	0.383	21.42	
2310.00	27710	Mid	LTE Band 30	10	17.30	0	N	LT211	QPSK	1	0	5 mm	right	1:1	0.227	23.74	
2310.00	27710	Mid	LTE Band 30	10	17.25	0	N	LT211	QPSK	25	0	5 mm	right	1:1	0.222	23.79	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						UMPC Body 1.6 W/kg (mW/g) averaged over 1 gram											

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

FCC ID: C3K1995	 Proud to be part of 	PART 0 SAR CHAR REPORT		Approved by: Quality Manager
Test Dates: 06/21/2021– 09/09/2021	DUT Type: Portable Handset	APPENDIX A2: Page 7 of 23		

Table A2-14
DSI = 5 P_{Limit} Calculations – LTE Band 7 UMPC Body SAR

MEASUREMENT RESULTS																	
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Overall Plimit
MHz	Ch.														(W/kg)		
2510.00	20850	Low	LTE Band 7	20	14.82	0	S	HT211	QPSK	1	0	5 mm	back	1:1	0.542	17.48	16.86
2535.00	21100	Mid	LTE Band 7	20	15.03	0	S	HT211	QPSK	1	0	5 mm	back	1:1	0.631	17.03	
2560.00	21350	High	LTE Band 7	20	14.95	0	S	HT211	QPSK	1	99	5 mm	back	1:1	0.481	18.13	
2510.00	20850	Low	LTE Band 7	20	15.03	0	S	HT211	QPSK	50	25	5 mm	back	1:1	0.604	17.22	
2535.00	21100	Mid	LTE Band 7	20	15.04	0	S	HT211	QPSK	50	50	5 mm	back	1:1	0.658	16.86	
2560.00	21350	High	LTE Band 7	20	14.92	0	S	HT211	QPSK	50	50	5 mm	back	1:1	0.473	18.17	
2535.00	21100	Mid	LTE Band 7	20	15.02	0	S	HT211	QPSK	100	0	5 mm	back	1:1	0.655	16.86	
2535.00	21100	Mid	LTE Band 7	20	15.03	0	S	HT211	QPSK	1	0	5 mm	bottom	1:1	0.419	18.81	
2535.00	21100	Mid	LTE Band 7	20	15.04	0	S	HT211	QPSK	50	50	5 mm	bottom	1:1	0.476	18.26	
2535.00	21100	Mid	LTE Band 7	20	15.03	0	S	HT211	QPSK	1	0	5 mm	right	1:1	0.069	26.64	
2535.00	21100	Mid	LTE Band 7	20	15.04	0	S	HT211	QPSK	50	50	5 mm	right	1:1	0.071	26.53	
2510.00	20850	Low	LTE Band 7	20	16.11	0	N	YM212	QPSK	1	0	5 mm	back	1:1	0.278	21.67	21.22
2510.00	20850	Low	LTE Band 7	20	16.15	0	N	YM212	QPSK	50	25	5 mm	back	1:1	0.309	21.25	
2510.00	20850	Low	LTE Band 7	20	16.12	0	N	YM212	QPSK	50	50	5 mm	back	1:1	0.309	21.22	
2510.00	20850	Low	LTE Band 7	20	16.11	0	N	YM212	QPSK	1	0	5 mm	top	1:1	0.254	22.06	
2510.00	20850	Low	LTE Band 7	20	16.15	0	N	YM212	QPSK	50	25	5 mm	top	1:1	0.272	21.80	
2510.00	20850	Low	LTE Band 7	20	16.11	0	N	YM212	QPSK	1	0	5 mm	right	1:1	0.129	25.00	
2510.00	20850	Low	LTE Band 7	20	16.15	0	N	YM212	QPSK	50	25	5 mm	right	1:1	0.132	24.94	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						UMPC Body 1.6 W/kg (mW/g) averaged over 1 gram											

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

FCC ID: C3K1995	 PCTEST Proud to be part of element	PART 0 SAR CHAR REPORT	 Microsoft	Approved by: Quality Manager
Test Dates: 06/21/2021– 09/09/2021	DUT Type: Portable Handset	APPENDIX A2: Page 8 of 23		

Table A2-15
DSI = 5 P_{Limit} Calculations – LTE Band 41 UMPC Body SAR

MEASUREMENT RESULTS																	
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Overall Plimit
MHz	Ch.	(W/kg)															
2506.00	39750	Low	LTE Band 41	20	17.51	0	S	LR211	QPSK	1	0	5 mm	back	1:1.58	0.615	17.64	17.15
2549.50	40185	Low-Mid	LTE Band 41	20	17.42	0	S	LR211	QPSK	1	99	5 mm	back	1:1.58	0.673	17.15	
2593.00	40620	Mid	LTE Band 41	20	17.83	0	S	LR211	QPSK	1	99	5 mm	back	1:1.58	0.658	17.66	
2636.50	41055	Mid-High	LTE Band 41	20	17.73	0	S	LR211	QPSK	1	0	5 mm	back	1:1.58	0.619	17.83	
2680.00	41490	High	LTE Band 41	20	17.82	0	S	LR211	QPSK	1	99	5 mm	back	1:1.58	0.582	18.18	
2506.00	39750	Low	LTE Band 41	20	17.70	0	S	LR211	QPSK	50	0	5 mm	back	1:1.58	0.641	17.65	
2549.50	40185	Low-Mid	LTE Band 41	20	17.65	0	S	LR211	QPSK	50	25	5 mm	back	1:1.58	0.686	17.30	
2593.00	40620	Mid	LTE Band 41	20	17.95	0	S	LR211	QPSK	50	50	5 mm	back	1:1.58	0.655	17.80	
2636.50	41055	Mid-High	LTE Band 41	20	17.81	0	S	LR211	QPSK	50	25	5 mm	back	1:1.58	0.655	17.66	
2680.00	41490	High	LTE Band 41	20	17.70	0	S	LR211	QPSK	50	50	5 mm	back	1:1.58	0.608	17.88	
2593.00	40620	Mid	LTE Band 41	20	17.82	0	S	LR211	QPSK	100	0	5 mm	back	1:1.58	0.649	17.71	
2506.00	39750	Low	LTE Band 41	20	17.51	0	S	LR211	QPSK	1	0	5 mm	bottom	1:1.58	0.431	19.18	
2549.50	40185	Low-Mid	LTE Band 41	20	17.42	0	S	LR211	QPSK	1	99	5 mm	bottom	1:1.58	0.455	18.85	
2593.00	40620	Mid	LTE Band 41	20	17.83	0	S	LR211	QPSK	1	99	5 mm	bottom	1:1.58	0.507	18.79	
2636.50	41055	Mid-High	LTE Band 41	20	17.73	0	S	LR211	QPSK	1	0	5 mm	bottom	1:1.58	0.522	18.57	
2680.00	41490	High	LTE Band 41	20	17.82	0	S	LR211	QPSK	1	99	5 mm	bottom	1:1.58	0.424	19.56	
2506.00	39750	Low	LTE Band 41	20	17.70	0	S	LR211	QPSK	50	0	5 mm	bottom	1:1.58	0.440	19.28	
2549.50	40185	Low-Mid	LTE Band 41	20	17.65	0	S	LR211	QPSK	50	25	5 mm	bottom	1:1.58	0.469	18.95	
2593.00	40620	Mid	LTE Band 41	20	17.95	0	S	LR211	QPSK	50	50	5 mm	bottom	1:1.58	0.512	18.87	
2636.50	41055	Mid-High	LTE Band 41	20	17.81	0	S	LR211	QPSK	50	25	5 mm	bottom	1:1.58	0.535	18.54	
2680.00	41490	High	LTE Band 41	20	17.70	0	S	LR211	QPSK	50	50	5 mm	bottom	1:1.58	0.440	19.28	
2593.00	40620	Mid	LTE Band 41	20	17.82	0	S	LR211	QPSK	100	0	5 mm	bottom	1:1.58	0.515	18.72	
2593.00	40620	Mid	LTE Band 41	20	17.83	0	S	LR211	QPSK	1	99	5 mm	right	1:1.58	0.084	26.60	
2593.00	40620	Mid	LTE Band 41	20	17.95	0	S	LR211	QPSK	50	50	5 mm	right	1:1.58	0.086	26.62	
2506.00	39750	Low	LTE Band 41	20	17.42	0	N	LM211	QPSK	1	0	5 mm	back	1:1.58	0.388	19.55	
2549.50	40185	Low-Mid	LTE Band 41	20	17.39	0	N	LM211	QPSK	1	50	5 mm	back	1:1.58	0.400	19.38	
2593.00	40620	Mid	LTE Band 41	20	17.81	0	N	LM211	QPSK	1	0	5 mm	back	1:1.58	0.484	18.98	
2636.50	41055	Mid-High	LTE Band 41	20	17.59	0	N	LM211	QPSK	1	0	5 mm	back	1:1.58	0.419	19.38	
2680.00	41490	High	LTE Band 41	20	17.91	0	N	LM211	QPSK	1	0	5 mm	back	1:1.58	0.527	18.71	
2506.00	39750	Low	LTE Band 41	20	17.63	0	N	LM211	QPSK	50	0	5 mm	back	1:1.58	0.425	19.36	
2549.50	40185	Low-Mid	LTE Band 41	20	17.61	0	N	LM211	QPSK	50	25	5 mm	back	1:1.58	0.415	19.44	
2593.00	40620	Mid	LTE Band 41	20	17.84	0	N	LM211	QPSK	50	0	5 mm	back	1:1.58	0.474	19.10	
2636.50	41055	Mid-High	LTE Band 41	20	17.74	0	N	LM211	QPSK	50	50	5 mm	back	1:1.58	0.495	18.81	
2680.00	41490	High	LTE Band 41	20	17.89	0	N	LM211	QPSK	50	0	5 mm	back	1:1.58	0.527	18.69	
2680.00	41490	High	LTE Band 41	20	17.90	0	N	LM211	QPSK	50	25	5 mm	back	1:1.58	0.547	18.53	
2680.00	41490	High	LTE Band 41	20	17.89	0	N	LM211	QPSK	100	0	5 mm	back	1:1.58	0.540	18.58	
2506.00	39750	Low	LTE Band 41	20	17.42	0	N	LM211	QPSK	1	0	5 mm	top	1:1.58	0.375	19.69	
2549.50	40185	Low-Mid	LTE Band 41	20	17.39	0	N	LM211	QPSK	1	50	5 mm	top	1:1.58	0.372	19.70	
2593.00	40620	Mid	LTE Band 41	20	17.81	0	N	LM211	QPSK	1	0	5 mm	top	1:1.58	0.429	19.50	
2636.50	41055	Mid-High	LTE Band 41	20	17.59	0	N	LM211	QPSK	1	0	5 mm	top	1:1.58	0.404	19.54	
2680.00	41490	High	LTE Band 41	20	17.91	0	N	LM211	QPSK	1	0	5 mm	top	1:1.58	0.497	18.96	
2506.00	39750	Low	LTE Band 41	20	17.63	0	N	LM211	QPSK	50	0	5 mm	top	1:1.58	0.386	19.78	
2549.50	40185	Low-Mid	LTE Band 41	20	17.61	0	N	LM211	QPSK	50	25	5 mm	top	1:1.58	0.381	19.81	
2593.00	40620	Mid	LTE Band 41	20	17.84	0	N	LM211	QPSK	50	0	5 mm	top	1:1.58	0.416	19.66	
2636.50	41055	Mid-High	LTE Band 41	20	17.74	0	N	LM211	QPSK	50	50	5 mm	top	1:1.58	0.424	19.48	
2680.00	41490	High	LTE Band 41	20	17.90	0	N	LM211	QPSK	50	25	5 mm	top	1:1.58	0.508	18.86	
2680.00	41490	High	LTE Band 41	20	17.89	0	N	LM211	QPSK	100	0	5 mm	top	1:1.58	0.529	18.67	
2680.00	41490	High	LTE Band 41	20	17.91	0	N	LM211	QPSK	1	0	5 mm	right	1:1.58	0.089	26.43	
2680.00	41490	High	LTE Band 41	20	17.90	0	N	LM211	QPSK	50	25	5 mm	right	1:1.58	0.083	26.72	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT						UMPC Body 1.6 W/kg (mW/g)											
Spatial Peak																	

