



SAR EVALUATION REPORT

Applicant Name:
Samsung Electronics Co., Ltd.
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Yeongtong-gu, Suwon-si
Gyeonggi-do, 16677, Korea

Date of Testing:
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FCC ID: A3LSMF926U

APPLICANT: SAMSUNG ELECTRONICS CO., LTD.

DUT Type: Portable Handset
Application Type: Certification
FCC Rule Part(s): CFR §2.1093
Model: SM-F926U
Additional Models: SM-F926U1

Equipment Class	Band & Mode	Tx Frequency	SAR					
			1g Head (W/kg)	1g Body-Worn (W/kg)	1g Hotspot (W/kg)	10g Phablet (W/kg)	1g UMPC Body (W/kg)	10g UMPC Extremity (W/kg)
PCE	CDMA/EVDO BC10 (800S)	817.90 - 823.10 MHz	0.17	0.13	0.34	N/A	0.44	1.22
PCE	CDMA/EVDO BC10 (820H)	824.70 - 848.31 MHz	0.18	0.14	0.38	N/A	0.41	1.18
PCE	PCS CDMA/EVDO	1851.25 - 1908.75 MHz	0.10	0.62	0.48	2.01	1.11	2.78
PCE	GSM/GPRS/EDGE 850	824.20 - 848.80 MHz	0.12	0.16	0.39	N/A	0.36	0.88
PCE	GSM/GPRS/EDGE 1900	1850.20 - 1909.80 MHz	< 0.1	0.33	0.54	1.51	1.12	2.69
PCE	UMTS 850	826.40 - 846.60 MHz	0.15	0.18	0.35	N/A	0.48	1.35
PCE	UMTS 1755	1712.4 - 1752.6 MHz	< 0.1	0.86	0.61	1.91	1.03	2.85
PCE	UMTS 1900	1852.4 - 1907.6 MHz	0.11	0.75	0.47	1.29	1.18	2.51
PCE	LTE Band 71	665.5 - 695.5 MHz	0.10	0.20	0.31	N/A	0.41	1.58
PCE	LTE Band 12	699.7 - 715.3 MHz	0.15	0.21	0.41	N/A	0.45	1.52
PCE	LTE Band 13	779.5 - 784.5 MHz	0.11	0.14	0.30	N/A	0.52	1.44
PCE	LTE Band 14	700.5 - 795.5 MHz	0.11	0.14	0.31	N/A	0.52	1.43
PCE	LTE Band 26 (Cell)	814.7 - 848.3 MHz	0.14	0.18	0.30	N/A	0.57	1.26
PCE	LTE Band 5 (Cell)	824.7 - 848.3 MHz	0.15	0.17	0.35	N/A	0.56	1.48
PCE	LTE Band 66 (AWS)	1710.7 - 1779.3 MHz	0.40	0.73	0.52	2.37	1.02	2.27
PCE	LTE Band 4 (AWS)	1710.7 - 1754.3 MHz	N/A	N/A	N/A	N/A	N/A	N/A
PCE	LTE Band 25 (PCS)	1850.7 - 1914.3 MHz	0.12	0.57	0.40	1.41	1.14	2.27
PCE	LTE Band 2 (PCS)	1850.7 - 1909.3 MHz	N/A	N/A	N/A	N/A	N/A	N/A
PCE	LTE Band 30	2307.5 - 2312.5 MHz	< 0.1	0.53	0.62	2.08	1.06	2.44
PCE	LTE Band 7	2502.5 - 2597.5 MHz	< 0.1	0.43	0.65	2.12	0.87	2.30
CBE	LTE Band 48	3652.5 - 3697.5 MHz	0.26	< 0.1	0.22	N/A	0.26	2.28
PCE	LTE Band 41	2498.5 - 2697.5 MHz	< 0.1	0.21	0.46	1.38	0.36	1.66
PCE	LTE Band 38	2572.5 - 2617.5 MHz	N/A	N/A	N/A	N/A	N/A	N/A
PCE	NR Band n71	665.5 - 695.5 MHz	0.11	0.19	0.34	N/A	0.42	1.29
PCE	NR Band n12	701.5 - 713.5 MHz	0.15	0.20	0.37	N/A	0.50	1.71
PCE	NR Band n5 (Cell)	826.5 - 846.5 MHz	0.11	0.14	0.27	N/A	0.47	1.07
PCE	NR Band n66 (AWS)	1712.5 - 1777.5 MHz	0.36	0.72	0.59	2.51	1.06	2.71
PCE	NR Band n25 (PCS)	1852.5 - 1917.5 MHz	0.35	0.67	0.58	2.16	1.22	2.56
PCE	NR Band n2 (PCS)	1852.5 - 1907.5 MHz	N/A	N/A	N/A	N/A	N/A	N/A
PCE	NR Band n30	2307.5 - 2312.5 MHz	< 0.1	0.50	0.41	1.51	0.93	1.77
PCE	NR Band n41	2506.02 - 2679.99 MHz	0.27	< 0.1	0.29	2.13	0.34	2.00
PCE	NR Band n77 DoD	3460.02 - 3540 MHz	0.50	0.18	0.39	2.47	0.80	3.00
PCE	NR Band n77	3710.01 - 3969.99 MHz	0.73	0.26	0.79	2.86	0.88	2.98
DTS	2.4 GHz WLAN	2412 - 2472 MHz	0.58	< 0.1	0.47	N/A	0.46	2.11
NI	U-NII-1	5180 - 5240 MHz	N/A	N/A	N/A	N/A	N/A	N/A
NI	U-NII-2A	5260 - 5320 MHz	0.27	< 0.1	N/A	0.73	0.18	0.78
NI	U-NII-2C	5500 - 5720 MHz	0.19	< 0.1	N/A	0.49	0.14	0.51
NI	U-NII-3	5745 - 5825 MHz	0.17	< 0.1	< 0.1	N/A	0.12	0.48
DISC/DTS	Bluetooth	2402 - 2480 MHz	0.34	< 0.1	0.21	N/A	0.25	1.38
Simultaneous SAR per KDB 690783 D01v01r03:			1.50	0.94	1.52	3.82	1.59	3.99

Note: This revised Test Report supersedes and replaces the previously issued test report on the same subject device for the same type of testing as indicated. Please discard or destroy the previously issued test report(s) and dispose of it accordingly.

This wireless portable device has been shown to be capable of compliance for localized specific absorption rate (SAR) for uncontrolled environment/general population exposure limits specified in ANSI/IEEE C95.1-1992 and has been tested in accordance with the measurement procedures specified in Section 1.9 of this report; for North American frequency bands only.

I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them. Test results reported herein relate only to the item(s) tested.


Randy Ortanez
President



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1 DEVICE UNDER TEST

1.1 Device Overview

Band & Mode	Operating Modes	Tx Frequency
CDMA/EVDO BC10 (\$90S)	Voice/Data	817.90 - 823.10 MHz
CDMA/EVDO BC0 (\$22H)	Voice/Data	824.70 - 848.31 MHz
PCS CDMA/EVDO	Voice/Data	1851.25 - 1908.75 MHz
GSM/GPRS/EDGE 850	Voice/Data	824.20 - 848.80 MHz
GSM/GPRS/EDGE 1900	Voice/Data	1850.20 - 1909.80 MHz
UMTS 850	Voice/Data	826.40 - 846.60 MHz
UMTS 1750	Voice/Data	1712.4 - 1752.6 MHz
UMTS 1900	Voice/Data	1852.4 - 1907.6 MHz
LTE Band 71	Voice/Data	665.5 - 695.5 MHz
LTE Band 12	Voice/Data	699.7 - 715.3 MHz
LTE Band 13	Voice/Data	779.5 - 784.5 MHz
LTE Band 14	Voice/Data	790.5 - 795.5 MHz
LTE Band 26 (Cell)	Voice/Data	814.7 - 848.3 MHz
LTE Band 5 (Cell)	Voice/Data	824.7 - 848.3 MHz
LTE Band 66 (AWS)	Voice/Data	1710.7 - 1779.3 MHz
LTE Band 4 (AWS)	Voice/Data	1710.7 - 1754.3 MHz
LTE Band 25 (PCS)	Voice/Data	1850.7 - 1914.3 MHz
LTE Band 2 (PCS)	Voice/Data	1850.7 - 1909.3 MHz
LTE Band 30	Voice/Data	2307.5 - 2312.5 MHz
LTE Band 7	Voice/Data	2502.5 - 2567.5 MHz
LTE Band 48	Voice/Data	3552.5 - 3697.5 MHz
LTE Band 41	Voice/Data	2498.5 - 2687.5 MHz
LTE Band 38	Voice/Data	2572.5 - 2617.5 MHz
NR Band n71	Data	665.5 - 695.5 MHz
NR Band n12	Data	701.5 - 713.5 MHz
NR Band n5 (Cell)	Data	826.5 - 846.5 MHz
NR Band n66 (AWS)	Data	1712.5 - 1777.5 MHz
NR Band n25 (PCS)	Data	1852.5 - 1912.5 MHz
NR Band n2 (PCS)	Data	1852.5 - 1907.5 MHz
NR Band n30	Data	2307.5 - 2312.5 MHz
NR Band n41	Data	2506.02 - 2679.99 MHz
NR Band n77 DoD	Data	3460.02 - 3540 MHz
NR Band n77	Data	3710.01 - 3969.99 MHz
2.4 GHz WLAN	Voice/Data	2412 - 2472 MHz
U-NII-1	Voice/Data	5180 - 5240 MHz
U-NII-2A	Voice/Data	5260 - 5320 MHz
U-NII-2C	Voice/Data	5500 - 5720 MHz
U-NII-3	Voice/Data	5745 - 5825 MHz
U-NII-5	Voice/Data	5935 - 6415 MHz
U-NII-6	Voice/Data	6435 - 6525 MHz
U-NII-7	Voice/Data	6535 - 6875 MHz
U-NII-8	Voice/Data	6895 - 7115 MHz
Bluetooth	Data	2402 - 2480 MHz
NFC	Data	13.56 MHz
NR Band n260	Data	37000 - 40000 MHz
NR Band n261	Data	27500 - 28350 MHz
UWB	Data	6489.6 - 7987.2 MHz

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1.2 Time-Averaging Algorithm for RF Exposure Compliance

This device is enabled with the Qualcomm® Smart Transmit feature. This feature performs time averaging algorithm in real time to control and manage transmitting power and ensure the time-averaged RF exposure is in compliance with FCC requirements all the time. Refer to Compliance Summary document for detailed description of Qualcomm® Smart Transmit feature (report SN can be found in Section 1.11 – Bibliography).

Note that WLAN operations are not enabled with Smart Transmit.

The Smart Transmit algorithm maintains the time-averaged transmit power, in turn, time-averaged RF exposure of *SAR_design_target* or *PD_design_target*, below the predefined time-averaged power limit (i.e., P_{limit} for sub-6 radio, and *input.power.limit* for 5G mmW NR), for each characterized technology and band (see RF Exposure Part 0 Test Report, report SN can be found in Section 1.11 - Bibliography).

Smart Transmit allows the device to transmit at higher power instantaneously, as high as P_{max} , when needed, but enforces power limiting to maintain time-averaged transmit power to P_{limit} . Below table shows P_{limit} EFS settings and maximum tune up output power P_{max} configured for this EUT for various transmit conditions (Device State Index DSI). Note that the device uncertainty for sub-6GHz WWAN is 1.0dB for this EUT.

Exposure Scenario:	Body-Worn	Phablet	Body	Extremity	Grip Sensor Active		Head		Hotspot		Earjack		Maximum Tune-up Output Power*
Averaging Volume:	1g	10g	1g	10g	10g	1g, 10g	1g	1g	1g	1g	10g	10g	
Spacing:	15 mm	12, 10 mm	12, 10, 16 mm	12, 9, 16 mm	0 mm	10, 0 mm	0 mm	0 mm	10 mm	10 mm	0 mm	0 mm	
DSI:	11	11	0	0	2	1	4	3	6	5	8	7	
Configuration	Folder Closed		Folder Open		Folder Closed	Folder Open	Folder Closed	Folder Open	Folder Closed	Folder Open	Folder Closed	Folder Open	Pmax
Technology/Band	Antenna												
CDMA/EVDO BC10	A, A+B	26.9		27.1	26.9	29.1	33.8	33.8	26.9	29.1	26.9	29.1	25.0
CDMA/EVDO BC0	A, A+B	26.9		26.7	26.9	29.3	33.4	33.4	26.9	29.3	26.9	29.3	25.0
CDMA/EVDO BC1	B	23.0		23.0	18.0	18.0	23.0	23.0	18.0	18.0	18.0	18.0	24.0
GSM/GPRS/EDGE 850 MHz	A, A+B	29.6		27.5	28.6	30.5	33.5	33.5	28.6	30.5	28.6	30.5	25.3
GSM/GPRS/EDGE 1900 MHz	B	25.8		22.6	17.1	17.1	33.7	33.7	17.1	17.1	17.1	17.1	22.1
UMTS B5	A, A+B	28.3		28.0	28.3	28.5	34.0	34.0	28.3	28.5	28.3	28.5	24.8
UMTS B4	B	25.6		24.9	18.0	18.0	36.2	36.2	18.0	18.0	18.0	18.0	24.0
UMTS B2	B	26.1		24.2	18.0	18.0	34.7	34.7	18.0	18.0	18.0	18.0	24.0
LTE FDD B71	A, A+B	28.5		27.8	28.5	27.8	35.9	36.9	28.5	27.8	28.5	27.8	24.8
LTE FDD B12	A, A+B	27.6		28.0	27.6	28.0	33.7	34.8	27.6	28.0	27.6	28.0	24.8
LTE FDD B13	A, A+B	27.9		27.9	27.9	28.2	35.5	35.5	27.9	28.2	27.9	28.2	24.8
LTE FDD B14	A, A+B	27.6		27.7	27.6	28.1	35.0	35.2	27.9	28.1	27.6	28.1	24.8
LTE FDD B26	A, A+B	27.0		28.7	27.0	28.3	34.4	34.6	27.0	28.3	27.0	28.3	24.8
LTE FDD B5	A, A+B	26.6		27.4	26.6	28.0	34.1	35.1	26.6	28.0	26.6	28.0	24.8
LTE FDD B66/4	B	26.9		25.6	18.0	18.0	37.0	37.0	18.0	18.0	18.0	18.0	24.5
LTE FDD B66	E	19.5		19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	24.5
LTE FDD B25/2	B	27.9		24.9	18.0	18.0	34.8	34.8	18.0	18.0	18.0	18.0	24.5
LTE FDD B30	B	21.5		21.5	16.0	16.0	21.5	21.5	16.0	16.0	16.0	16.0	22.5
LTE FDD B7	B	21.5		21.5	17.0	17.0	21.5	21.5	17.0	17.0	17.0	17.0	24.0
LTE TDD B48	E	17.5		17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5	22.0
LTE TDD B41/38	B	20.0		20.0	16.0	16.0	20.0	20.0	16.0	16.0	16.0	16.0	22.0
LTE TDD B41 (PC2)	B	20.0		20.0	16.0	16.0	20.0	20.0	16.0	16.0	16.0	16.0	22.9
NR FDD n71	A, A+B	28.3		28.7	28.3	28.4	34.9	36.0	28.3	28.4	28.3	28.4	24.5
NR FDD n12	A, A+B	27.6		27.2	27.6	27.2	33.7	34.1	27.6	27.2	27.6	27.2	24.5
NR FDD n5	A, A+B	27.0		29.6	27.0	27.8	34.5	34.8	27.0	27.8	27.0	27.8	24.5
NR FDD n66	B	26.5		24.8	18.0	18.0	35.7	35.7	18.0	18.0	18.0	18.0	24.0
NR FDD n66	E	19.5		19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	24.0
NR FDD n25/2	B	27.0		24.0	18.0	18.0	35.7	35.7	18.0	18.0	18.0	18.0	24.0
NR FDD n25/2	E	19.5		19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	24.0
NR FDD n30	B	21.5		21.5	16.0	16.0	21.5	21.5	16.0	16.0	16.0	16.0	22.5
NR TDD n41	E	18.0		18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	24.0
NR TDD n41 (PC2)	E	18.0		18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	26.0
NR TDD n77 SRS 1	E	18.0		18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	24.0
NR TDD n77 (PC2) SRS 1	E	18.0		18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	26.0
NR TDD n77 SRS 2	G	18.0		18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	24.0
NR TDD n77 (PC2) SRS 2	G	18.0		18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	26.0
NR TDD n77 SRS 3	F	16.0		16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	22.0
NR TDD n77 (PC2) SRS 3	F	16.0		16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	24.0
NR TDD n77 SRS 4	B	15.0		15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	21.0
NR TDD n77 (PC2) SRS 4	B	15.0		15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	23.0

*Note all P_{limit} EFS and maximum tune up output power P_{max} levels entered in above Table correspond to average power levels after accounting for duty cycle in the case of TDD modulation schemes (for e.g., GSM & LTE TDD).

*Maximum tune up output power P_{max} is used to configure EUT during RF tune up procedure. The maximum allowed output power is equal to maximum Tune up output power + 1dB device design uncertainty.

The maximum time-averaged output power (dBm) for any 2G/3G/4G/5G Sub6 WWAN technology, band, and DSI = minimum of " P_{limit} EFS" and "Maximum tune up output power P_{max} " + 1dB device uncertainty. SAR values in this report were scaled to this maximum time-averaged output power to determine compliance per KDB Publication 447498 D01v06.

The purpose of this report (Part 1 test) is to demonstrate that the EUT meets FCC SAR limits when transmitting in static transmission scenario at maximum allowable time-averaged power levels.

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Measurement Condition: All conducted power and SAR measurements in this report (Part 1 test) were performed by setting *Reserve_power_margin* (Smart Transmit EFS entry) to 0dB.

1.3 Power Reduction for SAR

This device uses an independent fixed level power reduction mechanism for WLAN/BT operations during voice or VoIP held to ear scenarios, and WLAN operations when 5G NR is active. Per FCC Guidance, the held-to-ear exposure conditions were evaluated at reduced power according to the head SAR positions described in IEEE 1528-2013. Detailed descriptions of the power reduction mechanism are included in the operational description.

1.4 Nominal and Maximum Output Power Specifications

This device operates using the following maximum and nominal output power specifications. SAR values were scaled to the maximum allowed power to determine compliance per KDB Publication 447498 D01v06.

1.4.1 2G/3G/4G/5G Output Power

CDMA BC10 (835 MHz)				
Power Level		Modulated Average Output Power		
		1x-RTT	EVDO Rev 0	EVDO Rev A
Pmax, DSI = 0-8, 11	Max allowed power	26.0	26.0	26.0
	Nominal	25.0	25.0	25.0
CDMA BC0 (835 MHz)				
Power Level		Modulated Average Output Power		
		1x-RTT	EVDO Rev 0	EVDO Rev A
Pmax, DSI = 0-8, 11	Max allowed power	26.0	26.0	26.0
	Nominal	25.0	25.0	25.0
CDMA BC1 (1900 MHz)				
Power Level		Modulated Average Output Power		
		1x-RTT	EVDO Rev 0	EVDO Rev A
Pmax	Max allowed power	25.0	25.0	25.0
	Nominal	24.0	24.0	24.0
DSI = 0 (Folder Open - Max)	Max allowed power	24.0	24.0	24.0
	Nominal	23.0	23.0	23.0
DSI = 1 (Folder Open - Grip Sensor)	Max allowed power	19.0	19.0	19.0
	Nominal	18.0	18.0	18.0
DSI = 3 (Folder Open - Head)	Max allowed power	24.0	24.0	24.0
	Nominal	23.0	23.0	23.0
DSI = 5 (Folder Open - Hotspot)	Max allowed power	19.0	19.0	19.0
	Nominal	18.0	18.0	18.0
DSI = 7 (Folder Open - Earjack)	Max allowed power	19.0	19.0	19.0
	Nominal	18.0	18.0	18.0

GSM/GPRS/EDGE 850										
Power Level		Voice (in dBm)	Data - Burst Average GMSK (in dBm)				Data - Burst Average 8-PSK (in dBm)			
		1 TX Slot	1 TX Slots	2 TX Slots	3 TX Slots	4 TX Slots	1 TX Slots	2 TX Slots	3 TX Slots	4 TX Slots
Pmax, DSI = 0-8, 11	Max allowed power	33.5	33.5	32.5	30.5	28.5	28.0	26.0	24.0	23.0
	Nominal	32.5	32.5	31.5	29.5	27.5	27.0	25.0	23.0	22.0
GSM/GPRS/EDGE 1900										
Power Level		Voice (in dBm)	Data - Burst Average GMSK (in dBm)				Data - Burst Average 8-PSK (in dBm)			
		1 TX Slot	1 TX Slots	2 TX Slots	3 TX Slots	4 TX Slots	1 TX Slots	2 TX Slots	3 TX Slots	4 TX Slots
Pmax	Max allowed power	30.2	30.2	29.0	27.5	25.5	27.0	24.0	22.0	21.0
	Nominal	29.2	29.2	28.0	26.5	24.5	26.0	23.0	21.0	20.0
DSI = 0 (Folder Open - Max)	Max allowed power	30.2	30.2	29.0	27.5	25.5	27.0	24.0	22.0	21.0
	Nominal	29.2	29.2	28.0	26.5	24.5	26.0	23.0	21.0	20.0
DSI = 1 (Folder Open - Grip Sensor)	Max allowed power	27.3	27.3	24.3	22.5	21.3	27.0	24.0	22.0	21.0
	Nominal	26.3	26.3	23.3	21.5	20.3	26.0	23.0	21.0	20.0
DSI = 3 (Folder Open - Head)	Max allowed power	30.2	30.2	29.0	27.5	25.5	27.0	24.0	22.0	21.0
	Nominal	29.2	29.2	28.0	26.5	24.5	26.0	23.0	21.0	20.0
DSI = 5 (Folder Open - Hotspot)	Max allowed power	N/A	27.3	24.3	22.5	21.3	27.0	24.0	22.0	21.0
	Nominal	N/A	26.3	23.3	21.5	20.3	26.0	23.0	21.0	20.0
DSI = 7 (Folder Open - Earjack)	Max allowed power	27.3	27.3	24.3	22.5	21.3	27.0	24.0	22.0	21.0
	Nominal	26.3	26.3	23.3	21.5	20.3	26.0	23.0	21.0	20.0

For GSM, the above powers listed are GSM burst average values.

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UMTS Band 5 (850 MHz)					
Power Level		Modulated Average Output Power			
		3GPP WCDMA Rel 99	3GPP HSDPA Rel 5	3GPP HSUPA Rel 6	3GPP DC-HSDPA Rel 8
Pmax, DSI = 0-8, 11	Max allowed power	25.8	24.8	24.8	24.8
	Nominal	24.8	23.8	23.8	23.8
UMTS Band 4 (1750 MHz)					
Power Level		Modulated Average Output Power			
		3GPP WCDMA Rel 99	3GPP HSDPA Rel 5	3GPP HSUPA Rel 6	3GPP DC-HSDPA Rel 8
Pmax	Max allowed power	25.0	24.0	24.0	24.0
	Nominal	24.0	23.0	23.0	23.0
DSI = 0 (Folder Open - Max) DSI = 11 (Folder Closed - Max)	Max allowed power	25.0	24.0	24.0	24.0
	Nominal	24.0	23.0	23.0	23.0
DSI = 1 (Folder Open - Grip Sensor) DSI = 2 (Folder Closed - Grip Sensor)	Max allowed power	19.0	18.0	18.0	18.0
	Nominal	18.0	17.0	17.0	17.0
DSI = 3 (Folder Open - Head) DSI = 4 (Folder Closed - Head)	Max allowed power	25.0	24.0	24.0	24.0
	Nominal	24.0	23.0	23.0	23.0
DSI = 5 (Folder Open - Hotspot) DSI = 6 (Folder Closed - Hotspot)	Max allowed power	19.0	18.0	18.0	18.0
	Nominal	18.0	17.0	17.0	17.0
DSI = 7 (Folder Open - Earjack) DSI = 8 (Folder Closed - Earjack)	Max allowed power	19.0	18.0	18.0	18.0
	Nominal	18.0	17.0	17.0	17.0
UMTS Band 2 (1900 MHz)					
Power Level		Modulated Average Output Power			
		3GPP WCDMA Rel 99	3GPP HSDPA Rel 5	3GPP HSUPA Rel 6	3GPP DC-HSDPA Rel 8
Pmax	Max allowed power	25.0	24.0	24.0	24.0
	Nominal	24.0	23.0	23.0	23.0
DSI = 0 (Folder Open - Max) DSI = 11 (Folder Closed - Max)	Max allowed power	25.0	24.0	24.0	24.0
	Nominal	24.0	23.0	23.0	23.0
DSI = 1 (Folder Open - Grip Sensor) DSI = 2 (Folder Closed - Grip Sensor)	Max allowed power	19.0	18.0	18.0	18.0
	Nominal	18.0	17.0	17.0	17.0
DSI = 3 (Folder Open - Head) DSI = 4 (Folder Closed - Head)	Max allowed power	25.0	24.0	24.0	24.0
	Nominal	24.0	23.0	23.0	23.0
DSI = 5 (Folder Open - Hotspot) DSI = 6 (Folder Closed - Hotspot)	Max allowed power	19.0	18.0	18.0	18.0
	Nominal	18.0	17.0	17.0	17.0
DSI = 7 (Folder Open - Earjack) DSI = 8 (Folder Closed - Earjack)	Max allowed power	19.0	18.0	18.0	18.0
	Nominal	18.0	17.0	17.0	17.0

Mode / Band		Modulated Average Output Power (in dbm)										
		Pmax	DSI = 0 (Folder Open - Max)	DSI = 11 (Folder Closed - Max)	DSI = 1 (Folder Open - Grip Sensor Active)	DSI = 2 (Folder Closed - Grip Sensor Active)	DSI = 3 (Folder Open - Head)	DSI = 4 (Folder Closed - Head)	DSI = 5 (Folder Open - Hotspot)	DSI = 6 (Folder Closed - Hotspot)	DSI = 7 (Folder Open - Earjack)	DSI = 8 (Folder Closed - Earjack)
LTE FDD Band 71	Max allowed	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8
	Nominal	24.8	24.8	24.8	24.8	24.8	24.8	24.8	24.8	24.8	24.8	24.8
LTE FDD Band 12	Max allowed	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8
	Nominal	24.8	24.8	24.8	24.8	24.8	24.8	24.8	24.8	24.8	24.8	24.8
LTE FDD Band 13	Max allowed	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8
	Nominal	24.8	24.8	24.8	24.8	24.8	24.8	24.8	24.8	24.8	24.8	24.8
LTE FDD Band 14	Max allowed	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8
	Nominal	24.8	24.8	24.8	24.8	24.8	24.8	24.8	24.8	24.8	24.8	24.8
LTE FDD Band 26	Max allowed	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8
	Nominal	24.8	24.8	24.8	24.8	24.8	24.8	24.8	24.8	24.8	24.8	24.8
LTE FDD Band 5	Max allowed	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8	25.8
	Nominal	24.8	24.8	24.8	24.8	24.8	24.8	24.8	24.8	24.8	24.8	24.8
LTE FDD Band 66 Ant B	Max allowed	25.5	25.5	25.5	19.0	19.0	25.5	25.5	19.0	19.0	19.0	19.0
	Nominal	24.5	24.5	24.5	18.0	18.0	24.5	24.5	18.0	18.0	18.0	18.0
LTE FDD Band 4 Ant B	Max allowed	25.5	25.5	25.5	19.0	19.0	25.5	25.5	19.0	19.0	19.0	19.0
	Nominal	24.5	24.5	24.5	18.0	18.0	24.5	24.5	18.0	18.0	18.0	18.0
LTE FDD Band 66 Ant E	Max allowed	25.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5
	Nominal	24.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5
LTE FDD Band 25	Max allowed	25.5	25.5	25.5	19.0	19.0	25.5	25.5	19.0	19.0	19.0	19.0
	Nominal	24.5	24.5	24.5	18.0	18.0	24.5	24.5	18.0	18.0	18.0	18.0
LTE FDD Band 2	Max allowed	25.5	25.5	25.5	19.0	19.0	25.5	25.5	19.0	19.0	19.0	19.0
	Nominal	24.5	24.5	24.5	18.0	18.0	24.5	24.5	18.0	18.0	18.0	18.0
LTE FDD Band 30	Max allowed	23.5	22.5	22.5	17.0	17.0	22.5	22.5	17.0	17.0	17.0	17.0
	Nominal	22.5	21.5	21.5	16.0	16.0	21.5	21.5	16.0	16.0	16.0	16.0
LTE FDD Band 7	Max allowed	25.0	22.5	22.5	18.0	18.0	22.5	22.5	18.0	18.0	18.0	18.0
	Nominal	24.0	21.5	21.5	17.0	17.0	21.5	21.5	17.0	17.0	17.0	17.0
LTE TDD Band 48	Max allowed	25.0	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5
	Nominal	24.0	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5
LTE TDD Band 41	Max allowed	25.0	23.0	23.0	19.0	19.0	23.0	23.0	19.0	19.0	19.0	19.0
	Nominal	24.0	22.0	22.0	18.0	18.0	22.0	22.0	18.0	18.0	18.0	18.0
LTE TDD Band 41 (PC2)	Max allowed	27.5	24.6	24.6	20.6	20.6	24.6	24.6	20.6	20.6	20.6	20.6
	Nominal	26.5	23.6	23.6	19.6	19.6	23.6	23.6	19.6	19.6	19.6	19.6
LTE TDD Band 38	Max allowed	25.0	23.0	23.0	19.0	19.0	23.0	23.0	19.0	19.0	19.0	19.0
	Nominal	24.0	22.0	22.0	18.0	18.0	22.0	22.0	18.0	18.0	18.0	18.0

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Mode / Band		Modulated Average Output Power (in dBm)										
		Pmax	DSI = 0 (Folder Open - Max)	DSI = 11 (Folder Closed - Max)	DSI = 1 (Folder Open - Grip Sensor Active)	DSI = 2 (Folder Closed - Grip Sensor Active)	DSI = 3 (Folder Open - Head)	DSI = 4 (Folder Closed - Head)	DSI = 5 (Folder Open - Hotspot)	DSI = 6 (Folder Closed - Hotspot)	DSI = 7 (Folder Open - Earjack)	DSI = 8 (Folder Closed - Earjack)
NR FDD Band 71	Max allowed	25.5	25.5	25.5	25.5	25.5	25.5	25.5	25.5	25.5	25.5	25.5
	Nominal	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5
NR FDD Band 12	Max allowed	25.5	25.5	25.5	25.5	25.5	25.5	25.5	25.5	25.5	25.5	25.5
	Nominal	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5
NR FDD Band 5	Max allowed	25.5	25.5	25.5	25.5	25.5	25.5	25.5	25.5	25.5	25.5	25.5
	Nominal	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5	24.5
NR FDD Band 66 Ant B	Max allowed	25.0	25.0	25.0	19.0	19.0	25.0	25.0	19.0	19.0	19.0	19.0
	Nominal	24.0	24.0	24.0	18.0	18.0	24.0	24.0	18.0	18.0	18.0	18.0
NR FDD Band 66 Ant E	Max allowed	25.0	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5
	Nominal	24.0	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5
NR FDD Band 25 Ant B	Max allowed	25.0	25.0	25.0	19.0	19.0	25.0	25.0	19.0	19.0	19.0	19.0
	Nominal	24.0	24.0	24.0	18.0	18.0	24.0	24.0	18.0	18.0	18.0	18.0
NR FDD Band 2 Ant B	Max allowed	25.0	25.0	25.0	19.0	19.0	25.0	25.0	19.0	19.0	19.0	19.0
	Nominal	24.0	24.0	24.0	18.0	18.0	24.0	24.0	18.0	18.0	18.0	18.0
NR FDD Band 25 Ant E	Max allowed	25.0	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5
	Nominal	24.0	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5
NR FDD Band 2 Ant E	Max allowed	25.0	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5	20.5
	Nominal	24.0	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5
NR FDD Band 30	Max allowed	23.5	22.5	22.5	17.0	17.0	22.5	22.5	17.0	17.0	17.0	17.0
	Nominal	22.5	21.5	21.5	16.0	16.0	21.5	21.5	16.0	16.0	16.0	16.0
NR TDD Band 41 (PC3)	Max allowed	25.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0
	Nominal	24.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0
NR TDD Band 41 (PC2)	Max allowed	27.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0
	Nominal	26.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0
NR TDD Band 77 Ant E (PC3)	Max allowed	25.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0
	Nominal	24.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0
NR TDD Band 77 Ant E (PC2)	Max allowed	27.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0
	Nominal	26.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0
NR TDD Band 77 Ant G (PC3)	Max allowed	25.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0
	Nominal	24.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0
NR TDD Band 77 Ant G (PC2)	Max allowed	27.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0
	Nominal	26.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0
NR TDD Band 77 Ant F (PC3)	Max allowed	23.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0
	Nominal	22.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
NR TDD Band 77 Ant F (PC2)	Max allowed	25.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0
	Nominal	24.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
NR TDD Band 77 Ant B (PC3)	Max allowed	22.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
	Nominal	21.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
NR TDD Band 77 Ant B (PC2)	Max allowed	24.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0
	Nominal	23.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0

For LTE TDD and NR TDD, the above powers listed are TDD burst average values.

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1.4.2 2.4 GHz Maximum Bluetooth and SISO/MIMO WLAN Output Power

Note: Targets for 802.11ax RU operations can be found in Appendix I

Mode	Band	IEEE 802.11 (in dBm)															
		SISO Antenna 1 & Antenna 2								MIMO							
		b		g		n		ax (SU)		b (CDD + STBC)		g (CDD + STBC)		n (CDD + STBC, SDM)		ax (SU) (CDD + STBC, SDM)	
		Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum
2.4 GHz WIFI	2.45 GHz	18.0	19.0	17.0	18.0	17.0	18.0	17.0	18.0	21.0	22.0	20.0	21.0	20.0	21.0	20.0	21.0
		Ch. 12: 5.0 Ch. 13: -1.0	Ch. 12: 6.0 Ch. 13: 0.0	Ch. 12: 5.0 Ch. 13: -1.0	Ch. 12: 6.0 Ch. 13: 0.0	Ch. 11: 15.5 Ch. 12: 5.0 Ch. 13: -1.0	Ch. 11: 16.5 Ch. 12: 6.0 Ch. 13: 0.0	Ch. 11: 15.5 Ch. 12: 5.0 Ch. 13: -1.0	Ch. 11: 16.5 Ch. 12: 6.0 Ch. 13: 0.0	Ch. 12: 8.0 Ch. 13: 2.0	Ch. 12: 9.0 Ch. 13: 3.0	Ch. 12: 8.0 Ch. 13: 2.0	Ch. 12: 9.0 Ch. 13: 3.0	Ch. 11: 18.5 Ch. 12: 8.0 Ch. 13: 2.0	Ch. 11: 19.5 Ch. 12: 9.0 Ch. 13: 3.0	Ch. 11: 18.5 Ch. 12: 8.0 Ch. 13: 2.0	Ch. 11: 19.5 Ch. 12: 9.0 Ch. 13: 3.0

(Upper tolerance: target + 1.0 dB)

Mode	Single Antenna	
	Antenna 1 & Antenna 2	
	Nominal	Maximum
Bluetooth (in dBm)	16.5	17.5
Bluetooth EDR (in dBm)	13.5	14.5
Bluetooth LE 2Mbps (in dBm)	6.0	7.0
Bluetooth LE 1Mbps, 125/500 kbps (in dBm)	6.0	7.0

(Upper tolerance: target + 1.0 dB)

1.4.3 2.4 GHz Reduced Bluetooth and SISO/MIMO WLAN Output Power

Note: Targets for 802.11ax RU operations can be found in Appendix I

The below table is applicable in the following conditions:

- Simultaneous conditions with 5/6 GHz WLAN
- Simultaneous conditions with 5G NR

Mode	Band	IEEE 802.11 (in dBm)															
		SISO Antenna 1 & Antenna 2								MIMO							
		b		g		n		ax (SU)		b (CDD + STBC)		g (CDD + STBC)		n (CDD + STBC, SDM)		ax (SU) (CDD + STBC, SDM)	
		Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum
2.4 GHz WIFI	2.45 GHz	14.0	15.0	14.0	15.0	14.0	15.0	14.0	15.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0
		Ch. 12: 5.0 Ch. 13: -1.0	Ch. 12: 6.0 Ch. 13: 0.0	Ch. 12: 5.0 Ch. 13: -1.0	Ch. 12: 6.0 Ch. 13: 0.0	Ch. 12: 5.0 Ch. 13: -1.0	Ch. 12: 6.0 Ch. 13: 0.0	Ch. 12: 5.0 Ch. 13: -1.0	Ch. 12: 6.0 Ch. 13: 0.0	Ch. 12: 8.0 Ch. 13: 2.0	Ch. 12: 9.0 Ch. 13: 3.0	Ch. 12: 8.0 Ch. 13: 2.0	Ch. 12: 9.0 Ch. 13: 3.0	Ch. 12: 8.0 Ch. 13: 2.0	Ch. 12: 9.0 Ch. 13: 3.0	Ch. 12: 8.0 Ch. 13: 2.0	Ch. 12: 9.0 Ch. 13: 3.0

(Upper tolerance: target + 1.0 dB)

The below table is applicable in the following conditions:

- RCV Active
- RCV Active during simultaneous conditions with 5/6 GHz WLAN

Mode	Band	IEEE 802.11 (in dBm)															
		SISO Antenna 1 & Antenna 2								MIMO							
		b		g		n		ax (SU)		b (CDD + STBC)		g (CDD + STBC)		n (CDD + STBC, SDM)		ax (SU) (CDD + STBC, SDM)	
		Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum
2.4 GHz WIFI	2.45 GHz	12.0	13.0	12.0	13.0	12.0	13.0	12.0	13.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0
		Ch. 12: 5.0 Ch. 13: -1.0	Ch. 12: 6.0 Ch. 13: 0.0	Ch. 12: 5.0 Ch. 13: -1.0	Ch. 12: 6.0 Ch. 13: 0.0	Ch. 12: 5.0 Ch. 13: -1.0	Ch. 12: 6.0 Ch. 13: 0.0	Ch. 12: 5.0 Ch. 13: -1.0	Ch. 12: 6.0 Ch. 13: 0.0	Ch. 12: 8.0 Ch. 13: 2.0	Ch. 12: 9.0 Ch. 13: 3.0	Ch. 12: 8.0 Ch. 13: 2.0	Ch. 12: 9.0 Ch. 13: 3.0	Ch. 12: 8.0 Ch. 13: 2.0	Ch. 12: 9.0 Ch. 13: 3.0	Ch. 12: 8.0 Ch. 13: 2.0	Ch. 12: 9.0 Ch. 13: 3.0

(Upper tolerance: target + 1.0 dB)

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The below table is applicable in the following conditions:

- RCV Active during simultaneous conditions with 5G NR

Mode	Band	IEEE 802.11 (in dBm)															
		SISO Antenna 1 & Antenna 2								MIMO							
		b		g		n		ax (SU)		b (CDD + STBC)		g (CDD + STBC)		n (CDD + STBC, SDM)		ax (SU) (CDD + STBC, SDM)	
		Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum
2.4 GHz WiFi	2.45 GHz	10.0 Ch. 12: 5.0 Ch. 13: -1.0	11.0 Ch. 12: 6.0 Ch. 13: 0.0	10.0 Ch. 12: 5.0 Ch. 13: -1.0	11.0 Ch. 12: 6.0 Ch. 13: 0.0	10.0 Ch. 12: 5.0 Ch. 13: -1.0	11.0 Ch. 12: 6.0 Ch. 13: 0.0	10.0 Ch. 12: 5.0 Ch. 13: -1.0	11.0 Ch. 12: 6.0 Ch. 13: 0.0	13.0 Ch. 12: 8.0 Ch. 13: 2.0	14.0 Ch. 12: 9.0 Ch. 13: 3.0	13.0 Ch. 12: 8.0 Ch. 13: 2.0	14.0 Ch. 12: 9.0 Ch. 13: 3.0	13.0 Ch. 12: 8.0 Ch. 13: 2.0	14.0 Ch. 12: 9.0 Ch. 13: 3.0	13.0 Ch. 12: 8.0 Ch. 13: 2.0	14.0 Ch. 12: 9.0 Ch. 13: 3.0

(Upper tolerance: target + 1.0 dB)

The below table is applicable in the following conditions:

- RCV active

Mode	Single Antenna	
	Antenna 1 & Antenna 2	
	Nominal	Maximum
Bluetooth (in dBm)	9.5	10.5
Bluetooth EDR (in dBm)	9.5	10.5
Bluetooth LE 2Mbps (in dBm)	6.0	7.0
Bluetooth LE 1Mbps, 125/500 kbps (in dBm)	6.0	7.0

(Upper tolerance: target + 1.0 dB)

The below table is applicable in the following conditions:

- Simultaneous conditions with 5/6 GHz WLAN

Mode	Single Antenna	
	Antenna 1 & Antenna 2	
	Nominal	Maximum
Bluetooth (in dBm)	11.0	12.0
Bluetooth EDR (in dBm)	11.0	12.0
Bluetooth LE 2Mbps (in dBm)	6.0	7.0
Bluetooth LE 1Mbps, 125/500 kbps (in dBm)	6.0	7.0

(Upper tolerance: target + 1.0 dB)

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The below table is applicable in the following conditions:

- Simultaneous conditions with 5G NR

Mode	Single Antenna	
	Antenna 1 & Antenna 2	
	Nominal	Maximum
Bluetooth (in dBm)	14.5	15.5
Bluetooth EDR (in dBm)	13.5	14.5
Bluetooth LE 2Mbps (in dBm)	6.0	7.0
Bluetooth LE 1Mbps, 125/500 kbps (in dBm)	6.0	7.0

(Upper tolerance: target + 1.0 dB)

1.4.4 5 GHz Maximum SISO/MIMO WLAN Output Power

Note: Targets for 802.11ax RU operations can be found in Appendix I

Mode	Band	IEEE 802.11 (in dBm)															
		SISO Antenna 1 & Antenna 2								MIMO							
		a		n		ac		ax (SU)		a (CDD + STBC)		n (CDD + STBC, SDM)		ac (CDD + STBC, SDM)		ax (SU) (CDD + STBC, SDM)	
		Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum
5 GHz WiFi (20MHz BW)	5200 MHz	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	20.0	21.0	20.0	21.0	20.0	21.0	20.0	21.0
	5300 MHz	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	20.0	21.0	20.0	21.0	20.0	21.0	20.0	21.0
	5500 MHz	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	20.0	21.0	20.0	21.0	20.0	21.0	20.0	21.0
	5800 MHz	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	20.0	21.0	20.0	21.0	20.0	21.0	20.0	21.0
5 GHz WiFi (40MHz BW)	5200 MHz			16.0	17.0	16.0	17.0	16.0	17.0			19.0	20.0	19.0	20.0	19.0	20.0
	5300 MHz			16.0	17.0	16.0	17.0	16.0	17.0			19.0	20.0	19.0	20.0	19.0	20.0
	5500 MHz			16.0	17.0	16.0	17.0	16.0	17.0			19.0	20.0	19.0	20.0	19.0	20.0
	5800 MHz			16.0	17.0	16.0	17.0	16.0	17.0			19.0	20.0	19.0	20.0	19.0	20.0
5 GHz WiFi (80MHz BW)	5200 MHz					15.0	16.0	15.0	16.0					18.0	19.0	18.0	19.0
	5300 MHz					15.0	16.0	15.0	16.0					18.0	19.0	18.0	19.0
	5500 MHz					15.0	16.0	15.0	16.0					18.0	19.0	18.0	19.0
	5800 MHz					15.0	16.0	15.0	16.0					18.0	19.0	18.0	19.0
5 GHz WiFi (160MHz BW)	5250 MHz					14.0	15.0	14.0	15.0					17.0	18.0	17.0	18.0
	5570 MHz					14.0	15.0	14.0	15.0					17.0	18.0	17.0	18.0

(Upper tolerance: target + 1.0 dB)

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1.4.5 5 GHz Reduced WLAN Output Power

Note: Targets for 802.11ax RU operations can be found in Appendix I

The below table is applicable in the following conditions:

- Simultaneous conditions with 2.4 GHz WLAN
- Simultaneous conditions with 5G NR

Mode	Band	IEEE 802.11 (in dBm)															
		SISO Antenna 1 & Antenna 2								MIMO							
		a		n		ac		ax (SU)		a (CDD + STBC)		n (CDD + STBC, SDM)		ac (CDD + STBC, SDM)		ax (SU) (CDD + STBC, SDM)	
		Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum
5 GHz WiFi (20MHz BW)	5200 MHz	14.0	15.0	14.0	15.0	14.0	15.0	14.0	15.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0
	5300 MHz	14.0	15.0	14.0	15.0	14.0	15.0	14.0	15.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0
	5500 MHz	14.0	15.0	14.0	15.0	14.0	15.0	14.0	15.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0
	5800 MHz	14.0	15.0	14.0	15.0	14.0	15.0	14.0	15.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0
5 GHz WiFi (40MHz BW)	5200 MHz			14.0	15.0	14.0	15.0	14.0	15.0			17.0	18.0	17.0	18.0	17.0	18.0
	5300 MHz			14.0	15.0	14.0	15.0	14.0	15.0			17.0	18.0	17.0	18.0	17.0	18.0
	5500 MHz			14.0	15.0	14.0	15.0	14.0	15.0			17.0	18.0	17.0	18.0	17.0	18.0
	5800 MHz			14.0	15.0	14.0	15.0	14.0	15.0			17.0	18.0	17.0	18.0	17.0	18.0
5 GHz WiFi (80MHz BW)	5200 MHz					14.0	15.0	14.0	15.0					17.0	18.0	17.0	18.0
	5300 MHz					14.0	15.0	14.0	15.0					17.0	18.0	17.0	18.0
	5500 MHz					14.0	15.0	14.0	15.0					17.0	18.0	17.0	18.0
	5800 MHz					14.0	15.0	14.0	15.0					17.0	18.0	17.0	18.0
5 GHz WiFi (160MHz BW)	5250 MHz					14.0	15.0	14.0	15.0					17.0	18.0	17.0	18.0
	5570 MHz					14.0	15.0	14.0	15.0					17.0	18.0	17.0	18.0

(Upper tolerance: target + 1.0 dB)

The below table is applicable in the following conditions:

- RCV Active
- RCV Active during simultaneous conditions with 2.4 GHz WLAN
- RCV Active during simultaneous conditions with 5G NR

Mode	Band	IEEE 802.11 (in dBm)															
		SISO Antenna 1 & Antenna 2								MIMO							
		a		n		ac		ax (SU)		a (CDD + STBC)		n (CDD + STBC, SDM)		ac (CDD + STBC, SDM)		ax (SU) (CDD + STBC, SDM)	
		Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum	Nominal	Maximum
5 GHz WiFi (20MHz BW)	5200 MHz	11.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0	14.0	15.0	14.0	15.0	14.0	15.0	14.0	15.0
	5300 MHz	11.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0	14.0	15.0	14.0	15.0	14.0	15.0	14.0	15.0
	5500 MHz	11.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0	14.0	15.0	14.0	15.0	14.0	15.0	14.0	15.0
	5800 MHz	11.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0	14.0	15.0	14.0	15.0	14.0	15.0	14.0	15.0
5 GHz WiFi (40MHz BW)	5200 MHz			11.0	12.0	11.0	12.0	11.0	12.0			14.0	15.0	14.0	15.0	14.0	15.0
	5300 MHz			11.0	12.0	11.0	12.0	11.0	12.0			14.0	15.0	14.0	15.0	14.0	15.0
	5500 MHz			11.0	12.0	11.0	12.0	11.0	12.0			14.0	15.0	14.0	15.0	14.0	15.0
	5800 MHz			11.0	12.0	11.0	12.0	11.0	12.0			14.0	15.0	14.0	15.0	14.0	15.0
5 GHz WiFi (80MHz BW)	5200 MHz					11.0	12.0	11.0	12.0					14.0	15.0	14.0	15.0
	5300 MHz					11.0	12.0	11.0	12.0					14.0	15.0	14.0	15.0
	5500 MHz					11.0	12.0	11.0	12.0					14.0	15.0	14.0	15.0
	5800 MHz					11.0	12.0	11.0	12.0					14.0	15.0	14.0	15.0
5 GHz WiFi (160MHz BW)	5250 MHz					11.0	12.0	11.0	12.0					14.0	15.0	14.0	15.0
	5570 MHz					11.0	12.0	11.0	12.0					14.0	15.0	14.0	15.0

(Upper tolerance: target + 1.0 dB)

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1.5 DUT Antenna Locations

The overall dimensions of this device are > 9 x 5 cm. A diagram showing the location of the device antennas can be found in Appendix E. This device is considered a "phablet" when it is in closed configuration and a "UMPC mini-tablet" when it is in open configuration. Exact antenna dimensions and separation distances are shown in the Technical Descriptions in the FCC filing