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

FCC ID: C3K1995		PART 0 SAR CHAR REPORT		Approved by: Quality Manager
Test Dates: 06/21/2021– 09/09/2021	DUT Type: Portable Handset	APPENDIX A2: Page 9 of 23		

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Table A2-16
DSI = 5 P_{Limit} Calculations – LTE Band 48 UMPC Body SAR

MEASUREMENT RESULTS																	
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Overall Plimit
MHz	Ch.														(W/kg)		
3690.00	56640	High	LTE Band 48	20	15.59	0	S	X9211	QPSK	1	0	5 mm	back	1:1.58	0.446	17.11	17.05
3690.00	56640	High	LTE Band 48	20	15.65	0	S	X9211	QPSK	50	0	5 mm	back	1:1.58	0.459	17.05	
3690.00	56640	High	LTE Band 48	20	15.59	0	S	X9211	QPSK	1	0	5 mm	bottom	1:1.58	0.130	22.46	
3690.00	56640	High	LTE Band 48	20	15.65	0	S	X9211	QPSK	50	0	5 mm	bottom	1:1.58	0.131	22.49	
3690.00	56640	High	LTE Band 48	20	15.59	0	S	X9211	QPSK	1	0	5 mm	right	1:1.58	0.044	27.17	
3690.00	56640	High	LTE Band 48	20	15.65	0	S	X9211	QPSK	50	0	5 mm	right	1:1.58	0.038	27.87	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						UMPC Body 1.6 W/kg (mW/g) averaged over 1 gram											

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

Table A2-17
DSI = 5 P_{Limit} Calculations – NR Band n71 UMPC Body SAR

MEASUREMENT RESULTS																		
FREQUENCY		Mode	Bandwidth [MHz]	Conducted Power [dBm]	Antenna Config	MPR [dB]	Serial Number	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Overall Plimit	
MHz	Ch.														(W/kg)			
680.50	136100	Mid	NR Band n71	20	22.93	S	0.0	J2211	DFT-S-OFDM	QPSK	1	1	5 mm	back	1:1	0.489	26.04	25.60
680.50	136100	Mid	NR Band n71	20	22.75	S	0.0	J2211	DFT-S-OFDM	QPSK	50	28	5 mm	back	1:1	0.519	25.60	
680.50	136100	Mid	NR Band n71	20	21.47	S	1.5	J2211	CP-OFDM	QPSK	1	1	5 mm	back	1:1	0.366	25.84	
680.50	136100	Mid	NR Band n71	20	22.93	S	0.0	J2211	DFT-S-OFDM	QPSK	1	1	5 mm	bottom	1:1	0.115	32.32	
680.50	136100	Mid	NR Band n71	20	22.75	S	0.0	J2211	DFT-S-OFDM	QPSK	50	28	5 mm	bottom	1:1	0.125	31.78	
680.50	136100	Mid	NR Band n71	20	22.93	S	0.0	J2211	DFT-S-OFDM	QPSK	1	1	5 mm	right	1:1	0.401	26.90	
680.50	136100	Mid	NR Band n71	20	22.75	S	0.0	J2211	DFT-S-OFDM	QPSK	50	28	5 mm	right	1:1	0.360	27.19	27.14
680.50	136100	Mid	NR Band n71	20	22.75	N	0.0	J2211	DFT-S-OFDM	QPSK	1	1	5 mm	back	1:1	0.257	28.65	
680.50	136100	Mid	NR Band n71	20	22.61	N	0.0	J2211	DFT-S-OFDM	QPSK	50	28	5 mm	back	1:1	0.260	28.46	
680.50	136100	Mid	NR Band n71	20	22.75	N	0.0	J2211	DFT-S-OFDM	QPSK	1	1	5 mm	top	1:1	0.152	30.93	
680.50	136100	Mid	NR Band n71	20	22.61	N	0.0	J2211	DFT-S-OFDM	QPSK	50	28	5 mm	top	1:1	0.172	30.25	
680.50	136100	Mid	NR Band n71	20	22.75	N	0.0	J2211	DFT-S-OFDM	QPSK	1	1	5 mm	right	1:1	0.341	27.42	
680.50	136100	Mid	NR Band n71	20	22.61	N	0.0	J2211	DFT-S-OFDM	QPSK	50	28	5 mm	right	1:1	0.316	27.61	27.14
680.50	136100	Mid	NR Band n71	20	21.49	N	1.5	J2211	CP-OFDM	QPSK	1	1	5 mm	right	1:1	0.272	27.14	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak							UMPC Body 1.6 W/kg (mW/g) averaged over 1 gram											
Uncontrolled Exposure/General Population																		

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

FCC ID: C3K1995		PART 0 SAR CHAR REPORT		Approved by: Quality Manager
Test Dates: 06/21/2021– 09/09/2021	DUT Type: Portable Handset	APPENDIX A2: Page 10 of 23		

Table A2-18
DSI = 5 P_{Limit} Calculations – NR Band n5 (Cell) UMPC Body SAR

MEASUREMENT RESULTS																		
FREQUENCY		Mode	Bandwidth [MHz]	Conducted Power [dBm]	Antenna Config	MPR [dB]	Serial Number	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Overall Plimit	
MHz	Ch.														(W/kg)			
836.50	167300	Mid	NR Band n5 (Cell)	20	21.22	S	0.0	KF211	DFT-S-OFDM	QPSK	1	104	5 mm	back	1:1	0.414	25.05	24.66
836.50	167300	Mid	NR Band n5 (Cell)	20	21.18	S	0.0	KF211	DFT-S-OFDM	QPSK	50	28	5 mm	back	1:1	0.405	25.11	
836.50	167300	Mid	NR Band n5 (Cell)	20	20.76	S	0.2	KF211	CP-OFDM	QPSK	1	1	5 mm	back	1:1	0.407	24.66	
836.50	167300	Mid	NR Band n5 (Cell)	20	21.22	S	0.0	KF211	DFT-S-OFDM	QPSK	1	104	5 mm	bottom	1:1	0.181	28.64	
836.50	167300	Mid	NR Band n5 (Cell)	20	21.18	S	0.0	KF211	DFT-S-OFDM	QPSK	50	28	5 mm	bottom	1:1	0.182	28.58	
836.50	167300	Mid	NR Band n5 (Cell)	20	21.22	S	0.0	KF211	DFT-S-OFDM	QPSK	1	104	5 mm	right	1:1	0.311	26.29	
836.50	167300	Mid	NR Band n5 (Cell)	20	21.18	S	0.0	KF211	DFT-S-OFDM	QPSK	50	28	5 mm	right	1:1	0.331	25.98	
836.50	167300	Mid	NR Band n5 (Cell)	20	22.25	N	0.0	JW211	DFT-S-OFDM	QPSK	1	104	5 mm	back	1:1	0.502	25.24	
836.50	167300	Mid	NR Band n5 (Cell)	20	22.15	N	0.0	JW211	DFT-S-OFDM	QPSK	50	28	5 mm	back	1:1	0.565	24.63	
836.50	167300	Mid	NR Band n5 (Cell)	20	21.77	N	0.7	JW211	CP-OFDM	QPSK	1	1	5 mm	back	1:1	0.492	24.85	
836.50	167300	Mid	NR Band n5 (Cell)	20	22.25	N	0.0	JW211	DFT-S-OFDM	QPSK	1	104	5 mm	top	1:1	0.389	26.35	
836.50	167300	Mid	NR Band n5 (Cell)	20	22.15	N	0.0	JW211	DFT-S-OFDM	QPSK	50	28	5 mm	top	1:1	0.407	26.05	
836.50	167300	Mid	NR Band n5 (Cell)	20	22.25	N	0.0	JW211	DFT-S-OFDM	QPSK	1	104	5 mm	right	1:1	0.338	26.96	
836.50	167300	Mid	NR Band n5 (Cell)	20	22.15	N	0.0	JW211	DFT-S-OFDM	QPSK	50	28	5 mm	right	1:1	0.304	27.32	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT						UMPC Body												
Spatial Peak						1.6 W/kg (mW/g)												
Uncontrolled Exposure/General Population						averaged over 1 gram												

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

Table A2-19
DSI = 5 P_{Limit} Calculations – NR Band n66 UMPC Body SAR

MEASUREMENT RESULTS																		
FREQUENCY		Mode	Bandwidth [MHz]	Conducted Power [dBm]	Antenna Config	MPR [dB]	Serial Number	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Overall Plimit	
MHz	Ch.														(W/kg)			
1745.00	349000	Mid	NR Band n66 (AWS)	40	15.47	S	0	KQ211	DFT-S-OFDM	QPSK	1	108	5 mm	back	1:1	0.833	16.26	15.52
1745.00	349000	Mid	NR Band n66 (AWS)	40	15.50	S	0	KQ211	DFT-S-OFDM	QPSK	108	54	5 mm	back	1:1	0.837	16.27	
1745.00	349000	Mid	NR Band n66 (AWS)	40	15.46	S	0	KQ211	DFT-S-OFDM	QPSK	216	0	5 mm	back	1:1	0.845	16.19	
1745.00	349000	Mid	NR Band n66 (AWS)	40	15.26	S	0	KQ211	CP-OFDM	QPSK	1	1	5 mm	back	1:1	0.942	15.52	
1745.00	349000	Mid	NR Band n66 (AWS)	40	15.47	S	0	KQ211	DFT-S-OFDM	QPSK	1	108	5 mm	bottom	1:1	0.355	19.97	
1745.00	349000	Mid	NR Band n66 (AWS)	40	15.50	S	0	KQ211	DFT-S-OFDM	QPSK	108	54	5 mm	bottom	1:1	0.348	20.08	
1745.00	349000	Mid	NR Band n66 (AWS)	40	15.47	S	0	KQ211	DFT-S-OFDM	QPSK	1	108	5 mm	right	1:1	0.473	18.72	
1745.00	349000	Mid	NR Band n66 (AWS)	40	15.50	S	0	KQ211	DFT-S-OFDM	QPSK	108	54	5 mm	right	1:1	0.481	18.68	
1745.00	349000	Mid	NR Band n66 (AWS)	40	15.32	N	0	H7211	DFT-S-OFDM	QPSK	1	108	5 mm	back	1:1	0.509	18.25	18.16
1745.00	349000	Mid	NR Band n66 (AWS)	40	15.37	N	0	H7211	DFT-S-OFDM	QPSK	108	54	5 mm	back	1:1	0.526	18.16	
1745.00	349000	Mid	NR Band n66 (AWS)	40	15.23	N	0	H7211	CP-OFDM	QPSK	1	1	5 mm	back	1:1	0.471	18.50	
1745.00	349000	Mid	NR Band n66 (AWS)	40	15.32	N	0	H7211	DFT-S-OFDM	QPSK	1	108	5 mm	top	1:1	0.371	19.63	
1745.00	349000	Mid	NR Band n66 (AWS)	40	15.37	N	0	H7211	DFT-S-OFDM	QPSK	108	54	5 mm	top	1:1	0.372	19.66	
1745.00	349000	Mid	NR Band n66 (AWS)	40	15.32	N	0	H7211	DFT-S-OFDM	QPSK	1	108	5 mm	right	1:1	0.292	20.67	
1745.00	349000	Mid	NR Band n66 (AWS)	40	15.37	N	0	H7211	DFT-S-OFDM	QPSK	108	54	5 mm	right	1:1	0.292	20.72	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT						UMPC Body												
Spatial Peak						1.6 W/kg (mW/g)												
Uncontrolled Exposure/General Population						averaged over 1 gram												

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

FCC ID: C3K1995		PART 0 SAR CHAR REPORT		Approved by: Quality Manager
Test Dates: 06/21/2021– 09/09/2021	DUT Type: Portable Handset			APPENDIX A2: Page 11 of 23

Table A2-20
DSI = 5 P_{Limit} Calculations – NR Band n25 UMPC Body SAR

MEASUREMENT RESULTS																		
FREQUENCY		Mode	Bandwidth [MHz]	Conducted Power [dBm]	Antenna Config	MPR [dB]	Serial Number	Waveform	Modulation	RB Size	RB Offset	Spacing	MPR [dB]	Duty Cycle	SAR (1g)	Plimit	Overall Plimit	
MHz	Ch.														(W/kg)			
1882.50	376500	Mid	NR Band n25 (PCS)	40	15.36	S	0	J6211	DFT-S-OFDM	QPSK	1	214	5 mm	back	1:1	0.646	17.26	17.23
1882.50	376500	Mid	NR Band n25 (PCS)	40	15.31	S	0	J6211	DFT-S-OFDM	QPSK	108	0	5 mm	back	1:1	0.622	17.37	
1882.50	376500	Mid	NR Band n25 (PCS)	40	15.30	S	0	J6211	DFT-S-OFDM	QPSK	216	0	5 mm	back	1:1	0.641	17.23	
1882.50	376500	Mid	NR Band n25 (PCS)	40	15.46	S	0	J6211	CP-OFDM	QPSK	1	1	5 mm	back	1:1	0.608	17.62	
1882.50	376500	Mid	NR Band n25 (PCS)	40	15.36	S	0	J6211	DFT-S-OFDM	QPSK	1	214	5 mm	bottom	1:1	0.138	23.96	
1882.50	376500	Mid	NR Band n25 (PCS)	40	15.31	S	0	J6211	DFT-S-OFDM	QPSK	108	0	5 mm	bottom	1:1	0.141	23.82	
1882.50	376500	Mid	NR Band n25 (PCS)	40	15.36	S	0	J6211	DFT-S-OFDM	QPSK	1	214	5 mm	right	1:1	0.345	19.98	
1882.50	376500	Mid	NR Band n25 (PCS)	40	15.31	S	0	J6211	DFT-S-OFDM	QPSK	108	0	5 mm	right	1:1	0.365	19.69	
1882.50	376500	Mid	NR Band n25 (PCS)	40	15.32	N	0	KQ211	DFT-S-OFDM	QPSK	1	1	5 mm	back	1:1	0.524	18.13	17.71
1882.50	376500	Mid	NR Band n25 (PCS)	40	15.11	N	0	KQ211	DFT-S-OFDM	QPSK	108	0	5 mm	back	1:1	0.550	17.71	
1882.50	376500	Mid	NR Band n25 (PCS)	40	15.15	N	0	KQ211	CP-OFDM	QPSK	1	1	5 mm	back	1:1	0.508	18.09	
1882.50	376500	Mid	NR Band n25 (PCS)	40	15.32	N	0	KQ211	DFT-S-OFDM	QPSK	1	1	5 mm	top	1:1	0.253	21.29	
1882.50	376500	Mid	NR Band n25 (PCS)	40	15.11	N	0	KQ211	DFT-S-OFDM	QPSK	108	0	5 mm	top	1:1	0.258	20.99	
1882.50	376500	Mid	NR Band n25 (PCS)	40	15.32	N	0	KQ211	DFT-S-OFDM	QPSK	1	1	5 mm	right	1:1	0.258	21.20	
1882.50	376500	Mid	NR Band n25 (PCS)	40	15.11	N	0	KQ211	DFT-S-OFDM	QPSK	108	0	5 mm	right	1:1	0.266	20.86	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT						UMPC Body												
Spatial Peak						1.6 W/kg (mW/g)												
Uncontrolled Exposure/General Population						averaged over 1 gram												

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

Table A2-21
DSI = 5 P_{Limit} Calculations – NR Band n41 UMPC Body SAR

MEASUREMENT RESULTS																		
FREQUENCY		Mode	Bandwidth [MHz]	Conducted Power [dBm]	Antenna Config	MPR [dB]	Serial Number	Waveform	Modulation	RB Size	RB Offset	Spacing	MPR [dB]	Duty Cycle	SAR (1g)	Plimit	Overall Plimit	
MHz	Ch.														(W/kg)			
2592.99	518598	Mid	NR Band n41	100	15.35	S	0	LT211	DFT-S-OFDM	QPSK	1	137	5 mm	back	1:1	0.614	17.47	16.62
2592.99	518598	Mid	NR Band n41	100	15.31	S	0	LT211	DFT-S-OFDM	QPSK	135	138	5 mm	back	1:1	0.740	16.62	
2592.99	518598	Mid	NR Band n41	100	15.28	S	0	LT211	DFT-S-OFDM	QPSK	270	0	5 mm	back	1:1	0.607	17.45	
2592.99	518598	Mid	NR Band n41	100	15.10	S	0	LT211	CP-OFDM	QPSK	1	1	5 mm	back	1:1	0.578	17.48	
2592.99	518598	Mid	NR Band n41	100	15.35	S	0	LT211	DFT-S-OFDM	QPSK	1	137	5 mm	bottom	1:1	0.481	18.53	
2592.99	518598	Mid	NR Band n41	100	15.31	S	0	LT211	DFT-S-OFDM	QPSK	135	138	5 mm	bottom	1:1	0.558	17.84	
2592.99	518598	Mid	NR Band n41	100	15.28	S	0	LT211	DFT-S-OFDM	QPSK	270	0	5 mm	bottom	1:1	0.463	18.62	
2592.99	518598	Mid	NR Band n41	100	15.35	S	0	LT211	DFT-S-OFDM	QPSK	1	137	5 mm	right	1:1	0.077	26.49	
2592.99	518598	Mid	NR Band n41	100	15.31	S	0	LT211	DFT-S-OFDM	QPSK	135	138	5 mm	right	1:1	0.071	26.80	18.42
2592.99	518598	Mid	NR Band n41	100	15.82	N	0	ML211	DFT-S-OFDM	QPSK	1	137	5 mm	back	1:1	0.305	20.98	
2592.99	518598	Mid	NR Band n41	100	15.68	N	0	ML211	DFT-S-OFDM	QPSK	135	69	5 mm	back	1:1	0.404	19.62	
2592.99	518598	Mid	NR Band n41	100	15.82	N	0	ML211	DFT-S-OFDM	QPSK	1	137	5 mm	top	1:1	0.433	19.46	
2592.99	518598	Mid	NR Band n41	100	15.68	N	0	ML211	DFT-S-OFDM	QPSK	135	69	5 mm	top	1:1	0.532	18.42	
2592.99	518598	Mid	NR Band n41	100	15.63	N	0	ML211	DFT-S-OFDM	QPSK	270	0	5 mm	top	1:1	0.452	19.08	
2592.99	518598	Mid	NR Band n41	100	15.65	N	0	ML211	CP-OFDM	QPSK	1	1	5 mm	top	1:1	0.518	18.51	
2592.99	518598	Mid	NR Band n41	100	15.82	N	0	ML211	DFT-S-OFDM	QPSK	1	137	5 mm	right	1:1	0.072	27.25	
2592.99	518598	Mid	NR Band n41	100	15.68	N	0	ML211	DFT-S-OFDM	QPSK	135	69	5 mm	right	1:1	0.081	26.60	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT						UMPC Body												
Spatial Peak						1.6 W/kg (mW/g)												
Uncontrolled Exposure/General Population						averaged over 1 gram												

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

FCC ID: C3K1995	 PART 0 SAR CHAR REPORT 	Approved by: Quality Manager
Test Dates: 06/21/2021– 09/09/2021	DUT Type: Portable Handset	APPENDIX A2: Page 12 of 23