Table 1-1
Device Edges/Sides for Closed Configuration SAR Testing

Mode	Back	Front	Top	Bottom	Right	Left
EVDO BC10 (\$90S) Ant A	Yes	Yes	No	Yes	Yes	No
EVDO BC10 (\$90S) Ant A + B	Yes	Yes	No	Yes	Yes	Yes
EVDO BC0 (\$22H) Ant A	Yes	Yes	No	Yes	Yes	No
EVDO BC0 (\$22H) Ant A + B	Yes	Yes	No	Yes	Yes	Yes
PCS EVDO	Yes	Yes	No	Yes	Yes	Yes
GPRS 850 Ant A	Yes	Yes	No	Yes	Yes	No
GPRS 850 Ant A + B	Yes	Yes	No	Yes	Yes	Yes
GPRS 1900	Yes	Yes	No	Yes	Yes	Yes
UMTS 850 Ant A	Yes	Yes	No	Yes	Yes	No
UMTS 850 Ant A + B	Yes	Yes	No	Yes	Yes	Yes
UMTS 1750	Yes	Yes	No	Yes	Yes	Yes
UMTS 1900	Yes	Yes	No	Yes	Yes	Yes
LTE Band 71 Ant A + B	Yes	Yes	No	Yes	Yes	Yes
LTE Band 71 Ant A	Yes	Yes	No	Yes	Yes	No
LTE Band 12 Ant A + B	Yes	Yes	No	Yes	Yes	Yes
LTE Band 12 Ant A	Yes	Yes	No	Yes	Yes	No
LTE Band 13 Ant A + B	Yes	Yes	No	Yes	Yes	Yes
LTE Band 13 Ant A	Yes	Yes	No	Yes	Yes	No
LTE Band 14 Ant A + B	Yes	Yes	No	Yes	Yes	Yes
LTE Band 14 Ant A	Yes	Yes	No	Yes	Yes	No
LTE Band 26 (Cell) Ant A	Yes	Yes	No	Yes	Yes	No
LTE Band 26 (Cell) Ant A + B	Yes	Yes	No	Yes	Yes	Yes
LTE Band 5 (Cell) Ant A	Yes	Yes	No	Yes	Yes	No
LTE Band 5 (Cell) Ant A + B	Yes	Yes	No	Yes	Yes	Yes
LTE Band 66 (AWS) Ant B	Yes	Yes	No	Yes	Yes	Yes
LTE Band 66 (AWS) Ant E	Yes	Yes	Yes	No	No	Yes
LTE Band 25 (PCS)	Yes	Yes	No	Yes	Yes	Yes
LTE Band 30	Yes	Yes	No	Yes	Yes	Yes
LTE Band 7	Yes	Yes	No	Yes	Yes	Yes
LTE Band 48	Yes	Yes	Yes	No	No	Yes
LTE Band 41	Yes	Yes	No	Yes	Yes	Yes
NR Band n71 Antenna A + B	Yes	Yes	No	Yes	Yes	Yes
NR Band n71 Antenna A	Yes	Yes	No	Yes	Yes	No
NR Band n12 Antenna A + B	Yes	Yes	No	Yes	Yes	Yes
NR Band n12 Antenna A	Yes	Yes	No	Yes	Yes	No
NR Band n5 (Cell) Antenna A	Yes	Yes	No	Yes	Yes	No
NR Band n5 (Cell) Antenna A + B	Yes	Yes	No	Yes	Yes	Yes
NR Band n66 (AWS) Antenna B	Yes	Yes	No	Yes	Yes	Yes
NR Band n66 (AWS) Antenna E	Yes	Yes	Yes	No	No	Yes
NR Band n25 (PCS) Antenna B	Yes	Yes	No	Yes	Yes	Yes
NR Band n25 (PCS) Antenna E	Yes	Yes	Yes	No	No	Yes
NR Band n30	Yes	Yes	No	Yes	Yes	Yes
NR Band n41	Yes	Yes	Yes	No	No	Yes
NR Band n77 DoD Antenna E	Yes	Yes	Yes	No	No	Yes
NR Band n77 DoD Antenna G	Yes	Yes	No	No	Yes	No
NR Band n77 DoD Antenna F	Yes	Yes	Yes	No	Yes	Yes
NR Band n77 DoD Antenna B	Yes	Yes	No	Yes	Yes	Yes
NR Band n77 Antenna E	Yes	Yes	Yes	No	No	Yes
NR Band n77 Antenna G	Yes	Yes	No	No	Yes	No
NR Band n77 Antenna F	Yes	Yes	Yes	No	Yes	Yes
NR Band n77 Antenna B	Yes	Yes	No	Yes	Yes	Yes
2.4 GHz WLAN Ant 1	Yes	Yes	Yes	No	No	Yes
2.4 GHz WLAN Ant 2	Yes	Yes	No	Yes	No	Yes
5 GHz WLAN Ant 1	Yes	Yes	Yes	No	No	Yes
5 GHz WLAN MIMO	Yes	Yes	Yes	Yes	No	Yes
2.4 GHz Bluetooth Ant 1	Yes	Yes	Yes	No	No	Yes
2.4 GHz Bluetooth Ant 2	Yes	Yes	No	Yes	No	Yes

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Table 1-2
Device Edges/Sides for Open Configuration SAR Testing

Mode	Back	Front	Top	Bottom	Right	Left
EVDO BC10 (\$90S) Ant A + B	Yes	Yes	No	Yes	Yes	No
EVDO BC0 (\$22H) Ant A + B	Yes	Yes	No	Yes	Yes	No
PCS EVDO	Yes	Yes	No	Yes	Yes	No
GPRS 850 Ant A + B	Yes	Yes	No	Yes	Yes	No
GPRS 1900	Yes	Yes	No	Yes	Yes	No
UMTS 850 Ant A + B	Yes	Yes	No	Yes	Yes	No
UMTS 1750	Yes	Yes	No	Yes	Yes	No
UMTS 1900	Yes	Yes	No	Yes	Yes	No
LTE Band 71 Ant A + B	Yes	Yes	No	Yes	Yes	No
LTE Band 12 Ant A + B	Yes	Yes	No	Yes	Yes	No
LTE Band 13 Ant A + B	Yes	Yes	No	Yes	Yes	No
LTE Band 14 Ant A + B	Yes	Yes	No	Yes	Yes	No
LTE Band 26 (Cell) Ant A + B	Yes	Yes	No	Yes	Yes	No
LTE Band 5 (Cell) Ant A + B	Yes	Yes	No	Yes	Yes	No
LTE Band 66 (AWS) Ant B	Yes	Yes	No	Yes	Yes	No
LTE Band 66 (AWS) Ant E	Yes	Yes	Yes	No	No	No
LTE Band 25 (PCS)	Yes	Yes	No	Yes	Yes	No
LTE Band 30	Yes	Yes	No	Yes	Yes	No
LTE Band 7	Yes	Yes	No	Yes	Yes	No
LTE Band 48	Yes	Yes	Yes	No	No	No
LTE Band 41	Yes	Yes	No	Yes	Yes	No
NR Band n71 Antenna A + B	Yes	Yes	No	Yes	Yes	No
NR Band n12 Antenna A + B	Yes	Yes	No	Yes	Yes	No
NR Band n5 (Cell) Antenna A + B	Yes	Yes	No	Yes	Yes	No
NR Band n66 (AWS) Antenna B	Yes	Yes	No	Yes	Yes	No
NR Band n66 (AWS) Antenna E	Yes	Yes	Yes	No	No	No
NR Band n25 (PCS) Antenna B	Yes	Yes	No	Yes	Yes	No
NR Band n25 (PCS) Antenna E	Yes	Yes	Yes	No	No	No
NR Band n30	Yes	Yes	No	Yes	Yes	No
NR Band n41	Yes	Yes	Yes	No	No	No
NR Band n77 DoD Antenna E	Yes	Yes	Yes	No	No	No
NR Band n77 DoD Antenna G	Yes	Yes	No	No	Yes	No
NR Band n77 DoD Antenna F	Yes	Yes	Yes	No	Yes	No
NR Band n77 DoD Antenna B	Yes	Yes	No	Yes	Yes	No
NR Band n77 Antenna E	Yes	Yes	Yes	No	No	No
NR Band n77 Antenna G	Yes	Yes	No	No	Yes	No
NR Band n77 Antenna F	Yes	Yes	Yes	No	Yes	No
NR Band n77 Antenna B	Yes	Yes	No	Yes	Yes	No
2.4 GHz WLAN Ant 1	Yes	Yes	Yes	No	No	No
2.4 GHz WLAN Ant 2	Yes	Yes	No	Yes	No	No
2.4 GHz WLAN MIMO	Yes	Yes	Yes	Yes	No	No
5 GHz WLAN Ant 1	Yes	Yes	Yes	No	No	No
5 GHz WLAN MIMO	Yes	Yes	Yes	Yes	No	No
2.4 GHz Bluetooth Ant 1	Yes	Yes	Yes	No	No	No
2.4 GHz Bluetooth Ant 2	Yes	Yes	No	Yes	No	No

Note: Particular DUT edges were not required to be evaluated for wireless router SAR, phablet SAR or UMPC mini-tablet SAR if the edges were greater than 2.5 cm from the transmitting antenna according to FCC KDB Publication 941225 D06v02r01 Section III, FCC KDB Publication 941225 D07v01r02 and FCC KDB Publication 648474 D04v01r03. The distances between the transmit antennas and the edges of the device are included in the filing. When wireless router mode is enabled, U-NII-1, U-NII-2A, U-NII-2C operations are disabled.

1.6 Near Field Communications (NFC) Antenna

This DUT has NFC operations. The NFC antenna is integrated into the device for this model. Therefore, all SAR tests were performed with the device which already incorporates the NFC antenna. A diagram showing the location of the NFC antenna can be found in Appendix E.

1.7 Simultaneous Transmission Capabilities

According to FCC KDB Publication 447498 D01v06, transmitters are considered to be operating simultaneously when there is overlapping transmission, with the exception of transmissions during network hand-offs with maximum hand-off duration less than 30 seconds.

This device contains multiple transmitters that may operate simultaneously, and therefore requires a simultaneous transmission analysis according to FCC KDB Publication 447498 D01v06 4.3.2 procedures.

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Table 1-3
Simultaneous Transmission Scenarios

No.	Capable Transmit Configuration	Head	Body-Worn Accessory	Wireless Router	Phablet	UMPC Body	UMPC Extremity	Notes
1	1x CDMA voice + 2.4 GHz WLAN MIMO	Yes	Yes	N/A	Yes	Yes	Yes	
2	1x CDMA voice + 2.4 GHz WLAN MIMO + 5 GHz WLAN MIMO	Yes	Yes	N/A	Yes	Yes	Yes	
3	1x CDMA voice + 2.4 GHz WLAN MIMO + 6 GHz WLAN MIMO	Yes	Yes	N/A	Yes	Yes	Yes	
4	1x CDMA voice + 2.4 GHz WLAN Ant 2 + 2.4 GHz Bluetooth Ant 1	Yes^	Yes	N/A	Yes	Yes	Yes	^ Bluetooth Tethering is considered
5	1x CDMA voice + 2.4 GHz WLAN Ant 2 + 5 GHz WLAN MIMO + 2.4 GHz Bluetooth Ant 1	Yes^	Yes	N/A	Yes	Yes	Yes	^ Bluetooth Tethering is considered
6	1x CDMA voice + 2.4 GHz WLAN Ant 2 + 6 GHz WLAN MIMO + 2.4 GHz Bluetooth Ant 1	Yes^	Yes	N/A	Yes	Yes	Yes	^ Bluetooth Tethering is considered
7	1x CDMA voice + 5 GHz WLAN Ant 1	Yes	Yes	N/A	Yes	Yes	Yes	
8	1x CDMA voice + 5 GHz WLAN MIMO	Yes	Yes	N/A	Yes	Yes	Yes	
9	1x CDMA voice + 5 GHz WLAN MIMO + 2.4 GHz Bluetooth Ant 1	Yes^	Yes	N/A	Yes	Yes	Yes	^ Bluetooth Tethering is considered
10	1x CDMA voice + 5 GHz WLAN MIMO + 2.4 GHz Bluetooth Ant 2	Yes^	Yes	N/A	Yes	Yes	Yes	^ Bluetooth Tethering is considered
11	1x CDMA voice + 6 GHz WLAN MIMO	Yes	Yes	N/A	Yes	Yes	Yes	
12	1x CDMA voice + 6 GHz WLAN MIMO + 2.4 GHz Bluetooth Ant 1	Yes^	Yes	N/A	Yes	Yes	Yes	^ Bluetooth Tethering is considered
13	1x CDMA voice + 6 GHz WLAN MIMO + 2.4 GHz Bluetooth Ant 2	Yes^	Yes	N/A	Yes	Yes	Yes	^ Bluetooth Tethering is considered
14	1x CDMA voice + 2.4 GHz Bluetooth Ant 1	Yes^	Yes	N/A	Yes	Yes	Yes	^ Bluetooth Tethering is considered
15	1x CDMA voice + 2.4 GHz Bluetooth Ant 2	Yes^	Yes	N/A	Yes	Yes	Yes	^ Bluetooth Tethering is considered
16	GSM voice + 2.4 GHz WLAN MIMO	Yes	Yes	N/A	Yes	Yes	Yes	
17	GSM voice + 2.4 GHz WLAN MIMO + 5 GHz WLAN MIMO	Yes	Yes	N/A	Yes	Yes	Yes	
18	GSM voice + 2.4 GHz WLAN MIMO + 6 GHz WLAN MIMO	Yes	Yes	N/A	Yes	Yes	Yes	
19	GSM voice + 2.4 GHz WLAN Ant 2 + 2.4 GHz Bluetooth Ant 1	Yes^	Yes	N/A	Yes	Yes	Yes	^ Bluetooth Tethering is considered
20	GSM voice + 2.4 GHz WLAN Ant 2 + 5 GHz WLAN MIMO + 2.4 GHz Bluetooth Ant 1	Yes^	Yes	N/A	Yes	Yes	Yes	^ Bluetooth Tethering is considered
21	GSM voice + 2.4 GHz WLAN Ant 2 + 6 GHz WLAN MIMO + 2.4 GHz Bluetooth Ant 1	Yes^	Yes	N/A	Yes	Yes	Yes	^ Bluetooth Tethering is considered
22	GSM voice + 5 GHz WLAN Ant 1	Yes	Yes	N/A	Yes	Yes	Yes	
23	GSM voice + 5 GHz WLAN MIMO	Yes	Yes	N/A	Yes	Yes	Yes	
24	GSM voice + 5 GHz WLAN MIMO + 2.4 GHz Bluetooth Ant 1	Yes^	Yes	N/A	Yes	Yes	Yes	^ Bluetooth Tethering is considered
25	GSM voice + 5 GHz WLAN MIMO + 2.4 GHz Bluetooth Ant 2	Yes^	Yes	N/A	Yes	Yes	Yes	^ Bluetooth Tethering is considered
26	GSM voice + 6 GHz WLAN MIMO	Yes	Yes	N/A	Yes	Yes	Yes	
27	GSM voice + 6 GHz WLAN MIMO + 2.4 GHz Bluetooth Ant 1	Yes^	Yes	N/A	Yes	Yes	Yes	^ Bluetooth Tethering is considered
28	GSM voice + 6 GHz WLAN MIMO + 2.4 GHz Bluetooth Ant 2	Yes^	Yes	N/A	Yes	Yes	Yes	^ Bluetooth Tethering is considered
29	GSM voice + 2.4 GHz Bluetooth Ant 1	Yes^	Yes	N/A	Yes	Yes	Yes	^ Bluetooth Tethering is considered
30	GSM voice + 2.4 GHz Bluetooth Ant 2	Yes^	Yes	N/A	Yes	Yes	Yes	^ Bluetooth Tethering is considered
31	UMTS + 2.4 GHz WLAN MIMO	Yes	Yes	Yes	Yes	Yes	Yes	
32	UMTS + 2.4 GHz WLAN MIMO + 5 GHz WLAN MIMO	Yes	Yes	Yes	Yes	Yes	Yes	
33	UMTS + 2.4 GHz WLAN MIMO + 6 GHz WLAN MIMO	Yes	Yes	N/A	Yes	Yes	Yes	
34	UMTS + 2.4 GHz WLAN Ant 2 + 2.4 GHz Bluetooth Ant 1	Yes^	Yes	Yes^	Yes	Yes	Yes	^ Bluetooth Tethering is considered
35	UMTS + 2.4 GHz WLAN Ant 2 + 5 GHz WLAN MIMO + 2.4 GHz Bluetooth Ant 1	Yes^	Yes	Yes^	Yes	Yes	Yes	^ Bluetooth Tethering is considered
36	UMTS + 2.4 GHz WLAN Ant 2 + 6 GHz WLAN MIMO + 2.4 GHz Bluetooth Ant 1	Yes^	Yes	N/A	Yes	Yes	Yes	^ Bluetooth Tethering is considered
37	UMTS + 5 GHz WLAN Ant 1	Yes	Yes	Yes	Yes	Yes	Yes	
38	UMTS + 5 GHz WLAN MIMO	Yes	Yes	Yes	Yes	Yes	Yes	
39	UMTS + 5 GHz WLAN MIMO + 2.4 GHz Bluetooth Ant 1	Yes^	Yes	Yes^	Yes	Yes	Yes	^ Bluetooth Tethering is considered
40	UMTS + 5 GHz WLAN MIMO + 2.4 GHz Bluetooth Ant 2	Yes^	Yes	Yes^	Yes	Yes	Yes	^ Bluetooth Tethering is considered
41	UMTS + 6 GHz WLAN MIMO	Yes	Yes	N/A	Yes	Yes	Yes	
42	UMTS + 6 GHz WLAN MIMO + 2.4 GHz Bluetooth Ant 1	Yes^	Yes	N/A	Yes	Yes	Yes	^ Bluetooth Tethering is considered
43	UMTS + 6 GHz WLAN MIMO + 2.4 GHz Bluetooth Ant 2	Yes^	Yes	N/A	Yes	Yes	Yes	^ Bluetooth Tethering is considered
44	UMTS + 2.4 GHz Bluetooth Ant 1	Yes^	Yes	Yes^	Yes	Yes	Yes	^ Bluetooth Tethering is considered
45	UMTS + 2.4 GHz Bluetooth Ant 2	Yes^	Yes	Yes^	Yes	Yes	Yes	^ Bluetooth Tethering is considered
46	LTE + 2.4 GHz WLAN MIMO	Yes	Yes	Yes	Yes	Yes	Yes	
47	LTE + 2.4 GHz WLAN MIMO + 5 GHz WLAN MIMO	Yes	Yes	Yes	Yes	Yes	Yes	
48	LTE + 2.4 GHz WLAN MIMO + 6 GHz WLAN MIMO	Yes	Yes	N/A	Yes	Yes	Yes	
49	LTE + 2.4 GHz WLAN Ant 2 + 2.4 GHz Bluetooth Ant 1	Yes^	Yes	Yes^	Yes	Yes	Yes	^ Bluetooth Tethering is considered
50	LTE + 2.4 GHz WLAN Ant 2 + 5 GHz WLAN MIMO + 2.4 GHz Bluetooth Ant 1	Yes^	Yes	Yes^	Yes	Yes	Yes	^ Bluetooth Tethering is considered
51	LTE + 2.4 GHz WLAN Ant 2 + 6 GHz WLAN MIMO + 2.4 GHz Bluetooth Ant 1	Yes^	Yes	N/A	Yes	Yes	Yes	^ Bluetooth Tethering is considered
52	LTE + 5 GHz WLAN Ant 1	Yes	Yes	Yes	Yes	Yes	Yes	
53	LTE + 5 GHz WLAN MIMO	Yes	Yes	Yes	Yes	Yes	Yes	
54	LTE + 5 GHz WLAN MIMO + 2.4 GHz Bluetooth Ant 1	Yes^	Yes	Yes^	Yes	Yes	Yes	^ Bluetooth Tethering is considered
55	LTE + 5 GHz WLAN MIMO + 2.4 GHz Bluetooth Ant 2	Yes^	Yes	Yes^	Yes	Yes	Yes	^ Bluetooth Tethering is considered
56	LTE + 6 GHz WLAN MIMO	Yes	Yes	N/A	Yes	Yes	Yes	
57	LTE + 6 GHz WLAN MIMO + 2.4 GHz Bluetooth Ant 1	Yes^	Yes	N/A	Yes	Yes	Yes	^ Bluetooth Tethering is considered
58	LTE + 6 GHz WLAN MIMO + 2.4 GHz Bluetooth Ant 2	Yes^	Yes	N/A	Yes	Yes	Yes	^ Bluetooth Tethering is considered
59	LTE + 2.4 GHz Bluetooth Ant 1	Yes^	Yes	Yes^	Yes	Yes	Yes	^ Bluetooth Tethering is considered
60	LTE + 2.4 GHz Bluetooth Ant 2	Yes^	Yes	Yes^	Yes	Yes	Yes	^ Bluetooth Tethering is considered
61	LTE + NR	Yes	Yes	N/A	Yes	Yes	Yes	
62	LTE + NR + 2.4 GHz WLAN MIMO	Yes	Yes	Yes	Yes	Yes	Yes	
63	LTE + NR + 2.4 GHz WLAN MIMO + 5 GHz WLAN MIMO	Yes	Yes	Yes	Yes	Yes	Yes	
64	LTE + NR + 2.4 GHz WLAN MIMO + 6 GHz WLAN MIMO	Yes	Yes	N/A	Yes	Yes	Yes	
65	LTE + NR + 2.4 GHz WLAN Ant 2 + 2.4 GHz Bluetooth Ant 1	Yes^	Yes	Yes^	Yes	Yes	Yes	^ Bluetooth Tethering is considered
66	LTE + NR + 2.4 GHz WLAN Ant 2 + 5 GHz WLAN MIMO + 2.4 GHz Bluetooth Ant 1	Yes^	Yes	Yes^	Yes	Yes	Yes	^ Bluetooth Tethering is considered
67	LTE + NR + 2.4 GHz WLAN Ant 2 + 6 GHz WLAN MIMO + 2.4 GHz Bluetooth Ant 1	Yes^	Yes	N/A	Yes	Yes	Yes	^ Bluetooth Tethering is considered
68	LTE + NR + 5 GHz WLAN Ant 1	Yes	Yes	Yes	Yes	Yes	Yes	
69	LTE + NR + 5 GHz WLAN MIMO	Yes	Yes	Yes	Yes	Yes	Yes	
70	LTE + NR + 5 GHz WLAN MIMO + 2.4 GHz Bluetooth Ant 1	Yes^	Yes	Yes^	Yes	Yes	Yes	^ Bluetooth Tethering is considered
71	LTE + NR + 5 GHz WLAN MIMO + 2.4 GHz Bluetooth Ant 2	Yes^	Yes	Yes^	Yes	Yes	Yes	^ Bluetooth Tethering is considered
72	LTE + NR + 6 GHz WLAN MIMO	Yes	Yes	N/A	Yes	Yes	Yes	
73	LTE + NR + 6 GHz WLAN MIMO + 2.4 GHz Bluetooth Ant 1	Yes^	Yes	N/A	Yes	Yes	Yes	^ Bluetooth Tethering is considered
74	LTE + NR + 6 GHz WLAN MIMO + 2.4 GHz Bluetooth Ant 2	Yes^	Yes	N/A	Yes	Yes	Yes	^ Bluetooth Tethering is considered
75	LTE + NR + 2.4 GHz Bluetooth Ant 1	Yes^	Yes	Yes^	Yes	Yes	Yes	^ Bluetooth Tethering is considered
76	LTE + NR + 2.4 GHz Bluetooth Ant 2	Yes^	Yes	Yes^	Yes	Yes	Yes	^ Bluetooth Tethering is considered

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Table 1-4
Simultaneous Transmission Scenarios Continued

No.	Capable Transmit Configuration	Head	Body-Worn Accessory	Wireless Router	Phablet	UMPC Body	UMPC Extremity	Notes
77	NR + 2.4 GHz WLAN MIMO	Yes*	Yes*	Yes	Yes	Yes	Yes	* Pre-installed VOIP applications are considered.
78	NR + 2.4 GHz WLAN MIMO + 5 GHz WLAN MIMO	Yes*	Yes*	Yes	Yes	Yes	Yes	* Pre-installed VOIP applications are considered.
79	NR + 2.4 GHz WLAN MIMO + 6 GHz WLAN MIMO	Yes*	Yes*	N/A	Yes	Yes	Yes	* Pre-installed VOIP applications are considered.
80	NR + 2.4 GHz WLAN Ant 2 + 2.4 GHz Bluetooth Ant 1	Yes^A	Yes*	Yes^A	Yes	Yes	Yes	* Pre-installed VOIP applications are considered. ^ Bluetooth Tethering is considered
81	NR + 2.4 GHz WLAN Ant 2 + 5 GHz WLAN MIMO + 2.4 GHz Bluetooth Ant 1	Yes^A	Yes*	Yes^A	Yes	Yes	Yes	* Pre-installed VOIP applications are considered. ^ Bluetooth Tethering is considered
82	NR + 2.4 GHz WLAN Ant 2 + 6 GHz WLAN MIMO + 2.4 GHz Bluetooth Ant 1	Yes^A	Yes*	N/A	Yes	Yes	Yes	* Pre-installed VOIP applications are considered. ^ Bluetooth Tethering is considered
83	NR + 5 GHz WLAN Ant 1	Yes*	Yes*	Yes	Yes	Yes	Yes	* Pre-installed VOIP applications are considered.
84	NR + 5 GHz WLAN MIMO	Yes*	Yes*	Yes	Yes	Yes	Yes	* Pre-installed VOIP applications are considered.
85	NR + 5 GHz WLAN MIMO + 2.4 GHz Bluetooth Ant 1	Yes^A	Yes*	Yes^A	Yes	Yes	Yes	* Pre-installed VOIP applications are considered. ^ Bluetooth Tethering is considered
86	NR + 5 GHz WLAN MIMO + 2.4 GHz Bluetooth Ant 2	Yes^A	Yes*	Yes^A	Yes	Yes	Yes	* Pre-installed VOIP applications are considered. ^ Bluetooth Tethering is considered
87	NR + 6 GHz WLAN MIMO	Yes*	Yes*	N/A	Yes	Yes	Yes	* Pre-installed VOIP applications are considered.
88	NR + 6 GHz WLAN MIMO + 2.4 GHz Bluetooth Ant 1	Yes^A	Yes*	N/A	Yes	Yes	Yes	* Pre-installed VOIP applications are considered. ^ Bluetooth Tethering is considered
89	NR + 6 GHz WLAN MIMO + 2.4 GHz Bluetooth Ant 2	Yes^A	Yes*	N/A	Yes	Yes	Yes	* Pre-installed VOIP applications are considered. ^ Bluetooth Tethering is considered
90	NR + 2.4 GHz Bluetooth Ant 1	Yes^A	Yes*	Yes^A	Yes	Yes	Yes	* Pre-installed VOIP applications are considered. ^ Bluetooth Tethering is considered
91	NR + 2.4 GHz Bluetooth Ant 2	Yes^A	Yes*	Yes^A	Yes	Yes	Yes	* Pre-installed VOIP applications are considered. ^ Bluetooth Tethering is considered
92	CDMA/EVDO data + 2.4 GHz WLAN MIMO	Yes*	Yes*	Yes	Yes	Yes	Yes	* Pre-installed VOIP applications are considered.
93	CDMA/EVDO data + 2.4 GHz WLAN MIMO + 5 GHz WLAN MIMO	Yes*	Yes*	Yes	Yes	Yes	Yes	* Pre-installed VOIP applications are considered.
94	CDMA/EVDO data + 2.4 GHz WLAN MIMO + 6 GHz WLAN MIMO	Yes*	Yes*	N/A	Yes	Yes	Yes	* Pre-installed VOIP applications are considered.
95	CDMA/EVDO data + 2.4 GHz WLAN Ant 2 + 2.4 GHz Bluetooth Ant 1	Yes^A	Yes*	Yes^A	Yes	Yes	Yes	* Pre-installed VOIP applications are considered. ^ Bluetooth Tethering is considered
96	CDMA/EVDO data + 2.4 GHz WLAN Ant 2 + 5 GHz WLAN MIMO + 2.4 GHz Bluetooth Ant 1	Yes^A	Yes*	Yes^A	Yes	Yes	Yes	* Pre-installed VOIP applications are considered. ^ Bluetooth Tethering is considered
97	CDMA/EVDO data + 2.4 GHz WLAN Ant 2 + 6 GHz WLAN MIMO + 2.4 GHz Bluetooth Ant 1	Yes^A	Yes*	N/A	Yes	Yes	Yes	* Pre-installed VOIP applications are considered. ^ Bluetooth Tethering is considered
98	CDMA/EVDO data + 5 GHz WLAN Ant 1	Yes*	Yes*	Yes	Yes	Yes	Yes	* Pre-installed VOIP applications are considered.
99	CDMA/EVDO data + 5 GHz WLAN MIMO	Yes*	Yes*	Yes	Yes	Yes	Yes	* Pre-installed VOIP applications are considered.
100	CDMA/EVDO data + 5 GHz WLAN MIMO + 2.4 GHz Bluetooth Ant 1	Yes^A	Yes*	Yes^A	Yes	Yes	Yes	* Pre-installed VOIP applications are considered. ^ Bluetooth Tethering is considered
101	CDMA/EVDO data + 5 GHz WLAN MIMO + 2.4 GHz Bluetooth Ant 2	Yes^A	Yes*	Yes^A	Yes	Yes	Yes	* Pre-installed VOIP applications are considered. ^ Bluetooth Tethering is considered
102	CDMA/EVDO data + 6 GHz WLAN MIMO	Yes*	Yes*	N/A	Yes	Yes	Yes	* Pre-installed VOIP applications are considered.
103	CDMA/EVDO data + 6 GHz WLAN MIMO + 2.4 GHz Bluetooth Ant 1	Yes^A	Yes*	N/A	Yes	Yes	Yes	* Pre-installed VOIP applications are considered. ^ Bluetooth Tethering is considered
104	CDMA/EVDO data + 6 GHz WLAN MIMO + 2.4 GHz Bluetooth Ant 2	Yes^A	Yes*	N/A	Yes	Yes	Yes	* Pre-installed VOIP applications are considered. ^ Bluetooth Tethering is considered
105	CDMA/EVDO data + 2.4 GHz Bluetooth Ant 1	Yes^A	Yes*	Yes^A	Yes	Yes	Yes	* Pre-installed VOIP applications are considered. ^ Bluetooth Tethering is considered
106	CDMA/EVDO data + 2.4 GHz Bluetooth Ant 2	Yes^A	Yes*	Yes^A	Yes	Yes	Yes	* Pre-installed VOIP applications are considered. ^ Bluetooth Tethering is considered
107	GPRS/EDGE + 2.4 GHz WLAN MIMO	N/A	N/A	Yes	Yes	Yes	Yes	
108	GPRS/EDGE + 2.4 GHz WLAN MIMO + 5 GHz WLAN MIMO	N/A	N/A	Yes	Yes	Yes	Yes	
109	GPRS/EDGE + 2.4 GHz WLAN MIMO + 6 GHz WLAN MIMO	N/A	N/A	N/A	Yes	Yes	Yes	
110	GPRS/EDGE + 2.4 GHz WLAN Ant 2 + 2.4 GHz Bluetooth Ant 1	N/A	N/A	Yes^A	Yes	Yes	Yes	^ Bluetooth Tethering is considered
111	GPRS/EDGE + 2.4 GHz WLAN Ant 2 + 5 GHz WLAN MIMO + 2.4 GHz Bluetooth Ant 1	N/A	N/A	Yes^A	Yes	Yes	Yes	^ Bluetooth Tethering is considered
112	GPRS/EDGE + 2.4 GHz WLAN Ant 2 + 6 GHz WLAN MIMO + 2.4 GHz Bluetooth Ant 1	N/A	N/A	N/A	Yes	Yes	Yes	^ Bluetooth Tethering is considered
113	GPRS/EDGE + 5 GHz WLAN Ant 1	N/A	N/A	Yes	Yes	Yes	Yes	
114	GPRS/EDGE + 5 GHz WLAN MIMO	N/A	N/A	Yes	Yes	Yes	Yes	
115	GPRS/EDGE + 5 GHz WLAN MIMO + 2.4 GHz Bluetooth Ant 1	N/A	N/A	Yes^A	Yes	Yes	Yes	^ Bluetooth Tethering is considered
116	GPRS/EDGE + 5 GHz WLAN MIMO + 2.4 GHz Bluetooth Ant 2	N/A	N/A	Yes^A	Yes	Yes	Yes	^ Bluetooth Tethering is considered
117	GPRS/EDGE + 6 GHz WLAN MIMO	N/A	N/A	N/A	Yes	Yes	Yes	
118	GPRS/EDGE + 6 GHz WLAN MIMO + 2.4 GHz Bluetooth Ant 1	N/A	N/A	N/A	Yes	Yes	Yes	^ Bluetooth Tethering is considered
119	GPRS/EDGE + 6 GHz WLAN MIMO + 2.4 GHz Bluetooth Ant 2	N/A	N/A	N/A	Yes	Yes	Yes	^ Bluetooth Tethering is considered
120	GPRS/EDGE + 2.4 GHz Bluetooth Ant 1	N/A	N/A	Yes^A	Yes	Yes	Yes	^ Bluetooth Tethering is considered
121	GPRS/EDGE + 2.4 GHz Bluetooth Ant 2	N/A	N/A	Yes^A	Yes	Yes	Yes	^ Bluetooth Tethering is considered

- 2.4 GHz WLAN ant 1, and 2.4 GHz Bluetooth 1 share the same antenna path and cannot transmit simultaneously.
- 5 GHz WLAN and 6 GHz WLAN share the same antenna path and cannot transmit simultaneously.
- All licensed modes share the same antenna path and cannot transmit simultaneously.
- When the user utilizes multiple services in UMTS 3G mode it uses multi-Radio Access Bearer or multi-RAB. The power control is based on a physical control channel (Dedicated Physical Control Channel [DPCCH]) and power control will be adjusted to meet the needs of both services. Therefore, the UMTS+WLAN scenario also represents the UMTS Voice/DATA + WLAN Hotspot scenario.
- Per the manufacturer, WIFI Direct is not expected to be used in conjunction with a held-to-ear or body-worn accessory voice call. Therefore, there are no simultaneous transmission scenarios involving WIFI direct beyond that listed in the above table.
- 5 GHz Wireless Router is only supported for the U-NII-3 by S/W, therefore U-NII-1, U-NII-2A, and U-NII-2C were not evaluated for wireless router conditions.
- 6 GHz Wireless Router is not supported, therefore it was not evaluated for wireless router conditions.

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8. This device supports 2x2 MIMO Tx for WLAN 802.11a/g/n/ac/ax. 802.11a/g/n/ac/ax supports CDD and STBC and 802.11n/ac/ax additionally supports SDM.
9. This device supports VOLTE.
10. This device supports VOWIFI.
11. This device supports Bluetooth Tethering.
12. LTE + 5G NR FR1 Scenarios are limited to EN-DC combinations with anchor bands as shown in the NR FR1 checklist.
13. 5G NR FR2 n260 and n261 cannot transmit simultaneously.
14. LTE + 5G NR FR2 Scenarios are limited to EN-DC combinations with anchor bands as shown in the NR

1.8 Miscellaneous SAR Test Considerations

(A) WIFI/BT

Since U-NII-1 and U-NII-2A bands have the same maximum output power and the highest reported SAR for U-NII-2A is less than 1.2 W/kg, SAR is not required for U-NII-1 band according to FCC KDB Publication 248227 D01v02r02.

This device supports channel 1-13 for 2.4 GHZ WLAN. However, because channel 12/13 targets are not higher than that of channels 1-11, default channels for SAR testing are determined per FCC KDB 248227 D01v02r02.

Since Wireless Router operations are not allowed by the chipset firmware using U-NII-1, U-NII-2A & U-NII-2C WIFI, only 2.4 GHz WLAN, 2.4 GHz Bluetooth, and U-NII-3 WIFI Hotspot SAR tests and combinations are considered for SAR with respect to Wireless Router configurations according to FCC KDB 941225 D06v02r01.

This device supports 6 GHz WIFI Operations. RF Exposure assessment for these bands can be found in the WIFI6E RF Exposure Report (report SN can be found in Section 1.11 – Bibliography). Simultaneous transmission analysis is addressed in section 12 of this report.

This device supports IEEE 802.11ax with the following features:

- a) Up to 160 MHz Bandwidth only for 5/6 GHz
- b) Up to 20 MHz Bandwidth only for 2.4 GHz
- c) No aggregate channel configurations
- d) 2 Tx antenna output
- e) Up to 1024 QAM is supported
- f) TDWR and Band gap channels are supported for 5/6 GHz
- g) MU-MIMO UL Operations are not supported

Per FCC KDB Publication 648474 D04v01r03, this device is considered a "phablet" when it is in a closed configuration since the diagonal dimension is greater than 160mm and less than 200mm. Phablet SAR tests are required when wireless router mode does not apply or if wireless router 1g SAR > 1.2 W/kg. Because wireless router operations are not supported for U-NII-1, U-NII-2A & U-NII-2C WLAN, phablet SAR tests were performed. Phablet SAR was not evaluated for 2.4 GHz WLAN, 2.4 GHz Bluetooth, and U-NII-3 WLAN operations since wireless router 1g SAR was < 1.2 W/kg.

Per April 2019 TCB Workshop Notes, SAR testing was not required for 802.11ax when applying the initial test configuration procedures of KDB 248227, with 802.11ax considered a higher order 802.11 mode.

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(B) Licensed Transmitter(s)

GSM/GPRS/EDGE DTM is not supported for US bands. Therefore, the GSM Voice modes in this report do not transmit simultaneously with GPRS/EDGE Data.

This device is only capable of QPSK HSUPA in the uplink. Therefore, no additional SAR tests are required beyond that described for devices with HSUPA in KDB 941225 D01v03r01.

LTE SAR for the higher modulations and lower bandwidths were not tested since the maximum average output power of all required channels and configurations was not more than 0.5 dB higher than the highest bandwidth; and the reported LTE SAR for the highest bandwidth was less than 1.45 W/kg for all configurations according to FCC KDB 941225 D05v02r04.

CDMA 1X Advanced technology was not required for SAR since the maximum allowed output powers for 1x Advanced was not more than 0.25 dB higher than the maximum powers for 1x and the measured SAR in any 1x mode exposure conditions was not greater than 1.2 W/kg per FCC KDB Publication 941225 D01v03r01.

This device supports LTE Carrier Aggregation (CA) in the downlink. All uplink communications are identical to Release 8 specifications. Per FCC KDB Publication 941225 D05A v01r02, SAR for LTE CA operations was not needed since the maximum average output power in LTE CA mode was not >0.25 dB higher than the maximum output power when downlink carrier aggregation was inactive. The downlink carrier aggregation exclusion analysis can be found in Appendix F.

Per FCC KDB Publication 648474 D04v01r03, this device is considered a "phablet" when it is closed configuration since the diagonal dimension is greater than 160mm and less than 200mm. Therefore, phablet SAR tests are required when wireless router mode does not apply or if wireless router 1g SAR > 1.2 W/kg.

This device supports downlink 4x4 MIMO operations for some LTE Bands. Per May 2017 TCB Workshop Notes, SAR for 4x4 DL MIMO was not needed since the maximum average output power in 4x4 DL MIMO mode was not more than 0.25 dB higher than the maximum output power with 4x4 DL MIMO inactive. Additionally, SAR for 4x4 MIMO Downlink Carrier Aggregation was not needed since the maximum average output power in 4x4 MIMO Downlink Carrier Aggregation mode was not more than 0.25 dB higher than the maximum output power with 4x4 MIMO Downlink and downlink carrier aggregation inactive.

This device supports LTE/NR FR1 capabilities with overlapping transmission frequency ranges. When the supported frequency range of an LTE/NR Band falls completely within an LTE/NR band with a larger transmission frequency range, both LTE/NR bands have the same target power (or the band with the larger transmission frequency range has a higher target power), and both LTE/NR bands share the same transmission path and signal characteristics, SAR was only assessed for the band with the larger transmission frequency range.

This device supports both Power Class 2 (PC2) and Power Class 3 (PC3) for LTE Band 41. Per May 2017 TCB Workshop Notes, SAR tests were performed with Power Class 3 (given the specific UL/DL limitations for Power Class 2). Additionally, SAR testing for the power class 2 condition was evaluated for the highest configuration in Power Class 3 for each test configuration to confirm the results were scalable linearly (See Section 14.2).

This device supports LTE Carrier Aggregation (CA) for LTE Band 41, LTE Band 5, LTE Band 66, and LTE Band 48 with two component carriers in the uplink. SAR Measurements and conducted powers were evaluated per 2017 Fall TCB Workshop Notes.

This device supports 64QAM and 256QAM on the uplink and 256QAM on the downlink for LTE Operations.

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Conducted powers for 64QAM and 256QAM uplink configurations were measured per Section 5.1 of FCC KDB Publication 941225D05v02r05. SAR was not required for 64QAM or 256QAM since the highest maximum output power for 64QAM and 256QAM is $\leq \frac{1}{2}$ dB higher than the same configuration in QPSK and the reported SAR for the QPSK configuration is $\leq 1.45\text{W/kg}$, per Section 5.2.4 of FCC KDB Publication 941225 D05v02r05.

This device supports 5G NR for Bands n260, and n261. RF Exposure assessment and simultaneous transmission analysis for these bands can be found in the Near Field PD Report (report SN can be found in Section 1.11 – Bibliography).

NR implementation supports SA and NSA mode. In EN-DC mode, NR operates with the LTE Bands shown in the NR FR1 checklist acting as anchor bands. Per FCC guidance, SAR tests for NR Bands and LTE Anchors Bands were performed separately due to limitations in SAR probe calibration factors.

For 2G/3G/4G/5G bands operating < 1 GHz, this device can transmit with Ant A or with Ant A+ Ant B. The RF path for both conditions is identical, therefore separate conducted powers are not required for these conditions. For closed phablet test conditions, both Ant A and Ant A + Ant B conditions were fully evaluated for all exposure conditions. For open UMPC Body or UMPC Extremity conditions, only Ant A + Ant B conditions are supported as described in the operational description.

1.9 Guidance Applied

- IEEE 1528-2013
- FCC KDB Publication 941225 D01v03r01, D05v02r04, D05Av01r02, D06v02r01 (2G/3G/4G and Hotspot)
- FCC KDB Publication 248227 D01v02r02 (SAR Considerations for 802.11 Devices)
- FCC KDB Publication 447498 D01v06 (General SAR Guidance)
- FCC KDB Publication 865664 D01v01r04, D02v01r02 (SAR Measurements up to 6 GHz)
- FCC KDB Publication 648474 D04v01r03 (Phablet Procedures)
- FCC KDB Publication 616217 D04v01r02 (Tablet, Proximity Sensor)
- October 2013 TCB Workshop Notes (GPRS Testing Considerations)
- May 2017 TCB Workshop Notes (LTE 4x4 Downlink MIMO, LTE Band 41 Power Class 2/3)
- April 2018 TCB Workshop Notes (LTE Carrier Aggregation)
- April 2019 TCB Workshop Notes (IEEE 802.11ax, Dynamic Antenna Tuning)
- FCC KDB Publication 941225 D07v01r02 (UMPC Mini-Tablet Devices)

1.10 Device Serial Numbers

Several samples with identical hardware were used to support SAR testing. The manufacturer has confirmed that the device(s) tested have the same physical, mechanical and thermal characteristics and are within operational tolerances expected for production units. The serial numbers used for each test are indicated alongside the results in Section 11.

1.11 Bibliography

Report Type	Report Serial Number
PD Exposure Part 0 Test Report	
Near Field PD Report (Part 1)	1M2104020031-27.A3L
RF Exposure Part 0 Test Report	1M2104020031-30.A3L
RF Exposure Part 2 Test Report	1M2104020031-28.A3L
RF Exposure Compliance Summary Report	1M2104020031-29.A3L
WIFI 6GHz RF exposure	1M2104020031-22.A3L

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2

LTE AND NR INFORMATION

LTE Information						
Form Factor	Portable Handset					
Frequency Range of each LTE transmission band	LTE Band 71 (665.5 - 695.5 MHz)					
	LTE Band 12 (699.7 - 715.3 MHz)					
	LTE Band 13 (779.5 - 784.5 MHz)					
	LTE Band 14 (790.5 - 795.5 MHz)					
	LTE Band 26 (Cell) (814.7 - 848.3 MHz)					
	LTE Band 5 (Cell) (824.7 - 848.3 MHz)					
	LTE Band 66 (AWS) (1710.7 - 1779.3 MHz)					
	LTE Band 4 (AWS) (1710.7 - 1754.3 MHz)					
	LTE Band 25 (PCS) (1850.7 - 1914.3 MHz)					
	LTE Band 2 (PCS) (1850.7 - 1909.3 MHz)					
	LTE Band 30 (2307.5 - 2312.5 MHz)					
	LTE Band 7 (2502.5 - 2567.5 MHz)					
	LTE Band 48 (2552.5 - 2597.5 MHz)					
	LTE Band 41 (2498.5 - 2687.5 MHz)					
	LTE Band 38 (2572.5 - 2617.5 MHz)					
	Channel Bandwidths	LTE Band 71: 5 MHz, 10 MHz, 15 MHz, 20 MHz				
		LTE Band 12: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz				
		LTE Band 13: 5 MHz, 10 MHz				
		LTE Band 14: 5 MHz, 10 MHz				
		LTE Band 26 (Cell): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz				
LTE Band 5 (Cell): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz						
LTE Band 66 (AWS): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz						
LTE Band 4 (AWS): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz						
LTE Band 25 (PCS): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz						
LTE Band 2 (PCS): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz						
LTE Band 30: 5 MHz, 10 MHz						
LTE Band 7: 5 MHz, 10 MHz, 15 MHz, 20 MHz						
LTE Band 48: 5 MHz, 10 MHz, 15 MHz, 20 MHz						
LTE Band 41: 5 MHz, 10 MHz, 15 MHz, 20 MHz						
LTE Band 38: 5 MHz, 10 MHz, 15 MHz, 20 MHz						
Channel Numbers and Frequencies (MHz)	Low	Low-Mid	Mid	Mid-High	High	
LTE Band 71: 5 MHz	665.5 (133147)		680.5 (133297)		695.5 (133447)	
LTE Band 71: 10 MHz	668 (133172)		680.5 (133297)		693 (133422)	
LTE Band 71: 15 MHz	670.5 (133197)		680.5 (133297)		690.5 (133397)	
LTE Band 71: 20 MHz	673 (133222)		680.5 (133297)		688 (133372)	
LTE Band 12: 1.4 MHz	699.7 (23017)		707.5 (23095)		715.3 (23173)	
LTE Band 12: 3 MHz	700.5 (23025)		707.5 (23095)		714.5 (23165)	
LTE Band 12: 5 MHz	701.5 (23035)		707.5 (23095)		713.5 (23155)	
LTE Band 12: 10 MHz	704 (23060)		707.5 (23095)		711 (23130)	
LTE Band 13: 5 MHz	779.5 (23205)		782 (23230)		784.5 (23255)	
LTE Band 13: 10 MHz			782 (23230)		N/A	
LTE Band 14: 5 MHz	790.5 (23305)		793 (23330)		795.5 (23355)	
LTE Band 14: 10 MHz			793 (23330)		N/A	
LTE Band 26 (Cell): 1.4 MHz	814.7 (26697)		831.5 (26865)		848.3 (27033)	
LTE Band 26 (Cell): 3 MHz	815.5 (26705)		831.5 (26865)		847.5 (27025)	
LTE Band 26 (Cell): 5 MHz	816.5 (26715)		831.5 (26865)		846.5 (27015)	
LTE Band 26 (Cell): 10 MHz	819 (26740)		831.5 (26865)		844 (26990)	
LTE Band 26 (Cell): 15 MHz	821.5 (26765)		831.5 (26865)		841.5 (26965)	
LTE Band 5 (Cell): 1.4 MHz	824.7 (20407)		836.5 (20525)		848.3 (20643)	
LTE Band 5 (Cell): 3 MHz	825.5 (20415)		836.5 (20525)		847.5 (20635)	
LTE Band 5 (Cell): 5 MHz	826.5 (20425)		836.5 (20525)		846.5 (20625)	
LTE Band 5 (Cell): 10 MHz	829 (20450)		836.5 (20525)		844 (20600)	
LTE Band 66 (AWS): 1.4 MHz	1710.7 (131979)		1745 (132322)		1779.3 (132665)	
LTE Band 66 (AWS): 3 MHz	1711.5 (131987)		1745 (132322)		1778.5 (132657)	
LTE Band 66 (AWS): 5 MHz	1712.5 (131997)		1745 (132322)		1777.5 (132647)	
LTE Band 66 (AWS): 10 MHz	1715 (132022)		1745 (132322)		1775 (132622)	
LTE Band 66 (AWS): 15 MHz	1717.5 (132047)		1745 (132322)		1772.5 (132597)	
LTE Band 66 (AWS): 20 MHz	1720 (132072)		1745 (132322)		1770 (132572)	
LTE Band 4 (AWS): 1.4 MHz	1710.7 (19957)		1732.5 (20175)		1754.3 (20393)	
LTE Band 4 (AWS): 3 MHz	1711.5 (19965)		1732.5 (20175)		1753.5 (20385)	
LTE Band 4 (AWS): 5 MHz	1712.5 (19975)		1732.5 (20175)		1752.5 (20375)	
LTE Band 4 (AWS): 10 MHz	1715 (20000)		1732.5 (20175)		1750 (20350)	
LTE Band 4 (AWS): 15 MHz	1717.5 (20025)		1732.5 (20175)		1747.5 (20325)	
LTE Band 4 (AWS): 20 MHz	1720 (20050)		1732.5 (20175)		1745 (20300)	
LTE Band 25 (PCS): 1.4 MHz	1850.7 (26047)		1882.5 (26365)		1914.3 (26683)	
LTE Band 25 (PCS): 3 MHz	1851.5 (26055)		1882.5 (26365)		1913.5 (26675)	
LTE Band 25 (PCS): 5 MHz	1852.5 (26065)		1882.5 (26365)		1912.5 (26665)	
LTE Band 25 (PCS): 10 MHz	1855 (26090)		1882.5 (26365)		1910 (26640)	
LTE Band 25 (PCS): 15 MHz	1857.5 (26115)		1882.5 (26365)		1907.5 (26615)	
LTE Band 25 (PCS): 20 MHz	1860 (26140)		1882.5 (26365)		1905 (26590)	
LTE Band 2 (PCS): 1.4 MHz	1850.7 (18607)		1880 (18900)		1909.3 (19193)	
LTE Band 2 (PCS): 3 MHz	1851.5 (18615)		1880 (18900)		1908.5 (19185)	
LTE Band 2 (PCS): 5 MHz	1852.5 (18625)		1880 (18900)		1907.5 (19175)	
LTE Band 2 (PCS): 10 MHz	1855 (18650)		1880 (18900)		1905 (19150)	
LTE Band 2 (PCS): 15 MHz	1857.5 (18675)		1880 (18900)		1902.5 (19125)	
LTE Band 2 (PCS): 20 MHz	1860 (18700)		1880 (18900)		1900 (19100)	
LTE Band 30: 5 MHz	2307.5 (27685)		2310 (27710)		2312.5 (27735)	
LTE Band 30: 10 MHz	N/A		2310 (27710)		N/A	
LTE Band 7: 5 MHz	2502.5 (20775)		2535 (21100)		2567.5 (21425)	
LTE Band 7: 10 MHz	2505 (20800)		2535 (21100)		2565 (21400)	
LTE Band 7: 15 MHz	2507.5 (20825)		2535 (21100)		2562.5 (21375)	
LTE Band 7: 20 MHz	2510 (20850)		2535 (21100)		2560 (21350)	
LTE Band 48: 5 MHz	3552.5 (55265)	3600.8 (55748)	N/A	3649.2 (56232)	3697.5 (56715)	
LTE Band 48: 10 MHz	3555 (55290)	3601.7 (55757)	N/A	3648.3 (56223)	3695 (56690)	
LTE Band 48: 15 MHz	3557.5 (55315)	3602.5 (55765)	N/A	3647.5 (56215)	3692.5 (56665)	
LTE Band 48: 20 MHz	3560 (55340)	3603.3 (55773)	N/A	3646.7 (56207)	3690 (56640)	
LTE Band 41: 5 MHz	2506 (39750)	2549.5 (40185)	2593 (40620)	2636.5 (41055)	2680 (41490)	
LTE Band 41: 10 MHz	2506 (39750)	2549.5 (40185)	2593 (40620)	2636.5 (41055)	2680 (41490)	
LTE Band 41: 15 MHz	2506 (39750)	2549.5 (40185)	2593 (40620)	2636.5 (41055)	2680 (41490)	
LTE Band 41: 20 MHz	2506 (39750)	2549.5 (40185)	2593 (40620)	2636.5 (41055)	2680 (41490)	
LTE Band 38: 5 MHz	2572.5 (37775)		2595 (38000)		2617.5 (38225)	
LTE Band 38: 10 MHz	2575 (37800)		2595 (38000)		2615 (38200)	
LTE Band 38: 15 MHz	2577.5 (37825)		2595 (38000)		2612.5 (38175)	
LTE Band 38: 20 MHz	2580 (37850)		2595 (38000)		2610 (38150)	
UE Category	DL UE Cat 20, UL UE Cat 18					
Modulations Supported in UL	QPSK, 16QAM, 64QAM, 256QAM					
LTE MPR Permanently implemented per 3GPP TS 36.101 section 6.2.3-6.2.5? (manufacturer attestation to be provided)	YES					
A-MPR (Additional MPR) disabled for SAR Testing?	YES					
LTE Carrier Aggregation Possible Combinations	The technical description includes all the possible carrier aggregation combinations					
LTE Additional Information	This device does not support full CA features on 3GPP Release 16. It supports carrier aggregation, downlink MIMO, LAA features as shown in Section 9 and Appendix F. All uplink communications are identical to the Release 8 Specifications. Uplink communications are done on the PCC. The following LTE Release 16 Features are not supported: Relay, HetNet, Enhanced MIMO, eMTC, eMBMS, Cross-Carrier Scheduling, Enhanced SC-FDMA.					