A2.2 Body Data

Table A2-22
DSI = 5 P_{Limit} Calculations – GSM 850 Body SAR

MEASUREMENT RESULTS													
FREQUENCY		Mode	Service	Conducted Power [dBm]	Spacing	Antenna Config.	Device Serial Number	# of Time Slots	Duty Cycle	Side	SAR (1g)	Plimit	Overall Plimit
MHz	Ch.										(W/kg)		
848.80	251	GSM850	GPRS	22.01	0 mm	S	GW211	2	1:4.15	back	0.421	18.61	18.61
848.80	251	GSM850	GPRS	22.01	0 mm	S	GW211	2	1:4.15	bottom	0.240	21.05	
848.80	251	GSM850	GPRS	22.01	0 mm	S	GW211	2	1:4.15	right	0.309	19.95	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population					Body 1.6 W/kg (mW/g) averaged over 1 gram								

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

Table A2-23
DSI = 5 P_{Limit} Calculations – GSM 1900 Body SAR

MEASUREMENT RESULTS													
FREQUENCY		Mode	Service	Conducted Power [dBm]	Spacing	Antenna Config.	Device Serial Number	# of Time Slots	Duty Cycle	Side	SAR (1g)	Plimit	Overall Plimit
MHz	Ch.										(W/kg)		
1880.00	661	GSM1900	GPRS	16.50	0 mm	S	GW211	2	1:4.15	back	0.379	13.55	13.55
1880.00	661	GSM1900	GPRS	16.50	0 mm	S	GW211	2	1:4.15	bottom	0.140	17.88	
1880.00	661	GSM1900	GPRS	16.50	0 mm	S	GW211	2	1:4.15	right	0.273	14.98	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population					Body 1.6 W/kg (mW/g) averaged over 1 gram								

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

Table A2-24
DSI = 5 P_{Limit} Calculations – UMTS 850 Body SAR

MEASUREMENT RESULTS												
FREQUENCY		Mode	Service	Conducted Power [dBm]	Spacing	Antenna Config.	Device Serial Number	Duty Cycle	Side	SAR (1g)	Plimit	Overall Plimit
MHz	Ch.									(W/kg)		
826.40	4132	UMTS 850	RMC	15.66	0 mm	S	LA211	1:1	back	0.526	17.48	17.27
836.60	4183	UMTS 850	RMC	15.83	0 mm	S	LA211	1:1	back	0.571	17.29	
846.60	4233	UMTS 850	RMC	15.90	0 mm	S	LA211	1:1	back	0.584	17.27	
846.60	4233	UMTS 850	RMC	15.90	0 mm	S	LA211	1:1	bottom	0.302	20.13	
846.60	4233	UMTS 850	RMC	15.90	0 mm	S	LA211	1:1	right	0.416	18.74	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population					Body 1.6 W/kg (mW/g) averaged over 1 gram							

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

FCC ID: C3K1995	 Proud to be part of 	PART 0 SAR CHAR REPORT		Approved by: Quality Manager
Test Dates: 06/21/2021– 09/09/2021	DUT Type: Portable Handset	APPENDIX A2: Page 13 of 23		

Table A2-25
DSI = 5 P_{Limit} Calculations – UMTS 1900 Body SAR

MEASUREMENT RESULTS												
FREQUENCY		Mode	Service	Conducted Power [dBm]	Spacing	Antenna Config.	Device Serial Number	Duty Cycle	Side	SAR (1g)	Plimit	Overall Plimit
MHz	Ch.									(W/kg)		
1852.40	9262	UMTS 1900	RMC	10.75	0 mm	S	HR211	1:1	back	0.514	12.67	12.37
1880.00	9400	UMTS 1900	RMC	10.89	0 mm	S	HR211	1:1	back	0.535	12.64	
1907.60	9538	UMTS 1900	RMC	10.85	0 mm	S	HR211	1:1	back	0.564	12.37	
1880.00	9400	UMTS 1900	RMC	10.89	0 mm	S	HR211	1:1	bottom	0.151	18.13	
1880.00	9400	UMTS 1900	RMC	10.89	0 mm	S	HR211	1:1	right	0.396	13.94	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population					Body 1.6 W/kg (mW/g) averaged over 1 gram							

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

Table A2-26
DSI = 5 P_{Limit} Calculations – LTE Band 71 Body SAR

MEASUREMENT RESULTS																
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit
MHz	Ch.														(W/kg)	
680.50	133297	Mid	LTE Band 71	20	16.67	0	S	KF211	QPSK	1	50	0 mm	back	1:1	0.270	21.39
680.50	133297	Mid	LTE Band 71	20	16.75	0	S	KF211	QPSK	50	25	0 mm	back	1:1	0.272	21.44
680.50	133297	Mid	LTE Band 71	20	16.67	0	S	KF211	QPSK	1	50	0 mm	bottom	1:1	0.151	23.91
680.50	133297	Mid	LTE Band 71	20	16.75	0	S	KF211	QPSK	50	25	0 mm	bottom	1:1	0.153	23.93
680.50	133297	Mid	LTE Band 71	20	16.67	0	S	KF211	QPSK	1	50	0 mm	right	1:1	0.375	19.96
680.50	133297	Mid	LTE Band 71	20	16.75	0	S	KF211	QPSK	50	25	0 mm	right	1:1	0.416	19.59
680.50	133297	Mid	LTE Band 71	20	18.21	0	N	KF211	QPSK	1	0	0 mm	back	1:1	0.318	23.19
680.50	133297	Mid	LTE Band 71	20	18.18	0	N	KF211	QPSK	50	0	0 mm	back	1:1	0.323	23.09
680.50	133297	Mid	LTE Band 71	20	18.21	0	N	KF211	QPSK	1	0	0 mm	top	1:1	0.360	22.65
680.50	133297	Mid	LTE Band 71	20	18.18	0	N	KF211	QPSK	50	0	0 mm	top	1:1	0.438	21.77
680.50	133297	Mid	LTE Band 71	20	18.21	0	N	KF211	QPSK	1	0	0 mm	right	1:1	0.373	22.49
680.50	133297	Mid	LTE Band 71	20	18.18	0	N	KF211	QPSK	50	0	0 mm	right	1:1	0.374	22.45
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						Body 1.6 W/kg (mW/g) averaged over 1 gram										

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

FCC ID: C3K1995	 PCTEST Proud to be part of element	PART 0 SAR CHAR REPORT	 Microsoft	Approved by: Quality Manager
Test Dates: 06/21/2021– 09/09/2021	DUT Type: Portable Handset	APPENDIX A2: Page 14 of 23		

Table A2-27
DSI = 5 P_{Limit} Calculations – LTE Band 12 Body SAR

MEASUREMENT RESULTS																	
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Overall Plimit
															(W/kg)		
707.50	23095	Mid	LTE Band 12	10	17.26	0	S	KF211	QPSK	1	0	0 mm	back	1:1	0.347	20.89	20.03
707.50	23095	Mid	LTE Band 12	10	17.45	0	S	KF211	QPSK	25	0	0 mm	back	1:1	0.356	20.97	
707.50	23095	Mid	LTE Band 12	10	17.26	0	S	KF211	QPSK	1	0	0 mm	bottom	1:1	0.236	22.56	
707.50	23095	Mid	LTE Band 12	10	17.45	0	S	KF211	QPSK	25	0	0 mm	bottom	1:1	0.242	22.64	
707.50	23095	Mid	LTE Band 12	10	17.26	0	S	KF211	QPSK	1	0	0 mm	right	1:1	0.379	20.50	
707.50	23095	Mid	LTE Band 12	10	17.45	0	S	KF211	QPSK	25	0	0 mm	right	1:1	0.442	20.03	
707.50	23095	Mid	LTE Band 12	10	17.25	0	N	KF211	QPSK	1	0	0 mm	back	1:1	0.348	21.83	20.89
707.50	23095	Mid	LTE Band 12	10	17.28	0	N	KF211	QPSK	25	0	0 mm	back	1:1	0.343	21.93	
707.50	23095	Mid	LTE Band 12	10	17.25	0	N	KF211	QPSK	1	0	0 mm	top	1:1	0.378	21.48	
707.50	23095	Mid	LTE Band 12	10	17.28	0	N	KF211	QPSK	25	0	0 mm	top	1:1	0.436	20.89	
707.50	23095	Mid	LTE Band 12	10	17.25	0	N	KF211	QPSK	1	0	0 mm	right	1:1	0.317	22.24	
707.50	23095	Mid	LTE Band 12	10	17.28	0	N	KF211	QPSK	25	0	0 mm	right	1:1	0.351	21.83	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT																	
Spatial Peak						Body											
Uncontrolled Exposure/General Population						1.6 W/kg (mW/g) averaged over 1 gram											

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

Table A2-28
DSI = 5 P_{Limit} Calculations – LTE Band 13 Body SAR

MEASUREMENT RESULTS																	
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Overall Plimit
MHz	Ch.														(W/kg)		
782.00	23230	Mid	LTE Band 13	10	16.05	0	S	KF211	QPSK	1	0	0 mm	back	1:1	0.325	19.96	18.76
782.00	23230	Mid	LTE Band 13	10	16.20	0	S	KF211	QPSK	25	0	0 mm	back	1:1	0.341	19.90	
782.00	23230	Mid	LTE Band 13	10	16.05	0	S	KF211	QPSK	1	0	0 mm	bottom	1:1	0.279	20.62	
782.00	23230	Mid	LTE Band 13	10	16.20	0	S	KF211	QPSK	25	0	0 mm	bottom	1:1	0.284	20.70	
782.00	23230	Mid	LTE Band 13	10	16.05	0	S	KF211	QPSK	1	0	0 mm	right	1:1	0.373	19.36	
782.00	23230	Mid	LTE Band 13	10	16.20	0	S	KF211	QPSK	25	0	0 mm	right	1:1	0.444	18.76	
782.00	23230	Mid	LTE Band 13	10	17.59	0	N	M1211	QPSK	1	0	0 mm	back	1:1	0.462	20.94	20.44
782.00	23230	Mid	LTE Band 13	10	17.78	0	N	M1211	QPSK	25	0	0 mm	back	1:1	0.542	20.44	
782.00	23230	Mid	LTE Band 13	10	17.59	0	N	M1211	QPSK	1	0	0 mm	top	1:1	0.437	21.19	
782.00	23230	Mid	LTE Band 13	10	17.78	0	N	M1211	QPSK	25	0	0 mm	top	1:1	0.463	21.12	
782.00	23230	Mid	LTE Band 13	10	17.59	0	N	M1211	QPSK	1	0	0 mm	right	1:1	0.388	21.70	
782.00	23230	Mid	LTE Band 13	10	17.78	0	N	M1211	QPSK	25	0	0 mm	right	1:1	0.442	21.33	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						Body 1.6 W/kg (mW/g) averaged over 1 gram											

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

FCC ID: C3K1995	 Proud to be part of 	PART 0 SAR CHAR REPORT		Approved by: Quality Manager
Test Dates: 06/21/2021– 09/09/2021	DUT Type: Portable Handset	APPENDIX A2: Page 15 of 23		

Table A2-29
DSI = 5 P_{Limit} Calculations – LTE Band 14 Body SAR

MEASUREMENT RESULTS																	
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Overall Plimit
															(W/kg)		
793.00	23330	Mid	LTE Band 14	10	16.35	0	S	KF211	QPSK	1	0	0 mm	back	1:1	0.407	19.28	19.22
793.00	23330	Mid	LTE Band 14	10	16.26	0	S	KF211	QPSK	25	0	0 mm	back	1:1	0.405	19.22	
793.00	23330	Mid	LTE Band 14	10	16.35	0	S	KF211	QPSK	1	0	0 mm	bottom	1:1	0.271	21.05	
793.00	23330	Mid	LTE Band 14	10	16.26	0	S	KF211	QPSK	25	0	0 mm	bottom	1:1	0.270	20.98	
793.00	23330	Mid	LTE Band 14	10	16.35	0	S	KF211	QPSK	1	0	0 mm	right	1:1	0.302	20.58	
793.00	23330	Mid	LTE Band 14	10	16.26	0	S	KF211	QPSK	25	0	0 mm	right	1:1	0.313	20.34	
793.00	23330	Mid	LTE Band 14	10	17.09	0	N	M1211	QPSK	1	0	0 mm	back	1:1	0.397	21.10	20.38
793.00	23330	Mid	LTE Band 14	10	17.02	0	N	M1211	QPSK	25	0	0 mm	back	1:1	0.379	21.23	
793.00	23330	Mid	LTE Band 14	10	17.09	0	N	M1211	QPSK	1	0	0 mm	top	1:1	0.453	20.53	
793.00	23330	Mid	LTE Band 14	10	17.02	0	N	M1211	QPSK	25	0	0 mm	top	1:1	0.461	20.38	
793.00	23330	Mid	LTE Band 14	10	17.09	0	N	M1211	QPSK	1	0	0 mm	right	1:1	0.259	22.96	
793.00	23330	Mid	LTE Band 14	10	17.02	0	N	M1211	QPSK	25	0	0 mm	right	1:1	0.276	22.61	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT																	
Spatial Peak						Body											
Uncontrolled Exposure/General Population						1.6 W/kg (mW/g)											
						averaged over 1 gram											

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

Table A2-30
DSI = 5 P_{Limit} Calculations – LTE Band 26 (Cell) Body SAR

MEASUREMENT RESULTS																	
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Overall Plimit
MHz	Ch.														(W/kg)		
831.50	26865	Mid	LTE Band 26 (Cell)	15	15.58	0	S	LT211	QPSK	1	74	0 mm	back	1:1	0.510	17.54	17.48
831.50	26865	Mid	LTE Band 26 (Cell)	15	15.79	0	S	LT211	QPSK	36	37	0 mm	back	1:1	0.542	17.48	
831.50	26865	Mid	LTE Band 26 (Cell)	15	15.58	0	S	LT211	QPSK	1	74	0 mm	bottom	1:1	0.311	19.68	
831.50	26865	Mid	LTE Band 26 (Cell)	15	15.79	0	S	LT211	QPSK	36	37	0 mm	bottom	1:1	0.324	19.72	
831.50	26865	Mid	LTE Band 26 (Cell)	15	15.58	0	S	LT211	QPSK	1	74	0 mm	right	1:1	0.340	19.30	
831.50	26865	Mid	LTE Band 26 (Cell)	15	15.79	0	S	LT211	QPSK	36	37	0 mm	right	1:1	0.374	19.09	
831.50	26865	Mid	LTE Band 26 (Cell)	15	15.92	0	N	X5212	QPSK	1	74	0 mm	back	1:1	0.150	24.16	23.81
831.50	26865	Mid	LTE Band 26 (Cell)	15	15.98	0	N	X5212	QPSK	36	37	0 mm	back	1:1	0.165	23.81	
831.50	26865	Mid	LTE Band 26 (Cell)	15	15.92	0	N	X5212	QPSK	1	74	0 mm	top	1:1	0.151	24.13	
831.50	26865	Mid	LTE Band 26 (Cell)	15	15.98	0	N	X5212	QPSK	36	37	0 mm	top	1:1	0.162	23.88	
831.50	26865	Mid	LTE Band 26 (Cell)	15	15.92	0	N	X5212	QPSK	1	74	0 mm	right	1:1	0.097	26.05	
831.50	26865	Mid	LTE Band 26 (Cell)	15	15.98	0	N	X5212	QPSK	36	37	0 mm	right	1:1	0.100	25.98	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT						Body 1.6 W/kg (mW/g) averaged over 1 gram											
Spatial Peak																	
Uncontrolled Exposure/General Population																	

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

FCC ID: C3K1995	 Proud to be part of 	PART 0 SAR CHAR REPORT	 Microsoft	Approved by: Quality Manager
Test Dates: 06/21/2021– 09/09/2021	DUT Type: Portable Handset	APPENDIX A2: Page 16 of 23		

Table A2-31
DSI = 5 P_{Limit} Calculations – LTE Band 5 (Cell) Body SAR

MEASUREMENT RESULTS																
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Overall Plimit
MHz	Ch.														(W/kg)	
836.50	20525	Mid	LTE Band 5 (Cell)	10	15.74	0	S	X5212	QPSK	1	49	0 mm	back	1:1	0.493	0.01
836.50	20525	Mid	LTE Band 5 (Cell)	10	15.91	0	S	X5212	QPSK	25	25	0 mm	back	1:1	0.512	
836.50	20525	Mid	LTE Band 5 (Cell)	10	15.74	0	S	X5212	QPSK	1	49	0 mm	bottom	1:1	0.259	
836.50	20525	Mid	LTE Band 5 (Cell)	10	15.91	0	S	X5212	QPSK	25	25	0 mm	bottom	1:1	0.275	
836.50	20525	Mid	LTE Band 5 (Cell)	10	15.74	0	S	X5212	QPSK	1	49	0 mm	right	1:1	0.275	
836.50	20525	Mid	LTE Band 5 (Cell)	10	15.91	0	S	X5212	QPSK	25	25	0 mm	right	1:1	0.292	
836.50	20525	Mid	LTE Band 5 (Cell)	10	15.85	0	N	X5212	QPSK	1	0	0 mm	back	1:1	0.499	18.87
836.50	20525	Mid	LTE Band 5 (Cell)	10	15.95	0	N	X5212	QPSK	1	25	0 mm	back	1:1	0.505	
836.50	20525	Mid	LTE Band 5 (Cell)	10	16.11	0	N	X5212	QPSK	25	25	0 mm	back	1:1	0.506	
836.50	20525	Mid	LTE Band 5 (Cell)	10	15.95	0	N	X5212	QPSK	1	25	0 mm	top	1:1	0.328	
836.50	20525	Mid	LTE Band 5 (Cell)	10	16.11	0	N	X5212	QPSK	25	25	0 mm	top	1:1	0.331	
836.50	20525	Mid	LTE Band 5 (Cell)	10	15.95	0	N	X5212	QPSK	1	25	0 mm	right	1:1	0.299	
836.50	20525	Mid	LTE Band 5 (Cell)	10	16.11	0	N	X5212	QPSK	25	25	0 mm	right	1:1	0.295	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						Body 1.6 W/kg (mW/g) averaged over 1 gram										

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

Table A2-32
DSI = 5 P_{Limit} Calculations – LTE Band 66 (AWS) Body SAR

MEASUREMENT RESULTS																	
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Overall Plimit
MHz	Ch.														(W/kg)		
1720.00	132072	Low	LTE Band 66 (AWS)	20	9.74	0	S	LT211	QPSK	1	0	0 mm	back	1:1	0.424	12.50	11.87
1745.00	132322	Mid	LTE Band 66 (AWS)	20	9.70	0	S	LT211	QPSK	1	0	0 mm	back	1:1	0.454	12.16	
1770.00	132572	High	LTE Band 66 (AWS)	20	9.58	0	S	LT211	QPSK	1	0	0 mm	back	1:1	0.472	11.87	
1720.00	132072	Low	LTE Band 66 (AWS)	20	9.91	0	S	LT211	QPSK	50	25	0 mm	back	1:1	0.440	12.51	
1720.00	132072	Low	LTE Band 66 (AWS)	20	9.74	0	S	LT211	QPSK	1	0	0 mm	bottom	1:1	0.190	15.98	
1720.00	132072	Low	LTE Band 66 (AWS)	20	9.91	0	S	LT211	QPSK	50	25	0 mm	bottom	1:1	0.204	15.84	
1720.00	132072	Low	LTE Band 66 (AWS)	20	9.74	0	S	LT211	QPSK	1	0	0 mm	right	1:1	0.286	14.21	
1720.00	132072	Low	LTE Band 66 (AWS)	20	9.91	0	S	LT211	QPSK	50	25	0 mm	right	1:1	0.286	14.38	
1720.00	132072	Low	LTE Band 66 (AWS)	20	11.06	0	N	LT211	QPSK	1	0	0 mm	back	1:1	0.464	14.39	14.38
1720.00	132072	Low	LTE Band 66 (AWS)	20	11.14	0	N	LT211	QPSK	50	0	0 mm	back	1:1	0.474	14.38	
1720.00	132072	Low	LTE Band 66 (AWS)	20	11.09	0	N	LT211	QPSK	50	50	0 mm	back	1:1	0.423	14.83	
1720.00	132072	Low	LTE Band 66 (AWS)	20	11.06	0	N	LT211	QPSK	1	0	0 mm	top	1:1	0.310	16.15	
1720.00	132072	Low	LTE Band 66 (AWS)	20	11.14	0	N	LT211	QPSK	50	0	0 mm	top	1:1	0.310	16.23	
1720.00	132072	Low	LTE Band 66 (AWS)	20	11.06	0	N	LT211	QPSK	1	0	0 mm	right	1:1	0.308	16.17	
1720.00	132072	Low	LTE Band 66 (AWS)	20	11.14	0	N	LT211	QPSK	50	0	0 mm	right	1:1	0.306	16.28	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT																	
Spatial Peak						Body											
Uncontrolled Exposure/General Population						1.6 W/kg (mW/g) averaged over 1 gram											