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NR information				
Form Factor	Portable Handset			
Frequency Range of each NR transmission band	NR Band n71 (665.5 - 695.5 MHz)			
	NR Band n12 (701.5 - 713.5 MHz)			
	NR Band n5 (Cell) (826.5 - 846.5 MHz)			
	NR Band n66 (AWS) (1712.5 - 1777.5 MHz)			
	NR Band n25 (PCS) (1882.5 - 1912.5 MHz)			
	NR Band n2 (PCS) (1862.5 - 1907.5 MHz)			
	NR Band n30 (2307.5 - 2312.5 MHz)			
	NR Band n41 (2506.02 - 2679.99 MHz)			
	NR Band n77 DoD (3460.02 - 3540 MHz)			
	NR Band n77 (3710.01 - 3959.99 MHz)			
Channel Bandwidths	NR Band n71: 5 MHz, 10 MHz, 15 MHz, 20 MHz			
	NR Band n12: 5 MHz, 10 MHz, 15 MHz			
	NR Band n5 (Cell): 5 MHz, 10 MHz, 15 MHz, 20 MHz			
	NR Band n66 (AWS): 5 MHz, 10 MHz, 15 MHz, 20 MHz, 30 MHz, 40 MHz			
	NR Band n25 (PCS): 5 MHz, 10 MHz, 15 MHz, 20 MHz, 30 MHz, 40 MHz			
	NR Band n2 (PCS): 5 MHz, 10 MHz, 15 MHz, 20 MHz			
	NR Band n30: 5 MHz, 10 MHz			
	NR Band n41: 20 MHz, 30 MHz, 40 MHz, 50 MHz, 60 MHz, 70 MHz, 80 MHz, 90 MHz, 100 MHz			
	NR Band n77 DoD: 20 MHz, 30 MHz, 40 MHz, 50 MHz, 60 MHz, 70 MHz, 80 MHz, 90 MHz, 100 MHz			
	NR Band n77: 20 MHz, 30 MHz, 40 MHz, 50 MHz, 60 MHz, 70 MHz, 80 MHz, 90 MHz, 100 MHz			
Channel Numbers and Frequencies (MHz)				
NR Band n71: 5 MHz	665.5 (133100)	680.5 (136100)		695.5 (139100)
NR Band n71: 10 MHz	668 (133600)	683 (136100)		693 (138600)
NR Band n71: 15 MHz	670.5 (134100)	680.5 (136100)		690.5 (138100)
NR Band n71: 20 MHz	673 (134600)	680.5 (136100)		688 (137600)
NR Band n12: 5 MHz	701.5 (140300)	707.5 (141300)		713.5 (142300)
NR Band n12: 10 MHz	704 (140800)	707.5 (141300)		711 (142200)
NR Band n12: 15 MHz	706.5 (141300)	707.5 (141300)		708.5 (141700)
NR Band n5 (Cell): 5 MHz	826.5 (165300)	836.5 (167300)		846.5 (169300)
NR Band n5 (Cell): 10 MHz	829 (165800)	836.5 (167300)		844 (168800)
NR Band n5 (Cell): 15 MHz	831.5 (166300)	836.5 (167300)		841.5 (168300)
NR Band n5 (Cell): 20 MHz	834 (166800)	836.5 (167300)		839 (167800)
NR Band n66 (AWS): 5 MHz	1712.5 (342500)	1745 (349000)		1777.5 (355500)
NR Band n66 (AWS): 10 MHz	1715 (343000)	1745 (349000)		1775 (355000)
NR Band n66 (AWS): 15 MHz	1717.5 (343500)	1745 (349000)		1772.5 (354500)
NR Band n66 (AWS): 20 MHz	1720 (344000)	1745 (349000)		1770 (354000)
NR Band n66 (AWS): 30 MHz	1725 (345000)	1745 (349000)		1765 (353000)
NR Band n66 (AWS): 40 MHz	1729 (346000)	1745 (349000)		1769 (353500)
NR Band n25 (PCS): 5 MHz	1862.5 (370500)	1882.5 (376500)		1912.5 (382500)
NR Band n25 (PCS): 10 MHz	1865 (371000)	1882.5 (376500)		1910 (382000)
NR Band n25 (PCS): 15 MHz	1867.5 (371500)	1882.5 (376500)		1907.5 (381500)
NR Band n25 (PCS): 20 MHz	1870 (372000)	1882.5 (376500)		1905 (381000)
NR Band n25 (PCS): 25 MHz	1872.5 (372500)	1882.5 (376500)		1902.5 (380500)
NR Band n25 (PCS): 30 MHz	1875 (373000)	1882.5 (376500)		1900 (380000)
NR Band n25 (PCS): 40 MHz	1877.5 (373500)	1882.5 (376500)		1895 (379000)
NR Band n2 (PCS): 5 MHz	1862.5 (370500)	1880 (376000)		1907.5 (381500)
NR Band n2 (PCS): 10 MHz	1865 (371000)	1880 (376000)		1905 (381000)
NR Band n2 (PCS): 15 MHz	1867.5 (371500)	1880 (376000)		1902.5 (380500)
NR Band n2 (PCS): 20 MHz	1870 (372000)	1880 (376000)		1900 (380000)
NR Band n30: 5 MHz	2307.5 (461500)	2310 (462000)		2312.5 (462500)
NR Band n30: 10 MHz	N/A	2310 (462000)	N/A	
NR Band n41: 20 MHz	2506.02 (501204)	2549.49 (509898)	2592.99 (518598)	2636.49 (527298)
NR Band n41: 30 MHz	2511 (502000)	2552.01 (510402)	2592.99 (518598)	2634 (526800)
NR Band n41: 40 MHz	2516.01 (503002)	2567.34 (511408)	N/A	2618.67 (523734)
NR Band n41: 50 MHz	2521.02 (504004)	2562.99 (511400)	2592.99 (518598)	2644.99 (528800)
NR Band n41: 60 MHz	2526 (505000)	2568 (512000)	2598 (519000)	2650.99 (529800)
NR Band n41: 80 MHz	2536.02 (507204)	N/A	N/A	2640.99 (529998)
NR Band n41: 90 MHz	2541 (508000)	N/A	N/A	2644.98 (529996)
NR Band n41: 100 MHz	2546.01 (509202)	2592.99 (518598)	N/A	2640 (528800)
NR Band n77 DoD: 20 MHz	3460.02 (690668)	3500.01 (693334)	3540.01 (706000)	3580.01 (718666)
NR Band n77 DoD: 30 MHz	3465 (691000)	3500.01 (693334)	3540.01 (706000)	3580.01 (718666)
NR Band n77 DoD: 40 MHz	3470.01 (691334)	N/A	N/A	3579.98 (718662)
NR Band n77 DoD: 50 MHz	3475.02 (691668)	N/A	N/A	3579.98 (718662)
NR Band n77 DoD: 60 MHz	N/A	3500.01 (693334)	N/A	3579.98 (718662)
NR Band n77 DoD: 70 MHz	N/A	3500.01 (693334)	N/A	3579.98 (718662)
NR Band n77 DoD: 80 MHz	N/A	3500.01 (693334)	N/A	3579.98 (718662)
NR Band n77 DoD: 90 MHz	N/A	3500.01 (693334)	N/A	3579.98 (718662)
NR Band n77 DoD: 100 MHz	N/A	3500.01 (693334)	N/A	3579.98 (718662)
NR Band n77: 20 MHz	3710.01 (647334)	3762 (650800)	3813.99 (654266)	3866.01 (657734)
NR Band n77: 30 MHz	3715.02 (647668)	3765 (651000)	3818.01 (654534)	3870.99 (657666)
NR Band n77: 40 MHz	3720 (648000)	3768 (651200)	3823.01 (654800)	3876.01 (658000)
NR Band n77: 50 MHz	3725.01 (648334)	3782.49 (652166)	3840 (656000)	3897.51 (659834)
NR Band n77: 60 MHz	3730.02 (648668)	3803.34 (653554)	N/A	3914.98 (663332)
NR Band n77: 70 MHz	3735 (649000)	3804.99 (653556)	N/A	3914.98 (663332)
NR Band n77: 80 MHz	3740.01 (649334)	N/A	3840 (656000)	3914.98 (663332)
NR Band n77: 90 MHz	3745.02 (649668)	N/A	3840 (656000)	3914.98 (663332)
NR Band n77: 100 MHz	3750 (650000)	N/A	N/A	3930 (662000)
SCS for NR Band n71/n12/n66/n25/n30			15 kHz	
SCS for NR Band n41/n77 DoD/n77			30 kHz	
Modulations Supported in UL				
DF1a-OFDM: m2 BPSK, QPSK, 16QAM, 64QAM, 256QAM				
CP-OFDM: QPSK, 16QAM, 64QAM, 256QAM				
NR MPR Permanently implemented per 3GPP TS 38.101	YES			
A-MPR (Additional MPR) disabled for SAR Testing?	YES			
EN-DC Carrier Aggregation Possible Combinations	The technical description includes all the possible carrier aggregation combinations			
LTE Anchor Bands for NR Band n71	LTE Band 66/2			
LTE Anchor Bands for NR Band n12	LTE Band 66/2			
LTE Anchor Bands for NR Band n5 (Cell)	LTE Band 66/2/30/48			
LTE Anchor Bands for NR Band n66 (AWS)	LTE Band 12/13/14/5/2/30/48			
LTE Anchor Bands for NR Band n25 (PCS)	LTE Band 12/66			
LTE Anchor Bands for NR Band n2 (PCS)	LTE Band 12/13/14/5/66/30/48			
LTE Anchor Bands for NR Band n30	LTE Band 12/14/5			
LTE Anchor Bands for NR Band n41	LTE Band 12/66/25/2/41			
LTE Anchor Bands for NR Band n77 DoD/n77	LTE Band 12/13/14/5/66/2/30			

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3 INTRODUCTION

The FCC and Innovation, Science, and Economic Development Canada have adopted the guidelines for evaluating the environmental effects of radio frequency (RF) radiation in ET Docket 93-62 on Aug. 6, 1996 and Health Canada Safety Code 6 to protect the public and workers from the potential hazards of RF emissions due to FCC-regulated portable devices. [1]

The safety limits used for the environmental evaluation measurements are based on the criteria published by the American National Standards Institute (ANSI) for localized specific absorption rate (SAR) in IEEE/ANSI C95.1-1992 Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz [3] and Health Canada RF Exposure Guidelines Safety Code 6 [22]. The measurement procedure described in IEEE/ANSI C95.3-2002 Recommended Practice for the Measurement of Potentially Hazardous Electromagnetic Fields - RF and Microwave [4] is used for guidance in measuring the Specific Absorption Rate (SAR) due to the RF radiation exposure from the Equipment Under Test (EUT). These criteria for SAR evaluation are similar to those recommended by the International Committee for Non-Ionizing Radiation Protection (ICNIRP) in Biological Effects and Exposure Criteria for Radiofrequency Electromagnetic Fields,” Report No. Vol 74. SAR is a measure of the rate of energy absorption due to exposure to an RF transmitting source. SAR values have been related to threshold levels for potential biological hazards.

3.1 SAR Definition

Specific Absorption Rate is defined as the time derivative (rate) of the incremental energy (dU) absorbed by (dissipated in) an incremental mass (dm) contained in a volume element (dV) of a given density (ρ). It is also defined as the rate of RF energy absorption per unit mass at a point in an absorbing body (see Equation 3-1).

Equation 3-1
SAR Mathematical Equation

$$SAR = \frac{d}{dt} \left(\frac{dU}{dm} \right) = \frac{d}{dt} \left(\frac{dU}{\rho dv} \right)$$

SAR is expressed in units of Watts per Kilogram (W/kg).

$$SAR = \frac{\sigma \cdot E^2}{\rho}$$

where:

- σ = conductivity of the tissue-simulating material (S/m)
- ρ = mass density of the tissue-simulating material (kg/m³)
- E = Total RMS electric field strength (V/m)

NOTE: The primary factors that control rate of energy absorption were found to be the wavelength of the incident field in relation to the dimensions and geometry of the irradiated organism, the orientation of the organism in relation to the polarity of field vectors, the presence of reflecting surfaces, and whether conductive contact is made by the organism with a ground plane.[6]

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4 DOSIMETRIC ASSESSMENT

4.1 Measurement Procedure

The evaluation was performed using the following procedure compliant to FCC KDB Publication 865664 D01v01r04 and IEEE 1528-2013:

1. The SAR distribution at the exposed side of the head or body was measured at a distance no greater than 5.0 mm from the inner surface of the shell. The area covered the entire dimension of the device-head and body interface and the horizontal grid resolution was determined per FCC KDB Publication 865664 D01v01r04 (See Table 4-1) and IEEE 1528-2013.
2. The point SAR measurement was taken at the maximum SAR region determined from Step 1 to enable the monitoring of SAR fluctuations/drifts during the 1g/10g cube evaluation. SAR at this fixed point was measured and used as a reference value.
3. Based on the area scan data, the peak of the region with maximum SAR was determined by spline interpolation. Around this point, a volume was assessed according to the measurement resolution and volume size requirements of FCC KDB Publication 865664 D01v01r04 (See Table 4-1) and IEEE 1528-2013. On the basis of this data set, the spatial peak SAR value was evaluated with the following procedure (see references or the DASY manual online for more details):
 - a. SAR values at the inner surface of the phantom are extrapolated from the measured values along the line away from the surface with spacing no greater than that in Table 4-1. The extrapolation was based on a least-squares algorithm. A polynomial of the fourth order was calculated through the points in the z-axis (normal to the phantom shell).
 - b. After the maximum interpolated values were calculated between the points in the cube, the SAR was averaged over the spatial volume (1g or 10g) using a 3D-Spline interpolation algorithm. The 3D-spline is composed of three one-dimensional splines with the "Not a knot" condition (in x, y, and z directions). The volume was then integrated with the trapezoidal algorithm. One thousand points (10 x 10 x 10) were obtained through interpolation, in order to calculate the averaged SAR.
 - c. All neighboring volumes were evaluated until no neighboring volume with a higher average value was found.
4. The SAR reference value, at the same location as step 2, was re-measured after the zoom scan was complete to calculate the SAR drift. If the drift deviated by more than 5%, the SAR test and drift measurements were repeated.

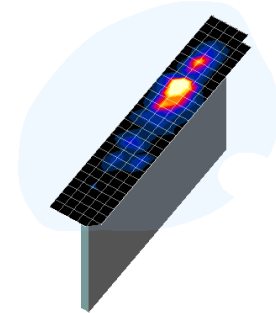


Figure 4-1
Sample SAR Area
Scan

Table 4-1
Area and Zoom Scan Resolutions per FCC KDB Publication 865664 D01v01r04*

Frequency	Maximum Area Scan Resolution (mm) ($\Delta x_{\text{area}}, \Delta y_{\text{area}}$)	Maximum Zoom Scan Resolution (mm) ($\Delta x_{\text{zoom}}, \Delta y_{\text{zoom}}$)	Maximum Zoom Scan Spatial Resolution (mm)			Minimum Zoom Scan Volume (mm) (x,y,z)
			Uniform Grid	Graded Grid		
				$\Delta z_{\text{zoom}}(n)$	$\Delta z_{\text{zoom}}(1)^*$	
≤2 GHz	≤15	≤8	≤5	≤4	≤1.5* $\Delta z_{\text{zoom}}(n-1)$	≥30
2-3 GHz	≤12	≤5	≤5	≤4	≤1.5* $\Delta z_{\text{zoom}}(n-1)$	≥30
3-4 GHz	≤12	≤5	≤4	≤3	≤1.5* $\Delta z_{\text{zoom}}(n-1)$	≥28
4-5 GHz	≤10	≤4	≤3	≤2.5	≤1.5* $\Delta z_{\text{zoom}}(n-1)$	≥25
5-6 GHz	≤10	≤4	≤2	≤2	≤1.5* $\Delta z_{\text{zoom}}(n-1)$	≥22

*Also compliant to IEEE 1528-2013 Table 6

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5 DEFINITION OF REFERENCE POINTS

5.1 EAR REFERENCE POINT

Figure 5-2 shows the front, back and side views of the SAM Twin Phantom. The point “M” is the reference point for the center of the mouth, “LE” is the left ear reference point (ERP), and “RE” is the right ERP. The ERP is 15mm posterior to the entrance to the ear canal (EEC) along the B-M line (Back-Mouth), as shown in Figure 5-1. The plane passing through the two ear canals and M is defined as the Reference Plane. The line N-F (Neck-Front), also called the Reference Pivoting Line, is not perpendicular to the reference plane (see Figure 5-1). Line B-M is perpendicular to the N-F line. Both N-F and B-M lines are marked on the external phantom shell to facilitate handset positioning [5].

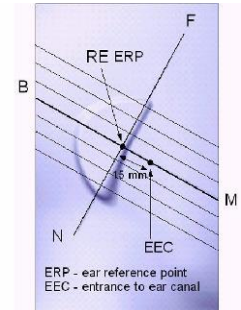


Figure 5-1
Close-Up Side view of ERP

5.2 HANDSET REFERENCE POINTS

Two imaginary lines on the handset were established: the vertical centerline and the horizontal line. The test device was placed in a normal operating position with the acoustic output located along the “vertical centerline” on the front of the device aligned to the “ear reference point” (See Figure 5-3). The acoustic output was than located at the same level as the center of the ear reference point. The test device was positioned so that the “vertical centerline” was bisecting the front surface of the handset at its top and bottom edges, positioning the “ear reference point” on the outer surface of the both the left and right head phantoms on the ear reference point.



Figure 5-2
Front, back and side view of SAM Twin Phantom

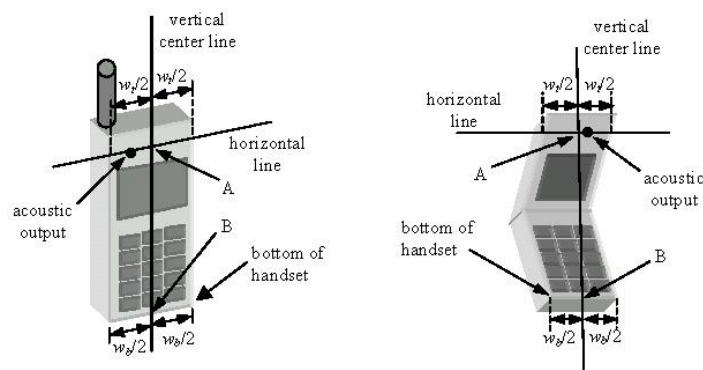


Figure 5-3
Handset Vertical Center & Horizontal Line Reference Points

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6 TEST CONFIGURATION POSITIONS

6.1 Device Holder

The device holder is made out of low-loss POM material having the following dielectric parameters: relative permittivity $\epsilon = 3$ and loss tangent $\delta = 0.02$.

6.2 Positioning for Cheek

1. The test device was positioned with the device close to the surface of the phantom such that point A is on the (virtual) extension of the line passing through points RE and LE on the phantom (see Figure 6-1), such that the plane defined by the vertical center line and the horizontal line of the phone is approximately parallel to the sagittal plane of the phantom.

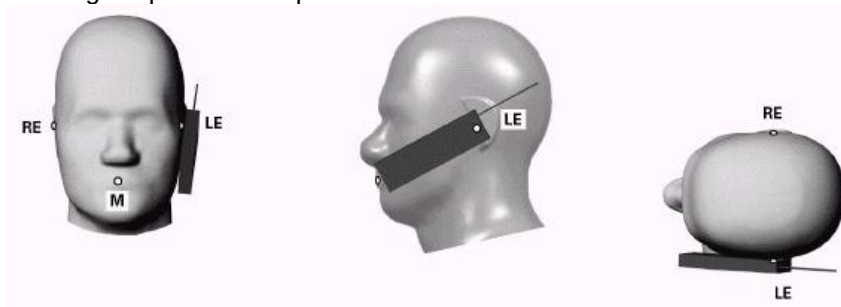


Figure 6-1 Front, Side and Top View of Cheek Position

2. The handset was translated towards the phantom along the line passing through RE & LE until the handset touches the pinna.
3. While maintaining the handset in this plane, the handset was rotated around the LE-RE line until the vertical centerline was in the reference plane.
4. The phone was then rotated around the vertical centerline until the phone (horizontal line) was symmetrical with respect to the line NF.
5. While maintaining the vertical centerline in the reference plane, keeping point A on the line passing through RE and LE, and maintaining the device contact with the ear, the device was rotated about the NF line until any point on the handset made contact with a phantom point below the ear (cheek) (See Figure 6-2).

6.3 Positioning for Ear / 15° Tilt

With the test device aligned in the “Cheek Position”:

1. While maintaining the orientation of the phone, the phone was retracted parallel to the reference plane far enough to enable a rotation of the phone by 15 degrees.
2. The phone was then rotated around the horizontal line by 15 degrees.
3. While maintaining the orientation of the phone, the phone was moved parallel to the reference plane until any part of the handset touched the head. (In this position, point A was located on the line RE-LE). The tilted position is obtained when the contact is on the pinna. If the contact was at any location other than the pinna, the angle of the phone would then be reduced. In this situation, the tilted position was obtained when any part of the phone was in contact of the ear as well as a second part of the phone was in contact with the head (see Figure 6-2).

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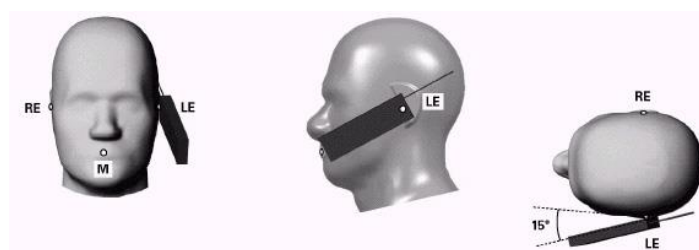


Figure 6-2 Front, Side and Top View of Ear/15° Tilt Position

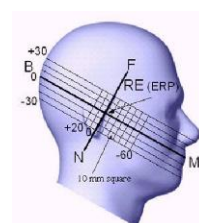


Figure 6-3 Side view w/ relevant markings

6.4 SAR Evaluations near the Mouth/Jaw Regions of the SAM Phantom

Antennas located near the bottom of a phone may require SAR measurements around the mouth and jaw regions of the SAM head phantom. This typically applies to clam-shell style phones that are generally longer in the unfolded normal use positions or to certain older style long rectangular phones. Per IEEE 1528-2013, a rotated SAM phantom is necessary to allow probe access to such regions. Both SAM heads of the TwinSAM-Chin20 are rotated 20 degrees around the NF line. Each head can be removed from the table for emptying and cleaning.

Under these circumstances, the following procedures apply, adopted from the FCC guidance on SAR handsets document FCC KDB Publication 648474 D04v01r03. The SAR required in these regions of SAM should be measured using a flat phantom. The phone should be positioned with a separation distance of 4 mm between the ear reference point (ERP) and the outer surface of the flat phantom shell. While maintaining this distance at the ERP location, the low (bottom) edge of the phone should be lowered from the phantom to establish the same separation distance between the peak SAR location identified by the truncated partial SAR distribution measured with the SAM phantom. The distance from the peak SAR location to the phone is determined by the straight line passing perpendicularly through the phantom surface. When it is not feasible to maintain 4 mm separation at the ERP while also establishing the required separation at the peak SAR location, the top edge of the phone will be allowed to touch the phantom with a separation < 4 mm at the ERP. The phone should not be tilted to the left or right while placed in this inclined position to the flat phantom.

6.5 Body-Worn Accessory Configurations

Body-worn operating configurations are tested with the belt-clips and holsters attached to the device and positioned against a flat phantom in a normal use configuration (see Figure 6-4). Per FCC KDB Publication 648474 D04v01r03, Body-worn accessory exposure is typically related to voice mode operations when handsets are carried in body-worn accessories. The body-worn accessory procedures in FCC KDB Publication 447498 D01v06 should be used to test for body-worn accessory SAR compliance, without a headset connected to it. This enables the test results for such configuration to be compatible with that required for hotspot mode when the body-worn accessory test separation distance is greater than or equal to that required for hotspot mode, when applicable. When the reported SAR for a body-worn accessory, measured without a headset connected to the handset, is > 1.2 W/kg, the highest reported SAR configuration for that wireless mode and frequency band should be repeated for that body-worn accessory with a headset attached to the handset.

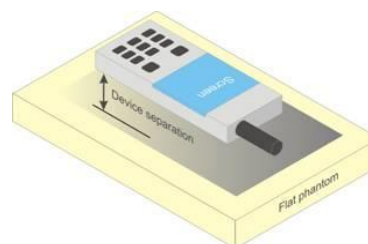


Figure 6-4 Sample Body-Worn Diagram

Accessories for Body-worn operation configurations are divided into two categories: those that do not contain metallic components and those that do contain metallic components. When multiple accessories that do not

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contain metallic components are supplied with the device, the device is tested with only the accessory that dictates the closest spacing to the body. Then multiple accessories that contain metallic components are tested with the device with each accessory. If multiple accessories share an identical metallic component (i.e. the same metallic belt-clip used with different holsters with no other metallic components) only the accessory that dictates the closest spacing to the body is tested.

Body-worn accessories may not always be supplied or available as options for some devices intended to be authorized for body-worn use. In this case, a test configuration with a separation distance between the back of the device and the flat phantom is used. Test position spacing was documented.

Transmitters that are designed to operate in front of a person's face, as in push-to-talk configurations, are tested for SAR compliance with the front of the device positioned to face the flat phantom in head fluid. For devices that are carried next to the body such as a shoulder, waist or chest-worn transmitters, SAR compliance is tested with the accessories, including headsets and microphones, attached to the device and positioned against a flat phantom in a normal use configuration.

6.6 Extremity Exposure Configurations

Devices that are designed or intended for use on extremities or mainly operated in extremity only exposure conditions; i.e., hands, wrists, feet and ankles, may require extremity SAR evaluation. When the device also operates in close proximity to the user's body, SAR compliance for the body is also required. The 1g body and 10g extremity SAR Exclusion Thresholds found in KDB Publication 447498 D01v06 should be applied to determine SAR test requirements.

Per KDB Publication 447498 D01v06, Cell phones (handsets) are not normally designed to be used on extremities or operated in extremity only exposure conditions. The maximum output power levels of handsets generally do not require extremity SAR testing to show compliance. Therefore, extremity SAR was not evaluated for this device.

6.7 Wireless Router Configurations

Some battery-operated handsets have the capability to transmit and receive user data through simultaneous transmission of WIFI simultaneously with a separate licensed transmitter. The FCC has provided guidance in FCC KDB Publication 941225 D06v02r01 where SAR test considerations for handsets ($L \times W \geq 9 \text{ cm} \times 5 \text{ cm}$) are based on a composite test separation distance of 10 mm from the front, back and edges of the device containing transmitting antennas within 2.5 cm of their edges, determined from general mixed use conditions for this type of devices. Since the hotspot SAR results may overlap with the body-worn accessory SAR requirements, the more conservative configurations can be considered, thus excluding some body-worn accessory SAR tests.

When the user enables the personal wireless router functions for the handset, actual operations include simultaneous transmission of both the WIFI transmitter and another licensed transmitter. Both transmitters often do not transmit at the same transmitting frequency and thus cannot be evaluated for SAR under actual use conditions due to the limitations of the SAR assessment probes. Therefore, SAR must be evaluated for each frequency transmission and mode separately and spatially summed with the WIFI transmitter according to FCC KDB Publication 447498 D01v06 procedures. The "Portable Hotspot" feature on the handset was NOT activated during SAR assessments, to ensure the SAR measurements were evaluated for a single transmission frequency RF signal at a time.

6.8 Phablet Configurations

For smart phones with a display diagonal dimension > 150 mm or an overall diagonal dimension > 160 mm that provide similar mobile web access and multimedia support found in mini-tablets or UMPC mini-tablets that

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support voice calls next to the ear, the phablets procedures outlined in KDB Publication 648474 D04v01r03 should be applied to evaluate SAR compliance. A device marketed as phablets, regardless of form factors and operating characteristics must be tested as a phablet to determine SAR compliance. In addition to the normally required head and body-worn accessory SAR test procedures required for handsets, the UMPC mini-tablet procedures must also be applied to test the SAR of all surfaces and edges with an antenna ≤ 25 mm from that surface or edge, in direct contact with the phantom, for 10g SAR. The UMPC mini-tablet 1g SAR at 5 mm is not required. When hotspot mode applies, 10g SAR is required only for the surfaces and edges with hotspot mode 1g SAR > 1.2 W/kg.

6.9 Proximity Sensor Considerations

This device uses a power reduction mechanism to reduce output powers in certain use conditions when the device is used close the user's body.

When the device's antenna is within a certain distance of the user, the sensor activates and reduces the maximum allowed output power. However, the sensor is not active when the device is moved beyond the sensor triggering distance and the maximum output power is no longer limited. Therefore, additional evaluation is needed in the vicinity of the triggering distance to ensure SAR is compliant when the device is allowed to operate at a non-reduced output power level. FCC KDB Publication 616217 D04v01r02 Section 6 was used as a guideline for selecting SAR test distances for this device at these additional test positions. Sensor triggering distance summary data is included in Appendix G.

The sensor is designed to support sufficient detection range and sensitivity to cover regions of the sensors in all applicable directions since the sensor entirely covers the antennas.

6.10 UMPC Mini-Tablet Configurations

Small hand-held tablets (and devices of similar form factors that are designed primarily for interactive hand-held use next to or near the body of users) require body SAR and extremity SAR evaluation. These types of mini-tablets are normally optimized for mobile web access and multimedia use. UMPC test procedures are applicable for devices with displays and overall diagonal dimension ≤ 20 cm. Devices are to be set up according to KDB publication 941225 D07v01r02 requirements and are configured with maximum output power during SAR assessment for a worst case SAR evaluation.

Per KDB Publication 941225 D07v01r02, UMPC mini-tablet devices must be tested for all surfaces and edges ≤ 25 mm from a transmitting antenna. A test separation distance of 10 mm may be considered for 1g SAR, with the addition of 10g SAR measurement at 0 mm test separation distance for all measured 1g SAR (at 10 mm) configurations to address hand exposure.

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7 RF EXPOSURE LIMITS

7.1 Uncontrolled Environment

UNCONTROLLED ENVIRONMENTS are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure. The general population/uncontrolled exposure limits are applicable to situations in which the general public may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Members of the general public would come under this category when exposure is not employment-related; for example, in the case of a wireless transmitter that exposes persons in its vicinity.

7.2 Controlled Environment

CONTROLLED ENVIRONMENTS are defined as locations where there is exposure that may be incurred by persons who are aware of the potential for exposure, (i.e. as a result of employment or occupation). In general, occupational/controlled exposure limits are applicable to situations in which persons are exposed as a consequence of their employment, who have been made fully aware of the potential for exposure and can exercise control over their exposure. This exposure category is also applicable when the exposure is of a transient nature due to incidental passage through a location where the exposure levels may be higher than the general population/uncontrolled limits, but the exposed person is fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

Table 7-1
SAR Human Exposure Specified in ANSI/IEEE C95.1-1992 and Health Canada Safety Code 6

HUMAN EXPOSURE LIMITS		
	UNCONTROLLED ENVIRONMENT <i>General Population</i> (W/kg) or (mW/g)	CONTROLLED ENVIRONMENT <i>Occupational</i> (W/kg) or (mW/g)
Peak Spatial Average SAR Head	1.6	8.0
Whole Body SAR	0.08	0.4
Peak Spatial Average SAR Hands, Feet, Ankle, Wrists, etc.	4.0	20

1. The Spatial Peak value of the SAR averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.
2. The Spatial Average value of the SAR averaged over the whole body.
3. The Spatial Peak value of the SAR averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.

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8 FCC MEASUREMENT PROCEDURES

Power measurements for licensed transmitters are performed using a base station simulator under digital average power.

8.1 Measured and Reported SAR

Per FCC KDB Publication 447498 D01v06, when SAR is not measured at the maximum power level allowed for production units, the results must be scaled to the maximum tune-up tolerance limit according to the power applied to the individual channels tested to determine compliance. For simultaneous transmission, the measured aggregate SAR must be scaled according to the sum of the differences between the maximum tune-up tolerance and actual power used to test each transmitter. When SAR is measured at or scaled to the maximum tune-up tolerance limit, the results are referred to as *reported* SAR. The highest *reported* SAR results are identified on the grant of equipment authorization according to procedures in KDB 690783 D01v01r03.

8.2 3G SAR Test Reduction Procedure

In FCC KDB Publication 941225 D01v03r01, certain transmission modes within a frequency band and wireless mode evaluated for SAR are defined as primary modes. The equivalent modes considered for SAR test reduction are denoted as secondary modes. When the maximum output power including tune-up tolerance specified for production units in a secondary mode is ≤ 0.25 dB higher than the primary mode or when the highest reported SAR of the primary mode, scaled by the ratio of specified maximum output power and tune-up tolerance of secondary to primary mode, is ≤ 1.2 W/kg, SAR measurements are not required for the secondary mode. These criteria are referred to as the 3G SAR test reduction procedure. When the 3G SAR test reduction procedure is not satisfied, SAR measurements are additionally required for the secondary mode.

8.3 Procedures Used to Establish RF Signal for SAR

The following procedures are according to FCC KDB Publication 941225 D01v03r01 “3G SAR Measurement Procedures.”

The device is placed into a simulated call using a base station simulator in a RF shielded chamber. Establishing connections in this manner ensure a consistent means for testing SAR and are recommended for evaluating SAR [4]. Devices under test are evaluated prior to testing, with a fully charged battery and were configured to operate at maximum output power. In order to verify that the device is tested throughout the SAR test at maximum output power, the SAR measurement system measures a “point SAR” at an arbitrary reference point at the start and end of the 1 gram SAR evaluation, to assess for any power drifts during the evaluation. If the power drift deviates by more than 5%, the SAR test and drift measurements are repeated.

8.4 SAR Measurement Conditions for CDMA2000

The following procedures were performed according to FCC KDB Publication 941225 D01v03r01 “3G SAR Measurement Procedures.”

8.4.1 Output Power Verification

See 3GPP2 C.S0011/TIA-98-E as recommended by FCC KDB Publication 941225 D01v03r01 “3G SAR Measurement Procedures.” Maximum output power is verified on the High, Middle and Low channels according to procedures in section 4.4.5.2 of 3GPP2 C.S0011/TIA-98-E. SO55 tests were measured with power control bits in the “All Up” condition.

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1. If the mobile station (MS) supports Reverse TCH RC 1 and Forward TCH RC 1, set up a call using Fundamental Channel Test Mode 1 (RC=1/1) with 9600 bps data rate only.
2. Under RC1, C.S0011 Table 4.4.5.2-1, Table 8-1 parameters were applied.
3. If the MS supports the RC 3 Reverse FCH, RC3 Reverse SCH₀ and demodulation of RC 3,4, or 5, set up a call using Supplemental Channel Test Mode 3 (RC 3/3) with 9600 bps Fundamental Channel and 9600 bps SCH₀ data rate.
4. Under RC3, C.S0011 Table 4.4.5.2-2, Table 8-2 was applied.

Table 8-1
Parameters for Max. Power for RC1

Parameter	Units	Value
I_{or}	dBm/1.23 MHz	-104
$\frac{Pilot E_c}{I_{or}}$	dB	-7
$\frac{Traffic E_c}{I_{or}}$	dB	-7.4

Table 8-2
Parameters for Max. Power for RC3

Parameter	Units	Value
I_{or}	dBm/1.23 MHz	-86
$\frac{Pilot E_c}{I_{or}}$	dB	-7
$\frac{Traffic E_c}{I_{or}}$	dB	-7.4

5. FCHs were configured at full rate for maximum SAR with “All Up” power control bits.

8.4.2 Head SAR Measurements

SAR for next to the ear head exposure is measured in RC3 with the handset configured to transmit at full rate in SO55. The 3G SAR test reduction procedure is applied to RC1 with RC3 as the primary mode; otherwise, SAR is required for the channel with maximum measured output in RC1 using the head exposure configuration that results in the highest reported SAR in RC3.

Head SAR is additionally evaluated using EVDO Rev. A to support compliance for VoIP operations. See Section 8.4.5 for EVDO Rev. A configuration parameters.

8.4.3 Body-worn SAR Measurements

SAR for body-worn exposure configurations is measured in RC3 with the DUT configured to transmit at full rate on FCH with all other code channels disabled using TDSO / SO32. The 3G SAR test reduction procedure is applied to the multiple code channel configuration (FCH+SCH_n), with FCH only as the primary mode. Otherwise, SAR is required for multiple code channel configuration (FCH + SCH_n), with FCH at full rate and SCH₀ enabled at 9600 bps, using the highest reported SAR configuration for FCH only. When multiple code channels are enabled, the transmitter output can shift by more than 0.5 dB and may lead to higher SAR drifts and SCH dropouts.

The 3G SAR test reduction procedure is applied to body-worn accessory SAR in RC1 with RC3 as the primary mode. Otherwise, SAR is required for RC1, with SO55 and full rate, using the highest reported SAR configuration for body-worn accessory exposure in RC3.

8.4.4 Body-worn SAR Measurements for EVDO Devices

For handsets with EVDO capabilities, the 3G SAR test reduction procedure is applied to EVDO Rev. 0 with 1x RTT RC3 as the primary mode to determine body-worn accessory test requirements. Otherwise, body-worn accessory SAR is required for Rev. 0, at 153.6 kbps, using the highest reported SAR configuration for body-worn accessory exposure in RC3.

The 3G SAR test reduction procedure is applied to Rev. A, with Rev. 0 as the primary mode to determine body-worn accessory SAR test requirements. When SAR is not required for Rev. 0, the 3G SAR test reduction is applied with 1x RTT RC3 as the primary mode.

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When SAR is required for EVDO Rev. A, SAR is measured with a Reverse Data Channel payload size of 4096 bits and a Termination Target of 16 slots defined for Subtype 2 Physical Layer configurations, using the highest reported SAR configuration for body-worn accessory exposure in Rev. 0 or 1x RTT RC3, as appropriate.

8.4.5 Body SAR Measurements for EVDO Hotspot

Hotspot Body SAR is measured using Subtype 0/1 Physical Layer configurations for Rev. 0. The 3G SAR test reduction procedure is applied to Rev. A, Subtype 2 Physical layer configuration, with Rev. 0 as the primary mode; otherwise, SAR is measured for Rev. A using the highest reported SAR configuration for body-worn accessory exposure in Rev. 0. The AT is tested with a Reverse Data Channel rate of 153.6 kbps in Subtype 0/1 Physical Layer configurations; and a Reverse Data Channel payload size of 4096 bits and Termination Target of 16 slots in Subtype 2 Physical Layer configurations.

For EVDO data devices that also support 1x RTT voice and/or data operations, the 3G SAR test reduction procedure is applied to 1x RTT RC3 and RC1 with EVDO Rev. 0 and Rev. A as the respective primary modes. Otherwise, the 'Body-Worn Accessory SAR' procedures in the '3GPP2 CDMA 2000 1x Handsets' section are applied.

8.4.6 CDMA2000 1x Advanced

This device additionally supports 1x Advanced. Conducted powers are measured using SO75 with RC8 on the uplink and RC11 on the downlink per FCC KDB Publication 941225 D01v03r01. Smart blanking is disabled for all measurements. The EUT is configured with forward power control Mode 000 and reverse power control at 400 bps. Conducted powers are measured on an Agilent 8960 Series 10 Wireless Communications Test Set, Model E5515C using the CDMA2000 1x Advanced application, Option E1962B-410.

The 3G SAR test reduction procedure is applied to the 1x-Advanced transmission mode with 1x RTT RC3 as the primary mode. When SAR measurement is required, the 1x-Advanced power measurement configurations are used. The 1x Advanced SAR procedures are applied separately to head, body-worn accessory and other exposure conditions.

8.5 SAR Measurement Conditions for UMTS

8.5.1 Output Power Verification

Maximum output power is verified on the High, Middle and Low channels according to the general descriptions in section 5.2 of 3GPP TS 34.121, using the appropriate RMC with TPC (transmit power control) set to all "1s" or applying the required inner loop power control procedures to maintain maximum output power while HSUPA is active. Results for all applicable physical channel configurations (DPCCH, DPDCHn and spreading codes, HS-DPCCH etc) are tabulated in this test report. All configurations that are not supported by the DUT or cannot be measured due to technical or equipment limitations are identified.

8.5.2 Head SAR Measurements

SAR for next to the ear head exposure is measured using a 12.2 kbps RMC with TPC bits configured to all "1s". The 3G SAR test reduction procedure is applied to AMR configurations with 12.2 kbps RMC as the

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primary mode. Otherwise, SAR is measured for 12.2 kbps AMR in 3.4 kbps SRB (signaling radio bearer) using the highest reported SAR configuration in 12.2 kbps RMC for head exposure.

8.5.3 Body SAR Measurements

SAR for body exposure configurations is measured using the 12.2 kbps RMC with the TPC bits all “1s”. The 3G SAR test reduction procedure is applied to other spreading codes and multiple DPDCH_n configurations supported by the handset with 12.2 kbps RMC as the primary mode. Otherwise, SAR is measured using an applicable RMC configuration with the corresponding spreading code or DPDCH_n, for the highest reported SAR configuration in 12.2 kbps RMC.

8.5.4 SAR Measurements with Rel 5 HSDPA

The 3G SAR test reduction procedure is applied to HSDPA body configurations with 12.2 kbps RMC as the primary mode. Otherwise, Body SAR for HSDPA is measured using an FRC with H-Set 1 in Sub-test 1 and a 12.2 kbps RMC configured in Test Loop Mode 1, for the highest reported SAR configuration in 12.2 kbps RMC without HSDPA. Handsets with both HSDPA and HSUPA are tested according to Release 6 HSPA test procedures.

8.5.5 SAR Measurements with Rel 6 HSUPA

The 3G SAR test reduction procedure is applied to HSPA (HSUPA/HSDPA with RMC) body configurations with 12.2 kbps RMC as the primary mode. Otherwise, Body SAR for HSPA is measured with E-DCH Sub-test 5, using H-Set 1 and QPSK for FRC and a 12.2 kbps RMC configured in Test Loop Mode 1 and power control algorithm 2, according to the highest reported body SAR configuration in 12.2 kbps RMC without HSPA.

When VOIP applies to head exposure, the 3G SAR test reduction procedure is applied with 12.2 kbps RMC as the primary mode; otherwise, the same HSPA configuration used for body SAR measurements are applied to head exposure testing.

8.5.6 SAR Measurement Conditions for DC-HSDPA

SAR is required for Rel. 8 DC-HSDPA when SAR is required for Rel. 5 HSDPA; otherwise, the 3G SAR test reduction procedure is applied to DC-HSDPA with 12.2 kbps RMC as the primary mode. Power is measured for DC-HSDPA according to the H-Set 12, FRC configuration in Table C.8.1.12 of 3GPP TS 34.121-1 to determine SAR test reduction. A primary and a secondary serving HS-DSCH Cell are required to perform the power measurement and for the results to be acceptable.

8.6 SAR Measurement Conditions for LTE

LTE modes are tested according to FCC KDB 941225 D05v02r04 publication. Establishing connections with base station simulators ensure a consistent means for testing SAR and are recommended for evaluating SAR [4]. The R&S CMW500 or Anritsu MT8820C simulators are used for LTE output power measurements and SAR testing. Closed loop power control was used so the UE transmits with maximum output power during SAR testing. SAR tests were performed with the same number of RB and RB offsets transmitting on all TTI frames (maximum TTI).

8.6.1 Spectrum Plots for RB Configurations

A properly configured base station simulator was used for SAR tests and power measurements. Therefore, spectrum plots for RB configurations were not required to be included in this report.

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8.6.2 MPR

MPR is permanently implemented for this device by the manufacturer. The specific manufacturer target MPR is indicated alongside the SAR results. MPR is enabled for this device, according to 3GPP TS36.101 Section 6.2.3 – 6.2.5 under Table 6.2.3-1.

8.6.3 A-MPR

A-MPR (Additional MPR) has been disabled for all SAR tests by setting NS=01 on the base station simulator.

8.6.4 Required RB Size and RB Offsets for SAR Testing

According to FCC KDB 941225 D05v02r04:

- a. Per Section 5.2.1, SAR is required for QPSK 1 RB Allocation for the largest bandwidth
 - i. The required channel and offset combination with the highest maximum output power is required for SAR.
 - ii. When the reported SAR is ≤ 0.8 W/kg, testing of the remaining RB offset configurations and required test channels is not required. Otherwise, SAR is required for the remaining required test channels using the RB offset configuration with highest output power for that channel.
 - iii. When the reported SAR for a required test channel is > 1.45 W/kg, SAR is required for all RB offset configurations for that channel.
- b. Per Section 5.2.2, SAR is required for 50% RB allocation using the largest bandwidth following the same procedures outlined in Section 5.2.1.
- c. Per Section 5.2.3, QPSK SAR is not required for the 100% allocation when the highest maximum output power for the 100% allocation is less than the highest maximum output power of the 1 RB and 50% RB allocations and the reported SAR for the 1 RB and 50% RB allocations is ≤ 0.8 W/kg.
- d. Per Section 5.2.4 and 5.3, SAR tests for higher order modulations and lower bandwidths configurations are not required when the conducted power of the required test configurations determined by Sections 5.2.1 through 5.2.3 is less than or equal to $\frac{1}{2}$ dB higher than the equivalent configuration using QPSK modulation and when the QPSK SAR for those configurations is < 1.45 W/kg.

8.6.5 TDD

LTE TDD testing is performed using the SAR test guidance provided in FCC KDB 941225 D05v02r04. TDD is tested at the highest duty factor using UL-DL configuration 0 with special subframe configuration 6 and applying the FDD LTE procedures in KDB 941225 D05v02r04. SAR testing is performed using the extended cyclic prefix listed in 3GPP TS 36.211 Section 4.

8.6.6 Downlink Only Carrier Aggregation

Conducted power measurements with LTE Carrier Aggregation (CA) (downlink only) active are made in accordance to KDB Publication 941225 D05Av01r02. The RRC connection is only handled by one cell, the primary component carrier (PCC) for downlink and uplink communications. After making a data connection to the PCC, the UE device adds secondary component carrier(s) (SCC) on the downlink only. All uplink communications and acknowledgements remain identical to specifications when downlink carrier aggregation is inactive on the PCC. Additional conducted output powers are measured with the downlink carrier aggregation active for the configuration with highest measured maximum conducted power with downlink carrier aggregation inactive measured among the channel bandwidth, modulation, and RB combinations in each frequency band. Per FCC KDB Publication 941225 D05Av01r02, no SAR measurements are required for downlink only carrier aggregation configurations when the average output

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power with downlink only carrier aggregation active is not more than 0.25 dB higher than the average output power with downlink only carrier aggregation inactive.

8.7 SAR Testing with 802.11 Transmitters

The normal network operating configurations of 802.11 transmitters are not suitable for SAR measurements. Unpredictable fluctuations in network traffic and antenna diversity conditions can introduce undesirable variations in SAR results. The SAR for these devices should be measured using chipset based test mode software to ensure the results are consistent and reliable. See KDB Publication 248227 D01v02r02 for more details.

8.7.1 General Device Setup

Chipset based test mode software is hardware dependent and generally varies among manufacturers. The device operating parameters established in test mode for SAR measurements must be identical to those programmed in production units, including output power levels, amplifier gain settings and other RF performance tuning parameters.

A periodic duty factor is required for current generation SAR systems to measure SAR. When 802.11 frame gaps are accounted for in the transmission, a maximum transmission duty factor of 92 - 96% is typically achievable in most test mode configurations. A minimum transmission duty factor of 85% is required to avoid certain hardware and device implementation issues related to wide range SAR scaling. The reported SAR is scaled to 100% transmission duty factor to determine compliance at the maximum tune-up tolerance limit.