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

FCC ID: C3K1995	 Proud to be part of 	PART 0 SAR CHAR REPORT		Approved by: Quality Manager
Test Dates: 06/21/2021– 09/09/2021	DUT Type: Portable Handset	APPENDIX A2: Page 17 of 23		

Table A2-33
DSI = 5 P_{Limit} Calculations – LTE Band 25 (PCS) Body SAR

MEASUREMENT RESULTS																	
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Overall Plimit
MHz	Ch.														(W/kg)		
1882.50	26365	Mid	LTE Band 25 (PCS)	20	10.26	0	S	X5212	QPSK	1	99	0 mm	back	1.1	0.498	12.32	12.11
1860.00	26140	Low	LTE Band 25 (PCS)	20	10.20	0	S	X5212	QPSK	50	50	0 mm	back	1.1	0.513	12.13	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	10.26	0	S	X5212	QPSK	50	50	0 mm	back	1.1	0.512	12.20	
1905.00	26590	High	LTE Band 25 (PCS)	20	10.23	0	S	X5212	QPSK	50	0	0 mm	back	1.1	0.519	12.11	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	10.26	0	S	X5212	QPSK	1	99	0 mm	bottom	1.1	0.134	18.02	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	10.26	0	S	X5212	QPSK	50	50	0 mm	bottom	1.1	0.140	17.83	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	10.26	0	S	X5212	QPSK	1	99	0 mm	right	1.1	0.350	13.85	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	10.26	0	S	X5212	QPSK	50	50	0 mm	right	1.1	0.374	13.56	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	11.50	0	N	M1211	QPSK	1	99	0 mm	back	1.1	0.442	15.05	14.80
1882.50	26365	Mid	LTE Band 25 (PCS)	20	11.27	0	N	M1211	QPSK	50	25	0 mm	back	1.1	0.444	14.80	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	11.50	0	N	M1211	QPSK	1	99	0 mm	top	1.1	0.360	15.94	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	11.27	0	N	M1211	QPSK	50	25	0 mm	top	1.1	0.357	15.74	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	11.50	0	N	M1211	QPSK	1	99	0 mm	right	1.1	0.314	16.53	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	11.27	0	N	M1211	QPSK	50	25	0 mm	right	1.1	0.310	16.36	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT						Body											
Spatial Peak						1.6 W/kg (mW/g)											
Uncontrolled Exposure/General Population						averaged over 1 gram											

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

Table A2-34
DSI = 5 P_{Limit} Calculations – LTE Band 30 Body SAR

MEASUREMENT RESULTS																	
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Overall Plimit
															(W/kg)		
2310.00	27710	Mid	LTE Band 30	10	9.73	0	S	LT211	QPSK	1	49	0 mm	back	1:1	0.506	11.72	11.72
2310.00	27710	Mid	LTE Band 30	10	9.68	0	S	LT211	QPSK	25	12	0 mm	back	1:1	0.493	11.78	
2310.00	27710	Mid	LTE Band 30	10	9.73	0	S	LT211	QPSK	1	49	0 mm	bottom	1:1	0.272	14.42	
2310.00	27710	Mid	LTE Band 30	10	9.68	0	S	LT211	QPSK	25	12	0 mm	bottom	1:1	0.277	14.29	
2310.00	27710	Mid	LTE Band 30	10	9.73	0	S	LT211	QPSK	1	49	0 mm	right	1:1	0.141	17.27	
2310.00	27710	Mid	LTE Band 30	10	9.68	0	S	LT211	QPSK	25	12	0 mm	right	1:1	0.144	17.13	
2310.00	27710	Mid	LTE Band 30	10	12.06	0	N	M1211	QPSK	1	0	0 mm	back	1:1	0.415	15.88	15.56
2310.00	27710	Mid	LTE Band 30	10	12.09	0	N	M1211	QPSK	25	12	0 mm	back	1:1	0.450	15.56	
2310.00	27710	Mid	LTE Band 30	10	12.06	0	N	M1211	QPSK	1	0	0 mm	top	1:1	0.446	15.57	
2310.00	27710	Mid	LTE Band 30	10	12.09	0	N	M1211	QPSK	25	12	0 mm	top	1:1	0.420	15.86	
2310.00	27710	Mid	LTE Band 30	10	12.06	0	N	M1211	QPSK	1	0	0 mm	right	1:1	0.225	18.54	
2310.00	27710	Mid	LTE Band 30	10	12.09	0	N	M1211	QPSK	25	12	0 mm	right	1:1	0.208	18.91	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						Body 1.6 W/kg (mW/g) averaged over 1 gram											

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

FCC ID: C3K1995	 PART 0 SAR CHAR REPORT 	Approved by: Quality Manager
Test Dates: 06/21/2021– 09/09/2021	DUT Type: Portable Handset	APPENDIX A2: Page 18 of 23

Table A2-35
DSI = 5 P_{Limit} Calculations – LTE Band 7 Body SAR

MEASUREMENT RESULTS																	
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Overall Plimit
															(W/kg)		
2510.00	20850	Low	LTE Band 7	20	8.41	0	S	LT211	QPSK	1	0	0 mm	back	1:1	0.526	10.23	10.14
2510.00	20850	Low	LTE Band 7	20	8.45	0	S	LT211	QPSK	50	25	0 mm	back	1:1	0.542	10.14	
2510.00	20850	Low	LTE Band 7	20	8.44	0	S	LT211	QPSK	50	50	0 mm	back	1:1	0.508	10.41	
2535.00	21100	Mid	LTE Band 7	20	8.24	0	S	LT211	QPSK	50	0	0 mm	back	1:1	0.490	10.37	
2560.00	21350	High	LTE Band 7	20	8.15	0	S	LT211	QPSK	50	50	0 mm	back	1:1	0.489	10.29	
2510.00	20850	Low	LTE Band 7	20	8.41	0	S	LT211	QPSK	1	0	0 mm	bottom	1:1	0.382	11.62	
2510.00	20850	Low	LTE Band 7	20	8.45	0	S	LT211	QPSK	50	25	0 mm	bottom	1:1	0.416	11.29	
2510.00	20850	Low	LTE Band 7	20	8.41	0	S	LT211	QPSK	1	0	0 mm	right	1:1	0.083	18.25	
2510.00	20850	Low	LTE Band 7	20	8.45	0	S	LT211	QPSK	50	25	0 mm	right	1:1	0.084	18.24	
2510.00	20850	Low	LTE Band 7	20	9.53	0	N	M1211	QPSK	1	0	0 mm	back	1:1	0.277	15.11	14.78
2510.00	20850	Low	LTE Band 7	20	9.46	0	N	M1211	QPSK	50	50	0 mm	back	1:1	0.294	14.78	
2510.00	20850	Low	LTE Band 7	20	9.53	0	N	M1211	QPSK	1	0	0 mm	top	1:1	0.253	15.50	
2510.00	20850	Low	LTE Band 7	20	9.46	0	N	M1211	QPSK	50	50	0 mm	top	1:1	0.271	15.13	
2510.00	20850	Low	LTE Band 7	20	9.53	0	N	M1211	QPSK	1	0	0 mm	right	1:1	0.113	19.00	
2510.00	20850	Low	LTE Band 7	20	9.46	0	N	M1211	QPSK	50	50	0 mm	right	1:1	0.120	18.67	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT						Body 1.6 W/kg (mW/g) averaged over 1 gram											
Spatial Peak																	
Uncontrolled Exposure/General Population																	

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

FCC ID: C3K1995		PART 0 SAR CHAR REPORT		Approved by: Quality Manager
Test Dates: 06/21/2021– 09/09/2021	DUT Type: Portable Handset			APPENDIX A2: Page 19 of 23

Table A2-36
DSI = 5 P_{Limit} Calculations – LTE Band 41 Body SAR

MEASUREMENT RESULTS																	
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Overall Plimit
MHz	Ch.														(W/kg)		
2506.00	39750	Low	LTE Band 41	20	10.37	0	S	HR211	QPSK	1	50	0 mm	back	1:1.58	0.524	10.22	9.69
2549.50	40185	Low-Mid	LTE Band 41	20	10.13	0	S	HR211	QPSK	1	0	0 mm	back	1:1.58	0.543	9.83	
2593.00	40620	Mid	LTE Band 41	20	10.50	0	S	HR211	QPSK	1	0	0 mm	back	1:1.58	0.586	9.87	
2636.50	41055	Mid-High	LTE Band 41	20	10.30	0	S	HR211	QPSK	1	0	0 mm	back	1:1.58	0.583	9.69	
2680.00	41490	High	LTE Band 41	20	10.41	0	S	HR211	QPSK	1	0	0 mm	back	1:1.58	0.558	9.99	
2506.00	39750	Low	LTE Band 41	20	10.26	0	S	HR211	QPSK	50	25	0 mm	back	1:1.58	0.542	9.97	
2549.50	40185	Low-Mid	LTE Band 41	20	10.29	0	S	HR211	QPSK	50	50	0 mm	back	1:1.58	0.522	10.16	
2593.00	40620	Mid	LTE Band 41	20	10.58	0	S	HR211	QPSK	50	50	0 mm	back	1:1.58	0.611	9.76	
2636.50	41055	Mid-High	LTE Band 41	20	10.42	0	S	HR211	QPSK	50	25	0 mm	back	1:1.58	0.558	10.00	
2680.00	41490	High	LTE Band 41	20	10.45	0	S	HR211	QPSK	50	25	0 mm	back	1:1.58	0.579	9.87	
2593.00	40620	Mid	LTE Band 41	20	10.49	0	S	HR211	QPSK	100	0	0 mm	back	1:1.58	0.560	10.05	
2593.00	40620	Mid	LTE Band 41	20	10.50	0	S	HR211	QPSK	1	0	0 mm	bottom	1:1.58	0.437	11.14	
2593.00	40620	Mid	LTE Band 41	20	10.58	0	S	HR211	QPSK	50	50	0 mm	bottom	1:1.58	0.444	11.15	
2593.00	40620	Mid	LTE Band 41	20	10.50	0	S	HR211	QPSK	1	0	0 mm	right	1:1.58	0.084	18.30	
2593.00	40620	Mid	LTE Band 41	20	10.58	0	S	HR211	QPSK	50	50	0 mm	right	1:1.58	0.085	18.33	
2506.00	39750	Low	LTE Band 41	20	10.66	0	N	X5212	QPSK	1	0	0 mm	back	1:1.58	0.392	12.74	11.83
2549.50	40185	Low-Mid	LTE Band 41	20	10.63	0	N	X5212	QPSK	1	0	0 mm	back	1:1.58	0.366	13.01	
2593.00	40620	Mid	LTE Band 41	20	10.87	0	N	X5212	QPSK	1	0	0 mm	back	1:1.58	0.383	13.05	
2636.50	41055	Mid-High	LTE Band 41	20	11.20	0	N	X5212	QPSK	1	0	0 mm	back	1:1.58	0.546	11.84	
2680.00	41490	High	LTE Band 41	20	11.21	0	N	X5212	QPSK	1	0	0 mm	back	1:1.58	0.543	11.88	
2506.00	39750	Low	LTE Band 41	20	10.70	0	N	X5212	QPSK	50	25	0 mm	back	1:1.58	0.401	12.68	
2549.50	40185	Low-Mid	LTE Band 41	20	10.83	0	N	X5212	QPSK	50	0	0 mm	back	1:1.58	0.374	13.12	
2593.00	40620	Mid	LTE Band 41	20	10.83	0	N	X5212	QPSK	50	25	0 mm	back	1:1.58	0.384	13.00	
2636.50	41055	Mid-High	LTE Band 41	20	11.09	0	N	X5212	QPSK	50	25	0 mm	back	1:1.58	0.530	11.86	
2680.00	41490	High	LTE Band 41	20	11.07	0	N	X5212	QPSK	50	0	0 mm	back	1:1.58	0.512	11.99	
2680.00	41490	High	LTE Band 41	20	11.10	0	N	X5212	QPSK	50	25	0 mm	back	1:1.58	0.535	11.83	
2680.00	41490	High	LTE Band 41	20	11.09	0	N	X5212	QPSK	100	0	0 mm	back	1:1.58	0.531	11.85	
2680.00	41490	High	LTE Band 41	20	11.21	0	N	X5212	QPSK	1	0	0 mm	top	1:1.58	0.438	12.81	
2680.00	41490	High	LTE Band 41	20	11.10	0	N	X5212	QPSK	50	25	0 mm	top	1:1.58	0.428	12.80	
2680.00	41490	High	LTE Band 41	20	11.21	0	N	X5212	QPSK	1	0	0 mm	right	1:1.58	0.066	21.03	
2680.00	41490	High	LTE Band 41	20	11.10	0	N	X5212	QPSK	50	25	0 mm	right	1:1.58	0.064	21.05	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT						Body											
Spatial Peak						1.6 W/kg (mW/g)											
Uncontrolled Exposure/General Population						averaged over 1 gram											