8.7.2 U-NII-1 and U-NII-2A

For devices that operate in both U-NII-1 and U-NII-2A bands, when the same maximum output power is specified for both bands, SAR measurement using OFDM SAR test procedures is not required for U-NII-1 unless the highest reported SAR for U-NII-2A is > 1.2 W/kg. When different maximum output powers are specified for the bands, SAR measurement for the U-NII band with the lower maximum output power is not required unless the highest reported SAR for the U-NII band with the higher maximum output power, adjusted by the ratio of lower to higher specified maximum output power for the two bands, is > 1.2 W/kg. When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

8.7.3 U-NII-2C and U-NII-3

The frequency range covered by U-NII-2C and U-NII-3 is 380 MHz (5.47 – 5.85 GHz), which requires a minimum of at least two SAR probe calibration frequency points to support SAR measurements. When Terminal Doppler Weather Radar (TDWR) restriction applies, the channels at 5.60 – 5.65 GHz in U-NII-2C band must be disabled with acceptable mechanisms and documented in the equipment certification. Unless band gap channels are permanently disabled, SAR must be considered for these channels. Each band is tested independently according to the normally required OFDM SAR measurement and probe calibration frequency points requirements.

8.7.4 Initial Test Position Procedure

For exposure conditions with multiple test positions, such as handset operating next to the ear, devices with hotspot mode or UMPC mini-tablet, procedures for initial test position can be applied. Using the transmission mode determined by the DSSS procedure or initial test configuration, area scans are measured for all positions in an exposure condition. The test position with the highest extrapolated (peak) SAR is used as the initial test position. When reported SAR for the initial test position is ≤ 0.4 W/kg, no additional testing for the remaining test positions is required. Otherwise, SAR is evaluated at the subsequent highest peak SAR

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positions until the reported SAR result is ≤ 0.8 W/kg or all test positions are measured. When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

8.7.5 2.4 GHz SAR Test Requirements

SAR is measured for 2.4 GHz 802.11b DSSS using either the fixed test position or, when applicable, the initial test position procedure. SAR test reduction is determined according to the following:

- 1) When the reported SAR of the highest measured maximum output power channel for the exposure configuration is ≤ 0.8 W/kg, no further SAR testing is required for 802.11b DSSS in that exposure configuration.
- 2) When the reported SAR is > 0.8 W/kg, SAR is required for that position using the next highest measured output power channel. When any reported SAR is > 1.2 W/kg, SAR is required for the third channel; i.e., all channels require testing.

2.4 GHz 802.11 g/n/ax OFDM are additionally evaluated for SAR if the highest reported SAR for 802.11b, adjusted by the ratio of the OFDM to DSSS specified maximum output power, is > 1.2 W/kg. When SAR is required for OFDM modes in 2.4 GHz band, the Initial Test Configuration Procedures should be followed. When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

8.7.6 OFDM Transmission Mode and SAR Test Channel Selection

When the same maximum output power was specified for multiple OFDM transmission mode configurations in a frequency band or aggregated band, SAR is measured using the configuration with the largest channel bandwidth, lowest order modulation and lowest data rate. When the maximum output power of a channel is the same for equivalent OFDM configurations; for example, 802.11a, 802.11n and 802.11ac or 802.11g and 802.11n with the same channel bandwidth, modulation and data rate etc., the lower order 802.11 mode i.e., 802.11a, then 802.11n and 802.11ac or 802.11g then 802.11n, is used for SAR measurement. Per April 2019 TCB Workshop guidance, 802.11ax was considered the highest order 802.11 mode. When the maximum output power are the same for multiple test channels, either according to the default or additional power measurement requirements, SAR is measured using the channel closest to the middle of the frequency band or aggregated band. When there are multiple channels with the same maximum output power, SAR is measured using the higher number channel.

8.7.7 Initial Test Configuration Procedure

For OFDM, an initial test configuration is determined for each frequency band and aggregated band, according to the transmission mode with the highest maximum output power specified for SAR measurements. When the same maximum output power is specified for multiple OFDM transmission mode configurations in a frequency band or aggregated band, SAR is measured using the configuration(s) with the largest channel bandwidth, lowest order modulation, lowest data rate and lowest order IEEE 802.11 mode. The channel of the transmission mode with the highest average RF output conducted power will be the initial test configuration.

When the reported SAR is ≤ 0.8 W/kg, no additional measurements on other test channels are required. Otherwise, SAR is evaluated using the subsequent highest average RF output channel until the reported SAR result is ≤ 1.2 W/kg or all channels are measured. When there are multiple untested channels having the same subsequent highest average RF output power, the channel with higher frequency from the lowest 802.11 mode is considered for SAR measurements (See Section 8.7.6). When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

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8.7.8 Subsequent Test Configuration Procedures

For OFDM configurations in each frequency band and aggregated band, SAR is evaluated for initial test configuration using the fixed test position or the initial test position procedure. When the highest reported SAR (for the initial test configuration), adjusted by the ratio of the specified maximum output power of the subsequent test configuration to initial test configuration, is ≤ 1.2 W/kg, no additional SAR tests for the subsequent test configurations are required. When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

8.7.9 MIMO SAR considerations

Per KDB Publication 248227 D01v02r02, the simultaneous SAR provisions in KDB Publication 447498 D01v06 should be applied to determine simultaneous transmission SAR test exclusion for WIFI MIMO. If the sum of 1g single transmission chain SAR measurements is <1.6 W/kg, no additional SAR measurements for MIMO are required. Alternatively, SAR for MIMO can be measured with all antennas transmitting simultaneously at the specified maximum output power of MIMO operation. When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

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9 RF CONDUCTED POWERS

9.1 CDMA Conducted Powers

Table 9-1

Measured P_{max} for all DSI for CDMA BC10 and CDMA BC0

Measured P_{Limit} for DSI = 0/11 (Body-worn, or Phablet/UMPC with grip sensor inactive), or DSI = 3/4 (Head) CDMA BC1

Band	Channel	Rule Part	Frequency	SO55 [dBm]	SO55 [dBm]	SO75 [dBm]	TDSO SO32 [dBm]	TDSO SO32 [dBm]	1x EvDO Rev. 0 [dBm]	1x EvDO Rev. A [dBm]
	F-RC		MHz	RC1	RC3	RC11	FCH+SCH	FCH	(RTAP)	(RETAP)
Cellular	564	90S	820.1	24.24	24.27	24.20	24.26	24.26	24.10	24.09
Cellular	1013	22H	824.7	24.28	24.28	24.71	24.29	24.25	24.03	24.01
	384	22H	836.52	24.26	24.29	24.68	24.27	24.26	24.04	24.04
	777	22H	848.31	24.26	24.27	24.75	24.25	24.23	24.02	24.02
PCS	25	24E	1851.25	23.31	23.35	23.09	23.39	23.41	23.22	23.21
	600	24E	1880	23.20	23.22	22.90	23.19	23.22	23.05	23.00
	1175	24E	1908.75	23.21	23.22	23.05	23.24	23.25	23.12	23.13

Table 9-2

Measured P_{Limit} for DSI = 1/2 (Phablet or UMPC Extremity with grip sensor active), or DSI = 5/6 (Hotspot Mode), and/or DSI = 7/8 (Earjack active)

Band	Channel	Rule Part	Frequency	SO55 [dBm]	SO55 [dBm]	SO75 [dBm]	TDSO SO32 [dBm]	TDSO SO32 [dBm]	1x EvDO Rev. 0 [dBm]	1x EvDO Rev. A [dBm]
	F-RC		MHz	RC1	RC3	RC11	FCH+SCH	FCH	(RTAP)	(RETAP)
PCS	25	24E	1851.25	18.17	18.13	18.10	18.18	18.15	18.21	18.17
	600	24E	1880	17.64	17.68	17.76	17.66	17.68	17.74	17.65
	1175	24E	1908.75	17.63	17.63	17.85	17.65	17.64	17.72	17.66

Note: RC1 is only applicable for IS-95 compatibility. For FCC Rule Part 90S, Per FCC KDB Publication 447498 D01v06 4.1.g), only one channel is required since the device operates within the transmission range of 817.90 – 823.10 MHz.

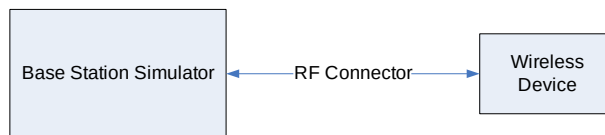


Figure 9-1
Power Measurement Setup

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9.2 GSM Conducted Powers

Table 9-3
Measured P_{max} for all DSI for GSM 850

Measured P_{max} for DSI = 0/11 (Body-worn, or Phablet/UMPC with grip sensor inactive), or DSI = 3/4 (Head) for GSM 1900

Maximum Burst-Averaged Output Power										
		Voice	GPRS/EDGE Data (GMSK)				EDGE Data (8-PSK)			
Band	Channel	GSM [dBm] CS (1 Slot)	GPRS [dBm] 1 Tx Slot	GPRS [dBm] 2 Tx Slot	GPRS [dBm] 3 Tx Slot	GPRS [dBm] 4 Tx Slot	EDGE [dBm] 1 Tx Slot	EDGE [dBm] 2 Tx Slot	EDGE [dBm] 3 Tx Slot	EDGE [dBm] 4 Tx Slot
GSM 850	128	31.60	31.77	30.90	28.84	26.93	26.17	24.52	22.61	21.50
	190	31.65	31.54	30.55	28.85	26.85	25.95	24.66	22.63	21.77
	251	31.64	31.70	30.50	28.62	26.65	25.90	24.30	22.41	21.54
GSM 1900	512	28.34	28.34	27.21	25.65	23.77	24.58	23.34	21.20	20.02
	661	28.35	28.27	27.20	25.68	23.61	24.67	23.27	21.12	20.12
	810	28.21	28.21	27.45	25.50	23.70	24.55	23.23	21.09	20.08

Calculated Maximum Frame-Averaged Output Power										
		Voice	GPRS/EDGE Data (GMSK)				EDGE Data (8-PSK)			
Band	Channel	GSM [dBm] CS (1 Slot)	GPRS [dBm] 1 Tx Slot	GPRS [dBm] 2 Tx Slot	GPRS [dBm] 3 Tx Slot	GPRS [dBm] 4 Tx Slot	EDGE [dBm] 1 Tx Slot	EDGE [dBm] 2 Tx Slot	EDGE [dBm] 3 Tx Slot	EDGE [dBm] 4 Tx Slot
GSM 850	128	22.40	22.57	24.71	24.41	23.75	16.97	18.33	18.18	18.32
	190	22.45	22.34	24.36	24.42	23.67	16.75	18.47	18.20	18.59
	251	22.44	22.50	24.31	24.19	23.47	16.70	18.11	17.98	18.36
GSM 1900	512	19.14	19.14	21.02	21.22	20.59	15.38	17.15	16.77	16.84
	661	19.15	19.07	21.01	21.25	20.43	15.47	17.08	16.69	16.94
	810	19.01	19.01	21.26	21.07	20.52	15.35	17.04	16.66	16.90

GSM 850	Frame	23.30	23.30	25.31	25.07	24.32	17.80	18.81	18.57	18.82
GSM 1900	Avg. Targets:	20.00	20.00	21.81	22.07	21.32	16.80	16.81	16.57	16.82

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Table 9-4
Measured P_{limit} for DSI = 1/2 (Phablet or UMPC Extremity with grip sensor active), or DSI = 5/6 (Hotspot Mode), and/or DSI = 7/8 (Earjack active)

Maximum Burst-Averaged Output Power										
		Voice	GPRS/EDGE Data (GMSK)				EDGE Data (8-PSK)			
Band	Channel	GSM [dBm] CS (1 Slot)	GPRS [dBm] 1 Tx Slot	GPRS [dBm] 2 Tx Slot	GPRS [dBm] 3 Tx Slot	GPRS [dBm] 4 Tx Slot	EDGE [dBm] 1 Tx Slot	EDGE [dBm] 2 Tx Slot	EDGE [dBm] 3 Tx Slot	EDGE [dBm] 4 Tx Slot
GSM 1900	512	27.28	27.26	24.00	22.20	21.06	24.58	23.34	21.20	20.02
	661	27.22	27.22	24.20	22.22	21.09	24.67	23.27	21.12	20.12
	810	27.28	27.27	24.00	22.23	21.08	24.55	23.23	21.09	20.08

Calculated Maximum Frame-Averaged Output Power										
		Voice	GPRS/EDGE Data (GMSK)				EDGE Data (8-PSK)			
Band	Channel	GSM [dBm] CS (1 Slot)	GPRS [dBm] 1 Tx Slot	GPRS [dBm] 2 Tx Slot	GPRS [dBm] 3 Tx Slot	GPRS [dBm] 4 Tx Slot	EDGE [dBm] 1 Tx Slot	EDGE [dBm] 2 Tx Slot	EDGE [dBm] 3 Tx Slot	EDGE [dBm] 4 Tx Slot
GSM 1900	512	18.08	18.06	17.81	17.77	17.88	15.38	17.15	16.77	16.84
	661	18.02	18.02	18.01	17.79	17.91	15.47	17.08	16.69	16.94
	810	18.08	18.07	17.81	17.80	17.90	15.35	17.04	16.66	16.90

GSM 1900	Frame Avg. Targets:	17.10	17.10	17.11	17.07	17.12	16.80	16.81	16.57	16.82
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Note:

- Both burst-averaged and calculated frame-averaged powers are included. Frame-averaged power was calculated from the measured burst-averaged power by converting the slot powers into linear units and calculating the energy over 8 timeslots.
- GPRS/EDGE (GMSK) output powers were measured with coding scheme setting of 1 (CS1) on the base station simulator. CS1 was configured to measure GPRS output power measurements and SAR to ensure GMSK modulation in the signal. Our Investigation has shown that CS1 - CS4 settings do not have any impact on the output levels or modulation in the GPRS modes.
- EDGE (8-PSK) output powers were measured with MCS7 on the base station simulator. MCS7 coding scheme was used to measure the output powers for EDGE since investigation has shown that choosing MCS7 coding scheme will ensure 8-PSK modulation. It has been shown that MCS levels that produce 8-PSK modulation do not have an impact on output power.

GSM Class: B
GPRS Multislot class: 33 (Max 4 Tx uplink slots)
EDGE Multislot class: 33 (Max 4 Tx uplink slots)
DTM Multislot Class: N/A

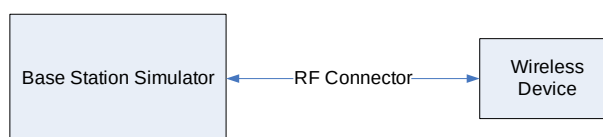


Figure 9-2
Power Measurement Setup

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9.3 UMTS Conducted Powers

Table 9-5

Measured P_{max} for all DSI for UMTS 850

Measured P_{max} for DSI = 0/11 (Body-worn, or Phablet/UMPC with grip sensor inactive), or DSI = 3/4 (Head) for UMTS Band 4
Measured P_{max} for DSI = 0/11 (Body-worn, or Phablet/UMPC with grip sensor inactive), or DSI = 3/4 (Head) UMTS Band 2

3GPP Release Version	Mode	3GPP 34.121 Subtest	Cellular Band [dBm]			AWS Band [dBm]			PCS Band [dBm]			3GPP MPR [dB]
			4132	4183	4233	1312	1412	1513	9262	9400	9538	
99	WCDMA	12.2 kbps RMC	24.47	24.48	24.35	24.34	24.35	24.11	24.03	24.04	24.01	-
99		12.2 kbps AMR	24.55	24.42	24.35	24.35	24.31	24.11	23.95	23.90	23.90	-
6	HSDPA	Subtest 1	23.69	23.60	23.53	23.64	23.52	23.37	23.16	23.00	23.00	0
6		Subtest 2	23.71	23.56	23.48	23.61	23.51	23.35	23.17	22.95	22.96	0
6		Subtest 3	23.16	23.04	22.96	23.11	22.98	22.83	22.63	22.45	22.47	0.5
6		Subtest 4	23.16	23.04	22.96	23.10	23.00	22.82	22.65	22.45	22.46	0.5
6	HSUPA	Subtest 1	23.70	23.60	23.54	23.69	23.58	23.41	23.19	23.02	22.97	0
6		Subtest 2	21.71	21.60	21.49	21.60	21.50	21.33	21.20	21.00	20.97	2
6		Subtest 3	22.66	22.53	22.47	22.56	22.50	22.32	22.23	22.00	21.99	1
6		Subtest 4	21.63	21.55	21.45	21.58	21.49	21.33	21.20	21.00	21.02	2
6		Subtest 5	23.66	23.53	23.44	23.60	23.50	23.33	23.22	23.03	23.05	0
8	DC-HSDPA	Subtest 1	23.65	23.54	23.47	23.65	23.57	23.41	23.17	23.02	23.03	0
8		Subtest 2	23.64	23.54	23.46	23.62	23.53	23.38	23.16	22.99	22.96	0
8		Subtest 3	23.14	23.04	22.95	23.12	23.01	22.88	22.68	22.49	22.48	0.5
8		Subtest 4	23.17	23.03	22.97	23.11	23.01	22.87	22.68	22.49	22.47	0.5

Table 9-6

Measured P_{limit} for DSI = 1/2 (Phablet or UMPC Extremity with grip sensor active), or DSI = 5/6 (Hotspot Mode), and/or DSI = 7/8 (Earjack active)

3GPP Release Version	Mode	3GPP 34.121 Subtest	AWS Band [dBm]			PCS Band [dBm]			3GPP MPR [dB]
			1312	1412	1513	9262	9400	9538	
99	WCDMA	12.2 kbps RMC	17.21	17.50	17.69	18.50	18.12	18.11	-
99		12.2 kbps AMR	17.17	17.45	17.68	18.46	18.08	18.07	-
6	HSDPA	Subtest 1	17.72	17.66	17.40	17.24	17.08	17.07	0
6		Subtest 2	17.68	17.62	17.44	17.26	17.06	17.00	0
6		Subtest 3	17.18	17.13	16.90	16.76	16.55	16.51	0.5
6		Subtest 4	17.20	17.10	16.95	16.76	16.56	16.53	0.5
6	HSUPA	Subtest 1	17.63	17.60	17.39	17.27	17.36	17.04	0
6		Subtest 2	15.67	15.60	15.41	15.12	15.07	15.05	2
6		Subtest 3	16.72	16.59	16.43	16.26	16.07	16.02	1
6		Subtest 4	15.72	15.62	15.48	15.34	15.28	15.25	2
6		Subtest 5	17.72	17.60	17.44	17.13	17.05	17.01	0
8	DC-HSDPA	Subtest 1	17.71	17.66	17.46	17.26	17.09	17.08	0
8		Subtest 2	17.70	17.66	17.48	17.25	17.06	17.08	0
8		Subtest 3	17.21	17.13	16.98	16.77	16.58	16.56	0.5
8		Subtest 4	17.19	17.18	16.95	16.81	16.66	16.58	0.5

DC-HSDPA considerations

- 3GPP Specification 34.121-1 Release 8 Ver 8.10.0 was used for DC-HSDPA guidance
- H-Set 12 (QPSK) was confirmed to be used during DC-HSDPA measurements
- The DUT supports UE category 24 for HSDPA

It is expected by the manufacturer that MPR for some HSPA subtests may be up to 2 dB more than specified by 3GPP, but also as low as 0 dB according to the chipset implementation in this model.



Figure 9-3
Power Measurement Setup

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9.4 LTE Conducted Powers

Note: Per FCC KDB Publication 941225 D05v02r05, LTE SAR for the lower bandwidths was not required for testing since the maximum average output power of all required channels and configurations was not more than 0.5 dB higher than the highest bandwidth and the reported LTE SAR for the highest bandwidth was less than 1.45 W/kg. Lower bandwidth conducted powers for all LTE bands can be found in Appendix H.

9.4.1

LTE Band 71

Table 9-7
LTE Band 71 Measured P_{Max} for all DSI - 20 MHz Bandwidth

LTE Band 71 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			133297 (680.5 MHz) Conducted Power [dBm]		
QPSK	1	0	25.31	0	0
	1	50	25.19		0
	1	99	24.82		0
	50	0	24.28	0-1	1
	50	25	24.31		1
	50	50	24.00		1
	100	0	24.17		1
16QAM	1	0	24.68	0-1	1
	1	50	24.67		1
	1	99	24.15		1
	50	0	23.24	0-2	2
	50	25	23.27		2
	50	50	22.99		2
	100	0	23.15		2
64QAM	1	0	23.54	0-2	2
	1	50	23.54		2
	1	99	23.01		2
	50	0	22.28	0-3	3
	50	25	22.30		3
	50	50	22.00		3
	100	0	22.18		3
256QAM	1	0	20.14	0-5	5
	1	50	20.42		5
	1	99	19.75		5
	50	0	20.27		5
	50	25	20.24		5
	50	50	20.04		5
	100	0	20.16		5

Note: LTE Band 71 at 20 MHz bandwidth does not support three non-overlapping channels. Per KDB Publication 941225 D05v02, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

9.4.2

LTE Band 12

Table 9-8
LTE Band 12 Measured P_{Max} for all DSI - 10 MHz Bandwidth

LTE Band 12 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23095 (707.5 MHz) Conducted Power [dBm]		
QPSK	1	0	24.45	0	0
	1	25	24.48		0
	1	49	24.44		0
	25	0	23.53	0-1	1
	25	12	23.61		1
	25	25	23.60		1
	50	0	23.53		1
16QAM	1	0	23.84	0-1	1
	1	25	24.00		1
	1	49	23.81		1
	25	0	22.54	0-2	2
	25	12	22.62		2
	25	25	22.55		2
	50	0	22.53		2
64QAM	1	0	22.66	0-2	2
	1	25	22.65		2
	1	49	22.50		2
	25	0	21.51	0-3	3
	25	12	21.65		3
	25	25	21.65		3
	50	0	21.53		3
256QAM	1	0	19.31	0-5	5
	1	25	19.70		5
	1	49	19.30		5
	25	0	19.53		5
	25	12	19.61		5
	25	25	19.58		5
	50	0	19.51		5

Note: LTE Band 12 at 10 MHz bandwidth does not support three non-overlapping channels. Per KDB Publication 941225 D05v02, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

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9.4.3

LTE Band 13

Table 9-9

LTE Band 13 Measured P_{Max} for all DSI - 10 MHz Bandwidth

LTE Band 13 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23230 (782.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	24.67	0	0
	1	25	24.71		0
	1	49	24.75		0
	25	0	23.74	0-1	1
	25	12	23.80		1
	25	25	23.85		1
	50	0	23.79		1
16QAM	1	0	24.06	0-1	1
	1	25	24.18		1
	1	49	24.19		1
	25	0	22.80	0-2	2
	25	12	22.77		2
	25	25	22.89		2
	50	0	22.78		2
64QAM	1	0	22.98	0-2	2
	1	25	23.01		2
	1	49	23.13		2
	25	0	21.82	0-3	3
	25	12	21.81		3
	25	25	21.88		3
	50	0	21.81		3
256QAM	1	0	19.44	0-5	5
	1	25	19.83		5
	1	49	19.66		5
	25	0	19.64		5
	25	12	19.78		5
	25	25	19.84		5
	50	0	19.71		5

9.4.4

LTE Band 14

Table 9-10

LTE Band 14 Measured P_{Max} for all DSI - 10 MHz Bandwidth

LTE Band 14 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23330 (793.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	24.79	0	0
	1	25	24.72		0
	1	49	24.62		0
	25	0	23.70	0-1	1
	25	12	23.75		1
	25	25	23.77		1
	50	0	23.67		1
16QAM	1	0	24.14	0-1	1
	1	25	24.13		1
	1	49	24.11		1
	25	0	22.71	0-2	2
	25	12	22.75		2
	25	25	22.74		2
	50	0	22.70		2
64QAM	1	0	22.96	0-2	2
	1	25	22.96		2
	1	49	22.88		2
	25	0	21.71	0-3	3
	25	12	21.79		3
	25	25	21.78		3
	50	0	21.71		3
256QAM	1	0	19.60	0-5	5
	1	25	19.85		5
	1	49	19.68		5
	25	0	19.69		5
	25	12	19.88		5
	25	25	19.75		5
	50	0	19.70		5

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9.4.5

LTE Band 26

Table 9-11

LTE Band 26 (Cell) Measured P_{Max} for all DSI - 15 MHz Bandwidth

LTE Band 26 (Cell) 15 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26865 (831.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	24.60	0	0
	1	36	24.58		0
	1	74	24.55		0
	36	0	23.61	0-1	1
	36	18	23.66		1
	36	37	23.64		1
	75	0	23.56		1
	1	0	24.30	0-1	1
16QAM	1	36	24.05		1
	1	74	23.95		1
	36	0	22.63	0-2	2
	36	18	22.65		2
	36	37	22.68		2
	75	0	22.57		2
	1	0	22.98	0-2	2
	1	36	22.84		2
64QAM	1	74	22.79		2
	36	0	21.69	0-3	3
	36	18	21.68		3
	36	37	21.67		3
	75	0	21.61		3
	1	0	19.64	0-5	5
	1	36	19.78		5
	1	74	19.55		5
256QAM	36	0	19.63		5
	36	18	19.64		5
	36	37	19.69		5
	75	0	19.62		5

Note: LTE Band 26 at 15 MHz bandwidth does not support three non-overlapping channels. Per KDB Publication 941225 D05v02, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

9.4.6

LTE Band 5

Table 9-12

LTE Band 5 (Cell) Measured P_{Max} for all DSI - 10 MHz Bandwidth

LTE Band 5 (Cell) 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20525 (836.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	24.09	0	0
	1	25	23.96		0
	1	49	23.87		0
	25	0	23.03	0-1	1
	25	12	22.96		1
	25	25	22.99		1
	50	0	22.92		1
	1	0	23.42	0-1	1
16QAM	1	25	23.17		1
	1	49	23.34		1
	25	0	22.09	0-2	2
	25	12	21.99		2
	25	25	22.09		2
	50	0	21.87		2
	1	0	22.30	0-2	2
	1	25	22.14		2
64QAM	1	49	22.26		2
	25	0	21.02	0-3	3
	25	12	21.11		3
	25	25	21.02		3
	50	0	20.92		3
	1	0	18.90	0-5	5
	1	25	19.13		5
	1	49	18.97		5
256QAM	25	0	18.85		5
	25	12	18.96		5
	25	25	18.94		5
	50	0	18.87		5

Note: LTE Band 5 at 10 MHz bandwidth does not support three non-overlapping channels. Per KDB Publication 941225 D05v02, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

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9.4.7

LTE Band 66

Table 9-13

LTE Band 66 (AWS) Antenna B Measured P_{Max} for DSI = 0/11 (Body-worn, or Phablet/UMPC with grip sensor inactive), or DSI = 3/4 (Head) - 20 MHz Bandwidth

LTE Band 66 (AWS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			132072 (1720.0 MHz)	132322 (1745.0 MHz)	132572 (1770.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	23.91	23.93	24.16	0	0
	1	50	24.14	24.24	24.08		0
	1	99	24.05	24.09	24.01		0
	50	0	23.22	23.35	23.17	0-1	1
	50	25	23.23	23.37	23.19		1
	50	50	23.30	23.28	23.10		1
16QAM	100	0	23.28	23.23	23.18	0-1	1
	1	0	23.07	23.27	23.51		1
	1	50	23.41	23.72	23.47		1
	1	99	23.36	23.39	23.22	0-2	1
	50	0	22.15	22.31	22.20		2
	50	25	22.23	22.37	22.24		2
64QAM	50	50	22.17	22.28	22.14	0-2	2
	100	0	22.18	22.29	22.16		2
	1	0	22.17	22.12	22.48		0-2
	1	50	22.34	22.54	22.29	2	
	1	99	22.25	22.25	22.27	2	
	256QAM	50	0	21.20	21.34	21.16	0-3
50		25	21.28	21.42	21.24	3	
50		50	21.17	21.37	21.13	3	
100		0	21.22	21.29	21.19	0-5	3
1		0	19.09	19.33	19.25		5
1		50	19.26	19.46	19.44		5
256QAM	1	99	19.11	19.63	19.21	0-5	5
	50	0	19.16	19.34	19.17		5
	50	25	19.28	19.39	19.30		5
	50	50	19.21	19.34	19.15	0-5	5
	100	0	19.20	19.35	19.19		5

Table 9-14

LTE Band 66 (AWS) Antenna B Measured P_{Max} for DSI = 0/11 (Body-worn, or Phablet/UMPC with grip sensor inactive), or DSI = 3/4 (Head) - 10 MHz Bandwidth

LTE Band 66 (AWS) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			132022 (1715.0 MHz)	132322 (1745.0 MHz)	132622 (1775.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	23.89	24.04	23.79	0	0
	1	25	24.11	24.31	24.09		0
	1	49	23.98	24.04	23.87		0
	25	0	23.19	23.30	23.10	0-1	1
	25	12	23.23	23.41	23.22		1
	25	25	23.11	23.26	23.05		1
16QAM	50	0	23.21	23.30	23.10	0-1	1
	1	0	23.15	23.39	23.13		1
	1	25	23.39	23.81	23.44		1
	1	49	23.36	23.60	23.29	0-2	1
	25	0	22.18	22.31	22.08		2
	25	12	22.24	22.40	22.15		2
64QAM	25	25	22.10	22.26	22.05	0-2	2
	50	0	22.15	22.34	22.14		2
	1	0	22.14	22.18	22.06		0-2
	1	25	22.23	22.55	22.28	2	
	1	49	22.03	22.32	21.99	2	
	256QAM	25	0	21.20	21.33	21.15	0-3
25		12	21.24	21.46	21.19	3	
25		25	21.13	21.33	21.07	3	
50		0	21.25	21.27	21.16	0-5	3
1		0	19.11	19.16	18.98		5
1		25	19.26	19.53	19.19		5
256QAM	1	49	19.09	19.23	19.04	0-5	5
	25	0	19.23	19.31	19.15		5
	25	12	19.31	19.43	19.19		5
	25	25	19.14	19.38	19.06	0-5	5
	50	0	19.22	19.33	19.08		5

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Table 9-15

LTE Band 66 (AWS) Antenna B Measured P_{limit} for DSI = 1/2 (Phablet or UMPC Extremity with grip sensor active), or DSI = 5/6 (Hotspot Mode), and/or DSI = 7/8 (Earjack active) - 20 MHz Bandwidth

LTE Band 66 (AWS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			132072 (1720.0 MHz)	132322 (1745.0 MHz)	132572 (1770.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	17.58	17.88	18.02	0	0
	1	50	17.70	18.10	17.93		0
	1	99	17.59	17.83	17.79		0
	50	0	18.06	18.17	18.01	0-1	0
	50	25	18.09	18.19	18.04		0
	50	50	18.01	18.05	17.92		0
	100	0	17.99	18.09	17.98		0
	16QAM	1	0	18.18	18.20	18.34	0-1
1		50	18.26	18.45	18.18	0	
1		99	18.23	18.11	18.11	0	
50		0	18.11	18.19	18.03	0-2	0
50		25	18.14	18.22	17.99		0
50		50	18.01	18.09	17.85		0
100		0	18.03	18.14	17.94		0
64QAM		1	0	18.14	18.21	18.25	0-2
	1	50	18.32	18.51	18.12	0	
	1	99	18.23	18.20	17.96	0	
	50	0	18.12	18.23	18.05	0-3	0
	50	25	18.13	18.29	18.03		0
	50	50	18.02	18.16	17.95		0
	100	0	18.04	18.15	17.98		0
	256QAM	1	0	18.07	18.18	17.95	0-5
1		50	18.06	18.19	17.96	0	
1		99	18.08	18.18	17.97	0	
50		0	18.05	18.20	17.93	0	
50		25	18.04	18.19	17.89	0	
50		50	18.06	18.18	17.91	0	
100		0	18.04	18.17	17.92	0	

Table 9-16

LTE Band 66 (AWS) Antenna B Measured P_{limit} for DSI = 1/2 (Phablet or UMPC Extremity with grip sensor active), or DSI = 5/6 (Hotspot Mode), and/or DSI = 7/8 (Earjack active) - 10 MHz Bandwidth

LTE Band 66 (AWS) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			132022 (1715.0 MHz)	132322 (1745.0 MHz)	132622 (1775.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	17.78	17.78	17.61	0	0
	1	25	17.94	18.12	17.65		0
	1	49	17.69	17.81	17.55		0
	25	0	18.08	18.12	17.92	0-1	0
	25	12	18.11	18.16	17.95		0
	25	25	17.99	18.05	17.84		0
	50	0	18.03	18.10	17.89		0
	16QAM	1	0	18.19	17.91	17.85	0-1
1		25	18.36	18.12	17.91	0	
1		49	18.17	17.85	17.65	0	
25		0	18.08	18.16	17.99	0-2	0
25		12	18.17	18.20	18.06		0
25		25	18.03	18.07	17.95		0
50		0	18.07	18.09	17.88		0
64QAM		1	0	17.94	18.22		17.85
	1	25	18.12	18.47	18.09	0	
	1	49	17.93	18.15	17.88	0	
	25	0	18.11	18.18	18.01	0-3	0
	25	12	18.20	18.25	18.03		0
	25	25	18.08	18.14	17.93		0
	50	0	18.02	18.13	17.90		0
	256QAM	1	0	17.95	18.22		17.87
1		25	17.97	18.21	17.90	0	
1		49	17.98	18.14	17.88	0	
25		0	17.99	18.29	17.86	0	
25		12	17.94	18.20	17.86	0	
25		25	17.96	18.23	17.89	0	
50		0	17.99	18.21	17.88	0	

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Table 9-17
LTE Band 66 (AWS) Antenna E Measured P_{Limit} for all DSI - 20 MHz Bandwidth

LTE Band 66 (AWS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			132072 (1720.0 MHz)	132322 (1745.0 MHz)	132572 (1770.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	19.93	19.43	19.51	0	0
	1	50	20.14	19.39	19.64		0
	1	99	19.81	19.16	19.58		0
	50	0	20.31	19.67	19.62	0-1	0
	50	25	20.33	19.61	19.77		0
	50	50	20.22	19.53	19.69		0
	100	0	20.12	19.60	19.72		0
	16QAM	1	0	20.34	19.72	20.06	0-1
1		50	20.50	19.73	19.83	0	
1		99	19.99	19.82	20.13	0	
50		0	20.31	19.64	19.61	0-2	0
50		25	20.39	19.66	19.78		0
50		50	20.20	19.55	19.71		0
100		0	20.22	19.67	19.67		0
64QAM		1	0	20.29	19.71	19.81	0-2
	1	50	20.50	19.74	19.89	0	
	1	99	20.02	19.66	20.00	0	
	50	0	20.38	19.71	19.66	0-3	0
	50	25	20.33	19.71	19.84		0
	50	50	20.25	19.62	19.77		0
	100	0	20.28	19.56	19.74		0
	256QAM	1	0	20.13	19.66	19.49	0-5
1		50	20.44	19.70	19.86	0	
1		99	20.07	19.45	19.62	0	
50		0	20.37	19.70	19.73	0	
50		25	20.28	19.69	19.89	0	
50		50	20.27	19.60	19.80	0	
100		0	20.23	19.64	19.83	0	

9.4.8

LTE Band 25

Table 9-18

**LTE Band 25 (PCS) Measured P_{Max} for DSI = 0/11 (Body-worn, or Phablet/UMPC with grip sensor inactive),
or DSI = 3/4 (Head) - 20 MHz Bandwidth**

LTE Band 25 (PCS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26140 (1860.0 MHz)	26365 (1882.5 MHz)	26590 (1905.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	24.07	24.00	24.14	0	0
	1	50	24.09	23.97	24.14		0
	1	99	24.19	24.14	24.30		0
	50	0	23.07	23.04	23.24	0-1	1
	50	25	23.20	23.10	23.28		1
	50	50	23.10	23.12	23.33		1
	100	0	23.11	23.07	23.10		1
16QAM	1	0	23.46	23.25	23.39	0-1	1
	1	50	23.26	23.30	23.50		1
	1	99	23.37	23.37	23.48		1
	50	0	22.08	22.20	22.25	0-2	2
	50	25	22.18	22.14	22.20		2
	50	50	22.10	22.17	22.32		2
	100	0	22.09	22.11	22.21		2
64QAM	1	0	22.15	22.15	22.35	0-2	2
	1	50	22.12	22.00	21.98		2
	1	99	22.01	21.97	21.87		2
	50	0	21.03	21.15	21.26	0-3	3
	50	25	21.23	20.99	21.00		3
	50	50	21.17	20.97	20.98		3
	100	0	21.10	21.00	20.90		3
256QAM	1	0	19.00	19.20	19.02	0-5	5
	1	50	18.95	19.19	19.20		5
	1	99	19.03	19.05	19.06		5
	50	0	19.10	19.02	19.11		5
	50	25	19.17	19.24	19.25		5
	50	50	19.10	19.23	19.20		5
	100	0	19.00	19.20	19.18		5

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Table 9-19

LTE Band 25 (PCS) Measured P_{limit} for DSI = 1/2 (Phablet or UMPC Extremity with grip sensor active), or DSI = 5/6 (Hotspot Mode), and/or DSI = 7/8 (Earjack active) - 20 MHz Bandwidth

LTE Band 25 (PCS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26140 (1860.0 MHz)	26365 (1882.5 MHz)	26590 (1905.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	17.91	17.84	17.89	0	0
	1	50	17.89	17.83	17.78		0
	1	99	17.85	17.91	17.92		0
	50	0	17.94	17.97	17.95	0-1	0
	50	25	17.91	17.98	17.91		0
	50	50	17.98	17.99	18.06		0
	100	0	17.86	17.88	17.83		0
	16QAM	1	0	18.17	18.20	18.11	0-1
1		50	18.20	18.22	18.24	0	
1		99	18.20	18.17	18.05	0	
50		0	17.97	17.86	17.94	0-2	0
50		25	18.03	17.92	17.86		0
50		50	18.03	17.98	18.10		0
100		0	17.95	17.89	17.84		0
64QAM		1	0	18.12	18.07	18.13	0-2
	1	50	18.16	18.14	18.16	0	
	1	99	18.14	18.20	18.17	0	
	50	0	18.00	17.90	17.97	0-3	0
	50	25	18.03	17.98	17.94		0
	50	50	18.02	18.07	17.94		0
	100	0	17.90	17.90	17.83		0
	256QAM	1	0	17.77	17.57	17.49	0-5
1		50	18.07	18.00	18.04	0	
1		99	17.78	17.90	17.85	0	
50		0	17.83	17.77	17.81	0	
50		25	18.02	17.97	17.78	0	
50		50	17.89	17.87	17.96	0	
100		0	17.93	17.87	17.82	0	

9.4.9

LTE Band 30

Table 9-20

LTE Band 30 Measured P_{Limit} for DSI = 0/11 (Body-worn, or Phablet/UMPC with grip sensor inactive), or DSI = 3/4 (Head) - 10 MHz Bandwidth

LTE Band 30 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			27710 (2310.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	21.22	0	0
	1	25	21.20		0
	1	49	21.26		0
	25	0	21.19	0-1	0
	25	12	21.36		0
	25	25	21.14		0
16QAM	50	0	21.25	0-1	0
	1	0	21.23		0
	1	25	21.21		0
	1	49	21.17	0-2	0
	25	0	20.26		1
	25	12	20.33		1
64QAM	25	25	20.16	0-2	1
	50	0	20.20		1
	1	0	20.57	0-2	1
	1	25	20.48		1
	1	49	20.48		1
	25	0	19.23	0-3	2
256QAM	25	12	19.41		2
	25	25	19.37		2
	50	0	19.27	0-5	2
	1	0	17.18		4
	1	25	17.37		4
	1	49	17.11		4
256QAM	25	0	17.30		4
	25	12	17.32		4
	25	25	17.12		4
	50	0	17.17		4

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Table 9-21

LTE Band 30 Measured P_{limit} for DSI = 1/2 (Phablet or UMPC Extremity with grip sensor active), or DSI = 5/6 (Hotspot Mode), and/or DSI = 7/8 (Earjack active) - 10 MHz Bandwidth

LTE Band 30 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			27710 (2310.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	16.41	0	0
	1	25	16.37		0
	1	49	16.63		0
	25	0	16.45	0-1	0
	25	12	16.57		0
	25	25	16.46		0
16QAM	50	0	16.43	0	0
	1	0	16.92		0
	1	25	16.91		0
	1	49	16.62	0-1	0
	25	0	16.47		0
	25	12	16.49		0
64QAM	25	25	16.57	0-2	0
	50	0	16.40		0
	1	0	16.80	0-2	0
	1	25	16.68		0
	1	49	16.68		0
	25	0	16.54	0-3	0
256QAM	25	12	16.66		0
	25	25	16.54		0
	50	0	16.54	0-5	0
	1	0	16.40		0
	1	25	16.71		0
	1	49	16.37		0
	25	0	16.51		0
	25	12	16.51		0
	25	25	16.58		0
	50	0	16.53		0
					0
					0

9.4.10

LTE Band 7

Table 9-22

LTE Band 7 Measured P_{Limit} for DSI = 0/11 (Body-worn, or Phablet/UMPC with grip sensor inactive), or DSI = 3/4 (Head) - 20 MHz Bandwidth

LTE Band 7 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20850 (2510.0 MHz)	21100 (2535.0 MHz)	21350 (2560.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	21.63	21.47	21.39	0	0
	1	50	21.54	21.42	21.32		0
	1	99	21.67	21.34	21.31		0
	50	0	21.64	21.49	21.43		0
	50	25	21.75	21.56	21.47		0
	50	50	21.60	21.34	21.38		0
	100	0	21.52	21.41	21.35		0
16QAM	1	0	21.86	21.64	21.61	0-1	0
	1	50	21.74	21.59	21.57		0
	1	99	21.76	21.50	21.38		0
	50	0	21.67	21.55	21.44		0
	50	25	21.71	21.63	21.49		0
	50	50	21.58	21.37	21.41		0
	100	0	21.49	21.48	21.40		0
64QAM	1	0	21.84	21.78	21.65	0-2	0
	1	50	21.86	21.68	21.65		0
	1	99	21.72	21.63	21.59		0
	50	0	21.18	21.07	20.93		0.5
	50	25	21.24	21.11	20.97		0.5
	50	50	21.16	20.94	20.91		0.5
	100	0	21.04	20.93	20.85		0.5
256QAM	1	0	19.06	19.04	18.93	0-5	2.5
	1	50	19.18	19.06	18.98		2.5
	1	99	18.94	18.87	18.67		2.5
	50	0	19.14	19.06	18.96		2.5
	50	25	19.21	19.10	18.94		2.5
	50	50	19.02	18.93	18.90		2.5
	100	0	19.13	18.92	18.88		2.5

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Table 9-23

LTE Band 7 Measured P_{limit} for DSI = 1/2 (Phablet or UMPC Extremity with grip sensor active), or DSI = 5/6 (Hotspot Mode), and/or DSI = 7/8 (Earjack active) - 20 MHz Bandwidth

LTE Band 7							
20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20850 (2510.0 MHz)	21100 (2535.0 MHz)	21350 (2560.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	17.21	17.07	17.01	0	0
	1	50	17.11	17.03	16.88		0
	1	99	17.10	17.10	16.95		0
	50	0	17.26	16.88	16.98	0-1	0
	50	25	17.29	17.18	16.99		0
	50	50	17.07	16.94	17.11		0
	100	0	17.20	17.08	17.05		0
	16QAM	1	0	17.55	17.44	17.33	0-1
1		50	17.36	17.32	17.11	0	
1		99	17.32	17.47	17.21	0	
50		0	17.16	17.33	16.92	0-2	0
50		25	17.25	17.16	16.87		0
50		50	17.05	16.92	16.97		0
100		0	17.02	17.02	16.94		0
64QAM		1	0	17.33	17.25	17.21	0-2
	1	50	17.34	16.94	17.13	0	
	1	99	17.23	17.17	17.13	0	
	50	0	17.25	17.15	17.02	0-3	0
	50	25	17.25	17.17	16.90		0
	50	50	17.09	16.90	16.94		0
	100	0	17.13	16.95	16.93		0
	256QAM	1	0	16.99	17.27	17.06	0-5
1		50	16.91	17.15	16.69	0	
1		99	17.17	16.95	16.96	0	
50		0	17.18	17.04	16.96	0	
50		25	17.22	17.18	16.79	0	
50		50	17.06	16.88	16.83	0	
100		0	17.09	16.99	16.87	0	

9.4.11

LTE Band 48

Table 9-24

LTE Band 48 Measured P_{Limit} for all DSI - 20 MHz Bandwidth

LTE Band 48 20 MHz Bandwidth								
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			55340 (3560.0 MHz)	55773 (3603.3 MHz)	56207 (3646.7 MHz)	56640 (3690.0 MHz)		
			Conducted Power [dBm]					
QPSK	1	0	20.02	19.97	20.07	20.04	0	0
	1	50	20.07	20.05	20.05	20.04		0
	1	99	20.01	20.04	20.10	20.00		0
	50	0	19.97	20.02	19.99	19.98	0-1	0
	50	25	20.13	20.10	20.20	20.04		0
	50	50	20.05	20.05	20.10	19.98		0
16QAM	100	0	20.04	20.06	20.05	19.96		0
	1	0	20.08	20.23	20.28	20.21	0-1	0
	1	50	20.10	20.22	20.25	20.15		0
	1	99	20.05	20.21	20.30	20.13		0
	50	0	19.95	20.01	20.01	19.99	0-2	0
	50	25	20.12	20.17	20.14	20.03		0
	50	50	20.03	20.02	20.12	19.97		0
	100	0	20.06	20.08	20.07	19.93		0
64QAM	1	0	19.96	19.52	20.31	20.23	0-2	0
	1	50	19.99	19.58	20.34	20.24		0
	1	99	19.97	19.65	20.39	20.02		0
	50	0	20.03	20.01	20.05	20.00	0-3	0
	50	25	20.21	20.15	20.15	20.04		0
	50	50	20.09	20.00	20.14	19.99		0
	100	0	20.10	20.08	20.03	19.96		0
	256QAM	1	0	19.37	18.82	18.90	18.90	0-5
1		50	19.55	18.92	19.28	19.16	0.5	
1		99	19.41	18.74	18.97	18.83	0.5	
50		0	19.03	19.03	19.02	18.95	0.5	
50		25	19.22	19.15	19.15	19.04	0.5	
50		50	19.11	19.05	19.11	18.98	0.5	
100		0	19.06	19.08	19.03	18.90	0.5	

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9.4.12

LTE Band 41

Table 9-25

LTE Band 41 PC3 Measured P_{Limit} for DSI = 0/11 (Body-worn, or Phablet/UMPC with grip sensor inactive), or DSI = 3/4 (Head) - 20 MHz Bandwidth

LTE Band 41 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	21.95	21.91	21.65	21.51	21.88	0	0
	1	50	21.89	21.84	21.74	21.83	22.31		0
	1	99	21.84	21.88	21.59	21.66	22.28		0
	50	0	21.90	21.80	21.78	21.82	22.19	0-1	0
	50	25	21.99	21.94	21.96	21.96	22.38		0
	50	50	22.08	21.82	21.86	21.91	22.45		0
	100	0	22.06	21.94	21.82	21.91	22.28		0
16QAM	1	0	21.95	22.06	21.65	21.63	22.07	0-1	0
	1	50	21.89	22.04	21.80	21.85	22.49		0
	1	99	21.83	22.04	21.50	21.62	22.43		0
	50	0	21.95	21.87	21.75	21.79	22.23	0-2	0
	50	25	22.11	22.01	21.90	21.90	22.42		0
	50	50	22.07	21.89	21.82	21.87	22.49		0
	100	0	22.08	21.88	21.83	21.89	22.32		0
64QAM	1	0	22.06	21.82	21.78	21.72	22.30	0-2	0
	1	50	22.13	21.87	21.78	21.93	22.30		0
	1	99	22.12	21.86	21.68	21.64	22.22		0
	50	0	20.99	20.88	20.73	20.93	21.50	0-3	1
	50	25	21.17	21.03	20.95	20.94	21.41		1
	50	50	21.11	20.92	20.88	20.92	21.48		1
	100	0	21.08	20.96	20.85	20.88	21.35		1
256QAM	1	0	18.81	18.88	18.80	18.80	19.20	0-5	3
	1	50	19.07	19.12	18.91	18.94	19.55		3
	1	99	18.82	18.72	18.55	18.75	19.49		3
	50	0	18.95	18.93	18.91	18.84	19.25		3
	50	25	19.12	19.06	18.95	18.97	19.42		3
	50	50	19.04	18.92	18.89	18.92	19.50		3
	100	0	19.02	18.95	18.87	18.92	19.33		3

Table 9-26

LTE Band 41 PC3 Measured P_{limit} for DSI = 1/2 (Phablet or UMPC Extremity with grip sensor active), or DSI = 5/6 (Hotspot Mode), and/or DSI = 7/8 (Earjack active) - 20 MHz Bandwidth

LTE Band 41 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	18.07	17.96	17.45	17.55	17.90	0	0
	1	50	18.11	17.98	17.83	17.85	18.42		0
	1	99	18.00	17.91	17.81	17.73	18.31		0
	50	0	17.98	17.87	17.75	17.87	18.25	0-1	0
	50	25	18.16	18.04	17.97	18.02	18.45		0
	50	50	18.09	17.93	17.87	17.95	18.51		0
16QAM	100	0	18.06	17.94	17.84	17.92	18.33	0-1	0
	1	0	18.50	18.23	17.76	17.91	18.43		0
	1	50	18.52	18.25	18.17	18.22	18.46		0
	1	99	18.41	18.18	17.79	17.93	18.82	0-2	0
	50	0	17.95	17.86	17.75	17.89	18.27		0
	50	25	18.16	18.06	17.96	18.02	18.48		0
64QAM	50	50	18.03	17.91	17.88	17.95	18.53	0-2	0
	100	0	18.00	17.93	17.86	17.90	18.43		0
	1	0	18.16	18.05	17.56	17.73	18.30		0-2
	1	50	18.20	18.13	18.00	18.11	18.40	0	
	1	99	18.10	18.07	17.67	17.77	18.74	0	
	50	0	17.96	17.92	17.78	17.89	18.36	0-3	0
50	25	18.18	18.08	17.99	18.06	18.56	0		
50	50	18.08	17.92	17.91	18.00	18.58	0		
256QAM	100	0	18.13	17.97	17.92	17.96	18.41	0-5	0
	1	0	17.69	18.10	17.51	17.71	18.62		0
	1	50	18.11	18.07	18.00	18.06	18.84		0
	1	99	17.78	18.10	17.58	17.72	18.78		0
	50	0	18.04	17.91	17.80	17.93	18.37		0
	50	25	18.20	18.09	18.01	18.08	18.56		0
50	50	18.14	17.91	17.91	18.01	18.65	0		
100	0	18.09	17.93	17.86	17.96	18.38	0		

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Table 9-27

LTE Band 41 PC2 Measured P_{limit} for DSI = 0/11 (Body-worn, or Phablet/UMPC with grip sensor inactive), or DSI = 3/4 (Head) - 20 MHz Bandwidth

LTE Band 41 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	23.97	23.87	23.92	23.81	24.00	0	0
	1	50	24.07	24.02	23.86	23.93	24.26		0
	1	99	23.99	23.96	23.47	23.68	24.05		0
	50	0	23.99	23.85	23.73	23.81	24.02	0-1	0
	50	25	24.16	24.04	23.94	23.98	24.21		0
	50	50	24.07	23.85	23.85	23.89	24.28		0
	100	0	24.04	23.90	23.84	23.85	24.16		0

Table 9-28

LTE Band 41 PC2 Measured P_{limit} for DSI = 1/2 (Phablet or UMPC Extremity with grip sensor active), or DSI = 5/6 (Hotspot Mode), and/or DSI = 7/8 (Earjack active) - 20 MHz Bandwidth

LTE Band 41 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	19.72	19.84	19.38	19.48	19.57	0	0
	1	50	19.75	19.86	19.75	19.74	20.12		0
	1	99	19.68	19.79	19.37	19.46	19.99		0
	50	0	19.76	19.66	19.61	19.70	20.07	0-1	0
	50	25	19.92	19.87	19.81	19.85	20.23		0
	50	50	19.85	19.69	19.71	19.78	20.31		0
	100	0	19.81	19.70	19.70	19.74	20.12		0

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9.4.13 LTE Uplink Carrier Aggregation Conducted Powers

Table 9-29
LTE Uplink Carrier Aggregation Measured P_{max}

Combination	PCC									SCC									Power	
	PCC Band	PCC Bandwidth [MHz]	PCC UL Channel	PCC UL Frequency [MHz]	PCC DL Channel	PCC DL Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC UL Channel	SCC UL Frequency [MHz]	SCC DL Channel	SCC DL Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_5B	LTE B5	10	20525	836.5	2525	881.5	QPSK	1	0	LTE B5	5	20453	829.3	2453	874.3	QPSK	1	24	23.90	24.09

Combination	PCC									SCC									Power	
	PCC Band	PCC Bandwidth [MHz]	PCC (UL) Channel	PCC (UL) Frequency [MHz]	PCC DL Channel	PCC DL Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL) Channel	SCC (UL) Frequency [MHz]	SCC (DL) Channel	SCC (DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_66C	LTE B66	20	132322	1745.0	66786	2145.0	QPSK	1	99	LTE B66	20	132520	1764.8	66984	2164.8	QPSK	1	0	24.53	24.09
CA_66C	LTE B66	20	132572	1770.0	67036	2170.0	QPSK	1	0	LTE B66	20	132374	1750.2	66838	2150.2	QPSK	1	99	24.29	24.16
CA_66B	LTE B66	10	132322	1745.0	66786	2145.0	QPSK	1	49	LTE B66	10	132421	1754.9	66885	2154.9	QPSK	1	0	24.54	24.04
CA_66B	LTE B66	10	132622	1775.0	67086	2175.0	QPSK	1	0	LTE B66	10	132523	1765.1	66987	2165.1	QPSK	1	49	24.37	23.79

Table 9-30

LTE Uplink Carrier Aggregation Measured P_{limit} for DSI = 0/11 (Body-worn, or Phablet/UMPC with grip sensor not triggered), or DSI = 1/2 (Phablet or UMPC Extremity with grip sensor active), or DSI = 3/4 (Head), or DSI = 5/6 (Hotspot mode), and/or DSI = 7/8 (Earjack active)

	PCC							SCC							Power	
Combination	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_48C	LTE B48	20	56207	3646.7	QPSK	1	99	LTE B48	20	56405	3666.5	QPSK	1	0	20.07	20.10
CA_48C	LTE B48	20	56640	3690.0	QPSK	50	0	LTE B48	20	56442	3670.2	QPSK	50	50	20.06	19.98

Table 9-31

LTE Uplink Carrier Aggregation Measured P_{limit} for DSI = 0/11 (Body-worn, or Phablet/UMPC with grip sensor inactive), or DSI = 3/4 (Head) - 20 MHz Bandwidth

	PCC							SCC							Power	
Combination	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_41C	LTE B41	20	41490	2680.0	QPSK	1	0	LTE B41	20	41292	2660.2	QPSK	1	99	22.17	21.88

	PCC							SCC							Power	
Combination	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_41C	LTE B41 PC2	20	41490	2680.0	QPSK	1	0	LTE B41 PC2	20	41292	2660.2	QPSK	1	99	24.16	24.00

Table 9-32

LTE Uplink Carrier Aggregation Measured P_{limit} for DSI = 1/2 (Phablet or UMPC Extremity with grip sensor active), or DSI = 5/6 (Hotspot Mode), and/or DSI = 7/8 (Earjack active)

	PCC									SCC									Power		
Combination	PCC Band	PCC Bandwidth [MHz]	PCC (UL) Channel	PCC (UL) Frequency [MHz]	PCC DL Channel	PCC DL Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL) Channel	SCC (UL) Frequency [MHz]	SCC (DL) Channel	SCC (DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)	
CA_66C	LTE B66	20	132572	1770.0	67036	2170.0	QPSK	50	0	LTE B66	20	132374	1750.2	66838	2150.2	QPSK	50	50	18.03	18.01	
CA_66B	LTE B66	10	132622	1775.0	67086	2175.0	QPSK	25	0	LTE B66	10	132523	1765.1	66987	2165.1	QPSK	25	25	17.97	17.92	

	PCC									SCC									Power		
Combination	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)					
CA_41C	LTE B41	20	41490	2680.0	QPSK	1	0	LTE B41	20	41292	2660.2	QPSK	1	99	18.17	17.90					
CA_41C	LTE B41	20	39750	2506.0	QPSK	50	50	LTE B41	20	39948	2525.8	QPSK	50	0	18.00	18.09					

	PCC									SCC									Power		
Combination	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)					
CA_41C	LTE B41 PC2	20	41490	2680.0	QPSK	1	0	LTE B41 PC2	20	41292	2660.2	QPSK	1	99	20.10	19.57					
CA_41C	LTE B41 PC2	20	39750	2506.0	QPSK	50	50	LTE B41 PC2	20	39948	2525.8	QPSK	50	0	19.92	19.85					

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Notes:

1. This device supports uplink carrier aggregation for LTE CA_5B, LTE CA_66B, LTE CA_66C, LTE CA_48C, and LTE CA_41C with a maximum of two component carriers. For intraband contiguous carrier aggregation scenarios, 3GPP 36.101 Table 6.2.2A-1 specifies that the aggregate maximum allowed output power is equivalent to the single carrier scenario. 3GPP 36.101 6.2.3A allows for several dB of MPR to be applied when non-contiguous RB allocation is implemented. The conducted powers and MPR settings in this device are permanently implemented per the above 3GPP requirements.
2. Note that only LTE B66 Antenna B supports uplink carrier aggregation for LTE CA_66B and LTE CA_66C. LTE B66 Antenna E does not support uplink carrier aggregation.
3. Per FCC Guidance, the output power with uplink CA active was measured for the configuration with the highest reported SAR with single carrier for each exposure condition. The power was measured with wideband signal integration over both component carriers.