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

FCC ID: C3K1995		PART 0 SAR CHAR REPORT		Approved by:
Test Dates: 06/21/2021– 09/09/2021	DUT Type: Portable Handset			Quality Manager
APPENDIX A2: Page 20 of 23				

Table A2-37
DSI = 5 P_{Limit} Calculations – LTE Band 48 Body SAR

MEASUREMENT RESULTS																	
FREQUENCY			Mode	Bandwidth [MHz]	Conducted Power [dBm]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Overall Plimit
MHz	Ch.														(W/kg)		
3646.70	56207	Mid-High	LTE Band 48	20	11.03	0	S	LB211	QPSK	1	99	0 mm	back	1:1.58	0.480	11.26	11.08
3646.70	56207	Mid-High	LTE Band 48	20	11.19	0	S	LB211	QPSK	50	25	0 mm	back	1:1.58	0.519	11.08	
3646.70	56207	Mid-High	LTE Band 48	20	11.10	0	S	LB211	QPSK	50	50	0 mm	back	1:1.58	0.507	11.10	
3646.70	56207	Mid-High	LTE Band 48	20	11.03	0	S	LB211	QPSK	1	99	0 mm	bottom	1:1.58	0.388	12.19	
3646.70	56207	Mid-High	LTE Band 48	20	11.19	0	S	LB211	QPSK	50	25	0 mm	bottom	1:1.58	0.407	12.14	
3646.70	56207	Mid-High	LTE Band 48	20	11.03	0	S	LB211	QPSK	1	99	0 mm	right	1:1.58	0.178	15.57	
3646.70	56207	Mid-High	LTE Band 48	20	11.19	0	S	LB211	QPSK	50	25	0 mm	right	1:1.58	0.171	15.90	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT						Body											
Spatial Peak						1.6 W/kg (mW/g)											
Uncontrolled Exposure/General Population						averaged over 1 gram											

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

Table A2-38
DSI = 5 P_{Limit} Calculations – NR Band n71 Body SAR

MEASUREMENT RESULTS																		
FREQUENCY		Mode	Bandwidth [MHz]	Conducted Power [dBm]	Antenna Config	MPR [dB]	Serial Number	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Overall Plimit	
MHz	Ch.														(W/kg)			
680.50	136100	Mid	NR Band n71	20	17.51	S	0.0	LT211	DFT-S-OFDM	QPSK	1	1	0 mm	back	1:1	0.527	19.32	19.26
680.50	136100	Mid	NR Band n71	20	17.18	S	0.0	LT211	DFT-S-OFDM	QPSK	50	28	0 mm	back	1:1	0.495	19.26	
680.50	136100	Mid	NR Band n71	20	17.33	S	0.0	LT211	CP-OFDM	QPSK	1	1	0 mm	back	1:1	0.508	19.30	
680.50	136100	Mid	NR Band n71	20	17.51	S	0.0	LT211	DFT-S-OFDM	QPSK	1	1	0 mm	bottom	1:1	0.217	23.18	
680.50	136100	Mid	NR Band n71	20	17.18	S	0.0	LT211	DFT-S-OFDM	QPSK	50	28	0 mm	bottom	1:1	0.227	22.65	
680.50	136100	Mid	NR Band n71	20	17.51	S	0.0	LT211	DFT-S-OFDM	QPSK	1	1	0 mm	right	1:1	0.354	21.05	
680.50	136100	Mid	NR Band n71	20	17.18	S	0.0	LT211	DFT-S-OFDM	QPSK	50	28	0 mm	right	1:1	0.404	20.15	
680.50	136100	Mid	NR Band n71	20	18.41	N	0.0	M6211	DFT-S-OFDM	QPSK	1	53	0 mm	back	1:1	0.401	21.41	21.41
680.50	136100	Mid	NR Band n71	20	18.41	N	0.0	M6211	DFT-S-OFDM	QPSK	50	28	0 mm	back	1:1	0.332	22.23	
680.50	136100	Mid	NR Band n71	20	18.19	N	0.0	M6211	CP-OFDM	QPSK	1	1	0 mm	back	1:1	0.324	22.12	
680.50	136100	Mid	NR Band n71	20	18.41	N	0.0	M6211	DFT-S-OFDM	QPSK	1	53	0 mm	top	1:1	0.330	22.26	
680.50	136100	Mid	NR Band n71	20	18.41	N	0.0	M6211	DFT-S-OFDM	QPSK	50	28	0 mm	top	1:1	0.339	22.14	
680.50	136100	Mid	NR Band n71	20	18.41	N	0.0	M6211	DFT-S-OFDM	QPSK	1	53	0 mm	right	1:1	0.300	22.67	
680.50	136100	Mid	NR Band n71	20	18.41	N	0.0	M6211	DFT-S-OFDM	QPSK	50	28	0 mm	right	1:1	0.303	22.63	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							Body 1.6 W/kg (mW/g) averaged over 1 gram											

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

FCC ID: C3K1995	 PART 0 SAR CHAR REPORT 	Approved by: Quality Manager
Test Dates: 06/21/2021– 09/09/2021	DUT Type: Portable Handset	APPENDIX A2: Page 21 of 23

Table A2-39
DSI = 5 P_{Limit} Calculations – NR Band n5 (Cell) Body SAR

MEASUREMENT RESULTS																		
FREQUENCY		Mode	Bandwidth [MHz]	Conducted Power [dBm]	Antenna Config	MPR [dB]	Serial Number	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Overall Plimit	
MHz	Ch.														(W/kg)			
836.50	167300	Mid	NR Band n5 (Cell)	20	16.15	S	0.0	GL211	DFT-S-OFDM	QPSK	1	104	0 mm	back	1:1	0.512	18.09	17.68
836.50	167300	Mid	NR Band n5 (Cell)	20	16.00	S	0.0	GL211	DFT-S-OFDM	QPSK	50	56	0 mm	back	1:1	0.543	17.68	
836.50	167300	Mid	NR Band n5 (Cell)	20	15.78	S	0.0	GL211	CP-OFDM	QPSK	1	1	0 mm	back	1:1	0.517	17.68	
836.50	167300	Mid	NR Band n5 (Cell)	20	16.15	S	0.0	GL211	DFT-S-OFDM	QPSK	1	104	0 mm	bottom	1:1	0.280	20.71	
836.50	167300	Mid	NR Band n5 (Cell)	20	16.00	S	0.0	GL211	DFT-S-OFDM	QPSK	50	56	0 mm	bottom	1:1	0.287	20.45	
836.50	167300	Mid	NR Band n5 (Cell)	20	16.15	S	0.0	GL211	DFT-S-OFDM	QPSK	1	104	0 mm	right	1:1	0.268	20.90	
836.50	167300	Mid	NR Band n5 (Cell)	20	16.00	S	0.0	GL211	DFT-S-OFDM	QPSK	50	56	0 mm	right	1:1	0.235	21.32	19.03
836.50	167300	Mid	NR Band n5 (Cell)	20	16.88	N	0.0	L8211	DFT-S-OFDM	QPSK	1	104	0 mm	back	1:1	0.433	19.55	
836.50	167300	Mid	NR Band n5 (Cell)	20	16.73	N	0.0	L8211	DFT-S-OFDM	QPSK	50	56	0 mm	back	1:1	0.407	19.66	
836.50	167300	Mid	NR Band n5 (Cell)	20	16.73	N	0.0	L8211	CP-OFDM	QPSK	1	1	0 mm	back	1:1	0.471	19.03	
836.50	167300	Mid	NR Band n5 (Cell)	20	16.88	N	0.0	L8211	DFT-S-OFDM	QPSK	1	104	0 mm	top	1:1	0.230	22.29	
836.50	167300	Mid	NR Band n5 (Cell)	20	16.73	N	0.0	L8211	DFT-S-OFDM	QPSK	50	56	0 mm	top	1:1	0.259	21.63	
836.50	167300	Mid	NR Band n5 (Cell)	20	16.88	N	0.0	L8211	DFT-S-OFDM	QPSK	1	104	0 mm	right	1:1	0.240	22.11	
836.50	167300	Mid	NR Band n5 (Cell)	20	16.73	N	0.0	L8211	DFT-S-OFDM	QPSK	50	56	0 mm	right	1:1	0.250	21.78	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT						Body												
Spatial Peak						1.6 W/kg (mW/g)												
Uncontrolled Exposure/General Population						averaged over 1 gram												

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

Table A2-40
DSI = 5 P_{Limit} Calculations – NR Band n66 (AWS) Body SAR

MEASUREMENT RESULTS																		
FREQUENCY		Mode	Bandwidth [MHz]	Conducted Power [dBm]	Antenna Config	MPR [dB]	Serial Number	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Plimit	Overall Plimit	
MHz	Ch.														(W/kg)			
1745.00	349000	Mid	NR Band n66 (AWS)	40	10.82	S	0	KQ211	DFT-S-OFDM	QPSK	1	108	0 mm	back	1:1	0.540	12.53	12.20
1745.00	349000	Mid	NR Band n66 (AWS)	40	10.80	S	0	KQ211	DFT-S-OFDM	QPSK	108	54	0 mm	back	1:1	0.580	12.20	
1745.00	349000	Mid	NR Band n66 (AWS)	40	10.45	S	0	KQ211	CP-OFDM	QPSK	1	1	0 mm	back	1:1	0.496	12.53	
1745.00	349000	Mid	NR Band n66 (AWS)	40	10.82	S	0	KQ211	DFT-S-OFDM	QPSK	1	108	0 mm	bottom	1:1	0.276	15.44	
1745.00	349000	Mid	NR Band n66 (AWS)	40	10.80	S	0	KQ211	DFT-S-OFDM	QPSK	108	54	0 mm	bottom	1:1	0.280	15.36	
1745.00	349000	Mid	NR Band n66 (AWS)	40	10.82	S	0	KQ211	DFT-S-OFDM	QPSK	1	108	0 mm	right	1:1	0.329	14.68	
1745.00	349000	Mid	NR Band n66 (AWS)	40	10.80	S	0	KQ211	DFT-S-OFDM	QPSK	108	54	0 mm	right	1:1	0.332	14.62	13.35
1745.00	349000	Mid	NR Band n66 (AWS)	40	11.19	N	0	H7211	DFT-S-OFDM	QPSK	1	108	0 mm	back	1:1	0.487	13.35	
1745.00	349000	Mid	NR Band n66 (AWS)	40	11.21	N	0	H7211	DFT-S-OFDM	QPSK	108	54	0 mm	back	1:1	0.454	13.67	
1745.00	349000	Mid	NR Band n66 (AWS)	40	10.92	N	0	H7211	CP-OFDM	QPSK	1	1	0 mm	back	1:1	0.389	14.05	
1745.00	349000	Mid	NR Band n66 (AWS)	40	11.19	N	0	H7211	DFT-S-OFDM	QPSK	1	108	0 mm	top	1:1	0.346	14.83	
1745.00	349000	Mid	NR Band n66 (AWS)	40	11.21	N	0	H7211	DFT-S-OFDM	QPSK	108	54	0 mm	top	1:1	0.345	14.86	
1745.00	349000	Mid	NR Band n66 (AWS)	40	11.19	N	0	H7211	DFT-S-OFDM	QPSK	1	108	0 mm	right	1:1	0.335	14.97	13.35
1745.00	349000	Mid	NR Band n66 (AWS)	40	11.21	N	0	H7211	DFT-S-OFDM	QPSK	108	54	0 mm	right	1:1	0.337	14.96	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT							Body											
Spatial Peak							1.6 W/kg (mW/g)											
Uncontrolled Exposure/General Population							averaged over 1 gram											

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

FCC ID: C3K1995	 Proud to be part of 	PART 0 SAR CHAR REPORT	 Microsoft	Approved by: Quality Manager
Test Dates: 06/21/2021– 09/09/2021	DUT Type: Portable Handset			APPENDIX A2: Page 22 of 23

Table A2-41
DSI = 5 P_{Limit} Calculations – NR Band n25 (PCS) Body SAR

MEASUREMENT RESULTS																		
FREQUENCY		Mode	Bandwidth [MHz]	Conducted Power [dBm]	Antenna Config	MPR [dB]	Serial Number	Waveform	Modulation	RB Size	RB Offset	Spacing	MPR [dB]	Duty Cycle	SAR (1g)	Plimit	Overall Plimit	
MHz	Ch.														(W/kg)			
1882.50	376500	Mid	NR Band n25 (PCS)	40	11.19	S	0	J6211	DFT-S-OFDM	QPSK	1	1	0 mm	back	1:1	0.521	13.05	12.69
1882.50	376500	Mid	NR Band n25 (PCS)	40	11.20	S	0	J6211	DFT-S-OFDM	QPSK	108	0	0 mm	back	1:1	0.568	12.69	
1882.50	376500	Mid	NR Band n25 (PCS)	40	11.23	S	0	J6211	CP-OFDM	QPSK	1	1	0 mm	back	1:1	0.538	12.95	
1882.50	376500	Mid	NR Band n25 (PCS)	40	11.19	S	0	J6211	DFT-S-OFDM	QPSK	1	1	0 mm	bottom	1:1	0.153	18.37	
1882.50	376500	Mid	NR Band n25 (PCS)	40	11.20	S	0	J6211	DFT-S-OFDM	QPSK	108	0	0 mm	bottom	1:1	0.149	18.50	
1882.50	376500	Mid	NR Band n25 (PCS)	40	11.19	S	0	J6211	DFT-S-OFDM	QPSK	1	1	0 mm	right	1:1	0.388	14.33	
1882.50	376500	Mid	NR Band n25 (PCS)	40	11.20	S	0	J6211	DFT-S-OFDM	QPSK	108	0	0 mm	right	1:1	0.368	14.57	
1882.50	376500	Mid	NR Band n25 (PCS)	40	11.42	N	0	M6211	DFT-S-OFDM	QPSK	1	1	0 mm	back	1:1	0.474	13.69	
1882.50	376500	Mid	NR Band n25 (PCS)	40	11.19	N	0	M6211	DFT-S-OFDM	QPSK	108	0	0 mm	back	1:1	0.453	13.66	
1882.50	376500	Mid	NR Band n25 (PCS)	40	11.63	N	0	M6211	CP-OFDM	QPSK	1	1	0 mm	back	1:1	0.421	14.42	
1882.50	376500	Mid	NR Band n25 (PCS)	40	11.42	N	0	M6211	DFT-S-OFDM	QPSK	1	1	0 mm	top	1:1	0.271	16.12	
1882.50	376500	Mid	NR Band n25 (PCS)	40	11.19	N	0	M6211	DFT-S-OFDM	QPSK	108	0	0 mm	top	1:1	0.288	15.63	
1882.50	376500	Mid	NR Band n25 (PCS)	40	11.42	N	0	M6211	DFT-S-OFDM	QPSK	1	1	0 mm	right	1:1	0.247	16.52	
1882.50	376500	Mid	NR Band n25 (PCS)	40	11.19	N	0	M6211	DFT-S-OFDM	QPSK	108	0	0 mm	right	1:1	0.246	16.31	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT						Body												
Spatial Peak						1.6 W/kg (mW/g)												
Uncontrolled Exposure/General Population						averaged over 1 gram												

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

Table A2-42
DSI = 5 P_{Limit} Calculations – NR Band n41 Body SAR

MEASUREMENT RESULTS																		
FREQUENCY		Mode	Bandwidth [MHz]	Conducted Power [dBm]	Antenna Config	MPR [dB]	Serial Number	Waveform	Modulation	RB Size	RB Offset	Spacing	MPR [dB]	Duty Cycle	SAR (1g)	Plimit	Overall Plimit	
MHz	Ch.														(W/kg)			
2592.99	518598	Mid	NR Band n41	100	7.61	S	0	LT211	DFT-S-OFDM	QPSK	1	137	0 mm	back	1.1	0.443	10.18	9.87
2592.99	518598	Mid	NR Band n41	100	7.62	S	0	LT211	DFT-S-OFDM	QPSK	135	138	0 mm	back	1.1	0.477	9.87	
2592.99	518598	Mid	NR Band n41	100	7.60	S	0	LT211	DFT-S-OFDM	QPSK	270	0	0 mm	back	1.1	0.446	10.14	
2592.99	518598	Mid	NR Band n41	100	7.21	S	0	LT211	CP-OFDM	QPSK	1	1	0 mm	back	1.1	0.421	10.00	
2592.99	518598	Mid	NR Band n41	100	7.61	S	0	LT211	DFT-S-OFDM	QPSK	1	137	0 mm	bottom	1.1	0.350	11.20	
2592.99	518598	Mid	NR Band n41	100	7.62	S	0	LT211	DFT-S-OFDM	QPSK	135	138	0 mm	bottom	1.1	0.380	10.85	
2592.99	518598	Mid	NR Band n41	100	7.61	S	0	LT211	DFT-S-OFDM	QPSK	1	137	0 mm	right	1.1	0.093	16.96	
2592.99	518598	Mid	NR Band n41	100	7.62	S	0	LT211	DFT-S-OFDM	QPSK	135	138	0 mm	right	1.1	0.085	17.36	
2592.99	518598	Mid	NR Band n41	100	9.26	N	0	M1211	DFT-S-OFDM	QPSK	1	137	0 mm	back	1.1	0.353	12.81	11.54
2592.99	518598	Mid	NR Band n41	100	9.25	N	0	M1211	DFT-S-OFDM	QPSK	135	69	0 mm	back	1.1	0.306	13.42	
2592.99	518598	Mid	NR Band n41	100	8.87	N	0	M1211	CP-OFDM	QPSK	1	1	0 mm	back	1.1	0.433	11.54	
2592.99	518598	Mid	NR Band n41	100	9.26	N	0	M1211	DFT-S-OFDM	QPSK	1	137	0 mm	top	1.1	0.344	12.93	
2592.99	518598	Mid	NR Band n41	100	9.25	N	0	M1211	DFT-S-OFDM	QPSK	135	69	0 mm	top	1.1	0.349	12.85	
2592.99	518598	Mid	NR Band n41	100	9.26	N	0	M1211	DFT-S-OFDM	QPSK	1	137	0 mm	right	1.1	0.057	20.73	
2592.99	518598	Mid	NR Band n41	100	9.25	N	0	M1211	DFT-S-OFDM	QPSK	135	69	0 mm	right	1.1	0.063	20.29	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT						Body												
Spatial Peak						1.6 W/kg (mW/g)												
Uncontrolled Exposure/General Population						averaged over 1 gram												

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

FCC ID: C3K1995		PART 0 SAR CHAR REPORT		Approved by:
Test Dates: 06/21/2021– 09/09/2021	DUT Type: Portable Handset			Quality Manager
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