Figure 9-4
Power Measurement Setup

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9.5 NR Conducted Powers

Note: Per October 2020 TCB Workshop Guidance, NR FR1 SAR evaluations are being generally based on adapting the existing LTE SAR procedures (FCC KDB Publication 941225 D05v02r05). Therefore, NR SAR for the lower bandwidths was not required for testing based on the measured output power and the reported NR SAR for the highest bandwidth. Lower bandwidth conducted powers for all NR bands can be found in appendix H.

9.5.1 NR Band n71

Table 9-33
NR Band n71 Measured $P_{\max}$ for all DSI - 20 MHz Bandwidth

NR Band n71 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			136100 (680.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	24.40	0	0.0
	1	53	24.33		0.0
	1	104	24.32		0.0
	50	0	23.82	0-0.5	0.5
	50	28	24.31	0	0.0
	50	56	23.66	0-0.5	0.5
	100	0	23.82		0.5
DFT-s-OFDM QPSK	1	1	24.48	0	0.0
	1	53	24.28		0.0
	1	104	24.21		0.0
	50	0	23.32	0-1	1.0
	50	28	24.34	0	0.0
	50	56	23.11	0-1	1.0
	100	0	23.30		1.0
DFT-s-OFDM 16QAM	1	1	23.17	0-1	1.0
CP-OFDM QPSK	1	1	22.90	0-1.5	1.5

Note: NR Band n71 at 20 MHz bandwidth does 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.

9.5.1 NR Band n12

Table 9-34
NR Band n12 Measured $P_{\max}$ for all DSI - 15 MHz Bandwidth

NR Band n12 15 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			141500 (707.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	23.71	0	0.0
	1	40	23.95		0.0
	1	77	23.71		0.0
	36	0	23.29	0-0.5	0.5
	36	22	23.87	0	0.0
	36	43	23.37	0-0.5	0.5
	75	0	23.38		0.5
DFT-s-OFDM QPSK	1	1	23.92	0	0.0
	1	40	24.02		0.0
	1	77	23.98		0.0
	36	0	22.82	0-1	1.0
	36	22	23.90	0	0.0
	36	43	22.86	0-1	1.0
	75	0	22.94		1.0
DFT-s-OFDM 16QAM	1	1	22.59	0-1	1.0
CP-OFDM QPSK	1	1	22.18	0-1.5	1.5

Note: NR Band n12 at 15 MHz bandwidth does 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.

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9.5.2

NR Band n5

Table 9-35
NR Band n5 Measured P_{max} for all DSI - 20 MHz Bandwidth

NR Band n5 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			167300 (836.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	25.07	0	0.0
	1	53	25.12		0.0
	1	104	24.92		0.0
	50	0	24.59	0-0.5	0.5
	50	28	25.18	0	0.0
	50	56	24.56	0-0.5	0.5
	100	0	24.63		0.5
DFT-s-OFDM QPSK	1	1	25.23	0	0.0
	1	53	25.39		0.0
	1	104	25.20		0.0
	50	0	24.12	0-1	1.0
	50	28	25.15	0	0.0
	50	56	24.11	0-1	1.0
	100	0	24.08		1.0
DFT-s-OFDM 16QAM	1	1	23.87	0-1	1.0
CP-OFDM QPSK	1	1	23.23	0-1.5	1.5

Note: NR Band n5 (Cell) at 20 MHz bandwidth does 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.

9.5.3

NR Band n66

Table 9-36
NR Band n66 Antenna B Measured P_{max} DSI = 0/11 (Body-worn, or Phablet/UMPC with grip sensor not triggered), or DSI = 3/4 (Head) - 40 MHz Bandwidth

NR Band n66 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			349000 (1745 MHz) Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	23.55	0	0.0
	1	108	23.59		0.0
	1	214	23.62		0.0
	108	0	23.07	0-0.5	0.5
	108	54	22.82	0	0.0
	108	108	22.95	0-0.5	0.5
	216	0	23.11		0.5
DFT-s-OFDM QPSK	1	1	23.51	0	0.0
	1	108	23.54		0.0
	1	214	23.53		0.0
	108	0	22.62	0-1	1.0
	108	54	23.08	0	0.0
	108	108	22.65	0-1	1.0
	216	0	22.69		1.0
DFT-s-OFDM 16QAM	1	1	22.57	0-1	1.0
CP-OFDM QPSK	1	1	22.24	0-1.5	1.5

Note: NR Band n66 at 40 MHz bandwidth does 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.

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Table 9-37

NR Band n66 Antenna B Measured P_{limit} for DSI = 1/2 (Phablet or UMPC Extremity with grip sensor active), or DSI = 5/6 (Hotspot Mode), and/or DSI = 7/8 (Earjack active) - 40 MHz Bandwidth

NR Band n66 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			349000 (1745 MHz) Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	18.09	0	0.0
	1	108	18.11		0.0
	1	214	18.03		0.0
	108	0	18.16	0-0.5	0.0
	108	54	18.07	0	0.0
	108	108	18.01	0-0.5	0.0
	216	0	18.01		0.0
DFT-s-OFDM QPSK	1	1	18.06	0	0.0
	1	108	17.95		0.0
	1	214	17.96		0.0
	108	0	18.00	0-1	0.0
	108	54	18.03	0	0.0
	108	108	18.14	0-1	0.0
	216	0	18.04		0.0
DFT-s-OFDM 16QAM	1	1	18.31	0-1	0.0
CP-OFDM QPSK	1	1	18.05	0-1.5	0.0

Note: NR Band n66 at 40 MHz bandwidth does 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.

Table 9-38

NR Band n66 Antenna E Measured P_{limit} for all DSI - 40 MHz Bandwidth

NR Band n66 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			349000 (1745 MHz) Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	19.47	0	0.0
	1	108	19.37		0.0
	1	214	19.31		0.0
	108	0	19.42	0-0.5	0.0
	108	54	19.34	0	0.0
	108	108	19.39	0-0.5	0.0
	216	0	19.45		0.0
DFT-s-OFDM QPSK	1	1	19.42	0	0.0
	1	108	19.43		0.0
	1	214	19.34		0.0
	108	0	19.42	0-1	0.0
	108	54	19.40	0	0.0
	108	108	19.37	0-1	0.0
	216	0	19.39		0.0
DFT-s-OFDM 16QAM	1	1	19.77	0-1	0.0
CP-OFDM QPSK	1	1	19.58	0-1.5	0.0

Note: NR Band n66 at 40 MHz bandwidth does 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.

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9.5.4

NR Band n25

Table 9-39

NR Band n25 Antenna B Measured P_{max} DSI = 0/11 (Body-worn, or Phablet/UMPC with grip sensor not triggered), or DSI = 3/4 (Head) - 40 MHz Bandwidth

NR Band n25 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			376500 (1882.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	24.00	0	0.0
	1	108	23.71		0.0
	1	214	24.00		0.0
	108	0	23.32	0-0.5	0.5
	108	54	23.69	0	0.0
	108	108	23.28	0-0.5	0.5
	216	0	23.25		0.5
DFT-s-OFDM QPSK	1	1	24.00	0	0.0
	1	108	23.61		0.0
	1	214	23.85		0.0
	108	0	22.83	0-1	1.0
	108	54	23.78	0	0.0
	108	108	22.76	0-1	1.0
	216	0	22.73		1.0
DFT-s-OFDM 16QAM	1	1	22.99	0-1	1.0
CP-OFDM QPSK	1	1	22.38	0-1.5	1.5

Note: NR Band n25 at 40 MHz bandwidth does 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.

Table 9-40

NR Band n25 Antenna B Measured P_{limit} for DSI = 1/2 (Phablet or UMPC Extremity with grip sensor active), or DSI = 5/6 (Hotspot Mode), and/or DSI = 7/8 (Earjack active) - 40 MHz Bandwidth

NR Band n25 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			376500 (1882.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	18.34	0	0.0
	1	108	17.79		0.0
	1	214	18.04		0.0
	108	0	17.91	0-0.5	0.0
	108	54	17.71	0	0.0
	108	108	17.85	0-0.5	0.0
	216	0	17.77		0.0
DFT-s-OFDM QPSK	1	1	18.00	0	0.0
	1	108	17.71		0.0
	1	214	17.94		0.0
	108	0	17.87	0-1	0.0
	108	54	17.75	0	0.0
	108	108	17.89	0-1	0.0
	216	0	17.88		0.0
DFT-s-OFDM 16QAM	1	1	17.84	0-1	0.0
CP-OFDM QPSK	1	1	17.93	0-1.5	0.0

Note: NR Band n25 at 40 MHz bandwidth does 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.

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Table 9-41
NR Band n25 Antenna E Measured P_{limit} for all DSI - 40 MHz Bandwidth

NR Band n25 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			376500 (1882.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	19.80	0	0.0
	1	108	19.70		0.0
	1	214	19.98		0.0
	108	0	19.73	0-0.5	0.0
	108	54	19.66	0	0.0
	108	108	19.78	0-0.5	0.0
	216	0	19.72		0.0
DFT-s-OFDM QPSK	1	1	19.75	0	0.0
	1	108	19.68		0.0
	1	214	19.97		0.0
	108	0	19.77	0-1	0.0
	108	54	19.69	0	0.0
	108	108	19.88	0-1	0.0
	216	0	19.74		0.0
DFT-s-OFDM 16QAM	1	1	19.99	0-1	0.0
CP-OFDM QPSK	1	1	19.76	0-1.5	0.0

Note: NR Band n25 at 40 MHz bandwidth does 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.

9.5.1 NR Band n30

Table 9-42
NR Band n30 Measured P_{limit} for DSI = 0/11 (Body-worn, or Phablet/UMPC with grip sensor not triggered), or DSI = 3/4 (Head) - 10 MHz Bandwidth

NR Band n30 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			462000 (2310 MHz) Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	20.73	0	0.0
	1	26	20.96		0.0
	1	50	20.91		0.0
	25	0	21.04	0-0.5	0.0
	25	14	20.90	0	0.0
	25	27	20.94	0-0.5	0.0
	50	0	20.90		0.0
DFT-s-OFDM QPSK	1	1	20.89	0	0.0
	1	26	21.05		0.0
	1	50	21.02		0.0
	25	0	20.92	0-1	0.0
	25	14	20.89	0	0.0
	25	27	20.94	0-1	0.0
	50	0	20.85		0.0
DFT-s-OFDM 16QAM	1	1	20.80	0-1	0.0
CP-OFDM QPSK	1	1	20.85	0-1.5	0.0

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Table 9-43

NR Band n30 Measured P_{limit} for DSI = 1/2 (Phablet or UMPC Extremity with grip sensor active), or DSI = 5/6 (Hotspot Mode), and/or DSI = 7/8 (Earjack active) - 10 MHz Bandwidth

NR Band n30 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			462000 (2310 MHz) Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	16.87	0	0.0
	1	26	17.00		0.0
	1	50	16.93		0.0
	25	0	16.93	0-0.5	0.0
	25	14	16.94	0	0.0
	25	27	16.93	0-0.5	0.0
	50	0	16.97		0.0
DFT-s-OFDM QPSK	1	1	16.77	0	0.0
	1	26	16.88		0.0
	1	50	16.84		0.0
	25	0	16.86	0-1	0.0
	25	14	16.82	0	0.0
	25	27	16.83	0-1	0.0
	50	0	16.85		0.0
DFT-s-OFDM 16QAM	1	1	16.70	0-1	0.0
CP-OFDM QPSK	1	1	17.00	0-1.5	0.0

9.5.2

NR Band n41

Table 9-44

NR Band n41 Measured P_{limit} for all DSI - 100 MHz Bandwidth

NR Band n41 100 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			518598 (2592.99 MHz) Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	17.71	0	0.0
	1	137	17.74		0.0
	1	271	17.42		0.0
	135	0	17.83	0-0.5	0.0
	135	69	17.71	0	0.0
	135	138	17.65	0-0.5	0.0
	270	0	17.78		0.0
DFT-s-OFDM QPSK	1	1	17.58	0	0.0
	1	137	17.72		0.0
	1	271	17.37		0.0
	135	0	17.81	0-1	0.0
	135	69	17.73	0	0.0
	135	138	17.65	0-1	0.0
	270	0	17.71		0.0
DFT-s-OFDM 16QAM	1	1	17.97	0-1	0.0
CP-OFDM QPSK	1	1	17.76	0-1.5	0.0

Note: NR Band n41 at 100 MHz bandwidth does 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.

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9.5.1

NR Band n77

Table 9-45

NR Band n77 Antenna E DoD Measured P_{limit} for all DSI - 100 MHz Bandwidth

NR Band n77 100 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			633334 (3500.01 MHz) Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	18.80	0	0.0
	1	137	18.90		0.0
	1	271	18.77		0.0
	135	0	18.79	0-0.5	0.0
	135	69	18.91	0	0.0
	135	138	18.76	0-0.5	0.0
	270	0	18.94		0.0
DFT-s-OFDM QPSK	1	1	18.77	0	0.0
	1	137	18.96		0.0
	1	271	18.94		0.0
	135	0	18.81	0-1	0.0
	135	69	18.97	0	0.0
	135	138	18.81	0-1	0.0
	270	0	18.92		0.0
DFT-s-OFDM 16QAM	1	1	18.74	0-1	0.0
CP-OFDM QPSK	1	1	18.81	0-1.5	0.0

Table 9-46

NR Band n77 Antenna E Measured P_{limit} for all DSI - 100 MHz Bandwidth

NR Band n77 100 MHz Bandwidth						
			Channel		MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	650000 (3750 MHz)	662000 (3930 MHz)		
			Conducted	Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	17.53	17.91	0	0.0
	1	137	17.91	18.08		0.0
	1	271	17.81	17.88		0.0
	135	0	17.65	18.04	0-0.5	0.0
	135	69	17.85	18.08	0	0.0
	135	138	17.87	17.96	0-0.5	0.0
	270	0	17.91	18.06		0.0
DFT-s-OFDM QPSK	1	1	17.47	17.87	0	0.0
	1	137	18.02	18.16		0.0
	1	271	17.93	17.88		0.0
	135	0	17.83	18.15	0-1	0.0
	135	69	18.04	18.22	0	0.0
	135	138	18.03	18.11	0-1	0.0
	270	0	18.02	18.15		0.0
DFT-s-OFDM 16QAM	1	1	17.53	18.09	0-1	0.0
CP-OFDM QPSK	1	1	17.65	18.28	0-1.5	0.0

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Table 9-47
NR Band n77 Antenna G DoD Measured P_{limit} for all DSI - 100 MHz Bandwidth

NR Band n77 100 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			633334 (3500.01 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	18.50	0	0.0
	1	137	18.41		0.0
	1	271	18.11		0.0
	135	0	18.51	0-0.5	0.0
	135	69	18.46	0	0.0
	135	138	18.27	0-0.5	0.0
	270	0	18.49		0.0
DFT-s-OFDM QPSK	1	1	18.78	0	0.0
	1	137	18.49		0.0
	1	271	18.29		0.0
	135	0	18.64	0-1	0.0
	135	69	18.54	0	0.0
	135	138	18.34	0-1	0.0
	270	0	18.51		0.0
DFT-s-OFDM 16QAM	1	1	18.93	0-1	0.0
CP-OFDM QPSK	1	1	18.81	0-1.5	0.0

Table 9-48
NR Band n77 Antenna G Measured P_{limit} for all DSI - 100 MHz Bandwidth

NR Band n77 100 MHz Bandwidth						
			Channel		MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	650000 (3750 MHz)	662000 (3930 MHz)		
			Conducted Power [dBm]			
DFT-s-OFDM $\pi/2$ BPSK	1	1	16.58	17.91	0	0.0
	1	137	17.20	18.29		0.0
	1	271	17.36	18.23		0.0
	135	0	16.69	18.06	0-0.5	0.0
	135	69	17.04	18.28	0	0.0
	135	138	17.19	18.29	0-0.5	0.0
	270	0	16.99	18.24		0.0
DFT-s-OFDM QPSK	1	1	16.59	18.05	0	0.0
	1	137	17.21	18.28		0.0
	1	271	17.39	18.29		0.0
	135	0	16.74	18.17	0-1	0.0
	135	69	17.13	18.34	0	0.0
	135	138	17.24	18.30	0-1	0.0
	270	0	17.07	18.26		0.0
DFT-s-OFDM 16QAM	1	1	16.82	18.29	0-1	0.0
CP-OFDM QPSK	1	1	16.58	18.02	0-1.5	0.0

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Table 9-49
NR Band n77 Antenna F DoD Measured P_{limit} for all DSI - 100 MHz Bandwidth

NR Band n77 100 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			633334 (3500.01 MHz) Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	16.54	0	0.0
	1	137	16.60		0.0
	1	271	16.54		0.0
	135	0	16.68	0-0.5	0.0
	135	69	16.69	0	0.0
	135	138	16.54	0-0.5	0.0
	270	0	16.64		0.0
DFT-s-OFDM QPSK	1	1	16.57	0	0.0
	1	137	16.67		0.0
	1	271	16.53		0.0
	135	0	16.65	0-1	0.0
	135	69	16.69	0	0.0
	135	138	16.57	0-1	0.0
	270	0	16.62		0.0
DFT-s-OFDM 16QAM	1	1	16.51	0-1	0.0
CP-OFDM QPSK	1	1	16.48	0-1.5	0.0

Table 9-50
NR Band n77 Antenna F Measured P_{limit} for all DSI - 100 MHz Bandwidth

NR Band n77 100 MHz Bandwidth						
			Channel		MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	650000 (3750 MHz)	662000 (3930 MHz)		
			Conducted Power [dBm]			
DFT-s-OFDM $\pi/2$ BPSK	1	1	14.95	15.31	0	0.0
	1	137	15.34	15.73		0.0
	1	271	15.27	15.77		0.0
	135	0	15.13	15.58	0-0.5	0.0
	135	69	15.33	15.83	0	0.0
	135	138	15.38	15.85	0-0.5	0.0
	270	0	15.24	15.81		0.0
DFT-s-OFDM QPSK	1	1	14.94	15.36	0	0.0
	1	137	15.34	15.89		0.0
	1	271	15.19	15.79		0.0
	135	0	15.07	15.62	0-1	0.0
	135	69	15.33	15.95	0	0.0
	135	138	15.41	15.86	0-1	0.0
	270	0	15.32	15.84		0.0
DFT-s-OFDM 16QAM	1	1	14.91	15.60	0-1	0.0
CP-OFDM QPSK	1	1	14.89	15.47	0-1.5	0.0

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Table 9-51
NR Band n77 Antenna B DoD Measured P_{limit} for all DSI - 100 MHz Bandwidth

NR Band n77 100 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			633334 (3500.01 MHz) Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	15.09	0	0.0
	1	137	15.14		0.0
	1	271	14.95		0.0
	135	0	15.18	0-0.5	0.0
	135	69	15.19	0	0.0
	135	138	15.01	0-0.5	0.0
	270	0	15.14		0.0
DFT-s-OFDM QPSK	1	1	15.26	0	0.0
	1	137	15.25		0.0
	1	271	15.15		0.0
	135	0	15.13	0-1	0.0
	135	69	15.29	0	0.0
	135	138	15.18	0-1	0.0
	270	0	15.24		0.0
DFT-s-OFDM 16QAM	1	1	15.57	0-1	0.0
CP-OFDM QPSK	1	1	15.23	0-1.5	0.0

Table 9-52
NR Band n77 Antenna B Measured P_{limit} for all DSI - 100 MHz Bandwidth

NR Band n77 100 MHz Bandwidth						
			Channel		MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	650000 (3750 MHz)	662000 (3930 MHz)		
			Conducted Power [dBm]			
DFT-s-OFDM $\pi/2$ BPSK	1	1	13.92	14.43	0	0.0
	1	137	14.15	14.93		0.0
	1	271	14.08	14.80		0.0
	135	0	13.92	14.61	0-0.5	0.0
	135	69	14.12	14.90	0	0.0
	135	138	14.08	14.91	0-0.5	0.0
	270	0	13.98	14.88		0.0
DFT-s-OFDM QPSK	1	1	13.82	14.51	0	0.0
	1	137	14.08	14.99		0.0
	1	271	13.96	14.84		0.0
	135	0	13.91	14.70	0-1	0.0
	135	69	14.04	14.95	0	0.0
	135	138	14.03	14.92	0-1	0.0
	270	0	13.99	14.84		0.0
DFT-s-OFDM 16QAM	1	1	14.02	14.83	0-1	0.0
CP-OFDM QPSK	1	1	13.82	14.27	0-1.5	0.0

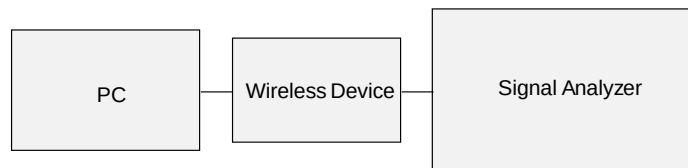


Figure 9-5
Power Measurement Setup

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9.6 WLAN Conducted Powers

Table 9-53
2.4 GHz WLAN Maximum Average RF Power – Ant 1

2.4GHz Conducted Power [dBm]					
Freq [MHz]	Channel	IEEE Transmission Mode			
		802.11b	802.11g	802.11n	802.11ax
		Average	Average	Average	Average
2412	1	18.55	17.66	17.97	17.56
2437	6	18.63	17.84	17.74	17.76
2457	10	N/A	N/A	17.71	17.68
2462	11	18.67	17.90	16.17	16.22

Table 9-54
2.4 GHz WLAN Maximum Average RF Power – Ant 2

2.4GHz Conducted Power [dBm]					
Freq [MHz]	Channel	IEEE Transmission Mode			
		802.11b	802.11g	802.11n	802.11ax
		Average	Average	Average	Average
2412	1	18.47	17.48	17.82	17.64
2437	6	18.51	17.62	17.98	17.84
2457	10	N/A	N/A	17.99	17.96
2462	11	18.70	17.62	16.47	16.41

Table 9-55
2.4 GHz WLAN Maximum Average RF Power – MIMO

2.4GHz 802.11b Conducted Power [dBm]				
Freq [MHz]	Channel	ANT1	ANT2	MIMO
2412	1	18.55	18.47	21.52
2437	6	18.63	18.51	21.58
2462	11	18.67	18.70	21.70

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Table 9-56
5 GHz WLAN Maximum Average RF Power – Ant 1

5GHz (20MHz) Conducted Power [dBm]					
Freq [MHz]	Channel	IEEE Transmission Mode			
		802.11a	802.11n	802.11ac	802.11ax
		Average	Average	Average	Average
5180	36	17.49	17.66	17.65	17.87
5200	40	17.84	17.65	17.64	17.88
5220	44	17.63	17.85	17.94	17.81
5240	48	17.64	17.85	17.90	17.75
5260	52	17.70	17.88	17.98	17.79
5280	56	17.69	17.89	17.94	17.78
5300	60	17.62	17.83	17.80	17.73
5320	64	17.99	17.87	17.82	17.69
5500	100	17.93	17.73	17.82	17.95
5600	120	17.89	17.77	17.78	17.99
5620	124	17.95	17.69	17.66	17.98
5720	144	17.96	17.75	17.75	17.93
5745	149	17.76	17.72	17.71	17.93
5785	157	17.94	17.82	17.85	17.99
5825	165	17.85	17.69	17.98	17.95

Table 9-57
5 GHz WLAN Maximum Average RF Power – MIMO

5GHz (20MHz) 802.11n Conducted Power [dBm]				
Freq [MHz]	Channel	ANT1	ANT2	MIMO
5180	36	17.59	17.53	20.57
5200	40	17.65	17.46	20.57
5220	44	17.62	17.48	20.56
5240	48	17.63	17.45	20.55
5260	52	17.92	17.43	20.69
5280	56	17.86	17.39	20.64
5300	60	17.78	17.34	20.58
5320	64	17.64	17.34	20.50
5500	100	17.75	17.34	20.56
5600	120	17.77	17.36	20.58
5620	124	17.78	17.35	20.58
5720	144	17.81	17.19	20.52
5745	149	17.72	17.24	20.50
5785	157	17.63	17.09	20.38
5825	165	17.61	17.58	20.61

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Table 9-58

2.4 GHz WLAN Reduced Average RF Power for conditions with 5/6 GHz WLAN or 5G NR– Ant 1

2.4GHz Conducted Power [dBm]					
Freq [MHz]	Channel	IEEE Transmission Mode			
		802.11b	802.11g	802.11n	802.11ax
		Average	Average	Average	Average
2412	1	14.64	14.77	14.62	14.63
2437	6	14.60	14.91	14.78	14.85
2462	11	14.58	14.80	14.67	14.77

Table 9-59

2.4 GHz WLAN Reduced Average RF Power for conditions with 5/6 GHz WLAN or 5G NR – Ant 2

2.4GHz Conducted Power [dBm]					
Freq [MHz]	Channel	IEEE Transmission Mode			
		802.11b	802.11g	802.11n	802.11ax
		Average	Average	Average	Average
2412	1	14.76	14.92	14.73	14.66
2437	6	14.86	14.69	14.58	14.97
2462	11	14.85	14.57	14.84	14.78

Table 9-60

2.4 GHz WLAN Reduced Average RF Power for conditions with 5/6 GHz WLAN or 5G NR– MIMO

2.4GHz 802.11n Conducted Power [dBm]				
Freq [MHz]	Channel	ANT1	ANT2	MIMO
2412	1	14.62	14.73	17.69
2437	6	14.78	14.58	17.69
2462	11	14.67	14.84	17.77

Table 9-61

2.4 GHz WLAN Reduced Average RF Power for conditions with RCV active or RCV active During Conditions with 5/6 GHz WLAN– Ant 1

2.4GHz Conducted Power [dBm]					
Freq [MHz]	Channel	IEEE Transmission Mode			
		802.11b	802.11g	802.11n	802.11ax
		Average	Average	Average	Average
2412	1	12.61	12.72	12.62	12.68
2437	6	12.83	12.59	12.96	12.77
2462	11	12.87	12.50	12.86	12.62

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Table 9-62

2.4 GHz WLAN Reduced Average RF Power for conditions with RCV active or RCV active During Conditions with 5/6 GHz WLAN – Ant 2

2.4GHz Conducted Power [dBm]					
Freq [MHz]	Channel	IEEE Transmission Mode			
		802.11b	802.11g	802.11n	802.11ax
		Average	Average	Average	Average
2412	1	12.85	12.89	12.81	12.73
2437	6	12.62	12.80	12.77	12.65
2462	11	12.59	12.65	12.56	12.96

Table 9-63

2.4 GHz WLAN Reduced Average RF Power for conditions with RCV active or RCV active During Conditions with 5/6 GHz WLAN – MIMO

2.4GHz 802.11n Conducted Power [dBm]				
Freq [MHz]	Channel	ANT1	ANT2	MIMO
2412	1	12.62	12.81	15.73
2437	6	12.96	12.77	15.88
2462	11	12.86	12.56	15.72

Table 9-64

2.4 GHz WLAN Reduced Average RF Power for conditions with RCV active with 5G NR – MIMO

2.4GHz 802.11n Conducted Power [dBm]				
Freq [MHz]	Channel	ANT1	ANT2	MIMO
2412	1	10.58	10.80	13.70
2437	6	10.91	10.10	13.53
2462	11	10.69	10.73	13.72

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Table 9-65
5 GHz WLAN Reduced Average RF Power during conditions with 2.4 GHz WLAN or 5G NR – Ant 1

5GHz (80MHz) Conducted Power [dBm]		
Freq [MHz]	Channel	IEEE Transmission Mode
		802.11ac
		Average
5210	42	14.90
5290	58	14.76
5530	106	14.64
5610	122	14.65
5690	138	14.71
5775	155	14.82

Table 9-66
5 GHz WLAN Reduced Average RF Power during conditions with 2.4 GHz WLAN or 5G NR – MIMO

5GHz (80MHz) 802.11ac Conducted Power [dBm]				
Freq [MHz]	Channel	ANT1	ANT2	MIMO
5210	42	14.90	14.80	17.86
5290	58	14.76	14.55	17.67
5530	106	14.64	14.54	17.60
5610	122	14.65	14.58	17.63
5690	138	14.71	14.68	17.71
5775	155	14.82	14.73	17.79

Table 9-67
5 GHz WLAN Reduced Average RF Power for conditions with RCV active, RCV active during conditions with 2.4 GHz WLAN, or RCV active during conditions with 5G NR – Ant 1

5GHz (80MHz) Conducted Power [dBm]		
Freq [MHz]	Channel	IEEE Transmission Mode
		802.11ac
		Average
5210	42	11.88
5290	58	11.65
5530	106	11.83
5610	122	11.67
5690	138	11.95
5775	155	11.67

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Table 9-68

5 GHz WLAN Reduced Average RF Power for conditions with RCV active, RCV active during conditions with 2.4 GHz WLAN, or RCV active during conditions with 5G NR – MIMO

5GHz (80MHz) 802.11ac Conducted Power [dBm]				
Freq [MHz]	Channel	ANT1	ANT2	MIMO
5210	42	11.88	11.66	14.78
5290	58	11.65	11.82	14.75
5530	106	11.83	11.34	14.60
5610	122	11.67	11.61	14.65
5690	138	11.95	11.92	14.95
5775	155	11.67	11.69	14.69

Justification for test configurations for WLAN per KDB Publication 248227 D01v02r02:

- Power measurements were performed for the transmission mode configuration with the highest maximum output power specified for production units.
- For transmission modes with the same maximum output power specification, powers were measured for the largest channel bandwidth, lowest order modulation and lowest data rate.
- For transmission modes with identical maximum specified output power, channel bandwidth, modulation and data rates, power measurements were required for all identical configurations.
- For each transmission mode configuration, powers were measured for the highest and lowest channels; and at the mid-band channel(s) when there were at least 3 channels supported. For configurations with multiple mid-band channels, due to an even number of channels, both channels were measured.

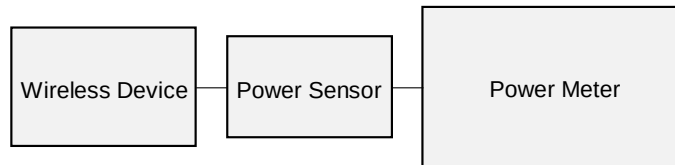


Figure 9-6
Power Measurement Setup

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9.7 Bluetooth Conducted Powers

Table 9-69
Bluetooth Maximum Average RF Power - Ant 1

Frequency [MHz]	Data Rate [Mbps]	Mod.	Power Scheme	Channel No.	Avg Conducted Power	
					[dBm]	[mW]
2402	1.0	GFSK	ePA	0	16.90	48.938
2441	1.0	GFSK	ePA	39	17.29	53.540
2480	1.0	GFSK	ePA	78	16.85	48.462
2402	2.0	$\pi/4$ -DQPSK	ePA	0	13.88	24.444
2441	2.0	$\pi/4$ -DQPSK	ePA	39	14.25	26.592
2480	2.0	$\pi/4$ -DQPSK	ePA	78	13.91	24.604
2402	3.0	8DPSK	ePA	0	13.93	24.717
2441	3.0	8DPSK	ePA	39	14.33	27.109
2480	3.0	8DPSK	ePA	78	13.99	25.051

Table 9-70
Bluetooth Maximum Average RF Power - Ant 2

Frequency [MHz]	Data Rate [Mbps]	Mod.	Power Scheme	Channel No.	Avg Conducted Power	
					[dBm]	[mW]
2402	1.0	GFSK	ePA	0	16.71	54.723
2441	1.0	GFSK	ePA	39	16.93	60.102
2480	1.0	GFSK	ePA	78	15.52	39.554
2402	2.0	$\pi/4$ -DQPSK	ePA	0	13.38	28.642
2441	2.0	$\pi/4$ -DQPSK	ePA	39	13.93	31.584
2480	2.0	$\pi/4$ -DQPSK	ePA	78	12.45	21.258
2402	3.0	8DPSK	ePA	0	13.30	28.961
2441	3.0	8DPSK	ePA	39	13.83	32.195
2480	3.0	8DPSK	ePA	78	12.59	21.564

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Table 9-71
Bluetooth Reduced Average RF Power with 5G NR Active - Ant 1

Frequency [MHz]	Data Rate [Mbps]	Mod.	Power Scheme	Channel No.	Avg Conducted Power	
					[dBm]	[mW]
2402	1.0	GFSK	ePA	0	15.26	33.597
2441	1.0	GFSK	ePA	39	15.49	35.383
2480	1.0	GFSK	ePA	78	14.98	31.492

Table 9-72
Bluetooth Reduced Average RF Power with 5G NR Active - Ant 2

Frequency [MHz]	Data Rate [Mbps]	Mod.	Power Scheme	Channel No.	Avg Conducted Power	
					[dBm]	[mW]
2402	1.0	GFSK	ePA	0	14.76	29.923
2441	1.0	GFSK	ePA	39	15.07	32.137
2480	1.0	GFSK	ePA	78	13.93	24.717

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Table 9-73

Bluetooth Reduced Average RF Power During Simultaneous conditions with 5/6GHz WLAN - Ant 1

Frequency [MHz]	Data Rate [Mbps]	Mod.	Power Scheme	Channel No.	Avg Conducted Power	
					[dBm]	[mW]
2402	1.0	GFSK	ePA	0	11.96	15.707
2441	1.0	GFSK	ePA	39	11.99	15.809
2480	1.0	GFSK	ePA	78	11.91	15.513

Table 9-74

Bluetooth Reduced Average RF Power During Simultaneous conditions with 5/6GHz WLAN - Ant 2

Frequency [MHz]	Data Rate [Mbps]	Mod.	Power Scheme	Channel No.	Avg Conducted Power	
					[dBm]	[mW]
2402	1.0	GFSK	ePA	0	11.59	14.428
2441	1.0	GFSK	ePA	39	11.99	15.805
2480	1.0	GFSK	ePA	78	10.52	11.267

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Table 9-75
Bluetooth Reduced Average RF Power with RCV Active - Ant 1

Frequency [MHz]	Data Rate [Mbps]	Mod.	Power Scheme	Channel No.	Avg Conducted Power	
					[dBm]	[mW]
2402	1.0	GFSK	ePA	0	9.88	9.732
2441	1.0	GFSK	ePA	39	10.20	10.476
2480	1.0	GFSK	ePA	78	9.68	9.283

Table 9-76
Bluetooth Reduced Average RF Power with RCV Active - Ant 2

Frequency [MHz]	Data Rate [Mbps]	Mod.	Power Scheme	Channel No.	Avg Conducted Power	
					[dBm]	[mW]
2402	1.0	GFSK	ePA	0	8.95	7.860
2441	1.0	GFSK	ePA	39	9.31	8.539
2480	1.0	GFSK	ePA	78	8.37	6.873

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Figure 9-7

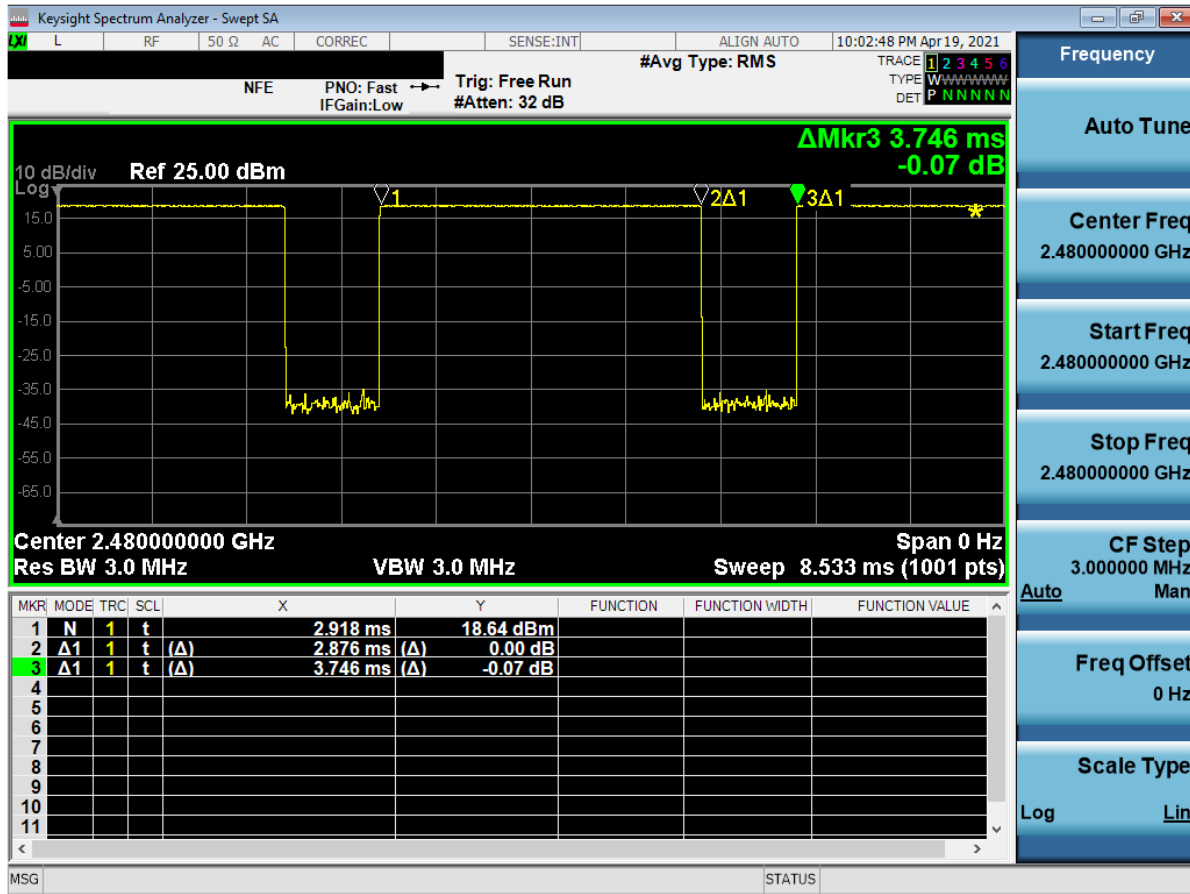


Equation 9-1

$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.88\text{ms}}{3.76\text{ms}} * 100\% = 76.8\%$$

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Figure 9-8
Bluetooth Transmission Plot Ant 2



Equation 9-2
Bluetooth Duty Cycle Calculation Ant 2

$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.88\text{ms}}{3.75\text{ms}} * 100\% = 76.8\%$$

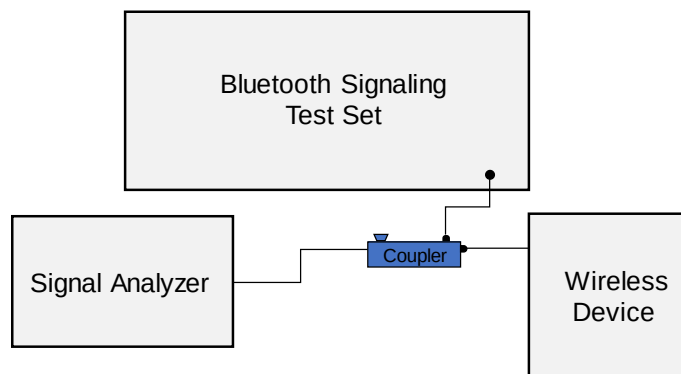


Figure 9-9
Power Measurement Setup

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10 SYSTEM VERIFICATION

10.1 Tissue Verification

Table 10-1
Measured Head Tissue Properties

Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ϵ	% dev σ	% dev ϵ
05/20/2021	750 Head	23.7	680	0.899	44.032	0.888	42.305	1.24%	4.08%
			695	0.904	43.981	0.889	42.227	1.69%	4.15%
			700	0.906	43.966	0.889	42.201	1.91%	4.18%
			710	0.909	43.936	0.890	42.149	2.13%	4.24%
			725	0.914	43.894	0.891	42.071	2.58%	4.33%
			750	0.923	43.827	0.894	41.942	3.24%	4.49%
			770	0.930	43.769	0.895	41.838	3.91%	4.62%
			785	0.935	43.721	0.896	41.760	4.35%	4.70%
			800	0.941	43.670	0.897	41.682	4.91%	4.77%
			820	0.947	43.618	0.897	41.604	5.47%	4.84%
05/25/2021	750 Head	23.0	680	0.897	42.114	0.888	42.305	1.01%	-0.45%
			695	0.902	42.069	0.889	42.227	1.46%	-0.37%
			700	0.903	42.055	0.889	42.201	1.57%	-0.35%
			710	0.907	42.026	0.890	42.149	1.91%	-0.29%
			725	0.912	41.979	0.891	42.071	2.36%	-0.22%
			750	0.921	41.896	0.894	41.942	3.02%	-0.11%
			770	0.927	41.831	0.895	41.838	3.58%	-0.02%
			785	0.931	41.788	0.896	41.760	3.91%	0.07%
			800	0.937	41.754	0.897	41.682	4.46%	0.17%
			820	0.943	41.702	0.897	41.604	4.91%	0.24%
05/27/2021	750 Head	23.0	680	0.899	42.396	0.888	42.305	1.24%	0.22%
			695	0.904	42.360	0.889	42.227	1.69%	0.31%
			700	0.905	42.349	0.889	42.201	1.80%	0.35%
			710	0.909	42.318	0.890	42.149	2.13%	0.40%
			725	0.914	42.263	0.891	42.071	2.58%	0.46%
			750	0.923	42.180	0.894	41.942	3.24%	0.57%
			770	0.930	42.124	0.895	41.838	3.91%	0.68%
			785	0.935	42.083	0.896	41.760	4.35%	0.77%
			800	0.941	42.039	0.897	41.682	4.91%	0.86%
			820	0.947	41.987	0.897	41.604	5.47%	0.94%
04/06/2021	835 Head	20.7	835	0.917	42.495	0.900	41.500	1.89%	2.40%
			850	0.932	42.305	0.916	41.500	1.75%	1.94%
05/27/2021	835 Head	21.2	820	0.870	41.236	0.899	41.578	-3.23%	-0.82%
			835	0.884	41.054	0.900	41.500	-1.78%	-1.07%
05/30/2021	835 Head	23.3	850	0.898	40.869	0.916	41.500	-1.97%	-1.52%
			820	0.885	42.232	0.899	41.578	-1.56%	1.57%
04/11/2021	1750 Head	22.3	835	0.899	42.063	0.900	41.500	-0.11%	1.33%
			850	0.913	41.870	0.916	41.500	-0.33%	0.89%
05/16/2021	1750 Head	21.4	1710	1.363	41.241	1.348	40.142	1.11%	2.74%
			1720	1.368	41.224	1.354	40.126	1.03%	2.74%
			1745	1.383	41.177	1.368	40.087	1.10%	2.72%
			1750	1.386	41.167	1.371	40.079	1.09%	2.71%
			1770	1.397	41.126	1.383	40.047	1.01%	2.69%
			1790	1.408	41.085	1.394	40.016	1.00%	2.67%
			1710	1.352	40.563	1.348	40.142	0.30%	1.05%
			1720	1.363	40.515	1.354	40.126	0.66%	0.97%
			1745	1.388	40.397	1.368	40.087	1.46%	0.77%
			1750	1.393	40.373	1.371	40.079	1.60%	0.73%
05/18/2021	1750 Head	22.2	1770	1.414	40.276	1.383	40.047	2.24%	0.57%
			1790	1.434	40.177	1.394	40.016	2.87%	0.40%
			1710	1.356	41.289	1.348	40.142	0.59%	2.86%
			1720	1.366	41.244	1.354	40.126	0.89%	2.79%
			1745	1.392	41.131	1.368	40.087	1.75%	2.60%
			1750	1.397	41.108	1.371	40.079	1.90%	2.57%
			1770	1.417	41.014	1.383	40.047	2.46%	2.41%
			1790	1.437	40.921	1.394	40.016	3.08%	2.26%
			1850	1.373	38.848	1.400	40.000	-1.93%	-2.89%
			1860	1.384	38.800	1.400	40.000	-1.14%	-3.00%
04/06/2021	1900 Head	22.2	1880	1.405	38.711	1.400	40.000	0.36%	-3.22%
			1900	1.426	38.627	1.400	40.000	1.86%	-3.43%
			1905	1.431	38.607	1.400	40.000	2.21%	-3.48%
			1910	1.437	38.586	1.400	40.000	2.64%	-3.54%
			1850	1.399	38.340	1.400	40.000	-0.07%	-4.15%
			1860	1.410	38.302	1.400	40.000	0.71%	-4.25%
			1880	1.431	38.231	1.400	40.000	2.21%	-4.42%
			1900	1.451	38.157	1.400	40.000	3.64%	-4.61%
			1905	1.456	38.138	1.400	40.000	4.00%	-4.66%
			1910	1.461	38.120	1.400	40.000	4.36%	-4.70%
05/03/2021	1900 Head	21.8	1850	1.376	38.294	1.400	40.000	-1.71%	-4.27%
			1860	1.386	38.252	1.400	40.000	-1.00%	-4.37%
			1880	1.407	38.164	1.400	40.000	0.50%	-4.59%
			1900	1.428	38.076	1.400	40.000	2.00%	-4.81%
			1905	1.433	38.054	1.400	40.000	2.36%	-4.87%
			1910	1.439	38.034	1.400	40.000	2.79%	-4.92%

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Table 10-2
Measured Head Tissue Properties Continued

Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ϵ	% dev σ	% dev ϵ
04/25/2021	2450 Head	24.4	2300	1.696	40.348	1.670	39.500	1.56%	2.15%
			2310	1.708	40.313	1.679	39.480	1.73%	2.11%
			2320	1.719	40.279	1.687	39.460	1.90%	2.08%
			2400	1.807	40.019	1.756	39.289	2.90%	1.86%
			2450	1.863	39.847	1.800	39.200	3.50%	1.65%
			2480	1.896	39.745	1.833	39.162	3.44%	1.49%
			2500	1.919	39.675	1.855	39.136	3.45%	1.38%
			2510	1.930	39.640	1.866	39.123	3.43%	1.32%
			2535	1.960	39.551	1.893	39.092	3.54%	1.17%
			2550	1.978	39.500	1.909	39.073	3.61%	1.09%
			2560	1.990	39.464	1.920	39.060	3.65%	1.03%
			2600	2.036	39.317	1.964	39.009	3.67%	0.79%
			2650	2.093	39.131	2.018	38.945	3.72%	0.48%
			2680	2.127	39.021	2.051	38.907	3.71%	0.29%
			2700	2.149	38.946	2.073	38.882	3.67%	0.16%
04/27/2021	2450 Head	23.7	2300	1.715	40.172	1.670	39.500	2.69%	1.70%
			2310	1.726	40.137	1.679	39.480	2.80%	1.66%
			2320	1.736	40.103	1.687	39.460	2.90%	1.63%
			2400	1.818	39.838	1.756	39.289	3.53%	1.40%
			2450	1.873	39.689	1.800	39.200	4.06%	1.25%
			2480	1.907	39.599	1.833	39.162	4.04%	1.12%
			2500	1.930	39.528	1.855	39.136	4.04%	1.00%
			2510	1.941	39.489	1.866	39.123	4.02%	0.94%
			2535	1.972	39.393	1.893	39.092	4.17%	0.77%
			2550	1.990	39.342	1.909	39.073	4.24%	0.69%
			2560	2.003	39.306	1.920	39.060	4.32%	0.63%
			2600	2.048	39.162	1.964	39.009	4.28%	0.39%
			2650	2.104	38.950	2.018	38.945	4.26%	0.01%
			2680	2.140	38.844	2.051	38.907	4.34%	-0.16%
			2700	2.161	38.781	2.073	38.882	4.25%	-0.26%
04/28/2021	2450 Head	23.1	2300	1.747	40.479	1.670	39.500	4.61%	2.48%
			2310	1.755	40.465	1.679	39.480	4.53%	2.49%
			2320	1.763	40.452	1.687	39.460	4.51%	2.51%
			2400	1.826	40.343	1.756	39.289	3.99%	2.68%
			2450	1.866	40.266	1.800	39.200	3.67%	2.72%
			2480	1.889	40.220	1.833	39.162	3.06%	2.70%
			2500	1.905	40.186	1.855	39.136	2.70%	2.68%
			2510	1.913	40.168	1.866	39.123	2.52%	2.67%
			2535	1.934	40.127	1.893	39.092	2.17%	2.65%
			2550	1.947	40.107	1.909	39.073	1.99%	2.65%
			2560	1.956	40.092	1.920	39.060	1.88%	2.64%
			2600	1.989	40.025	1.964	39.009	1.27%	2.60%
			2650	2.030	39.935	2.018	38.945	0.59%	2.54%
			2680	2.054	39.890	2.051	38.907	0.15%	2.53%
			2700	2.070	39.858	2.073	38.882	-0.14%	2.51%
05/05/2021	2450 Head	21.0	2300	1.741	39.545	1.670	39.500	4.25%	0.11%
			2310	1.749	39.530	1.679	39.480	4.17%	0.13%
			2320	1.757	39.515	1.687	39.460	4.15%	0.14%
			2400	1.821	39.399	1.756	39.289	3.70%	0.28%
			2450	1.863	39.319	1.800	39.200	3.50%	0.30%
			2480	1.886	39.278	1.833	39.162	2.89%	0.30%
			2500	1.901	39.245	1.855	39.136	2.48%	0.28%
			2510	1.909	39.226	1.866	39.123	2.30%	0.26%
			2535	1.932	39.176	1.893	39.092	2.06%	0.21%
			2550	1.946	39.151	1.909	39.073	1.94%	0.20%
			2560	1.955	39.139	1.920	39.060	1.82%	0.20%
			2600	1.987	39.084	1.964	39.009	1.17%	0.19%
			2650	2.028	38.981	2.018	38.945	0.50%	0.09%
			2680	2.054	38.932	2.051	38.907	0.15%	0.06%
			2700	2.070	38.899	2.073	38.882	-0.14%	0.04%
05/29/2021	2450 Head	20.8	2300	1.737	39.883	1.670	39.500	4.01%	0.97%
			2310	1.745	39.873	1.679	39.480	3.93%	1.00%
			2320	1.753	39.865	1.687	39.460	3.91%	1.03%
			2400	1.816	39.757	1.756	39.289	3.42%	1.19%
			2450	1.857	39.683	1.800	39.200	3.17%	1.23%
			2480	1.880	39.635	1.833	39.162	2.56%	1.21%
			2500	1.896	39.599	1.855	39.136	2.21%	1.18%
			2510	1.904	39.579	1.866	39.123	2.04%	1.17%
			2535	1.925	39.535	1.893	39.092	1.69%	1.13%
			2550	1.939	39.512	1.909	39.073	1.57%	1.12%
			2560	1.947	39.494	1.920	39.060	1.41%	1.11%
			2600	1.979	39.422	1.964	39.009	0.76%	1.06%
			2650	2.019	39.327	2.018	38.945	0.05%	0.98%
			2680	2.045	39.278	2.051	38.907	-0.29%	0.95%
			2700	2.061	39.248	2.073	38.882	-0.58%	0.94%

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Table 10-3
Measured Head Tissue Properties Continued

Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ϵ	% dev σ	% dev ϵ
04/28/2021	3600 Head	18.5	3300	2.692	39.142	2.708	38.157	-0.59%	2.58%
			3350	2.737	39.032	2.759	38.100	-0.80%	2.45%
			3450	2.833	38.836	2.861	37.986	-0.96%	2.24%
			3500	2.879	38.730	2.913	37.929	-1.17%	2.11%
			3550	2.930	38.644	2.964	37.871	-1.15%	2.04%
			3560	2.940	38.630	2.974	37.860	-1.14%	2.03%
			3600	2.978	38.538	3.015	37.814	-1.23%	1.91%
			3650	3.030	38.464	3.066	37.757	-1.17%	1.87%
			3690	3.063	38.396	3.107	37.711	-1.42%	1.82%
			3700	3.073	38.370	3.117	37.700	-1.41%	1.78%
			3750	3.131	38.268	3.169	37.643	-1.20%	1.66%
			3900	3.276	38.024	3.323	37.471	-1.41%	1.48%
			3930	3.310	37.947	3.353	37.437	-1.28%	1.36%
			4100	3.497	37.655	3.528	37.243	-0.86%	1.11%
			4150	3.548	37.576	3.579	37.186	-0.87%	1.05%
05/10/2021	3600 Head	19.0	3300	2.684	38.471	2.708	38.157	-0.89%	0.82%
			3350	2.734	38.369	2.759	38.100	-0.91%	0.71%
			3450	2.828	38.152	2.861	37.986	-1.15%	0.44%
			3500	2.876	38.051	2.913	37.929	-1.27%	0.32%
			3550	2.927	37.959	2.964	37.871	-1.25%	0.23%
			3560	2.935	37.950	2.974	37.860	-1.31%	0.24%
			3600	2.970	37.863	3.015	37.814	-1.49%	0.13%
			3650	3.022	37.773	3.066	37.757	-1.44%	0.04%
			3690	3.056	37.701	3.107	37.711	-1.64%	-0.03%
			3700	3.067	37.685	3.117	37.700	-1.60%	-0.04%
			3750	3.123	37.576	3.169	37.643	-1.45%	-0.18%
			3900	3.271	37.332	3.323	37.471	-1.56%	-0.37%
			3930	3.306	37.259	3.353	37.437	-1.40%	-0.48%
			4100	3.485	36.951	3.528	37.243	-1.22%	-0.78%
			4150	3.541	36.868	3.579	37.186	-1.06%	-0.86%
04/21/2021	5200-5800 Head	22.7	5180	4.550	36.754	4.635	36.009	-1.83%	2.07%
			5190	4.559	36.734	4.645	35.998	-1.85%	2.04%
			5200	4.568	36.709	4.655	35.986	-1.87%	2.01%
			5210	4.579	36.682	4.666	35.975	-1.86%	1.99%
			5220	4.583	36.677	4.676	35.963	-1.78%	1.99%
			5240	4.620	36.640	4.696	35.940	-1.62%	1.95%
			5250	4.631	36.622	4.706	35.929	-1.59%	1.93%
			5260	4.642	36.605	4.717	35.917	-1.59%	1.92%
			5270	4.654	36.585	4.727	35.906	-1.54%	1.89%
			5280	4.665	36.567	4.737	35.894	-1.52%	1.87%
			5290	4.676	36.552	4.748	35.883	-1.52%	1.86%
			5300	4.688	36.543	4.758	35.871	-1.47%	1.87%
			5310	4.700	36.529	4.768	35.860	-1.43%	1.87%
			5320	4.712	36.507	4.778	35.849	-1.38%	1.84%
			5500	4.917	36.192	4.963	36.643	-0.93%	1.54%
			5510	4.929	36.172	4.973	36.632	-0.88%	1.52%
			5520	4.943	36.154	4.983	36.620	-0.80%	1.50%
			5530	4.957	36.137	4.994	36.609	-0.74%	1.48%
			5540	4.971	36.120	5.004	35.597	-0.66%	1.47%
			5550	4.983	36.110	5.014	35.586	-0.62%	1.47%
			5560	4.995	36.099	5.024	35.574	-0.58%	1.48%
			5580	5.016	36.059	5.045	35.551	-0.57%	1.43%
			5600	5.038	36.016	5.065	35.529	-0.53%	1.37%
			5610	5.051	35.998	5.076	35.518	-0.49%	1.35%
			5620	5.064	35.981	5.086	35.506	-0.43%	1.34%
			5640	5.090	35.949	5.106	35.483	-0.31%	1.31%
			5660	5.116	35.928	5.127	35.460	-0.21%	1.32%
			5670	5.125	35.918	5.137	35.449	-0.23%	1.32%
			5680	5.133	35.905	5.147	35.437	-0.27%	1.32%
			5690	5.143	35.888	5.158	35.426	-0.29%	1.30%
			5700	5.154	35.866	5.168	35.414	-0.27%	1.28%
			5710	5.167	35.844	5.178	35.403	-0.21%	1.25%
			5720	5.182	35.823	5.188	35.391	-0.12%	1.22%
			5745	5.214	35.775	5.214	35.363	0.00%	1.17%
			5750	5.218	35.769	5.219	35.357	-0.02%	1.17%
			5755	5.223	35.764	5.224	35.351	-0.02%	1.17%
			5765	5.232	35.752	5.234	35.340	-0.04%	1.17%
			5775	5.242	35.743	5.245	35.329	-0.06%	1.17%
			5785	5.254	35.736	5.255	35.317	-0.02%	1.19%
			5795	5.265	35.719	5.265	35.305	0.00%	1.17%
			5800	5.270	35.709	5.270	35.300	0.00%	1.16%
			5800	5.270	35.709	5.270	35.300	0.00%	1.16%
			5805	5.276	35.700	5.275	35.294	0.02%	1.15%
			5825	5.298	35.661	5.296	35.271	0.04%	1.11%

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Table 10-4
Measured Body Tissue Properties

Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ϵ	% dev σ	% dev ϵ
04/06/2021	750 Body	22.7	680	0.958	54.562	0.958	55.804	0.00%	-2.23%
			695	0.964	54.524	0.959	55.745	0.52%	-2.19%
			700	0.965	54.512	0.959	55.726	0.63%	-2.18%
			710	0.969	54.491	0.960	55.687	0.94%	-2.15%
			725	0.975	54.462	0.961	55.629	1.46%	-2.10%
			750	0.984	54.407	0.964	55.531	2.07%	-2.02%
			770	0.991	54.355	0.965	55.453	2.69%	-1.98%
			785	0.997	54.309	0.966	55.395	3.21%	-1.96%
			800	1.002	54.272	0.967	55.336	3.62%	-1.92%
			680	0.962	53.823	0.958	55.804	0.42%	-3.55%
04/09/2021	750 Body	23.0	695	0.967	53.785	0.959	55.745	0.83%	-3.52%
			700	0.969	53.769	0.959	55.726	1.04%	-3.51%
			710	0.973	53.738	0.960	55.687	1.35%	-3.50%
			725	0.978	53.696	0.961	55.629	1.77%	-3.47%
			750	0.986	53.626	0.964	55.531	2.28%	-3.43%
			770	0.992	53.580	0.965	55.453	2.80%	-3.38%
			785	0.998	53.551	0.966	55.395	3.31%	-3.33%
			800	1.004	53.523	0.967	55.336	3.83%	-3.28%
			680	0.955	53.452	0.958	55.804	-0.31%	-4.21%
			695	0.960	53.416	0.959	55.745	0.10%	-4.18%
04/12/2021	750 Body	22.9	700	0.962	53.405	0.959	55.726	0.31%	-4.17%
			710	0.965	53.383	0.960	55.687	0.52%	-4.14%
			725	0.971	53.357	0.961	55.629	1.04%	-4.08%
			750	0.980	53.301	0.964	55.531	1.66%	-4.02%
			770	0.987	53.243	0.965	55.453	2.28%	-3.99%
			785	0.993	53.194	0.966	55.395	2.80%	-3.97%
			800	0.998	53.157	0.967	55.336	3.21%	-3.94%
			680	0.962	54.467	0.958	55.804	0.42%	-2.40%
			695	0.967	54.430	0.959	55.745	0.83%	-2.36%
			700	0.969	54.422	0.959	55.726	1.04%	-2.34%
04/14/2021	750 Body	22.6	710	0.973	54.402	0.960	55.687	1.35%	-2.31%
			725	0.979	54.368	0.961	55.629	1.87%	-2.27%
			750	0.989	54.303	0.964	55.531	2.59%	-2.21%
			770	0.996	54.240	0.965	55.453	3.21%	-2.19%
			785	1.001	54.196	0.966	55.395	3.62%	-2.16%
			800	1.007	54.160	0.967	55.336	4.14%	-2.13%
			680	0.949	53.216	0.958	55.804	-0.94%	-4.64%
			695	0.954	53.190	0.959	55.745	-0.52%	-4.58%
			700	0.956	53.184	0.959	55.726	-0.31%	-4.56%
			710	0.959	53.164	0.960	55.687	-0.10%	-4.53%
04/20/2021	750 Body	22.3	725	0.965	53.126	0.961	55.629	0.42%	-4.50%
			750	0.974	53.054	0.964	55.531	1.04%	-4.46%
			770	0.982	52.996	0.965	55.453	1.76%	-4.43%
			785	0.987	52.956	0.966	55.395	2.17%	-4.40%
			800	0.993	52.917	0.967	55.336	2.69%	-4.37%
			680	0.942	53.848	0.958	55.804	-1.67%	-3.51%
			695	0.947	53.813	0.959	55.745	-1.25%	-3.47%
			700	0.949	53.803	0.959	55.726	-1.04%	-3.45%
			710	0.953	53.785	0.960	55.687	-0.73%	-3.42%
			725	0.959	53.755	0.961	55.629	-0.21%	-3.37%
04/22/2021	750 Body	22.4	750	0.968	53.690	0.964	55.531	0.41%	-3.32%
			770	0.975	53.632	0.965	55.453	1.04%	-3.28%
			785	0.980	53.586	0.966	55.395	1.45%	-3.27%
			800	0.986	53.551	0.967	55.336	1.96%	-3.23%
			680	0.958	54.843	0.958	55.804	0.00%	-1.72%
			695	0.963	54.807	0.959	55.745	0.42%	-1.68%
			700	0.965	54.795	0.959	55.726	0.63%	-1.67%
			710	0.968	54.774	0.960	55.687	0.83%	-1.64%
			725	0.974	54.745	0.961	55.629	1.35%	-1.59%
			750	0.983	54.697	0.964	55.531	1.97%	-1.50%
05/31/2021	750 Body	23.0	770	0.989	54.640	0.965	55.453	2.49%	-1.47%
			785	0.995	54.595	0.966	55.395	3.00%	-1.44%
			800	1.000	54.554	0.967	55.336	3.41%	-1.41%
			820	0.947	53.300	0.969	55.258	-2.27%	-3.54%
			835	0.963	53.137	0.970	55.200	-0.72%	-3.74%
			850	0.979	52.975	0.988	55.154	-0.91%	-3.95%
			820	0.937	53.788	0.969	55.258	-3.30%	-2.66%
			835	0.953	53.651	0.970	55.200	-1.75%	-2.81%
			850	0.969	53.510	0.988	55.154	-1.92%	-2.98%
			820	0.941	53.205	0.969	55.258	-2.89%	-3.72%
04/25/2021	835 Body	20.6	835	0.957	53.073	0.970	55.200	-1.34%	-3.85%
			850	0.973	52.931	0.988	55.154	-1.52%	-4.03%
			820	0.937	52.811	0.969	55.258	-3.30%	-4.43%
04/06/2021	835 Body	23.0	835	0.953	52.671	0.970	55.200	-1.75%	-4.58%
			850	0.969	52.527	0.988	55.154	-1.92%	-4.76%
			820	0.940	54.082	0.969	55.258	-2.99%	-2.13%
04/08/2021	835 Body	22.0	835	0.956	53.949	0.970	55.200	-1.44%	-2.27%
			850	0.972	53.803	0.988	55.154	-1.62%	-2.45%

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Table 10-5
Measured Body Tissue Properties Continued

Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ϵ	% dev σ	% dev ϵ
04/15/2021	835 Body	23.0	820	0.938	53.718	0.969	55.258	-3.20%	-2.79%
			835	0.954	53.583	0.970	55.200	-1.65%	-2.93%
			850	0.971	53.435	0.988	55.154	-1.72%	-3.12%
04/17/2021	835 Body	21.5	820	0.929	52.946	0.969	55.258	-4.13%	-4.18%
			835	0.945	52.790	0.970	55.200	-2.58%	-4.37%
			850	0.961	52.635	0.988	55.154	-2.73%	-4.57%
04/19/2021	835 Body	21.8	820	0.938	53.904	0.969	55.258	-3.20%	-2.45%
			835	0.954	53.761	0.970	55.200	-1.65%	-2.61%
			850	0.970	53.609	0.988	55.154	-1.82%	-2.80%
04/21/2021	835 Body	21.6	820	0.928	52.815	0.969	55.258	-4.23%	-4.42%
			835	0.944	52.652	0.970	55.200	-2.68%	-4.62%
			850	0.960	52.500	0.988	55.154	-2.83%	-4.81%
04/25/2021	835 Body	20.6	820	0.947	53.300	0.969	55.258	-2.27%	-3.54%
			835	0.963	53.137	0.970	55.200	-0.72%	-3.74%
			850	0.979	52.975	0.988	55.154	-0.91%	-3.95%
05/25/2021	835 Body	21.3	820	0.945	53.939	0.969	55.258	-2.48%	-2.39%
			835	0.961	53.775	0.970	55.200	-0.93%	-2.58%
			850	0.978	53.620	0.988	55.154	-1.01%	-2.78%
06/02/2021	835 Body	22.2	820	0.947	53.339	0.969	55.258	-2.27%	-3.47%
			835	0.963	53.180	0.970	55.200	-0.72%	-3.66%
			850	0.980	53.017	0.988	55.154	-0.81%	-3.87%
06/06/2021	835 Body	20.0	820	0.942	52.949	0.969	55.258	-2.79%	-4.18%
			835	0.958	52.788	0.970	55.200	-1.24%	-4.37%
			850	0.975	52.620	0.988	55.154	-1.32%	-4.59%
04/08/2021	1750 Body	22.0	1710	1.499	51.099	1.463	53.537	2.46%	-4.55%
			1720	1.511	51.059	1.469	53.511	2.86%	-4.58%
			1745	1.541	50.954	1.485	53.445	3.77%	-4.66%
			1750	1.546	50.935	1.488	53.432	3.90%	-4.67%
			1770	1.568	50.854	1.501	53.379	4.46%	-4.73%
			1790	1.588	50.769	1.514	53.326	4.89%	-4.80%
04/11/2021	1750 Body	22.0	1710	1.469	52.697	1.463	53.537	0.41%	-1.57%
			1720	1.476	52.682	1.469	53.511	0.48%	-1.55%
			1745	1.493	52.646	1.485	53.445	0.54%	-1.49%
			1750	1.496	52.637	1.488	53.432	0.54%	-1.49%
			1770	1.509	52.598	1.501	53.379	0.53%	-1.46%
			1790	1.522	52.562	1.514	53.326	0.53%	-1.43%
04/11/2021	1750 Body	22.1	1710	1.481	52.025	1.463	53.537	1.23%	-2.82%
			1720	1.493	51.989	1.469	53.511	1.63%	-2.84%
			1745	1.523	51.893	1.485	53.445	2.56%	-2.90%
			1750	1.528	51.875	1.488	53.432	2.69%	-2.91%
			1770	1.551	51.801	1.501	53.379	3.33%	-2.96%
			1790	1.571	51.727	1.514	53.326	3.76%	-3.00%
04/14/2021	1750 Body	22.9	1710	1.466	52.545	1.463	53.537	0.21%	-1.85%
			1720	1.473	52.530	1.469	53.511	0.27%	-1.83%
			1745	1.490	52.489	1.485	53.445	0.34%	-1.79%
			1750	1.494	52.482	1.488	53.432	0.40%	-1.78%
			1770	1.508	52.460	1.501	53.379	0.47%	-1.72%
			1790	1.523	52.447	1.514	53.326	0.59%	-1.65%
04/19/2021	1750 Body	22.2	1710	1.440	51.705	1.463	53.537	-1.57%	-3.42%
			1720	1.452	51.675	1.469	53.511	-1.16%	-3.43%
			1745	1.481	51.595	1.485	53.445	-0.27%	-3.46%
			1750	1.487	51.578	1.488	53.432	-0.07%	-3.47%
			1770	1.510	51.506	1.501	53.379	0.60%	-3.51%
			1790	1.533	51.434	1.514	53.326	1.25%	-3.55%
04/21/2021	1750 Body	22.5	1710	1.455	51.298	1.463	53.537	-0.55%	-4.18%
			1720	1.466	51.262	1.469	53.511	-0.20%	-4.20%
			1745	1.492	51.189	1.485	53.445	0.47%	-4.26%
			1750	1.498	51.151	1.488	53.432	0.67%	-4.27%
			1770	1.520	51.074	1.501	53.379	1.27%	-4.32%
			1790	1.542	51.000	1.514	53.326	1.85%	-4.36%
05/05/2021	1750 Body	23.9	1710	1.452	51.342	1.463	53.537	-0.75%	-4.10%
			1720	1.463	51.304	1.469	53.511	-0.41%	-4.12%
			1745	1.490	51.208	1.485	53.445	0.34%	-4.19%
			1750	1.495	51.190	1.488	53.432	0.47%	-4.20%
			1770	1.515	51.112	1.501	53.379	0.93%	-4.25%
			1790	1.536	51.033	1.514	53.326	1.45%	-4.30%
05/10/2021	1750 Body	23.7	1710	1.485	51.747	1.463	53.537	1.50%	-3.34%
			1720	1.496	51.702	1.469	53.511	1.84%	-3.38%
			1745	1.522	51.584	1.485	53.445	2.49%	-3.48%
			1750	1.528	51.562	1.488	53.432	2.69%	-3.50%
			1770	1.551	51.476	1.501	53.379	3.33%	-3.57%
			1790	1.573	51.408	1.514	53.326	3.90%	-3.60%
05/15/2021	1750 Body	21.3	1710	1.468	51.889	1.463	53.537	0.34%	-3.08%
			1720	1.479	51.849	1.469	53.511	0.68%	-3.11%
			1745	1.510	51.767	1.485	53.445	1.68%	-3.14%
			1750	1.516	51.753	1.488	53.432	1.88%	-3.14%
			1770	1.540	51.701	1.501	53.379	2.60%	-3.14%
			1790	1.561	51.635	1.514	53.326	3.10%	-3.17%

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Table 10-6
Measured Body Tissue Properties Continued

Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ϵ	% dev σ	% dev ϵ
05/20/2021	1750 Body	21.9	1710	1.455	52.124	1.463	53.537	-0.55%	-2.64%
			1720	1.466	52.089	1.469	53.511	-0.20%	-2.66%
			1745	1.494	51.999	1.485	53.445	0.61%	-2.71%
			1750	1.500	51.980	1.488	53.432	0.81%	-2.72%
			1770	1.522	51.898	1.501	53.379	1.40%	-2.77%
			1790	1.544	51.810	1.514	53.326	1.98%	-2.84%
04/06/2021	1900 Body	22.4	1850	1.513	52.028	1.520	53.300	-0.46%	-2.39%
			1860	1.524	51.994	1.520	53.300	0.26%	-2.45%
			1880	1.546	51.931	1.520	53.300	1.71%	-2.57%
			1900	1.568	51.867	1.520	53.300	3.16%	-2.69%
			1905	1.574	51.850	1.520	53.300	3.55%	-2.72%
			1910	1.580	51.831	1.520	53.300	3.95%	-2.76%
04/09/2021	1900 Body	22.3	1850	1.523	51.823	1.520	53.300	0.20%	-2.77%
			1860	1.534	51.789	1.520	53.300	0.92%	-2.83%
			1880	1.556	51.721	1.520	53.300	2.37%	-2.96%
			1900	1.578	51.657	1.520	53.300	3.82%	-3.08%
			1905	1.583	51.639	1.520	53.300	4.14%	-3.12%
			1910	1.589	51.622	1.520	53.300	4.54%	-3.15%
04/11/2021	1900 Body	22.6	1850	1.523	51.831	1.520	53.300	0.20%	-2.76%
			1860	1.533	51.796	1.520	53.300	0.86%	-2.82%
			1880	1.555	51.732	1.520	53.300	2.30%	-2.94%
			1900	1.577	51.666	1.520	53.300	3.75%	-3.07%
			1905	1.582	51.651	1.520	53.300	4.08%	-3.09%
			1910	1.588	51.635	1.520	53.300	4.47%	-3.12%
04/14/2021	1900 Body	21.9	1850	1.522	51.363	1.520	53.300	0.13%	-3.63%
			1860	1.533	51.318	1.520	53.300	0.86%	-3.72%
			1880	1.556	51.246	1.520	53.300	2.37%	-3.85%
			1900	1.579	51.189	1.520	53.300	3.88%	-3.96%
			1905	1.585	51.172	1.520	53.300	4.28%	-3.99%
			1910	1.591	51.156	1.520	53.300	4.67%	-4.02%
04/19/2021	1900 Body	22.3	1850	1.521	52.318	1.520	53.300	0.07%	-1.84%
			1860	1.532	52.271	1.520	53.300	0.79%	-1.93%
			1880	1.555	52.183	1.520	53.300	2.30%	-2.10%
			1900	1.578	52.098	1.520	53.300	3.82%	-2.26%
			1905	1.584	52.077	1.520	53.300	4.21%	-2.29%
			1910	1.589	52.055	1.520	53.300	4.54%	-2.34%
04/21/2021	1900 Body	22.6	1850	1.523	51.476	1.520	53.300	0.20%	-3.42%
			1860	1.534	51.441	1.520	53.300	0.92%	-3.49%
			1880	1.556	51.376	1.520	53.300	2.37%	-3.61%
			1900	1.578	51.307	1.520	53.300	3.82%	-3.74%
			1905	1.584	51.290	1.520	53.300	4.21%	-3.77%
			1910	1.590	51.272	1.520	53.300	4.61%	-3.80%
04/26/2021	1900 Body	21.9	1850	1.524	53.307	1.520	53.300	0.26%	0.01%
			1860	1.535	53.277	1.520	53.300	0.99%	-0.04%
			1880	1.557	53.219	1.520	53.300	2.43%	-0.15%
			1900	1.580	53.169	1.520	53.300	3.95%	-0.25%
			1905	1.585	53.155	1.520	53.300	4.28%	-0.27%
			1910	1.591	53.140	1.520	53.300	4.67%	-0.30%
04/28/2021	1900 Body	22.3	1850	1.497	52.201	1.520	53.300	-1.51%	-2.06%
			1860	1.508	52.161	1.520	53.300	-0.79%	-2.14%
			1880	1.531	52.084	1.520	53.300	0.72%	-2.28%
			1900	1.553	52.012	1.520	53.300	2.17%	-2.42%
			1905	1.559	51.995	1.520	53.300	2.57%	-2.45%
			1910	1.564	51.979	1.520	53.300	2.89%	-2.48%
05/02/2021	1900 Body	24.5	1850	1.491	51.897	1.520	53.300	-1.91%	-2.63%
			1860	1.502	51.857	1.520	53.300	-1.18%	-2.71%
			1880	1.525	51.790	1.520	53.300	0.33%	-2.83%
			1900	1.548	51.739	1.520	53.300	1.84%	-2.93%
			1905	1.554	51.725	1.520	53.300	2.24%	-2.95%
			1910	1.559	51.710	1.520	53.300	2.57%	-2.98%
06/09/2021	1900 Body	22.1	1850	1.523	51.400	1.520	53.300	0.20%	-3.56%
			1860	1.534	51.365	1.520	53.300	0.92%	-3.63%
			1880	1.557	51.290	1.520	53.300	2.43%	-3.77%
			1900	1.580	51.212	1.520	53.300	3.95%	-3.92%
			1905	1.586	51.193	1.520	53.300	4.34%	-3.95%
			1910	1.592	51.171	1.520	53.300	4.74%	-3.99%
04/11/2021	2450 Body	22.3	2300	1.857	51.141	1.809	52.900	2.65%	-3.33%
			2310	1.869	51.113	1.816	52.887	2.92%	-3.35%
			2320	1.881	51.086	1.826	52.873	3.01%	-3.38%
			2400	1.975	50.868	1.902	52.767	3.84%	-3.60%
			2450	2.035	50.719	1.950	52.700	4.36%	-3.76%
			2480	2.070	50.631	1.993	52.662	3.86%	-3.86%
			2500	2.093	50.572	2.021	52.636	3.56%	-3.92%
			2510	2.104	50.541	2.035	52.623	3.39%	-3.96%
			2535	2.134	50.466	2.071	52.592	3.04%	-4.04%
			2550	2.151	50.424	2.092	52.573	2.82%	-4.09%
			2560	2.163	50.394	2.106	52.560	2.71%	-4.12%
			2600	2.210	50.274	2.163	52.509	2.17%	-4.26%
			2650	2.266	50.128	2.234	52.445	1.43%	-4.42%
			2680	2.300	50.039	2.277	52.407	1.01%	-4.52%
			2700	2.322	49.979	2.305	52.382	0.74%	-4.59%

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Table 10-7
Measured Body Tissue Properties Continued

Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ϵ	% dev σ	% dev ϵ
04/12/2021	2450 Body	23.3	2300	1.787	52.664	1.809	52.900	-1.22%	-0.45%
			2310	1.801	52.634	1.816	52.887	-0.83%	-0.48%
			2320	1.814	52.605	1.826	52.873	-0.66%	-0.51%
			2400	1.918	52.332	1.902	52.767	0.84%	-0.82%
			2450	1.988	52.171	1.950	52.700	1.95%	-1.00%
			2480	2.027	52.068	1.993	52.662	1.71%	-1.13%
			2500	2.055	51.988	2.021	52.636	1.68%	-1.23%
			2510	2.068	51.948	2.035	52.623	1.62%	-1.28%
			2535	2.105	51.856	2.071	52.592	1.64%	-1.40%
			2550	2.127	51.809	2.092	52.573	1.67%	-1.45%
			2560	2.141	51.775	2.106	52.560	1.66%	-1.49%
			2600	2.197	51.621	2.163	52.509	1.57%	-1.69%
			2650	2.267	51.410	2.234	52.445	1.48%	-1.97%
			2680	2.309	51.304	2.277	52.407	1.41%	-2.10%
			2700	2.336	51.231	2.305	52.382	1.34%	-2.20%
04/14/2021	2450 Body	23.5	2300	1.855	53.491	1.809	52.900	2.54%	1.12%
			2310	1.867	53.465	1.816	52.887	2.81%	1.09%
			2320	1.879	53.442	1.826	52.873	2.90%	1.08%
			2400	1.971	53.208	1.902	52.767	3.63%	0.84%
			2450	2.032	53.084	1.950	52.700	4.21%	0.73%
			2480	2.066	53.011	1.993	52.662	3.66%	0.66%
			2500	2.089	52.949	2.021	52.636	3.36%	0.59%
			2510	2.101	52.913	2.035	52.623	3.24%	0.55%
			2535	2.133	52.835	2.071	52.592	2.99%	0.46%
			2550	2.152	52.799	2.092	52.573	2.87%	0.43%
			2560	2.165	52.781	2.106	52.560	2.80%	0.42%
			2600	2.211	52.694	2.163	52.509	2.22%	0.35%
			2650	2.272	52.538	2.234	52.445	1.70%	0.18%
			2680	2.310	52.467	2.277	52.407	1.45%	0.11%
			2700	2.335	52.418	2.305	52.382	1.30%	0.07%
04/15/2021	2450 Body	23.0	2300	1.796	52.399	1.809	52.900	-0.72%	-0.95%
			2310	1.811	52.391	1.816	52.887	-0.28%	-0.94%
			2320	1.825	52.376	1.826	52.873	-0.05%	-0.94%
			2400	1.925	52.018	1.902	52.767	1.21%	-1.42%
			2450	1.992	51.917	1.950	52.700	2.15%	-1.49%
			2480	2.025	51.740	1.993	52.662	1.61%	-1.75%
			2500	2.057	51.655	2.021	52.636	1.78%	-1.86%
			2510	2.074	51.636	2.035	52.623	1.92%	-1.88%
			2535	2.115	51.607	2.071	52.592	2.12%	-1.87%
			2550	2.134	51.568	2.092	52.573	2.01%	-1.91%
			2560	2.145	51.522	2.106	52.560	1.85%	-1.97%
			2600	2.195	51.286	2.163	52.509	1.48%	-2.33%
			2650	2.277	51.166	2.234	52.445	1.92%	-2.44%
			2680	2.309	51.044	2.277	52.407	1.41%	-2.60%
			2700	2.333	50.920	2.305	52.382	1.21%	-2.79%
04/18/2021	2450 Body	22.1	2300	1.870	52.860	1.809	52.900	3.37%	-0.08%
			2310	1.882	52.833	1.816	52.887	3.63%	-0.10%
			2320	1.894	52.805	1.826	52.873	3.72%	-0.13%
			2400	1.987	52.590	1.902	52.767	4.47%	-0.34%
			2450	2.047	52.449	1.950	52.700	4.97%	-0.48%
			2480	2.082	52.364	1.993	52.662	4.47%	-0.57%
			2500	2.106	52.300	2.021	52.636	4.21%	-0.64%
			2510	2.118	52.266	2.035	52.623	4.08%	-0.68%
			2535	2.148	52.184	2.071	52.592	3.72%	-0.78%
			2550	2.167	52.139	2.092	52.573	3.59%	-0.83%
			2560	2.179	52.112	2.106	52.560	3.47%	-0.85%
			2600	2.225	51.999	2.163	52.509	2.87%	-0.97%
			2650	2.284	51.840	2.234	52.445	2.24%	-1.15%
			2680	2.320	51.751	2.277	52.407	1.89%	-1.25%
			2700	2.344	51.694	2.305	52.382	1.69%	-1.31%
04/18/2021	2450 Body	23.5	2300	1.806	52.912	1.809	52.900	-0.17%	0.02%
			2310	1.820	52.877	1.816	52.887	0.22%	-0.02%
			2320	1.833	52.840	1.826	52.873	0.38%	-0.06%
			2400	1.940	52.531	1.902	52.767	2.00%	-0.45%
			2450	2.008	52.343	1.950	52.700	2.97%	-0.68%
			2480	2.048	52.224	1.993	52.662	2.76%	-0.83%
			2500	2.075	52.152	2.021	52.636	2.67%	-0.92%
			2510	2.089	52.117	2.035	52.623	2.65%	-0.96%
			2535	2.125	52.024	2.071	52.592	2.61%	-1.08%
			2550	2.146	51.970	2.092	52.573	2.58%	-1.15%
			2560	2.160	51.933	2.106	52.560	2.56%	-1.19%
			2600	2.215	51.788	2.163	52.509	2.40%	-1.37%
			2650	2.287	51.588	2.234	52.445	2.37%	-1.63%
			2680	2.330	51.486	2.277	52.407	2.33%	-1.76%
			2700	2.356	51.416	2.305	52.382	2.21%	-1.84%

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Table 10-8
Measured Body Tissue Properties Continued

Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ϵ	% dev σ	% dev ϵ
04/21/2021	2450 Body	24.3	2300	1.764	52.985	1.809	52.900	-2.49%	0.16%
			2310	1.777	52.952	1.816	52.887	-2.15%	0.12%
			2320	1.790	52.915	1.826	52.873	-1.97%	0.08%
			2400	1.887	52.594	1.902	52.767	-0.79%	-0.33%
			2450	1.951	52.448	1.950	52.700	0.05%	-0.48%
			2480	1.989	52.358	1.993	52.662	-0.20%	-0.58%
			2500	2.015	52.301	2.021	52.636	-0.30%	-0.64%
			2510	2.029	52.275	2.035	52.623	-0.29%	-0.66%
			2535	2.065	52.205	2.071	52.592	-0.29%	-0.74%
			2550	2.087	52.156	2.092	52.573	-0.24%	-0.79%
			2560	2.102	52.120	2.106	52.560	-0.19%	-0.84%
			2600	2.158	51.966	2.163	52.509	-0.23%	-1.03%
			2650	2.232	51.771	2.234	52.445	-0.09%	-1.29%
			2680	2.274	51.651	2.277	52.407	-0.13%	-1.44%
			2700	2.299	51.573	2.305	52.382	-0.26%	-1.54%
04/26/2021	2450 Body	23.8	2300	1.784	53.253	1.809	52.900	-1.38%	0.67%
			2310	1.797	53.216	1.816	52.887	-1.05%	0.62%
			2320	1.810	53.177	1.826	52.873	-0.88%	0.57%
			2400	1.917	52.910	1.902	52.767	0.79%	0.27%
			2450	1.985	52.709	1.950	52.700	1.79%	0.02%
			2480	2.028	52.615	1.993	52.662	1.76%	-0.09%
			2500	2.054	52.548	2.021	52.636	1.63%	-0.17%
			2510	2.067	52.509	2.035	52.623	1.57%	-0.22%
			2535	2.100	52.395	2.071	52.592	1.40%	-0.37%
			2550	2.123	52.334	2.092	52.573	1.48%	-0.45%
			2560	2.138	52.294	2.106	52.560	1.52%	-0.51%
			2600	2.192	52.172	2.163	52.509	1.34%	-0.64%
			2650	2.259	51.947	2.234	52.445	1.12%	-0.95%
			2680	2.305	51.846	2.277	52.407	1.23%	-1.07%
			2700	2.332	51.796	2.305	52.382	1.17%	-1.12%
05/03/2021	2450 Body	23.7	2300	1.761	53.134	1.809	52.900	-2.65%	0.44%
			2310	1.774	53.103	1.816	52.887	-2.31%	0.41%
			2320	1.786	53.070	1.826	52.873	-2.19%	0.37%
			2400	1.888	52.766	1.902	52.767	-0.74%	0.00%
			2450	1.954	52.617	1.950	52.700	0.21%	-0.16%
			2480	1.992	52.502	1.993	52.662	-0.05%	-0.30%
			2500	2.019	52.434	2.021	52.636	-0.10%	-0.38%
			2510	2.034	52.406	2.035	52.623	-0.05%	-0.41%
			2535	2.070	52.330	2.071	52.592	-0.05%	-0.50%
			2550	2.090	52.282	2.092	52.573	-0.10%	-0.55%
			2560	2.104	52.246	2.106	52.560	-0.09%	-0.60%
			2600	2.158	52.093	2.163	52.509	-0.23%	-0.79%
			2650	2.231	51.906	2.234	52.445	-0.13%	-1.03%
			2680	2.271	51.802	2.277	52.407	-0.26%	-1.15%
			2700	2.296	51.724	2.305	52.382	-0.39%	-1.26%
05/06/2021	2450 Body	24.4	2300	1.861	51.694	1.809	52.900	2.87%	-2.28%
			2310	1.872	51.658	1.816	52.887	3.08%	-2.32%
			2320	1.884	51.628	1.826	52.873	3.18%	-2.35%
			2400	1.976	51.410	1.902	52.767	3.89%	-2.57%
			2450	2.034	51.253	1.950	52.700	4.31%	-2.75%
			2480	2.071	51.180	1.993	52.662	3.91%	-2.81%
			2500	2.094	51.129	2.021	52.636	3.61%	-2.86%
			2510	2.105	51.097	2.035	52.623	3.44%	-2.90%
			2535	2.134	51.016	2.071	52.592	3.04%	-3.00%
			2550	2.153	50.971	2.092	52.573	2.92%	-3.05%
			2560	2.166	50.943	2.106	52.560	2.85%	-3.08%
			2600	2.214	50.846	2.163	52.509	2.36%	-3.17%
			2650	2.272	50.701	2.234	52.445	1.70%	-3.33%
			2680	2.310	50.611	2.277	52.407	1.45%	-3.43%
			2700	2.335	50.557	2.305	52.382	1.30%	-3.48%
04/26/2021	3600 Body	19.0	3300	3.021	49.996	3.080	51.593	-1.92%	-3.10%
			3350	3.081	49.899	3.139	51.525	-1.85%	-3.16%
			3450	3.199	49.701	3.256	51.389	-1.75%	-3.28%
			3500	3.256	49.623	3.314	51.321	-1.75%	-3.31%
			3550	3.318	49.540	3.372	51.254	-1.60%	-3.34%
			3560	3.330	49.522	3.384	51.240	-1.60%	-3.35%
			3600	3.378	49.445	3.431	51.186	-1.54%	-3.40%
			3650	3.440	49.348	3.489	51.118	-1.40%	-3.46%
			3690	3.488	49.283	3.536	51.063	-1.36%	-3.49%
			3700	3.502	49.264	3.548	51.050	-1.30%	-3.50%
			3750	3.564	49.168	3.606	50.982	-1.16%	-3.56%
			3900	3.757	48.866	3.781	50.779	-0.63%	-3.77%
			3930	3.799	48.827	3.816	50.738	-0.45%	-3.77%
			4100	4.033	48.495	4.015	50.507	0.45%	-3.98%
			4150	4.102	48.390	4.073	50.439	0.71%	-4.06%

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Table 10-9
Measured Body Tissue Properties Continued

Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ϵ	% dev σ	% dev ϵ
05/12/2021	3600 Body	18.6	3300	3.023	51.501	3.080	51.593	-1.85%	-0.18%
			3350	3.080	51.364	3.139	51.525	-1.88%	-0.31%
			3450	3.197	51.188	3.256	51.389	-1.81%	-0.39%
			3500	3.260	51.080	3.314	51.321	-1.63%	-0.47%
			3550	3.319	51.022	3.372	51.254	-1.57%	-0.45%
			3560	3.330	50.989	3.384	51.240	-1.60%	-0.49%
			3600	3.376	50.886	3.431	51.186	-1.60%	-0.59%
			3650	3.444	50.832	3.489	51.118	-1.29%	-0.56%
			3690	3.483	50.747	3.536	51.063	-1.50%	-0.62%
			3700	3.495	50.724	3.548	51.050	-1.49%	-0.64%
			3750	3.574	50.653	3.606	50.982	-0.89%	-0.65%
			3900	3.755	50.419	3.781	50.779	-0.69%	-0.71%
			3930	3.797	50.352	3.816	50.738	-0.50%	-0.76%
			4100	4.036	50.053	4.015	50.507	0.52%	-0.90%
			4150	4.107	49.959	4.073	50.439	0.83%	-0.95%
			3300	3.159	49.169	3.080	51.593	2.56%	-4.70%
			3350	3.206	49.096	3.139	51.525	2.13%	-4.71%
05/13/2021	3600 Body	23.5	3450	3.301	48.935	3.256	51.389	1.38%	-4.78%
			3500	3.348	48.876	3.314	51.321	1.03%	-4.76%
			3550	3.398	48.814	3.372	51.254	0.77%	-4.76%
			3560	3.407	48.801	3.384	51.240	0.68%	-4.76%
			3600	3.446	48.751	3.431	51.186	0.44%	-4.76%
			3650	3.497	48.692	3.489	51.118	0.23%	-4.75%
			3690	3.536	48.652	3.536	51.063	0.00%	-4.72%
			3700	3.545	48.634	3.548	51.050	-0.08%	-4.73%
			3750	3.598	48.580	3.606	50.982	-0.22%	-4.71%
			3900	3.755	48.432	3.781	50.779	-0.69%	-4.62%
			3930	3.791	48.421	3.816	50.738	-0.66%	-4.57%
			4100	3.984	48.205	4.015	50.507	-0.77%	-4.56%
			4150	4.038	48.137	4.073	50.439	-0.86%	-4.56%
			3300	3.029	51.877	3.080	51.593	-1.66%	0.55%
			3350	3.086	51.780	3.139	51.525	-1.69%	0.49%
			3450	3.206	51.586	3.256	51.389	-1.54%	0.38%
05/14/2021	3600 Body	18.5	3500	3.265	51.489	3.314	51.321	-1.48%	0.33%
			3550	3.329	51.392	3.372	51.254	-1.28%	0.27%
			3560	3.339	51.385	3.384	51.240	-1.33%	0.28%
			3600	3.391	51.292	3.431	51.186	-1.17%	0.21%
			3650	3.455	51.242	3.489	51.118	-0.97%	0.24%
			3690	3.501	51.138	3.536	51.063	-0.99%	0.15%
			3700	3.514	51.111	3.548	51.050	-0.96%	0.12%
			3750	3.587	51.024	3.606	50.982	-0.53%	0.08%
			3900	3.781	50.778	3.781	50.779	0.00%	0.00%
			3930	3.819	50.717	3.816	50.738	0.08%	-0.04%
			4100	4.063	50.388	4.015	50.507	1.20%	-0.24%
			4150	4.137	50.291	4.073	50.439	1.57%	-0.29%
			3300	3.034	51.244	3.080	51.593	-1.49%	-0.68%
			3350	3.088	51.132	3.139	51.525	-1.62%	-0.76%
			3450	3.207	50.946	3.256	51.389	-1.50%	-0.86%
			3500	3.264	50.823	3.314	51.321	-1.51%	-0.97%
06/03/2021	3600 Body	18.5	3550	3.328	50.762	3.372	51.254	-1.30%	-0.96%
			3560	3.336	50.744	3.384	51.240	-1.42%	-0.97%
			3600	3.381	50.633	3.431	51.186	-1.46%	-1.08%
			3650	3.452	50.550	3.489	51.118	-1.06%	-1.11%
			3690	3.490	50.475	3.536	51.063	-1.30%	-1.15%
			3700	3.504	50.460	3.548	51.050	-1.24%	-1.16%
			3750	3.580	50.405	3.606	50.982	-0.72%	-1.13%
			3900	3.766	50.117	3.781	50.779	-0.40%	-1.30%
			3930	3.807	50.045	3.816	50.738	-0.24%	-1.37%
			4100	4.041	49.746	4.015	50.507	0.65%	-1.51%
			4150	4.108	49.667	4.073	50.439	0.86%	-1.53%

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Table 10-10
Measured Body Tissue Properties Continued

Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ϵ	% dev σ	% dev ϵ
04/13/2021	5200-5800 Body	23.2	5180	5.306	47.886	5.276	49.041	0.57%	-2.36%
			5190	5.320	47.870	5.288	49.028	0.61%	-2.36%
			5200	5.333	47.860	5.299	49.014	0.64%	-2.35%
			5210	5.347	47.844	5.311	49.001	0.68%	-2.36%
			5220	5.359	47.820	5.323	48.987	0.68%	-2.39%
			5240	5.385	47.758	5.346	48.960	0.73%	-2.46%
			5250	5.396	47.734	5.358	48.947	0.71%	-2.48%
			5260	5.411	47.716	5.369	48.933	0.78%	-2.49%
			5270	5.428	47.700	5.381	48.919	0.87%	-2.49%
			5280	5.446	47.683	5.393	48.906	0.98%	-2.50%
			5290	5.461	47.668	5.404	48.892	1.05%	-2.50%
			5300	5.475	47.657	5.416	48.879	1.09%	-2.50%
			5310	5.490	47.645	5.428	48.865	1.14%	-2.50%
			5320	5.503	47.620	5.439	48.851	1.18%	-2.52%
			5500	5.752	47.278	5.650	48.607	1.81%	-2.73%
			5510	5.768	47.259	5.661	48.594	1.89%	-2.75%
			5520	5.787	47.237	5.673	48.580	2.01%	-2.76%
			5530	5.804	47.219	5.685	48.566	2.09%	-2.77%
			5540	5.818	47.203	5.696	48.553	2.14%	-2.78%
			5550	5.832	47.191	5.708	48.539	2.17%	-2.78%
			5560	5.846	47.181	5.720	48.526	2.20%	-2.77%
			5580	5.873	47.139	5.743	48.499	2.26%	-2.80%
			5600	5.899	47.085	5.766	48.471	2.31%	-2.86%
			5610	5.914	47.063	5.778	48.458	2.35%	-2.88%
			5620	5.930	47.044	5.790	48.444	2.42%	-2.89%
			5640	5.962	47.008	5.813	48.417	2.56%	-2.91%
			5660	5.992	46.988	5.837	48.390	2.66%	-2.90%
			5670	6.002	46.977	5.848	48.376	2.63%	-2.89%
			5680	6.013	46.961	5.860	48.363	2.61%	-2.90%
			5690	6.026	46.942	5.872	48.349	2.62%	-2.91%
			5700	6.039	46.917	5.883	48.336	2.65%	-2.94%
			5710	6.054	46.891	5.895	48.322	2.70%	-2.96%
			5720	6.068	46.865	5.907	48.309	2.73%	-2.99%
			5745	6.102	46.824	5.936	48.275	2.80%	-3.01%
			5750	6.110	46.812	5.942	48.268	2.83%	-3.02%
			5755	6.118	46.805	5.947	48.261	2.88%	-3.02%
			5765	6.132	46.792	5.959	48.248	2.90%	-3.02%
			5775	6.142	46.786	5.971	48.234	2.86%	-3.00%
			5785	6.154	46.773	5.982	48.220	2.88%	-3.00%
			5795	6.166	46.755	5.994	48.207	2.87%	-3.01%
			5800	6.172	46.740	6.000	48.200	2.87%	-3.03%
			5805	6.180	46.729	6.006	48.193	2.90%	-3.04%
			5825	6.201	46.690	6.029	48.166	2.85%	-3.06%
04/16/2021	5200-5800 Body	24.2	5180	5.019	47.125	5.276	49.041	-4.87%	-3.91%
			5190	5.030	47.113	5.288	49.028	-4.88%	-3.91%
			5200	5.043	47.107	5.299	49.014	-4.83%	-3.89%
			5210	5.056	47.089	5.311	49.001	-4.80%	-3.90%
			5220	5.071	47.057	5.323	48.987	-4.73%	-3.94%
			5240	5.097	47.002	5.346	48.960	-4.66%	-4.00%
			5250	5.107	46.982	5.358	48.947	-4.68%	-4.01%
			5260	5.120	46.966	5.369	48.933	-4.64%	-4.02%
			5270	5.134	46.956	5.381	48.919	-4.59%	-4.01%
			5280	5.148	46.942	5.393	48.906	-4.54%	-4.02%
			5290	5.163	46.925	5.404	48.892	-4.46%	-4.02%
			5300	5.176	46.904	5.416	48.879	-4.43%	-4.04%
			5310	5.189	46.904	5.428	48.865	-4.40%	-4.01%
			5320	5.202	46.898	5.439	48.851	-4.36%	-4.00%
			5500	5.441	46.572	5.650	48.607	-3.70%	-4.19%
			5510	5.458	46.549	5.661	48.594	-3.59%	-4.21%
			5520	5.477	46.532	5.673	48.580	-3.45%	-4.22%
			5530	5.492	46.519	5.685	48.566	-3.39%	-4.21%
			5540	5.506	46.506	5.696	48.553	-3.34%	-4.22%
			5550	5.519	46.496	5.708	48.539	-3.31%	-4.21%
			5560	5.533	46.486	5.720	48.526	-3.27%	-4.20%
			5580	5.559	46.455	5.743	48.499	-3.20%	-4.21%
			5600	5.585	46.416	5.766	48.471	-3.14%	-4.24%
			5610	5.601	46.397	5.778	48.458	-3.06%	-4.25%
			5620	5.615	46.381	5.790	48.444	-3.02%	-4.26%
			5640	5.639	46.355	5.813	48.417	-2.99%	-4.26%
			5660	5.668	46.330	5.837	48.390	-2.90%	-4.26%
			5670	5.680	46.322	5.848	48.376	-2.87%	-4.25%
			5680	5.687	46.315	5.860	48.363	-2.95%	-4.23%
			5690	5.699	46.301	5.872	48.349	-2.95%	-4.24%
			5700	5.713	46.281	5.883	48.336	-2.89%	-4.25%
			5710	5.730	46.262	5.895	48.322	-2.80%	-4.26%
			5720	5.743	46.245	5.907	48.309	-2.78%	-4.27%
			5745	5.775	46.204	5.936	48.275	-2.71%	-4.29%
			5750	5.781	46.200	5.942	48.268	-2.71%	-4.28%
			5755	5.786	46.199	5.947	48.261	-2.71%	-4.27%
			5765	5.794	46.190	5.959	48.248	-2.77%	-4.27%
			5775	5.801	46.181	5.971	48.234	-2.85%	-4.26%
			5785	5.813	46.166	5.982	48.220	-2.83%	-4.26%
			5795	5.829	46.158	5.994	48.207	-2.75%	-4.25%
			5800	5.838	46.156	6.000	48.200	-2.70%	-4.24%
			5805	5.845	46.147	6.006	48.193	-2.68%	-4.25%
			5825	5.865	46.113	6.029	48.166	-2.72%	-4.26%

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Table 10-11
Measured Body Tissue Properties Continued

Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ϵ	% dev σ	% dev ϵ
04/19/2021	5200-5800 Body	22.6	5180	5.280	50.077	5.276	49.041	0.08%	2.11%
			5190	5.294	50.067	5.288	49.028	0.11%	2.12%
			5200	5.311	50.034	5.299	49.014	0.23%	2.08%
			5210	5.327	50.012	5.311	49.001	0.30%	2.06%
			5220	5.341	49.996	5.323	48.987	0.34%	2.06%
			5240	5.367	49.954	5.346	48.960	0.39%	2.03%
			5250	5.382	49.929	5.358	48.947	0.45%	2.01%
			5260	5.399	49.919	5.369	48.933	0.56%	2.02%
			5270	5.412	49.905	5.381	48.919	0.58%	2.02%
			5280	5.428	49.891	5.393	48.906	0.65%	2.01%
			5290	5.442	49.873	5.404	48.892	0.70%	2.01%
			5300	5.455	49.857	5.416	48.879	0.72%	2.00%
			5310	5.469	49.843	5.428	48.865	0.76%	2.00%
			5320	5.482	49.821	5.439	48.851	0.79%	1.99%
			5500	5.737	49.482	5.650	48.607	1.54%	1.80%
			5510	5.754	49.468	5.661	48.594	1.64%	1.80%
			5520	5.771	49.450	5.673	48.580	1.73%	1.79%
			5530	5.786	49.429	5.685	48.566	1.78%	1.78%
			5540	5.800	49.407	5.696	48.553	1.83%	1.76%
			5550	5.815	49.389	5.708	48.539	1.87%	1.75%
			5560	5.831	49.374	5.720	48.526	1.94%	1.75%
			5580	5.861	49.334	5.743	48.499	2.05%	1.72%
			5600	5.892	49.295	5.766	48.471	2.19%	1.70%
			5610	5.907	49.279	5.778	48.458	2.23%	1.69%
			5620	5.920	49.260	5.790	48.444	2.25%	1.68%
			5640	5.947	49.225	5.813	48.417	2.31%	1.67%
			5660	5.978	49.192	5.837	48.390	2.42%	1.66%
			5670	5.993	49.178	5.848	48.376	2.48%	1.66%
			5680	6.007	49.163	5.860	48.363	2.51%	1.65%
			5690	6.022	49.149	5.872	48.349	2.55%	1.65%
			5700	6.035	49.126	5.883	48.336	2.58%	1.63%
			5710	6.049	49.099	5.895	48.322	2.61%	1.61%
			5720	6.066	49.077	5.907	48.309	2.69%	1.59%
			5745	6.106	49.037	5.936	48.275	2.86%	1.58%
			5750	6.112	49.029	5.942	48.268	2.86%	1.58%
			5755	6.118	49.022	5.947	48.261	2.88%	1.58%
			5765	6.129	49.012	5.959	48.248	2.85%	1.58%
			5775	6.142	49.007	5.971	48.234	2.86%	1.60%
			5785	6.156	48.990	5.982	48.220	2.91%	1.60%
			5795	6.171	48.964	5.994	48.207	2.95%	1.57%
			5800	6.181	48.953	6.000	48.200	3.02%	1.56%
			5805	6.188	48.940	6.006	48.193	3.03%	1.55%
			5825	6.219	48.907	6.029	48.166	3.15%	1.54%
05/03/2021	5200-5800 Body	21.0	5180	5.316	48.876	5.276	49.041	0.76%	-0.34%
			5190	5.332	48.837	5.288	49.028	0.83%	-0.39%
			5200	5.343	48.815	5.299	49.014	0.83%	-0.41%
			5210	5.355	48.798	5.311	49.001	0.83%	-0.41%
			5220	5.370	48.773	5.323	48.987	0.88%	-0.44%
			5240	5.406	48.723	5.346	48.960	1.12%	-0.48%
			5250	5.417	48.704	5.358	48.947	1.10%	-0.50%
			5260	5.432	48.692	5.369	48.933	1.17%	-0.49%
			5270	5.446	48.679	5.381	48.919	1.21%	-0.49%
			5280	5.462	48.662	5.393	48.906	1.28%	-0.50%
			5290	5.476	48.638	5.404	48.892	1.33%	-0.52%
			5300	5.488	48.617	5.416	48.879	1.33%	-0.54%
			5310	5.501	48.597	5.428	48.865	1.34%	-0.55%
			5320	5.514	48.575	5.439	48.851	1.38%	-0.56%
			5500	5.763	48.221	5.650	48.607	2.00%	-0.79%
			5510	5.780	48.205	5.661	48.594	2.10%	-0.80%
			5520	5.799	48.192	5.673	48.580	2.22%	-0.80%
			5530	5.819	48.168	5.685	48.566	2.36%	-0.82%
			5540	5.829	48.145	5.696	48.553	2.33%	-0.84%
			5550	5.840	48.130	5.708	48.539	2.31%	-0.84%
			5560	5.853	48.098	5.720	48.526	2.33%	-0.88%
			5580	5.876	48.046	5.743	48.499	2.32%	-0.93%
			5600	5.907	48.033	5.766	48.471	2.45%	-0.90%
			5610	5.928	48.010	5.778	48.458	2.60%	-0.92%
			5620	5.946	47.986	5.790	48.444	2.69%	-0.95%
			5640	5.973	47.929	5.813	48.417	2.75%	-1.01%
			5660	5.995	47.903	5.837	48.390	2.71%	-1.01%
			5670	6.014	47.893	5.848	48.376	2.84%	-1.00%
			5680	6.030	47.874	5.860	48.363	2.90%	-1.01%
			5690	6.046	47.846	5.872	48.349	2.96%	-1.04%
			5700	6.059	47.823	5.883	48.336	2.99%	-1.06%
			5710	6.070	47.813	5.895	48.322	2.97%	-1.05%
			5720	6.082	47.789	5.907	48.309	2.96%	-1.08%
			5745	6.122	47.730	5.936	48.275	3.13%	-1.13%
			5750	6.132	47.718	5.942	48.268	3.20%	-1.14%
			5755	6.142	47.710	5.947	48.261	3.28%	-1.14%
			5765	6.153	47.692	5.959	48.248	3.26%	-1.15%
			5775	6.166	47.686	5.971	48.234	3.27%	-1.14%
			5785	6.179	47.669	5.982	48.220	3.29%	-1.14%
			5795	6.195	47.653	5.994	48.207	3.35%	-1.15%
			5800	6.202	47.650	6.000	48.200	3.37%	-1.14%
			5805	6.210	47.638	6.006	48.193	3.40%	-1.15%
			5825	6.240	47.597	6.029	48.166	3.50%	-1.18%

The above measured tissue parameters were used in the DASY software. The DASY software was used to perform interpolation to determine the dielectric parameters at the SAR test device frequencies (per KDB Publication 865664 D01v01r04 and IEEE 1528-2013 6.6.1.2). The tissue parameters listed in the SAR test plots may slightly differ from the table above due to significant digit rounding in the software.

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10.2 Test System Verification

Prior to SAR assessment, the system is verified to $\pm 10\%$ of the SAR measurement on the reference dipole at the time of calibration by the calibration facility. Full system validation status and result summary can be found in Appendix D.

Table 10-12
System Verification Results – Head 1g

System Verification TARGET & MEASURED												
SAR System #	Tissue Frequency (MHz)	Tissue Type	Date	Amb. Temp (°C)	Liquid Temp (°C)	Input Power (W)	Source SN	Probe SN	Measured SAR _{1g} (W/kg)	1 W Target SAR _{1g} (W/kg)	1 W Normalized SAR _{1g} (W/kg)	Deviation _{1g} (%)
G	750	HEAD	05/20/2021	24.8	22.7	0.200	1003	7357	1.830	8.780	9.150	4.21%
G	750	HEAD	05/25/2021	23.8	23.0	0.200	1003	7357	1.660	8.780	8.300	-5.47%
G	750	HEAD	05/27/2021	24.4	23.0	0.200	1003	7357	1.720	8.780	8.600	-2.05%
P	835	HEAD	04/06/2021	22.9	20.8	0.200	4d133	7308	1.870	9.430	9.350	-0.85%
P	835	HEAD	05/27/2021	22.9	21.2	0.200	4d047	7308	1.840	9.420	9.200	-2.34%
P	835	HEAD	05/30/2021	22.0	21.8	0.200	4d047	7308	1.800	9.420	9.000	-4.46%
J	1750	HEAD	04/11/2021	22.1	22.3	0.100	1150	7526	3.650	36.500	36.500	0.00%
G	1750	HEAD	05/16/2021	22.0	21.4	0.100	1150	7357	3.510	36.500	35.100	-3.84%
G	1750	HEAD	05/18/2021	23.0	22.2	0.100	1150	7357	3.820	36.500	38.200	4.66%
E	1900	HEAD	04/06/2021	23.9	22.2	0.100	5d080	7571	4.240	39.800	42.400	6.53%
E	1900	HEAD	04/08/2021	24.9	23.3	0.100	5d080	7571	4.100	39.800	41.000	3.02%
E	1900	HEAD	05/03/2021	23.6	23.4	0.100	5d149	7571	4.170	39.300	41.700	6.11%
E	2300	HEAD	04/25/2021	23.1	23.0	0.100	1073	7571	4.920	49.200	49.200	0.00%
E	2450	HEAD	04/25/2021	23.1	23.0	0.100	719	7571	5.120	51.400	51.200	-0.39%
E	2600	HEAD	04/25/2021	23.1	23.0	0.100	1064	7571	5.910	58.100	59.100	1.72%
E	2300	HEAD	04/27/2021	23.3	24.0	0.100	1073	7571	4.990	49.200	49.900	1.42%
E	2450	HEAD	04/27/2021	23.3	24.0	0.100	719	7571	5.430	51.400	54.300	5.64%
J	2600	HEAD	04/28/2021	21.5	23.1	0.100	1064	7526	5.490	58.100	54.900	-5.51%
L	2450	HEAD	05/29/2021	21.9	20.8	0.100	719	7539	5.390	51.400	53.900	4.86%
L	3500	HEAD	04/28/2021	23.0	20.0	0.100	1097	7539	6.330	66.400	63.300	-4.67%
L	3700	HEAD	04/28/2021	23.0	20.0	0.100	1067	7539	7.060	67.200	70.600	5.06%
L	3500	HEAD	05/10/2021	22.0	20.0	0.100	1059	7539	6.390	63.700	63.900	0.31%
L	3700	HEAD	05/10/2021	22.0	20.0	0.100	1018	7539	6.810	67.000	68.100	1.64%
L	3900	HEAD	05/10/2021	22.0	20.0	0.100	1056	7539	7.170	68.900	71.700	4.06%
K	5250	HEAD	04/21/2021	24.0	22.7	0.050	1057	7538	3.680	79.700	73.600	-7.65%
K	5600	HEAD	04/21/2021	24.0	22.7	0.050	1057	7538	4.150	83.800	83.000	-0.95%
K	5750	HEAD	04/21/2021	24.0	22.7	0.050	1057	7538	3.780	80.100	75.600	-5.62%

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Table 10-13
System Verification Results – Body 1g

System Verification TARGET & MEASURED												
SAR System #	Tissue Frequency (MHz)	Tissue Type	Date	Amb. Temp (°C)	Liquid Temp (°C)	Input Power (W)	Source SN	Probe SN	Measured SAR _{1g} (W/kg)	1 W Target SAR _{1g} (W/kg)	1 W Normalized SAR _{1g} (W/kg)	Deviation _{1g} (%)
G	750	BODY	04/06/2021	24.8	22.7	0.200	1161	7406	1.790	8.430	8.950	6.17%
G	750	BODY	04/09/2021	24.5	23.0	0.200	1003	7406	1.820	8.610	9.100	5.69%
G	750	BODY	04/12/2021	24.2	22.9	0.200	1003	7406	1.820	8.610	9.100	5.69%
G	750	BODY	04/14/2021	22.8	24.5	0.200	1003	7406	1.790	8.610	8.950	3.95%
G	750	BODY	04/20/2021	23.8	22.3	0.200	1003	7406	1.830	8.610	9.150	6.27%
G	750	BODY	05/31/2021	23.8	23.0	0.200	1003	7357	1.740	8.610	8.700	1.05%
H	835	BODY	04/06/2021	22.8	23.0	0.200	4d133	7410	1.990	9.750	9.950	2.05%
H	835	BODY	04/08/2021	23.4	22.1	0.200	4d133	7410	2.020	9.750	10.100	3.59%
H	835	BODY	04/11/2021	22.0	22.0	0.200	4d133	7410	2.020	9.750	10.100	3.59%
H	835	BODY	04/13/2021	24.6	23.1	0.200	4d132	7410	2.070	9.810	10.350	5.50%
H	835	BODY	04/15/2021	23.0	23.2	0.200	4d133	7410	2.070	9.750	10.350	6.15%
H	835	BODY	04/17/2021	22.8	21.5	0.200	4d133	7410	2.010	9.750	10.050	3.08%
H	835	BODY	04/19/2021	22.0	21.9	0.200	4d133	7410	2.030	9.750	10.150	4.10%
H	835	BODY	04/21/2021	22.4	22.3	0.200	4d133	7410	2.020	9.750	10.100	3.59%
P	835	BODY	04/25/2021	18.4	20.0	0.200	4d047	7308	1.930	9.470	9.650	1.90%
P	835	BODY	05/25/2021	21.6	21.9	0.200	4d047	7308	1.910	9.470	9.550	0.84%
P	835	BODY	06/02/2021	23.1	22.2	0.200	4d047	7308	2.040	9.470	10.200	7.71%
P	835	BODY	06/06/2021	22.3	20.0	0.200	4d047	7308	1.960	9.470	9.800	3.48%
P	1750	BODY	04/08/2021	22.7	21.4	0.100	1148	7308	3.700	36.300	37.000	1.93%
I	1750	BODY	04/11/2021	22.0	22.0	0.100	1008	7551	3.840	37.400	38.400	2.67%
P	1750	BODY	04/11/2021	21.1	21.0	0.100	1008	7308	3.750	37.400	37.500	0.27%
I	1750	BODY	04/14/2021	22.5	22.9	0.100	1008	7551	3.760	37.400	37.600	0.53%
I	1750	BODY	04/19/2021	21.5	22.0	0.100	1008	7551	3.840	37.400	38.400	2.67%
I	1750	BODY	04/21/2021	24.0	22.5	0.100	1150	7551	3.790	36.600	37.900	3.55%
E	1750	BODY	05/10/2021	22.7	22.9	0.100	1150	7571	3.730	36.600	37.300	1.91%
H	1750	BODY	05/20/2021	24.0	21.9	0.100	1150	7410	3.800	36.600	38.000	3.83%
D	1900	BODY	04/06/2021	22.7	22.4	0.100	5d080	3589	4.130	39.200	41.300	5.36%
D	1900	BODY	04/11/2021	23.6	22.6	0.100	5d080	3589	4.110	39.200	41.100	4.85%
D	1900	BODY	04/14/2021	23.7	21.9	0.100	5d080	3589	4.120	39.200	41.200	5.10%
D	1900	BODY	04/19/2021	23.3	22.3	0.100	5d080	3589	4.170	39.200	41.700	6.38%
D	1900	BODY	04/21/2021	23.4	22.6	0.100	5d080	3589	4.150	39.200	41.500	5.87%
D	1900	BODY	04/28/2021	23.4	22.3	0.100	5d080	3589	3.970	39.200	39.700	1.28%
D	1900	BODY	05/02/2021	22.0	22.5	0.100	5d080	3589	4.090	39.200	40.900	4.34%
D	1900	BODY	06/09/2021	23.7	22.1	0.100	5d080	3589	3.750	39.200	37.500	-4.34%

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Table 10-14
System Verification Results – Body 1g continued

System Verification TARGET & MEASURED												
SAR System #	Tissue Frequency (MHz)	Tissue Type	Date	Amb. Temp (°C)	Liquid Temp (°C)	Input Power (W)	Source SN	Probe SN	Measured SAR _{1g} (W/kg)	1 W Target SAR _{1g} (W/kg)	1 W Normalized SAR _{1g} (W/kg)	Deviation _{1g} (%)
K	2300	BODY	04/11/2021	24.0	22.3	0.100	1073	7538	4.920	47.700	49.200	3.14%
L	2450	BODY	04/12/2021	21.7	23.2	0.100	797	7539	5.130	49.400	51.300	3.85%
L	2600	BODY	04/12/2021	21.7	23.2	0.100	1064	7539	5.390	55.600	53.900	-3.06%
K	2450	BODY	04/14/2021	23.4	22.6	0.100	719	7538	5.300	50.700	53.000	4.54%
L	2450	BODY	04/15/2021	20.5	22.0	0.100	981	7539	4.980	50.100	49.800	-0.60%
L	2600	BODY	04/15/2021	20.5	22.0	0.100	1071	7539	5.540	54.300	55.400	2.03%
K	2300	BODY	04/18/2021	24.0	22.1	0.100	1073	7538	4.730	47.700	47.300	-0.84%
L	2600	BODY	04/18/2021	22.9	22.3	0.100	1071	7539	5.300	54.300	53.000	-2.39%
L	2450	BODY	04/21/2021	24.1	24.5	0.100	981	7539	5.030	50.100	50.300	0.40%
L	2600	BODY	04/21/2021	24.1	24.5	0.100	1071	7539	5.340	54.300	53.400	-1.66%
L	2300	BODY	04/26/2021	23.5	23.6	0.100	1073	7539	4.900	47.700	49.000	2.73%
L	2600	BODY	05/03/2021	21.3	23.7	0.100	1071	7539	5.450	54.300	54.500	0.37%
I	3500	BODY	04/26/2021	21.0	20.0	0.100	1059	7551	6.670	63.000	66.700	5.87%
I	3700	BODY	04/26/2021	21.0	20.0	0.100	1018	7551	6.680	63.500	66.800	5.20%
L	3500	BODY	05/12/2021	20.9	19.6	0.100	1097	7539	6.510	64.200	65.100	1.40%
I	3700	BODY	05/13/2021	22.0	22.0	0.100	1067	7551	6.890	65.200	68.900	5.67%
I	3900	BODY	05/13/2021	22.0	22.0	0.100	1056	7551	6.840	66.300	68.400	3.17%
L	3500	BODY	05/14/2021	22.3	19.8	0.100	1097	7539	6.130	64.200	61.300	-4.52%
L	3700	BODY	06/03/2021	23.0	20.4	0.100	1067	7539	6.670	65.200	66.700	2.30%
L	3900	BODY	06/03/2021	23.0	20.4	0.100	1056	7539	6.680	66.300	66.800	0.75%
J	5250	BODY	04/13/2021	21.5	21.2	0.050	1191	7526	3.690	74.600	73.800	-1.07%
J	5600	BODY	04/13/2021	21.5	21.2	0.050	1191	7526	3.730	78.100	74.600	-4.48%
J	5750	BODY	04/13/2021	21.5	21.2	0.050	1191	7526	3.530	74.900	70.600	-5.74%
J	5250	BODY	04/16/2021	20.9	22.2	0.050	1191	7526	3.470	74.600	69.400	-6.97%
J	5600	BODY	04/16/2021	20.9	22.2	0.050	1191	7526	3.790	78.100	75.800	-2.94%
J	5750	BODY	04/16/2021	20.9	22.2	0.050	1191	7526	3.770	74.900	75.400	0.67%
J	5250	BODY	04/19/2021	21.9	22.6	0.050	1057	7526	3.830	74.300	76.600	3.10%
J	5600	BODY	04/19/2021	21.9	22.6	0.050	1057	7526	4.040	77.400	80.800	4.39%
J	5750	BODY	04/19/2021	21.9	22.6	0.050	1057	7526	3.770	72.800	75.400	3.57%

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Table 10-15
System Verification Results – 10g

System Verification TARGET & MEASURED												
SAR System #	Tissue Frequency (MHz)	Tissue Type	Date	Amb. Temp (°C)	Liquid Temp (°C)	Input Power (W)	Source SN	Probe SN	Measured SAR _{10g} (W/kg)	1 W Target SAR _{10g} (W/kg)	1 W Normalized SAR _{10g} (W/kg)	Deviation _{10g} (%)
G	750	BODY	04/20/2021	23.8	22.3	0.200	1003	7406	1.190	5.670	5.950	4.94%
G	750	BODY	04/22/2021	23.8	22.4	0.200	1003	7406	1.190	5.670	5.950	4.94%
H	835	BODY	04/08/2021	23.4	22.1	0.200	4d133	7410	1.340	6.400	6.700	4.69%
H	835	BODY	04/13/2021	24.6	23.1	0.200	4d132	7410	1.370	6.440	6.850	6.37%
H	835	BODY	04/15/2021	23.0	23.2	0.200	4d133	7410	1.370	6.400	6.850	7.03%
H	835	BODY	04/19/2021	22.0	21.9	0.200	4d133	7410	1.340	6.400	6.700	4.69%
P	835	BODY	04/25/2021	18.4	20.0	0.200	4d047	7308	1.270	6.270	6.350	1.28%
P	1750	BODY	04/08/2021	22.7	21.4	0.100	1148	7308	1.940	19.300	19.400	0.52%
P	1750	BODY	04/11/2021	21.1	21.0	0.100	1008	7308	1.950	19.900	19.500	-2.01%
I	1750	BODY	04/14/2021	22.5	22.9	0.100	1008	7551	1.980	19.900	19.800	-0.50%
E	1750	BODY	05/05/2021	24.7	23.9	0.100	1150	7571	2.060	19.400	20.600	6.19%
E	1750	BODY	05/10/2021	22.7	22.9	0.100	1150	7571	1.960	19.400	19.600	1.03%
E	1750	BODY	05/15/2021	22.3	23.0	0.100	1150	7571	1.950	19.400	19.500	0.52%
D	1900	BODY	04/09/2021	23.6	22.3	0.100	5d080	3589	2.130	20.600	21.300	3.40%
D	1900	BODY	04/11/2021	23.6	22.6	0.100	5d080	3589	2.120	20.600	21.200	2.91%
D	1900	BODY	04/14/2021	23.7	21.9	0.100	5d080	3589	2.120	20.600	21.200	2.91%
D	1900	BODY	04/21/2021	23.4	22.6	0.100	5d080	3589	2.140	20.600	21.400	3.88%
D	1900	BODY	04/26/2021	23.3	21.9	0.100	5d080	3589	2.160	20.600	21.600	4.85%
D	1900	BODY	05/02/2021	22.0	22.5	0.100	5d080	3589	2.100	20.600	21.000	1.94%
K	2300	BODY	04/11/2021	24.0	22.3	0.100	1073	7538	2.340	23.200	23.400	0.86%
L	2450	BODY	04/12/2021	21.7	23.2	0.100	797	7539	2.370	23.400	23.700	1.28%
L	2600	BODY	04/12/2021	21.7	23.2	0.100	1064	7539	2.380	25.000	23.800	-4.80%
K	2450	BODY	04/14/2021	23.4	22.6	0.100	719	7538	2.440	23.900	24.400	2.09%
L	2450	BODY	04/21/2021	24.1	24.5	0.100	981	7539	2.350	23.700	23.500	-0.84%
L	2600	BODY	04/21/2021	24.1	24.5	0.100	1071	7539	2.390	24.100	23.900	-0.83%
L	2300	BODY	04/26/2021	23.5	23.6	0.100	1073	7539	2.360	23.200	23.600	1.72%
L	2450	BODY	05/03/2021	21.3	23.7	0.100	981	7539	2.350	23.700	23.500	-0.84%
K	2450	BODY	05/06/2021	22.6	22.4	0.100	719	7538	2.380	23.900	23.800	-0.42%

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Table 10-16
System Verification Results – 10g continued

System Verification TARGET & MEASURED												
SAR System #	Tissue Frequency (MHz)	Tissue Type	Date	Amb. Temp (°C)	Liquid Temp (°C)	Input Power (W)	Source SN	Probe SN	Measured SAR _{10g} (W/kg)	1 W Target SAR _{10g} (W/kg)	1 W Normalized SAR _{10g} (W/kg)	Deviation _{10g} (%)
I	3500	BODY	04/26/2021	21.0	20.0	0.100	1059	7551	2.530	23.300	25.300	8.58%
I	3700	BODY	04/26/2021	21.0	20.0	0.100	1018	7551	2.460	22.500	24.600	9.33%
I	3700	BODY	05/13/2021	22.0	22.0	0.100	1067	7551	2.470	23.300	24.700	6.01%
I	3900	BODY	05/13/2021	22.0	22.0	0.100	1056	7551	2.320	23.000	23.200	0.87%
L	3500	BODY	05/14/2021	22.3	19.8	0.100	1097	7539	2.310	23.800	23.100	-2.94%
L	3700	BODY	06/03/2021	23.0	20.4	0.100	1067	7539	2.440	23.300	24.400	4.72%
L	3900	BODY	06/03/2021	23.0	20.4	0.100	1056	7539	2.340	23.000	23.400	1.74%
J	5250	BODY	04/19/2021	21.9	22.6	0.050	1057	7526	1.070	20.700	21.400	3.38%
J	5600	BODY	04/19/2021	21.9	22.6	0.050	1057	7526	1.110	21.400	22.200	3.74%
J	5750	BODY	04/19/2021	21.9	22.6	0.050	1057	7526	1.050	20.000	21.000	5.00%
J	5250	BODY	05/03/2021	20.0	21.0	0.050	1191	7526	1.040	21.000	20.800	-0.95%
J	5600	BODY	05/03/2021	20.0	21.0	0.050	1191	7526	1.030	21.700	20.600	-5.07%
J	5750	BODY	05/03/2021	20.0	21.0	0.050	1191	7526	0.993	20.800	19.860	-4.52%

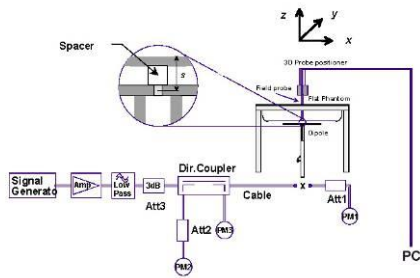


Figure 10-1
System Verification Setup Diagram



Figure 10-2
System Verification Setup Photo

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11 SAR DATA SUMMARY

11.1 Standalone Head SAR Data

Table 11-1
CDMA BC10 (§90S) Head SAR

MEASUREMENT RESULTS																
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Tune State	Power Drift [dB]	Side	Test Position	Antenna Config.	Device Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.												(W/kg)		(W/kg)	
820.10	564	CDMA BC10 (§90S)	RC3 / SO55	26.0	24.27	9	-0.02	Right	Cheek	A	1940S	1:1	0.111	1.489	0.165	A1
820.10	564	CDMA BC10 (§90S)	RC3 / SO55	26.0	24.27	9	0.08	Right	Tilt	A	1940S	1:1	0.039	1.489	0.058	
820.10	564	CDMA BC10 (§90S)	RC3 / SO55	26.0	24.27	9	0.05	Left	Cheek	A	1940S	1:1	0.086	1.489	0.128	
820.10	564	CDMA BC10 (§90S)	RC3 / SO55	26.0	24.27	9	0.06	Left	Tilt	A	1940S	1:1	0.049	1.489	0.073	
820.10	564	CDMA BC10 (§90S)	EVDO Rev. A	26.0	24.09	9	0.09	Right	Cheek	A	1940S	1:1	0.096	1.552	0.149	
820.10	564	CDMA BC10 (§90S)	EVDO Rev. A	26.0	24.09	9	0.02	Right	Tilt	A	1940S	1:1	0.034	1.552	0.053	
820.10	564	CDMA BC10 (§90S)	EVDO Rev. A	26.0	24.09	9	0.04	Left	Cheek	A	1940S	1:1	0.079	1.552	0.123	
820.10	564	CDMA BC10 (§90S)	EVDO Rev. A	26.0	24.09	9	0.10	Left	Tilt	A	1940S	1:1	0.041	1.552	0.064	
820.10	564	CDMA BC10 (§90S)	RC3 / SO55	26.0	24.27	108	0.11	Right	Cheek	A + B	1935S	1:1	0.073	1.489	0.109	
820.10	564	CDMA BC10 (§90S)	RC3 / SO55	26.0	24.27	108	0.03	Right	Tilt	A + B	1935S	1:1	0.032	1.489	0.048	
820.10	564	CDMA BC10 (§90S)	RC3 / SO55	26.0	24.27	108	0.02	Left	Cheek	A + B	1935S	1:1	0.069	1.489	0.103	
820.10	564	CDMA BC10 (§90S)	RC3 / SO55	26.0	24.27	108	0.05	Left	Tilt	A + B	1935S	1:1	0.036	1.489	0.054	
820.10	564	CDMA BC10 (§90S)	EVDO Rev. A	26.0	24.09	108	0.09	Right	Cheek	A + B	1935S	1:1	0.073	1.552	0.113	
820.10	564	CDMA BC10 (§90S)	EVDO Rev. A	26.0	24.09	108	0.06	Right	Tilt	A + B	1935S	1:1	0.029	1.552	0.045	
820.10	564	CDMA BC10 (§90S)	EVDO Rev. A	26.0	24.09	108	0.04	Left	Cheek	A + B	1935S	1:1	0.068	1.552	0.106	
820.10	564	CDMA BC10 (§90S)	EVDO Rev. A	26.0	24.09	108	0.04	Left	Tilt	A + B	1935S	1:1	0.035	1.552	0.054	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT								Head 1.6 W/kg (mW/g) averaged over 1 gram								
Spatial Peak Uncontrolled Exposure/General Population																

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Table 11-2
CDMA BC0 (\$22H) Head SAR

MEASUREMENT RESULTS																
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Tune State	Power Drift [dB]	Side	Test Position	Antenna Config.	Device Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.												(W/kg)		(W/kg)	
836.52	384	CDMA BC0 (S22H)	RC3 / SO55	26.0	24.29	9	0.12	Right	Cheek	A	1940S	1:1	0.124	1.483	0.184	A2
836.52	384	CDMA BC0 (S22H)	RC3 / SO55	26.0	24.29	9	0.11	Right	Tilt	A	1940S	1:1	0.048	1.483	0.071	
836.52	384	CDMA BC0 (S22H)	RC3 / SO55	26.0	24.29	9	0.03	Left	Cheek	A	1940S	1:1	0.088	1.483	0.131	
836.52	384	CDMA BC0 (S22H)	RC3 / SO55	26.0	24.29	9	0.03	Left	Tilt	A	1940S	1:1	0.067	1.483	0.099	
836.52	384	CDMA BC0 (S22H)	EVDO Rev. A	26.0	24.04	9	0.07	Right	Cheek	A	1940S	1:1	0.097	1.570	0.152	
836.52	384	CDMA BC0 (S22H)	EVDO Rev. A	26.0	24.04	9	0.02	Right	Tilt	A	1940S	1:1	0.038	1.570	0.060	
836.52	384	CDMA BC0 (S22H)	EVDO Rev. A	26.0	24.04	9	0.13	Left	Cheek	A	1940S	1:1	0.076	1.570	0.119	
836.52	384	CDMA BC0 (S22H)	EVDO Rev. A	26.0	24.04	9	0.12	Left	Tilt	A	1940S	1:1	0.053	1.570	0.083	
836.52	384	CDMA BC0 (S22H)	RC3 / SO55	26.0	24.29	108	0.13	Right	Cheek	A + B	1935S	1:1	0.081	1.483	0.120	
836.52	384	CDMA BC0 (S22H)	RC3 / SO55	26.0	24.29	108	0.03	Right	Tilt	A + B	1935S	1:1	0.032	1.483	0.047	
836.52	384	CDMA BC0 (S22H)	RC3 / SO55	26.0	24.29	108	0.04	Left	Cheek	A + B	1935S	1:1	0.067	1.483	0.099	
836.52	384	CDMA BC0 (S22H)	RC3 / SO55	26.0	24.29	108	0.03	Left	Tilt	A + B	1935S	1:1	0.038	1.483	0.056	
836.52	384	CDMA BC0 (S22H)	EVDO Rev. A	26.0	24.04	108	0.02	Right	Cheek	A + B	1935S	1:1	0.078	1.570	0.122	
836.52	384	CDMA BC0 (S22H)	EVDO Rev. A	26.0	24.04	108	0.06	Right	Tilt	A + B	1935S	1:1	0.026	1.570	0.041	
836.52	384	CDMA BC0 (S22H)	EVDO Rev. A	26.0	24.04	108	0.05	Left	Cheek	A + B	1935S	1:1	0.065	1.570	0.102	
836.52	384	CDMA BC0 (S22H)	EVDO Rev. A	26.0	24.04	108	0.02	Left	Tilt	A + B	1935S	1:1	0.033	1.570	0.052	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT																
Spatial Peak									Head							
Uncontrolled Exposure/General Population									1.6 W/kg (mW/g) averaged over 1 gram							

Table 11-3
PCS CDMA Head SAR

MEASUREMENT RESULTS															
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Side	Test Position	Antenna Config.	Device Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.											(W/kg)		(W/kg)	
1851.25	25	PCS CDMA	RC3 / SO55	24.0	23.35	0.11	Right	Cheek	B	1930S	1:1	0.088	1.161	0.102	A3
1851.25	25	PCS CDMA	RC3 / SO55	24.0	23.35	0.10	Right	Tilt	B	1930S	1:1	0.072	1.161	0.084	
1851.25	25	PCS CDMA	RC3 / SO55	24.0	23.35	0.19	Left	Cheek	B	1930S	1:1	0.075	1.161	0.087	
1851.25	25	PCS CDMA	RC3 / SO55	24.0	23.35	-0.05	Left	Tilt	B	1930S	1:1	0.072	1.161	0.084	
1851.25	25	PCS CDMA	EVDO Rev. A	24.0	23.21	0.11	Right	Cheek	B	1930S	1:1	0.080	1.199	0.096	
1851.25	25	PCS CDMA	EVDO Rev. A	24.0	23.21	0.04	Right	Tilt	B	1930S	1:1	0.087	1.199	0.104	
1851.25	25	PCS CDMA	EVDO Rev. A	24.0	23.21	0.09	Left	Cheek	B	1930S	1:1	0.081	1.199	0.097	
1851.25	25	PCS CDMA	EVDO Rev. A	24.0	23.21	0.03	Left	Tilt	B	1930S	1:1	0.084	1.199	0.101	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population									Head 1.6 W/kg (mW/g) averaged over 1 gram						

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Table 11-4
GSM 850 Head SAR

MEASUREMENT RESULTS															
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Side	Test Position	Antenna Config.	Device Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.											(W/kg)		(W/kg)	
836.60	190	GSM 850	GSM	33.5	31.65	-0.04	Right	Cheek	A	1940S	1:8.3	0.078	1.531	0.119	A4
836.60	190	GSM 850	GSM	33.5	31.65	-0.01	Right	Tilt	A	1940S	1:8.3	0.026	1.531	0.040	
836.60	190	GSM 850	GSM	33.5	31.65	0.01	Left	Cheek	A	1940S	1:8.3	0.069	1.531	0.106	
836.60	190	GSM 850	GSM	33.5	31.65	0.04	Left	Tilt	A	1940S	1:8.3	0.027	1.531	0.041	
836.60	190	GSM 850	GSM	33.5	31.65	0.00	Right	Cheek	A + B	1940S	1:8.3	0.064	1.531	0.098	
836.60	190	GSM 850	GSM	33.5	31.65	0.05	Right	Tilt	A + B	1940S	1:8.3	0.020	1.531	0.031	
836.60	190	GSM 850	GSM	33.5	31.65	-0.01	Left	Cheek	A + B	1940S	1:8.3	0.046	1.531	0.070	
836.60	190	GSM 850	GSM	33.5	31.65	0.06	Left	Tilt	A + B	1940S	1:8.3	0.018	1.531	0.028	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							Head 1.6 W/kg (mW/g) averaged over 1 gram								

Table 11-5
GSM 1900 Head SAR

MEASUREMENT RESULTS															
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Side	Test Position	Antenna Config.	Device Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.											(W/kg)		(W/kg)	
1880.00	661	GSM 1900	GSM	30.2	28.35	0.10	Right	Cheek	B	1930S	1:8.3	0.035	1.531	0.054	A5
1880.00	661	GSM 1900	GSM	30.2	28.35	0.13	Right	Tilt	B	1930S	1:8.3	0.033	1.531	0.051	
1880.00	661	GSM 1900	GSM	30.2	28.35	0.03	Left	Cheek	B	1930S	1:8.3	0.033	1.531	0.051	
1880.00	661	GSM 1900	GSM	30.2	28.35	0.10	Left	Tilt	B	1930S	1:8.3	0.026	1.531	0.040	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population								Head 1.6 W/kg (mW/g) averaged over 1 gram							

Table 11-6
UMTS 850 Head SAR

MEASUREMENT RESULTS																
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Tune State	Power Drift [dB]	Side	Test Position	Antenna Config.	Device Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.												(W/kg)		(W/kg)	
836.60	4183	UMTS 850	RMC	25.8	24.48	0	0.13	Right	Cheek	A	1940S	1:1	0.113	1.355	0.153	A6
836.60	4183	UMTS 850	RMC	25.8	24.48	0	0.04	Right	Tilt	A	1940S	1:1	0.039	1.355	0.053	
836.60	4183	UMTS 850	RMC	25.8	24.48	0	0.04	Left	Cheek	A	1940S	1:1	0.080	1.355	0.108	
836.60	4183	UMTS 850	RMC	25.8	24.48	0	0.06	Left	Tilt	A	1940S	1:1	0.044	1.355	0.060	
836.60	4183	UMTS 850	RMC	25.8	24.48	108	-0.03	Right	Cheek	A + B	1935S	1:1	0.080	1.355	0.108	
836.60	4183	UMTS 850	RMC	25.8	24.48	108	0.05	Right	Tilt	A + B	1935S	1:1	0.031	1.355	0.042	
836.60	4183	UMTS 850	RMC	25.8	24.48	108	0.03	Left	Cheek	A + B	1935S	1:1	0.063	1.355	0.085	
836.60	4183	UMTS 850	RMC	25.8	24.48	108	-0.16	Left	Tilt	A + B	1935S	1:1	0.018	1.355	0.024	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT																
Spatial Peak								Head								
Uncontrolled Exposure/General Population								1.6 W/kg (mW/g)								
								averaged over 1 gram								

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Table 11-7
UMTS 1750 Head SAR

MEASUREMENT RESULTS															
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Side	Test Position	Antenna Config.	Device Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.											(W/kg)		(W/kg)	
1732.40	1412	UMTS 1750	RMC	25.0	24.35	0.03	Right	Cheek	B	1925S	1:1	0.055	1.161	0.064	A7
1732.40	1412	UMTS 1750	RMC	25.0	24.35	0.00	Right	Tilt	B	1925S	1:1	0.065	1.161	0.075	
1732.40	1412	UMTS 1750	RMC	25.0	24.35	0.08	Left	Cheek	B	1925S	1:1	0.051	1.161	0.059	
1732.40	1412	UMTS 1750	RMC	25.0	24.35	0.03	Left	Tilt	B	1925S	1:1	0.055	1.161	0.064	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population								Head 1.6 W/kg (mW/g) averaged over 1 gram							

Table 11-8
UMTS 1900 Head SAR

MEASUREMENT RESULTS															
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Side	Test Position	Antenna Config.	Device Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.											(W/kg)		(W/kg)	
1880.00	9400	UMTS 1900	RMC	25.0	24.04	-0.02	Right	Cheek	B	1930S	1:1	0.056	1.247	0.070	
1880.00	9400	UMTS 1900	RMC	25.0	24.04	0.07	Right	Tilt	B	1930S	1:1	0.085	1.247	0.106	A8
1880.00	9400	UMTS 1900	RMC	25.0	24.04	0.12	Left	Cheek	B	1930S	1:1	0.071	1.247	0.089	
1880.00	9400	UMTS 1900	RMC	25.0	24.04	0.02	Left	Tilt	B	1930S	1:1	0.065	1.247	0.081	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							Head 1.6 W/kg (mW/g) averaged over 1 gram								

Table 11-9
LTE Band 71 Head SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Tune State	Power Drift [dB]	MPR [dB]	Side	Test Position	Antenna Config.	Modulation	RB Size	RB Offset	Device Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.																(W/kg)		(W/kg)		
680.50	133297	Mid	LTE Band 71	20	25.8	25.31	117	-0.04	0	Right	Cheek	A + B	QPSK	1	0	1955S	1:1	0.088	1.119	0.098	A9
680.50	133297	Mid	LTE Band 71	20	24.8	24.31	117	0.05	1	Right	Cheek	A + B	QPSK	50	25	1955S	1:1	0.068	1.119	0.076	
680.50	133297	Mid	LTE Band 71	20	25.8	25.31	117	0.02	0	Right	Tilt	A + B	QPSK	1	0	1955S	1:1	0.041	1.119	0.046	
680.50	133297	Mid	LTE Band 71	20	24.8	24.31	117	-0.04	1	Right	Tilt	A + B	QPSK	50	25	1955S	1:1	0.036	1.119	0.040	
680.50	133297	Mid	LTE Band 71	20	25.8	25.31	18	0.00	0	Left	Cheek	A + B	QPSK	1	0	1955S	1:1	0.078	1.119	0.087	
680.50	133297	Mid	LTE Band 71	20	24.8	24.31	18	0.14	1	Left	Cheek	A + B	QPSK	50	25	1955S	1:1	0.054	1.119	0.060	
680.50	133297	Mid	LTE Band 71	20	25.8	25.31	18	0.03	0	Left	Tilt	A + B	QPSK	1	0	1955S	1:1	0.039	1.119	0.044	
680.50	133297	Mid	LTE Band 71	20	24.8	24.31	18	0.04	1	Left	Tilt	A + B	QPSK	50	25	1955S	1:1	0.027	1.119	0.030	
680.50	133297	Mid	LTE Band 71	20	25.8	25.31	0	0.02	0	Right	Cheek	A	QPSK	1	0	1955S	1:1	0.055	1.119	0.062	
680.50	133297	Mid	LTE Band 71	20	24.8	24.31	0	0.01	1	Right	Cheek	A	QPSK	50	25	1955S	1:1	0.051	1.119	0.057	
680.50	133297	Mid	LTE Band 71	20	25.8	25.31	120	0.02	0	Right	Tilt	A	QPSK	1	0	1955S	1:1	0.030	1.119	0.034	
680.50	133297	Mid	LTE Band 71	20	24.8	24.31	120	0.02	1	Right	Tilt	A	QPSK	50	25	1955S	1:1	0.024	1.119	0.027	
680.50	133297	Mid	LTE Band 71	20	25.8	25.31	10	0.11	0	Left	Cheek	A	QPSK	1	0	1955S	1:1	0.062	1.119	0.069	
680.50	133297	Mid	LTE Band 71	20	24.8	24.31	10	0.17	1	Left	Cheek	A	QPSK	50	25	1955S	1:1	0.055	1.119	0.062	
680.50	133297	Mid	LTE Band 71	20	25.8	25.31	10	0.00	0	Left	Tilt	A	QPSK	1	0	1955S	1:1	0.037	1.119	0.041	
680.50	133297	Mid	LTE Band 71	20	24.8	24.31	10	0.05	1	Left	Tilt	A	QPSK	50	25	1955S	1:1	0.027	1.119	0.030	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population										Head 1.6 W/kg (mW/g) averaged over 1 gram											

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Table 11-10
LTE Band 12 Head SAR

MEASUREMENT RESULTS																					
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Tune State	Power Drift [dB]	MPR [dB]	Side	Test Position	Antenna Config.	Modulation	RB Size	RB Offset	Device Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.																	(W/kg)		(W/kg)	
707.50	23095	Mid	LTE Band 12	10	25.8	24.48	0	-0.13	0	Right	Cheek	A + B	QPSK	1	25	1955S	1:1	0.109	1.355	0.148	A10
707.50	23095	Mid	LTE Band 12	10	24.8	23.61	0	-0.02	1	Right	Cheek	A + B	QPSK	25	12	1955S	1:1	0.097	1.315	0.128	
707.50	23095	Mid	LTE Band 12	10	25.8	24.48	0	-0.12	0	Right	Tilt	A + B	QPSK	1	25	1955S	1:1	0.061	1.355	0.083	
707.50	23095	Mid	LTE Band 12	10	24.8	23.61	0	0.00	1	Right	Tilt	A + B	QPSK	25	12	1955S	1:1	0.049	1.315	0.064	
707.50	23095	Mid	LTE Band 12	10	25.8	24.48	108	0.00	0	Left	Cheek	A + B	QPSK	1	25	1955S	1:1	0.101	1.355	0.137	
707.50	23095	Mid	LTE Band 12	10	24.8	23.61	108	0.07	1	Left	Cheek	A + B	QPSK	25	12	1955S	1:1	0.080	1.315	0.105	
707.50	23095	Mid	LTE Band 12	10	25.8	24.48	108	0.05	0	Left	Tilt	A + B	QPSK	1	25	1955S	1:1	0.063	1.355	0.085	
707.50	23095	Mid	LTE Band 12	10	24.8	23.61	108	-0.04	1	Left	Tilt	A + B	QPSK	25	12	1955S	1:1	0.050	1.315	0.066	
707.50	23095	Mid	LTE Band 12	10	25.8	24.48	18	-0.01	0	Right	Cheek	A	QPSK	1	25	1955S	1:1	0.092	1.355	0.125	
707.50	23095	Mid	LTE Band 12	10	24.8	23.61	18	-0.10	1	Right	Cheek	A	QPSK	25	12	1955S	1:1	0.076	1.315	0.100	
707.50	23095	Mid	LTE Band 12	10	25.8	24.48	9	0.10	0	Right	Tilt	A	QPSK	1	25	1955S	1:1	0.047	1.355	0.064	
707.50	23095	Mid	LTE Band 12	10	24.8	23.61	9	0.17	1	Right	Tilt	A	QPSK	25	12	1955S	1:1	0.037	1.315	0.049	
707.50	23095	Mid	LTE Band 12	10	25.8	24.48	9	-0.17	0	Left	Cheek	A	QPSK	1	25	1955S	1:1	0.080	1.355	0.108	
707.50	23095	Mid	LTE Band 12	10	24.8	23.61	9	0.03	1	Left	Cheek	A	QPSK	25	12	1955S	1:1	0.064	1.315	0.084	
707.50	23095	Mid	LTE Band 12	10	25.8	24.48	9	0.09	0	Left	Tilt	A	QPSK	1	25	1955S	1:1	0.039	1.355	0.053	
707.50	23095	Mid	LTE Band 12	10	24.8	23.61	9	-0.18	1	Left	Tilt	A	QPSK	25	12	1955S	1:1	0.033	1.315	0.043	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT											Head										
Spatial Peak											1.6 W/kg (mW/g)										
Uncontrolled Exposure/General Population											averaged over 1 gram										

Table 11-11
LTE Band 13 Head SAR

MEASUREMENT RESULTS																					
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Tune State	Power Drift [dB]	MPR [dB]	Side	Test Position	Antenna Config.	Modulation	RB Size	RB Offset	Device Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.																	(W/kg)		(W/kg)	
782.00	23230	Mid	LTE Band 13	10	25.8	24.75	36	0.08	0	Right	Cheek	A + B	QPSK	1	49	1955S	1:1	0.075	1.274	0.096	
782.00	23230	Mid	LTE Band 13	10	24.8	23.85	36	-0.06	1	Right	Cheek	A + B	QPSK	25	25	1955S	1:1	0.069	1.245	0.086	
782.00	23230	Mid	LTE Band 13	10	25.8	24.75	36	0.04	0	Right	Tilt	A + B	QPSK	1	49	1955S	1:1	0.033	1.274	0.042	
782.00	23230	Mid	LTE Band 13	10	24.8	23.85	36	-0.09	1	Right	Tilt	A + B	QPSK	25	25	1955S	1:1	0.028	1.245	0.035	
782.00	23230	Mid	LTE Band 13	10	25.8	24.75	36	0.19	0	Left	Cheek	A + B	QPSK	1	49	1955S	1:1	0.084	1.274	0.107	
782.00	23230	Mid	LTE Band 13	10	24.8	23.85	36	0.04	1	Left	Cheek	A + B	QPSK	25	25	1955S	1:1	0.062	1.245	0.077	
782.00	23230	Mid	LTE Band 13	10	25.8	24.75	36	-0.06	0	Left	Tilt	A + B	QPSK	1	49	1955S	1:1	0.036	1.274	0.046	
782.00	23230	Mid	LTE Band 13	10	24.8	23.85	36	-0.15	1	Left	Tilt	A + B	QPSK	25	25	1955S	1:1	0.031	1.245	0.039	
782.00	23230	Mid	LTE Band 13	10	25.8	24.75	9	-0.16	0	Right	Cheek	A	QPSK	1	49	1955S	1:1	0.085	1.274	0.108	A11
782.00	23230	Mid	LTE Band 13	10	24.8	23.85	9	-0.02	1	Right	Cheek	A	QPSK	25	25	1955S	1:1	0.066	1.245	0.082	
782.00	23230	Mid	LTE Band 13	10	25.8	24.75	9	-0.03	0	Right	Tilt	A	QPSK	1	49	1955S	1:1	0.038	1.274	0.048	
782.00	23230	Mid	LTE Band 13	10	24.8	23.85	9	0.13	1	Right	Tilt	A	QPSK	25	25	1955S	1:1	0.031	1.245	0.039	
782.00	23230	Mid	LTE Band 13	10	25.8	24.75	9	-0.16	0	Left	Cheek	A	QPSK	1	49	1955S	1:1	0.066	1.274	0.084	
782.00	23230	Mid	LTE Band 13	10	24.8	23.85	9	0.00	1	Left	Cheek	A	QPSK	25	25	1955S	1:1	0.053	1.245	0.066	
782.00	23230	Mid	LTE Band 13	10	25.8	24.75	9	0.03	0	Left	Tilt	A	QPSK	1	49	1955S	1:1	0.029	1.274	0.037	
782.00	23230	Mid	LTE Band 13	10	24.8	23.85	9	-0.08	1	Left	Tilt	A	QPSK	25	25	1955S	1:1	0.024	1.245	0.030	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT										Head											
Spatial Peak										1.6 W/kg (mW/g)											
Uncontrolled Exposure/General Population										averaged over 1 gram											

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Table 11-12
LTE Band 14 Head SAR

MEASUREMENT RESULTS																					
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Tune State	Power Drift [dB]	MPR [dB]	Side	Test Position	Antenna Config.	Modulation	RB Size	RB Offset	Device Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.																	(W/kg)		(W/kg)	
793.00	23330	Mid	LTE Band 14	10	25.8	24.79	36	0.05	0	Right	Cheek	A + B	QPSK	1	0	1955S	1:1	0.081	1.262	0.102	
793.00	23330	Mid	LTE Band 14	10	24.8	23.77	36	0.05	1	Right	Cheek	A + B	QPSK	25	25	1955S	1:1	0.074	1.268	0.094	
793.00	23330	Mid	LTE Band 14	10	25.8	24.79	36	0.06	0	Right	Tilt	A + B	QPSK	1	0	1955S	1:1	0.039	1.262	0.049	
793.00	23330	Mid	LTE Band 14	10	24.8	23.77	36	0.05	1	Right	Tilt	A + B	QPSK	25	25	1955S	1:1	0.032	1.268	0.041	
793.00	23330	Mid	LTE Band 14	10	25.8	24.79	36	0.05	0	Left	Cheek	A + B	QPSK	1	0	1955S	1:1	0.087	1.262	0.110	A12
793.00	23330	Mid	LTE Band 14	10	24.8	23.77	36	0.02	1	Left	Cheek	A + B	QPSK	25	25	1955S	1:1	0.055	1.268	0.070	
793.00	23330	Mid	LTE Band 14	10	25.8	24.79	36	0.05	0	Left	Tilt	A + B	QPSK	1	0	1955S	1:1	0.040	1.262	0.050	
793.00	23330	Mid	LTE Band 14	10	24.8	23.77	36	-0.01	1	Left	Tilt	A + B	QPSK	25	25	1955S	1:1	0.028	1.268	0.036	
793.00	23330	Mid	LTE Band 14	10	25.8	24.79	9	0.10	0	Right	Cheek	A	QPSK	1	0	1955S	1:1	0.081	1.262	0.102	
793.00	23330	Mid	LTE Band 14	10	24.8	23.77	9	0.10	1	Right	Cheek	A	QPSK	25	25	1955S	1:1	0.072	1.268	0.091	
793.00	23330	Mid	LTE Band 14	10	25.8	24.79	9	0.16	0	Right	Tilt	A	QPSK	1	0	1955S	1:1	0.041	1.262	0.052	
793.00	23330	Mid	LTE Band 14	10	24.8	23.77	9	0.10	1	Right	Tilt	A	QPSK	25	25	1955S	1:1	0.038	1.268	0.048	
793.00	23330	Mid	LTE Band 14	10	25.8	24.79	9	0.19	0	Left	Cheek	A	QPSK	1	0	1955S	1:1	0.064	1.262	0.081	
793.00	23330	Mid	LTE Band 14	10	24.8	23.77	9	0.09	1	Left	Cheek	A	QPSK	25	25	1955S	1:1	0.056	1.268	0.071	
793.00	23330	Mid	LTE Band 14	10	25.8	24.79	9	-0.06	0	Left	Tilt	A	QPSK	1	0	1955S	1:1	0.031	1.262	0.039	
793.00	23330	Mid	LTE Band 14	10	24.8	23.77	9	0.02	1	Left	Tilt	A	QPSK	25	25	1955S	1:1	0.029	1.268	0.037	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT											Head										
Spatial Peak											1.6 W/kg (mW/g)										
Uncontrolled Exposure/General Population											averaged over 1 gram										

Table 11-13
LTE Band 26 (Cell) Head SAR

MEASUREMENT RESULTS																					
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Tune State	Power Drift [dB]	MPR [dB]	Side	Test Position	Antenna Config.	Modulation	RB Size	RB Offset	Device Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.																	(W/kg)		(W/kg)	
831.50	26865	Mid	LTE Band 26 (Cell)	15	25.8	24.60	9	-0.03	0	Right	Cheek	A	QPSK	1	0	1955S	1:1	0.100	1.318	0.132	
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.8	23.66	9	0.15	1	Right	Cheek	A	QPSK	36	18	1955S	1:1	0.075	1.300	0.098	
831.50	26865	Mid	LTE Band 26 (Cell)	15	25.8	24.60	9	0.07	0	Right	Tilt	A	QPSK	1	0	1955S	1:1	0.042	1.318	0.055	
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.8	23.66	9	0.05	1	Right	Tilt	A	QPSK	36	18	1955S	1:1	0.031	1.300	0.040	
831.50	26865	Mid	LTE Band 26 (Cell)	15	25.8	24.60	9	0.02	0	Left	Cheek	A	QPSK	1	0	1955S	1:1	0.082	1.318	0.108	
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.8	23.66	9	0.02	1	Left	Cheek	A	QPSK	36	18	1955S	1:1	0.070	1.300	0.091	
831.50	26865	Mid	LTE Band 26 (Cell)	15	25.8	24.60	9	0.03	0	Left	Tilt	A	QPSK	1	0	1955S	1:1	0.026	1.318	0.034	
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.8	23.66	9	0.05	1	Left	Tilt	A	QPSK	36	18	1955S	1:1	0.025	1.300	0.033	
831.50	26865	Mid	LTE Band 26 (Cell)	15	25.8	24.60	108	0.17	0	Right	Cheek	A + B	QPSK	1	0	1945S	1:1	0.104	1.318	0.137	A13
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.8	23.66	108	0.17	1	Right	Cheek	A + B	QPSK	36	18	1945S	1:1	0.076	1.300	0.099	
831.50	26865	Mid	LTE Band 26 (Cell)	15	25.8	24.60	108	0.06	0	Right	Tilt	A + B	QPSK	1	0	1945S	1:1	0.035	1.318	0.046	
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.8	23.66	108	0.12	1	Right	Tilt	A + B	QPSK	36	18	1945S	1:1	0.026	1.300	0.034	
831.50	26865	Mid	LTE Band 26 (Cell)	15	25.8	24.60	108	0.03	0	Left	Cheek	A + B	QPSK	1	0	1945S	1:1	0.082	1.318	0.108	
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.8	23.66	108	-0.02	1	Left	Cheek	A + B	QPSK	36	18	1945S	1:1	0.070	1.300	0.091	
831.50	26865	Mid	LTE Band 26 (Cell)	15	25.8	24.60	108	-0.05	0	Left	Tilt	A + B	QPSK	1	0	1945S	1:1	0.036	1.318	0.047	
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.8	23.66	108	0.02	1	Left	Tilt	A + B	QPSK	36	18	1945S	1:1	0.034	1.300	0.044	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT										Head											
Spatial Peak										1.6 W/kg (mW/g)											
Uncontrolled Exposure/General Population										averaged over 1 gram											

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Table 11-14
LTE Band 5 (Cell) Head SAR

MEASUREMENT RESULTS																							
1 CC Uplink 2 CC Uplink	Component Carrier	FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Tune State	Power Drift [dB]	MPR [dB]	Side	Test Position	Antenna Config.	Modulation	RB Size	RB Offset	Device Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
		MHz	Ch.																(W/kg)		(W/kg)		
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	25.8	24.09	9	0.02	0	Right	Cheek	A	QPSK	1	0	1945S	1:1	0.079	1.483	0.117	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	24.8	23.03	9	0.06	1	Right	Cheek	A	QPSK	25	0	1945S	1:1	0.043	1.503	0.065	
2 CC Uplink	PCC	836.50	20525	Mid	LTE Band 5 (Cell)	10	25.8	23.90	9	0.05	0	Right	Cheek	A	QPSK	1	0	1945S	1:1	0.072	1.549	0.112	
	SCC	829.30	20453			5										24							
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	25.8	24.09	0	0.12	0	Right	Tilt	A	QPSK	1	0	1945S	1:1	0.024	1.483	0.036	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	24.8	23.03	0	0.18	1	Right	Tilt	A	QPSK	25	0	1945S	1:1	0.014	1.503	0.021	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	25.8	24.09	0	-0.02	0	Left	Cheek	A	QPSK	1	0	1945S	1:1	0.052	1.483	0.077	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	24.8	23.03	0	0.03	1	Left	Cheek	A	QPSK	25	0	1945S	1:1	0.032	1.503	0.048	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	25.8	24.09	0	0.11	0	Left	Tilt	A	QPSK	1	0	1945S	1:1	0.027	1.483	0.040	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	24.8	23.03	0	-0.04	1	Left	Tilt	A	QPSK	25	0	1945S	1:1	0.021	1.503	0.032	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	25.8	24.09	108	0.02	0	Right	Cheek	A + B	QPSK	1	0	1945S	1:1	0.101	1.483	0.150	A14
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	24.8	23.03	108	0.17	1	Right	Cheek	A + B	QPSK	25	0	1945S	1:1	0.076	1.503	0.114	
2 CC Uplink	PCC	836.50	20525	Mid	LTE Band 5 (Cell)	10	25.8	23.90	108	0.16	0	Right	Cheek	A + B	QPSK	1	0	1945S	1:1	0.092	1.549	0.143	
	SCC	829.30	20453			5										24							
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	25.8	24.09	108	0.09	0	Right	Tilt	A + B	QPSK	1	0	1945S	1:1	0.033	1.483	0.049	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	24.8	23.03	108	0.04	1	Right	Tilt	A + B	QPSK	25	0	1945S	1:1	0.024	1.503	0.036	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	25.8	24.09	108	-0.10	0	Left	Cheek	A + B	QPSK	1	0	1945S	1:1	0.091	1.483	0.135	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	24.8	23.03	108	0.00	1	Left	Cheek	A + B	QPSK	25	0	1945S	1:1	0.064	1.503	0.096	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	25.8	24.09	108	0.06	0	Left	Tilt	A + B	QPSK	1	0	1945S	1:1	0.047	1.483	0.070	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	24.8	23.03	108	0.03	1	Left	Tilt	A + B	QPSK	25	0	1945S	1:1	0.034	1.503	0.051	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT												Head											
Spatial Peak												1.6 W/kg (mW/g)											
Uncontrolled Exposure/General Population												averaged over 1 gram											

Table 11-15
LTE Band 66 (AWS) Head SAR

MEASUREMENT RESULTS																						
1 CC Uplink 2 CC Uplink	Component Carrier	FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Side	Test Position	Antenna Config.	Modulation	RB Size	RB Offset	Device Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
		MHz	Ch.															(W/kg)		(W/kg)		
1 CC Uplink	N/A	1745.00	132322	Mid	LTE Band 66 (AWS)	20	25.5	24.24	0.11	0	Right	Cheek	B	QPSK	1	50	2021M	1:1	0.039	1.337	0.052	
1 CC Uplink	N/A	1745.00	132322	Mid	LTE Band 66 (AWS)	20	24.5	23.37	0.02	1	Right	Cheek	B	QPSK	50	25	2021M	1:1	0.032	1.297	0.042	
1 CC Uplink	N/A	1745.00	132322	Mid	LTE Band 66 (AWS)	20	25.5	24.24	0.06	0	Right	Tilt	B	QPSK	1	50	2021M	1:1	0.044	1.337	0.059	
1 CC Uplink	N/A	1745.00	132322	Mid	LTE Band 66 (AWS)	20	24.5	23.37	0.03	1	Right	Tilt	B	QPSK	50	25	2021M	1:1	0.043	1.297	0.056	
1 CC Uplink	N/A	1745.00	132322	Mid	LTE Band 66 (AWS)	20	25.5	24.24	0.19	0	Left	Cheek	B	QPSK	1	50	2021M	1:1	0.044	1.337	0.059	
1 CC Uplink	N/A	1745.00	132322	Mid	LTE Band 66 (AWS)	20	24.5	23.37	0.03	1	Left	Cheek	B	QPSK	50	25	2021M	1:1	0.034	1.297	0.044	
1 CC Uplink	N/A	1745.00	132322	Mid	LTE Band 66 (AWS)	20	25.5	24.24	0.04	0	Left	Tilt	B	QPSK	1	50	2021M	1:1	0.048	1.337	0.064	
1 CC Uplink	N/A	1745.00	132322	Mid	LTE Band 66 (AWS)	20	25.5	24.09	0.04	0	Left	Tilt	B	QPSK	1	99	2021M	1:1	0.047	1.384	0.065	
1 CC Uplink	N/A	1745.00	132322	Mid	LTE Band 66 (AWS)	20	24.5	23.37	0.08	1	Left	Tilt	B	QPSK	50	25	2021M	1:1	0.037	1.297	0.048	
1 CC Uplink	N/A	1745.00	132322	Mid	LTE Band 66 (AWS)	10	25.5	24.04	0.03	0	Left	Tilt	B	QPSK	1	49	2021M	1:1	0.027	1.400	0.038	
2 CC Uplink CA_66C	PCC	1745.00	132322	Mid	LTE Band 66 (AWS)	20	25.5	24.53	-0.02	0	Left	Tilt	B	QPSK	1	99	2021M	1:1	0.054	1.250	0.068	
	SCC	1764.80	132520													0						
2 CC Uplink CA_66B	PCC	1745.00	132322	Mid	LTE Band 66 (AWS)	10	25.5	24.54	-0.18	0	Left	Tilt	B	QPSK	1	49	2021M	1:1	0.031	1.247	0.039	
	SCC	1754.90	132421													0						
1 CC Uplink	N/A	1720.00	132072	Low	LTE Band 66 (AWS)	20	20.5	20.14	-0.08	0	Right	Cheek	E	QPSK	1	50	0241M	1:1	0.281	1.086	0.305	
1 CC Uplink	N/A	1720.00	132072	Low	LTE Band 66 (AWS)	20	20.5	20.33	0.02	0	Right	Cheek	E	QPSK	50	25	0241M	1:1	0.290	1.040	0.302	
1 CC Uplink	N/A	1720.00	132072	Low	LTE Band 66 (AWS)	20	20.5	20.14	-0.05	0	Right	Tilt	E	QPSK	1	50	0241M	1:1	0.372	1.086	0.404	
1 CC Uplink	N/A	1720.00	132072	Low	LTE Band 66 (AWS)	20	20.5	20.33	0.05	0	Right	Tilt	E	QPSK	50	25	0241M	1:1	0.385	1.040	0.400	A15
1 CC Uplink	N/A	1720.00	132072	Low	LTE Band 66 (AWS)	20	20.5	20.14	0.11	0	Left	Cheek	E	QPSK	1	50	0241M	1:1	0.140	1.086	0.152	
1 CC Uplink	N/A	1720.00	132072	Low	LTE Band 66 (AWS)	20	20.5	20.33	0.00	0	Left	Cheek	E	QPSK	50	25	0241M	1:1	0.158	1.040	0.164	
1 CC Uplink	N/A	1720.00	132072	Low	LTE Band 66 (AWS)	20	20.5	20.14	-0.04	0	Left	Tilt	E	QPSK	1	50	0241M	1:1	0.261	1.086	0.283	
1 CC Uplink	N/A	1720.00	132072	Low	LTE Band 66 (AWS)	20	20.5	20.33	0.07	0	Left	Tilt	E	QPSK	50	25	0241M	1:1	0.279	1.040	0.290	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT												Head										
Spatial Peak												1.6 W/kg (mW/g)										
Uncontrolled Exposure/General Population												averaged over 1 gram										

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Table 11-16
LTE Band 25 (PCS) Head SAR

MEASUREMENT RESULTS																				
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR[dB]	Side	Test Position	Antenna Config.	Modulation	RB Size	RB Offset	Device Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.															(W/kg)		(W/kg)		
1905.00	26590	High	LTE Band 25 (PCS)	20	25.5	24.30	0.03	0	Right	Cheek	B	QPSK	1	99	1960S	1:1	0.065	1.318	0.086	
1905.00	26590	High	LTE Band 25 (PCS)	20	24.5	23.33	0.14	1	Right	Cheek	B	QPSK	50	50	1960S	1:1	0.047	1.309	0.062	
1905.00	26590	High	LTE Band 25 (PCS)	20	25.5	24.30	0.01	0	Right	Tilt	B	QPSK	1	99	1960S	1:1	0.089	1.318	0.117	A16
1905.00	26590	High	LTE Band 25 (PCS)	20	24.5	23.33	0.15	1	Right	Tilt	B	QPSK	50	50	1960S	1:1	0.067	1.309	0.088	
1905.00	26590	High	LTE Band 25 (PCS)	20	25.5	24.30	0.02	0	Left	Cheek	B	QPSK	1	99	1960S	1:1	0.051	1.318	0.067	
1905.00	26590	High	LTE Band 25 (PCS)	20	24.5	23.33	-0.02	1	Left	Cheek	B	QPSK	50	50	1960S	1:1	0.046	1.309	0.060	
1905.00	26590	High	LTE Band 25 (PCS)	20	25.5	24.30	0.02	0	Left	Tilt	B	QPSK	1	99	1960S	1:1	0.042	1.318	0.055	
1905.00	26590	High	LTE Band 25 (PCS)	20	24.5	23.33	-0.17	1	Left	Tilt	B	QPSK	50	50	1960S	1:1	0.038	1.309	0.050	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT										Head										
Spatial Peak										1.6 W/kg (mW/g)										
Uncontrolled Exposure/General Population										averaged over 1 gram										

Table 11-17
LTE Band 30 Head SAR

MEASUREMENT RESULTS																				
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR[dB]	Side	Test Position	Antenna Config.	Modulation	RB Size	RB Offset	Device Serial Num ber	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.	(W/kg)															(W/kg)			
2310.00	27710	Mid	LTE Band 30	10	22.5	21.26	0.03	0	Right	Cheek	B	QPSK	1	49	1950S	1:1	0.050	1.330	0.067	A17
2310.00	27710	Mid	LTE Band 30	10	22.5	21.36	0.17	0	Right	Cheek	B	QPSK	25	12	1950S	1:1	0.052	1.300	0.068	
2310.00	27710	Mid	LTE Band 30	10	22.5	21.26	0.07	0	Right	Tilt	B	QPSK	1	49	1950S	1:1	0.025	1.330	0.033	
2310.00	27710	Mid	LTE Band 30	10	22.5	21.36	0.04	0	Right	Tilt	B	QPSK	25	12	1950S	1:1	0.025	1.300	0.033	
2310.00	27710	Mid	LTE Band 30	10	22.5	21.26	-0.04	0	Left	Cheek	B	QPSK	1	49	1950S	1:1	0.041	1.330	0.055	
2310.00	27710	Mid	LTE Band 30	10	22.5	21.36	0.03	0	Left	Cheek	B	QPSK	25	12	1950S	1:1	0.038	1.300	0.049	
2310.00	27710	Mid	LTE Band 30	10	22.5	21.26	0.06	0	Left	Tilt	B	QPSK	1	49	1950S	1:1	0.020	1.330	0.027	
2310.00	27710	Mid	LTE Band 30	10	22.5	21.36	0.04	0	Left	Tilt	B	QPSK	25	12	1950S	1:1	0.023	1.300	0.030	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population										Head 1.6 W/kg (mW/g) averaged over 1 gram										

Table 11-18
LTE Band 7 Head SAR

MEASUREMENT RESULTS																				
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR[dB]	Side	Test Position	Antenna Config.	Modulation	RB Size	RB Offset	Device Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.	(W/kg)															(W/kg)			
2510.00	20850	Low	LTE Band 7	20	22.5	21.67	0.03	0	Right	Cheek	B	QPSK	1	99	1631M	1:1	0.033	1.211	0.040	
2510.00	20850	Low	LTE Band 7	20	22.5	21.75	0.03	0	Right	Cheek	B	QPSK	50	25	1631M	1:1	0.038	1.189	0.045	A18
2510.00	20850	Low	LTE Band 7	20	22.5	21.67	0.11	0	Right	Tilt	B	QPSK	1	99	1631M	1:1	0.017	1.211	0.021	
2510.00	20850	Low	LTE Band 7	20	22.5	21.75	0.08	0	Right	Tilt	B	QPSK	50	25	1631M	1:1	0.025	1.189	0.030	
2510.00	20850	Low	LTE Band 7	20	22.5	21.67	0.03	0	Left	Cheek	B	QPSK	1	99	1631M	1:1	0.030	1.211	0.036	
2510.00	20850	Low	LTE Band 7	20	22.5	21.75	0.04	0	Left	Cheek	B	QPSK	50	25	1631M	1:1	0.032	1.189	0.038	
2510.00	20850	Low	LTE Band 7	20	22.5	21.67	0.06	0	Left	Tilt	B	QPSK	1	99	1631M	1:1	0.019	1.211	0.023	
2510.00	20850	Low	LTE Band 7	20	22.5	21.75	0.07	0	Left	Tilt	B	QPSK	50	25	1631M	1:1	0.021	1.189	0.025	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT										Head										
Spatial Peak										1.6 W/kg (mW/g)										
Uncontrolled Exposure/General Population										averaged over 1 gram										

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Table 11-19
LTE Band 48 Head SAR

MEASUREMENT RESULTS																						
1 CC Uplink 2 CC Uplink	Component Carrier	FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR[dB]	Side	Test Position	Antenna Config.	Modulation	RB Size	RB Offset	Device Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
		MHz	Ch.															(W/kg)		(W/kg)		
1 CC Uplink	N/A	3646.70	56207	Mid-High	LTE Band 48	20	20.5	20.10	0.02	0	Right	Cheek	E	QPSK	1	99	0330M	1.158	0.155	1.096	0.170	
1 CC Uplink	N/A	3646.70	56207	Mid-High	LTE Band 48	20	20.5	20.20	0.18	0	Right	Cheek	E	QPSK	50	25	0330M	1.158	0.127	1.072	0.136	
1 CC Uplink	N/A	3646.70	56207	Mid-High	LTE Band 48	20	20.5	20.10	0.10	0	Right	Tilt	E	QPSK	1	99	0330M	1.158	0.235	1.096	0.258	A19
1 CC Uplink	N/A	3646.70	56207	Mid-High	LTE Band 48	20	20.5	20.20	0.11	0	Right	Tilt	E	QPSK	50	25	0330M	1.158	0.224	1.072	0.240	
2 CC Uplink	PCC	3646.70	56207	Mid-High	LTE Band 48	20	20.5	20.07	0.18	0	Right	Tilt	E	QPSK	1	99	0330M	1.158	0.223	1.104	0.246	
	SCC	3666.50	56405													0						
1 CC Uplink	N/A	3646.70	56207	Mid-High	LTE Band 48	20	20.5	20.10	-0.02	0	Left	Cheek	E	QPSK	1	99	0330M	1.158	0.092	1.096	0.101	
1 CC Uplink	N/A	3646.70	56207	Mid-High	LTE Band 48	20	20.5	20.20	0.04	0	Left	Cheek	E	QPSK	50	25	0330M	1.158	0.089	1.072	0.095	
1 CC Uplink	N/A	3646.70	56207	Mid-High	LTE Band 48	20	20.5	20.10	-0.01	0	Left	Tilt	E	QPSK	1	99	0330M	1.158	0.120	1.096	0.132	
1 CC Uplink	N/A	3646.70	56207	Mid-High	LTE Band 48	20	20.5	20.20	0.10	0	Left	Tilt	E	QPSK	50	25	0330M	1.158	0.114	1.072	0.122	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population												Head 1.6 W/kg (mW/g) averaged over 1 gram										

Table 11-20
LTE Band 41 Head SAR

MEASUREMENT RESULTS																						
1 CC Uplink 2 CC Uplink, Power Class	Component Carrier	FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Side	Test Position	Antenna Config.	Modulation	RB Size	RB Offset	Device Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
		MHz	Ch.															(W/kg)		(W/kg)		
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	23.0	22.31	0.19	0	Right	Cheek	B	QPSK	1	50	1577M	1.158	0.010	1.172	0.012	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	23.0	22.45	0.07	0	Right	Cheek	B	QPSK	50	50	1577M	1.158	0.011	1.135	0.012	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	23.0	22.31	0.03	0	Right	Tilt	B	QPSK	1	50	1577M	1.158	0.010	1.172	0.012	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	23.0	22.45	0.15	0	Right	Tilt	B	QPSK	50	50	1577M	1.158	0.010	1.135	0.011	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	23.0	21.88	0.08	0	Left	Cheek	B	QPSK	1	0	1577M	1.158	0.023	1.294	0.030	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	23.0	22.31	0.09	0	Left	Cheek	B	QPSK	1	50	1577M	1.158	0.024	1.172	0.028	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	23.0	22.45	0.09	0	Left	Cheek	B	QPSK	50	50	1577M	1.158	0.024	1.135	0.027	
1 CC Uplink - Power Class 2	N/A	2680.00	41490	High	LTE Band 41	20	24.6	24.00	0.08	0	Left	Cheek	B	QPSK	1	0	1577M	1.231	0.023	1.148	0.026	
1 CC Uplink - Power Class 2	N/A	2680.00	41490	High	LTE Band 41	20	24.6	24.26	0.03	0	Left	Cheek	B	QPSK	1	50	1577M	1.231	0.025	1.081	0.027	A20
2 CC Uplink - Power Class 3	PCC	2680.00	41490	High	LTE Band 41	20	23.0	22.17	0.07	0	Left	Cheek	B	QPSK	1	0	1577M	1.158	0.025	1.211	0.030	
	SCC	2660.20	41292													99						
2 CC Uplink - Power Class 2	PCC	2680.00	41490	High	LTE Band 41	20	24.6	24.16	0.10	0	Left	Cheek	B	QPSK	1	0	1577M	1.231	0.025	1.107	0.028	
	SCC	2660.20	41292													99						
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	23.0	22.31	-0.10	0	Left	Tilt	B	QPSK	1	50	1577M	1.158	0.007	1.172	0.008	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	23.0	22.45	0.07	0	Left	Tilt	B	QPSK	50	50	1577M	1.158	0.010	1.135	0.011	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT												Head										
Spatial Peak												1.6 W/kg (mW/g)										
Uncontrolled Exposure/General Population												averaged over 1 gram										

Table 11-21
NR Band n71 Head SAR

MEASUREMENT RESULTS																						
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Antenna Config.	Power Drift [dB]	MPR [dB]	Side	Test Position	Antenna State	Waveform	Modulation	RB Size	RB Offset	Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.																	(W/kg)		(W/kg)		
680.50	136100	Mid	NR Band n71	20	25.5	24.48	A + B	0.03	0	Right	Cheek	117	DFT-S-OFDM	QPSK	1	1	2524R	1.1	0.078	1.265	0.099	A21
680.50	136100	Mid	NR Band n71	20	25.5	24.34	A + B	-0.17	0	Right	Cheek	117	DFT-S-OFDM	QPSK	50	28	2524R	1.1	0.087	1.306	0.114	
680.50	136100	Mid	NR Band n71	20	24.0	22.90	A + B	0.09	1.5	Right	Cheek	117	CP-OFDM	QPSK	1	1	2524R	1.1	0.052	1.288	0.067	
680.50	136100	Mid	NR Band n71	20	25.5	24.48	A + B	0.18	0	Right	Tilt	117	DFT-S-OFDM	QPSK	1	1	2524R	1.1	0.038	1.265	0.048	
680.50	136100	Mid	NR Band n71	20	25.5	24.34	A + B	0.10	0	Right	Tilt	117	DFT-S-OFDM	QPSK	50	28	2524R	1.1	0.035	1.306	0.046	
680.50	136100	Mid	NR Band n71	20	25.5	24.48	A + B	0.03	0	Left	Cheek	18	DFT-S-OFDM	QPSK	1	1	2524R	1.1	0.074	1.265	0.094	
680.50	136100	Mid	NR Band n71	20	25.5	24.34	A + B	-0.06	0	Left	Cheek	18	DFT-S-OFDM	QPSK	50	28	2524R	1.1	0.070	1.306	0.091	
680.50	136100	Mid	NR Band n71	20	25.5	24.48	A + B	-0.03	0	Left	Tilt	18	DFT-S-OFDM	QPSK	1	1	2524R	1.1	0.035	1.265	0.044	
680.50	136100	Mid	NR Band n71	20	25.5	24.34	A + B	0.06	0	Left	Tilt	18	DFT-S-OFDM	QPSK	50	28	2524R	1.1	0.035	1.306	0.046	
680.50	136100	Mid	NR Band n71	20	25.5	24.48	A	0.05	0	Right	Cheek	0	DFT-S-OFDM	QPSK	1	1	2524R	1.1	0.041	1.265	0.052	
680.50	136100	Mid	NR Band n71	20	25.5	24.34	A	0.02	0	Right	Cheek	0	DFT-S-OFDM	QPSK	50	28	2524R	1.1	0.044	1.306	0.057	
680.50	136100	Mid	NR Band n71	20	25.5	24.48	A	0.04	0	Right	Tilt	120	DFT-S-OFDM	QPSK	1	1	2524R	1.1	0.026	1.265	0.033	
680.50	136100	Mid	NR Band n71	20	25.5	24.34	A	0.07	0	Right	Tilt	120	DFT-S-OFDM	QPSK	50	28	2524R	1.1	0.029	1.306	0.038	
680.50	136100	Mid	NR Band n71	20	25.5	24.48	A	-0.16	0	Left	Cheek	10	DFT-S-OFDM	QPSK	1	1	2524R	1.1	0.064	1.265	0.081	
680.50	136100	Mid	NR Band n71	20	25.5	24.34	A	0.16	0	Left	Cheek	10	DFT-S-OFDM	QPSK	50	28	2524R	1.1	0.061	1.306	0.080	
680.50	136100	Mid	NR Band n71	20	24.0	22.90	A	0.05	1.5	Left	Cheek	10	CP-OFDM	QPSK	1	1	2524R	1.1	0.049	1.288	0.063	
680.50	136100	Mid	NR Band n71	20	25.5	24.48	A	0.08	0	Left	Tilt	10	DFT-S-OFDM	QPSK	1	1	2524R	1.1	0.034	1.265	0.043	
680.50	136100	Mid	NR Band n71	20	25.5	24.34	A	-0.02	0	Left	Tilt	10	DFT-S-OFDM	QPSK	50	28	2524R	1.1	0.035	1.306	0.046	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population												Head 1.6 W/kg (mW/g) averaged over 1 gram										

FCC ID: A3LSMF926U



SAR EVALUATION REPORT



Approved by:
Quality Manager

Document S/N:
1M2104020

Table 11-22
NR Band n12 Head SAR

MEASUREMENT RESULTS																						
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Antenna Config	Power Drift [dB]	MPR [dB]	Side	Test Position	Antenna Size	Waveform	Modulation	RB Size	RB Offset	Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.																	(W/kg)		(W/kg)		
707.50	141500	Mid	NR Band n12	15	25.5	24.02	A + B	0.00	0	Right	Cheek	0	DFT-S-OFDM	QPSK	1	40	2524R	1:1	0.104	1.406	0.146	A22
707.50	141500	Mid	NR Band n12	15	25.5	23.90	A + B	0.02	0	Right	Cheek	0	DFT-S-OFDM	QPSK	36	22	2524R	1:1	0.100	1.445	0.145	
707.50	141500	Mid	NR Band n12	15	24.0	22.18	A + B	-0.03	1.5	Right	Cheek	0	CP-OFDM	QPSK	1	1	2524R	1:1	0.070	1.521	0.106	
707.50	141500	Mid	NR Band n12	15	25.5	24.02	A + B	0.04	0	Right	Tilt	0	DFT-S-OFDM	QPSK	1	40	2524R	1:1	0.046	1.406	0.065	
707.50	141500	Mid	NR Band n12	15	25.5	23.90	A + B	-0.16	0	Right	Tilt	0	DFT-S-OFDM	QPSK	36	22	2524R	1:1	0.048	1.445	0.069	
707.50	141500	Mid	NR Band n12	15	25.5	24.02	A + B	-0.02	0	Left	Cheek	108	DFT-S-OFDM	QPSK	1	40	2524R	1:1	0.082	1.406	0.115	
707.50	141500	Mid	NR Band n12	15	25.5	23.90	A + B	0.16	0	Left	Cheek	108	DFT-S-OFDM	QPSK	36	22	2524R	1:1	0.093	1.445	0.134	
707.50	141500	Mid	NR Band n12	15	25.5	24.02	A + B	0.03	0	Left	Tilt	108	DFT-S-OFDM	QPSK	1	40	2524R	1:1	0.039	1.406	0.055	
707.50	141500	Mid	NR Band n12	15	25.5	23.90	A + B	0.09	0	Left	Tilt	108	DFT-S-OFDM	QPSK	36	22	2524R	1:1	0.044	1.445	0.064	
707.50	141500	Mid	NR Band n12	15	25.5	24.02	A	-0.01	0	Right	Cheek	18	DFT-S-OFDM	QPSK	1	40	2524R	1:1	0.088	1.406	0.124	
707.50	141500	Mid	NR Band n12	15	25.5	23.90	A	-0.02	0	Right	Cheek	18	DFT-S-OFDM	QPSK	36	22	2524R	1:1	0.089	1.445	0.129	
707.50	141500	Mid	NR Band n12	15	24.0	22.18	A	0.01	1.5	Right	Cheek	18	CP-OFDM	QPSK	1	1	2524R	1:1	0.065	1.521	0.099	
707.50	141500	Mid	NR Band n12	15	25.5	24.02	A	0.03	0	Right	Tilt	9	DFT-S-OFDM	QPSK	1	40	2524R	1:1	0.055	1.406	0.077	
707.50	141500	Mid	NR Band n12	15	25.5	23.90	A	0.02	0	Right	Tilt	9	DFT-S-OFDM	QPSK	36	22	2524R	1:1	0.053	1.445	0.077	
707.50	141500	Mid	NR Band n12	15	25.5	24.02	A	0.02	0	Left	Cheek	9	DFT-S-OFDM	QPSK	1	40	2524R	1:1	0.072	1.406	0.101	
707.50	141500	Mid	NR Band n12	15	25.5	23.90	A	-0.16	0	Left	Cheek	9	DFT-S-OFDM	QPSK	36	22	2524R	1:1	0.082	1.445	0.118	
707.50	141500	Mid	NR Band n12	15	25.5	24.02	A	0.11	0	Left	Tilt	9	DFT-S-OFDM	QPSK	1	40	2524R	1:1	0.041	1.406	0.058	
707.50	141500	Mid	NR Band n12	15	25.5	23.90	A	0.19	0	Left	Tilt	9	DFT-S-OFDM	QPSK	36	22	2524R	1:1	0.042	1.445	0.061	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT										Head												
Spatial Peak										1.6 W/kg (mW/g)												
Uncontrolled Exposure/General Population										averaged over 1 gram												

Table 11-23
NR Band n5 (cell) Head SAR

MEASUREMENT RESULTS																						
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Antenna Config	Power Drift [dB]	MPR [dB]	Side	Test Position	Antenna State	Waveform	Modulation	RB Size	RB Offset	Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.																	(W/kg)		(W/kg)		
836.50	167300	Mid	NR Band n5 (Cell)	20	25.5	25.39	A	0.18	0	Right	Cheek	9	DFT-S-OFDM	QPSK	1	53	2528R	1.1	0.105	1.026	0.108	A23
836.50	167300	Mid	NR Band n5 (Cell)	20	25.5	25.15	A	0.05	0	Right	Cheek	9	DFT-S-OFDM	QPSK	50	28	2528R	1.1	0.096	1.084	0.104	
836.50	167300	Mid	NR Band n5 (Cell)	20	24.0	23.23	A	0.07	1.5	Right	Cheek	9	CP-OFDM	QPSK	1	1	2528R	1.1	0.069	1.194	0.082	
836.50	167300	Mid	NR Band n5 (Cell)	20	25.5	25.39	A	0.04	0	Right	Tilt	0	DFT-S-OFDM	QPSK	1	53	2528R	1.1	0.034	1.026	0.035	
836.50	167300	Mid	NR Band n5 (Cell)	20	25.5	25.15	A	0.04	0	Right	Tilt	0	DFT-S-OFDM	QPSK	50	28	2528R	1.1	0.032	1.084	0.035	
836.50	167300	Mid	NR Band n5 (Cell)	20	25.5	25.39	A	0.03	0	Left	Cheek	0	DFT-S-OFDM	QPSK	1	53	2528R	1.1	0.074	1.026	0.076	
836.50	167300	Mid	NR Band n5 (Cell)	20	25.5	25.15	A	0.13	0	Left	Cheek	0	DFT-S-OFDM	QPSK	50	28	2528R	1.1	0.073	1.084	0.079	
836.50	167300	Mid	NR Band n5 (Cell)	20	25.5	25.39	A	0.04	0	Left	Tilt	0	DFT-S-OFDM	QPSK	1	53	2528R	1.1	0.040	1.026	0.041	
836.50	167300	Mid	NR Band n5 (Cell)	20	25.5	25.15	A	0.03	0	Left	Tilt	0	DFT-S-OFDM	QPSK	50	28	2528R	1.1	0.039	1.084	0.042	
836.50	167300	Mid	NR Band n5 (Cell)	20	25.5	25.39	A + B	0.03	0	Right	Cheek	108	DFT-S-OFDM	QPSK	1	53	2528R	1.1	0.099	1.026	0.102	
836.50	167300	Mid	NR Band n5 (Cell)	20	25.5	25.15	A + B	0.08	0	Right	Cheek	108	DFT-S-OFDM	QPSK	50	28	2528R	1.1	0.098	1.084	0.106	
836.50	167300	Mid	NR Band n5 (Cell)	20	24.0	23.23	A + B	0.02	1.5	Right	Cheek	108	CP-OFDM	QPSK	1	1	2528R	1.1	0.075	1.194	0.090	
836.50	167300	Mid	NR Band n5 (Cell)	20	25.5	25.39	A + B	-0.01	0	Right	Tilt	108	DFT-S-OFDM	QPSK	1	53	2528R	1.1	0.034	1.026	0.035	
836.50	167300	Mid	NR Band n5 (Cell)	20	25.5	25.15	A + B	0.02	0	Right	Tilt	108	DFT-S-OFDM	QPSK	50	28	2528R	1.1	0.032	1.084	0.035	
836.50	167300	Mid	NR Band n5 (Cell)	20	25.5	25.39	A + B	0.03	0	Left	Cheek	108	DFT-S-OFDM	QPSK	1	53	2528R	1.1	0.079	1.026	0.081	
836.50	167300	Mid	NR Band n5 (Cell)	20	25.5	25.15	A + B	0.04	0	Left	Cheek	108	DFT-S-OFDM	QPSK	50	28	2528R	1.1	0.076	1.084	0.082	
836.50	167300	Mid	NR Band n5 (Cell)	20	25.5	25.39	A + B	-0.04	0	Left	Tilt	108	DFT-S-OFDM	QPSK	1	53	2528R	1.1	0.032	1.026	0.033	
836.50	167300	Mid	NR Band n5 (Cell)	20	25.5	25.15	A + B	-0.03	0	Left	Tilt	108	DFT-S-OFDM	QPSK	50	28	2528R	1.1	0.035	1.084	0.038	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT												Head										
Spatial Peak												1.6 W/kg (mW/g)										
Uncontrolled Exposure/General Population												averaged over 1 gram										

FCC ID: A3LSMF926U	 PCTEST Proud to be part of 	SAR EVALUATION REPORT		Approved by: Quality Manager
Document S/N: 1M2104020031-01.A3L (Rev 1)	Test Dates: 04/06/21 - 06/09/21	DUT Type: Portable Handset		Page 101 of 245

Table 11-24
NR Band n66 (AWS) Head SAR

MEASUREMENT RESULTS																						
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Antenna Config	Power Drift [dB]	MPR [dB]	Side	Test Position	Antenna State	Waveform	Modulation	RB Size	RB Offset	Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.																	(W/kg)		(W/kg)		
1745.00	349000	Mid	NR Band n66 (AWS)	40	25.0	23.54	B	0.13	0	Right	Cheek	N/A	DFT-S-OFDM	QPSK	1	108	1619M	1:1	0.046	1.400	0.064	
1745.00	349000	Mid	NR Band n66 (AWS)	40	25.0	23.08	B	-0.02	0	Right	Cheek	N/A	DFT-S-OFDM	QPSK	108	54	1619M	1:1	0.046	1.556	0.072	
1745.00	349000	Mid	NR Band n66 (AWS)	40	25.0	23.54	B	-0.08	0	Right	Tilt	N/A	DFT-S-OFDM	QPSK	1	108	1619M	1:1	0.048	1.400	0.067	
1745.00	349000	Mid	NR Band n66 (AWS)	40	25.0	23.08	B	-0.05	0	Right	Tilt	N/A	DFT-S-OFDM	QPSK	108	54	1619M	1:1	0.050	1.556	0.078	
1745.00	349000	Mid	NR Band n66 (AWS)	40	25.0	23.54	B	0.02	0	Left	Cheek	N/A	DFT-S-OFDM	QPSK	1	108	1619M	1:1	0.051	1.400	0.071	
1745.00	349000	Mid	NR Band n66 (AWS)	40	25.0	23.08	B	0.10	0	Left	Cheek	N/A	DFT-S-OFDM	QPSK	108	54	1619M	1:1	0.053	1.556	0.082	
1745.00	349000	Mid	NR Band n66 (AWS)	40	23.5	22.24	B	-0.12	1.5	Left	Cheek	N/A	CP-OFDM	QPSK	1	1	1619M	1:1	0.045	1.337	0.060	
1745.00	349000	Mid	NR Band n66 (AWS)	40	25.0	23.54	B	0.05	0	Left	Tilt	N/A	DFT-S-OFDM	QPSK	1	108	1619M	1:1	0.037	1.400	0.052	
1745.00	349000	Mid	NR Band n66 (AWS)	40	25.0	23.08	B	-0.14	0	Left	Tilt	N/A	DFT-S-OFDM	QPSK	108	54	1619M	1:1	0.044	1.556	0.068	
1745.00	349000	Mid	NR Band n66 (AWS)	40	20.5	19.43	E	0.04	0	Right	Cheek	N/A	DFT-S-OFDM	QPSK	1	108	1619M	1:1	0.233	1.279	0.298	
1745.00	349000	Mid	NR Band n66 (AWS)	40	20.5	19.42	E	0.01	0	Right	Cheek	N/A	DFT-S-OFDM	QPSK	108	0	1619M	1:1	0.236	1.282	0.303	
1745.00	349000	Mid	NR Band n66 (AWS)	40	20.5	19.43	E	0.00	0	Right	Tilt	N/A	DFT-S-OFDM	QPSK	1	108	1619M	1:1	0.271	1.279	0.347	
1745.00	349000	Mid	NR Band n66 (AWS)	40	20.5	19.42	E	0.02	0	Right	Tilt	N/A	DFT-S-OFDM	QPSK	108	0	1619M	1:1	0.281	1.282	0.360	A24
1745.00	349000	Mid	NR Band n66 (AWS)	40	20.5	19.58	E	-0.04	0	Right	Tilt	N/A	CP-OFDM	QPSK	1	1	1619M	1:1	0.272	1.236	0.336	
1745.00	349000	Mid	NR Band n66 (AWS)	40	20.5	19.43	E	0.03	0	Left	Cheek	N/A	DFT-S-OFDM	QPSK	1	108	1619M	1:1	0.147	1.279	0.188	
1745.00	349000	Mid	NR Band n66 (AWS)	40	20.5	19.42	E	-0.02	0	Left	Cheek	N/A	DFT-S-OFDM	QPSK	108	0	1619M	1:1	0.140	1.282	0.179	
1745.00	349000	Mid	NR Band n66 (AWS)	40	20.5	19.43	E	0.05	0	Left	Tilt	N/A	DFT-S-OFDM	QPSK	1	108	1619M	1:1	0.256	1.279	0.327	
1745.00	349000	Mid	NR Band n66 (AWS)	40	20.5	19.42	E	0.03	0	Left	Tilt	N/A	DFT-S-OFDM	QPSK	108	0	1619M	1:1	0.267	1.282	0.342	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT										Head												
Spatial Peak										1.6 W/kg (mW/g)												
Uncontrolled Exposure/General Population										averaged over 1 gram												

Table 11-25
NR Band n25 (PCS) Head SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Antenna Config	Power Drift [dB]	MPR [dB]	Side	Test Position	Waveform	Modulation	RB Size	RB Offset	Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.																(W/kg)		(W/kg)		
1882.50	376500	Mid	NR Band n25 (PCS)	40	25.0	24.00	B	0.11	0	Right	Cheek	DFT-S-OFDM	QPSK	1	1	1619M	1:1	0.049	1.259	0.062	
1882.50	376500	Mid	NR Band n25 (PCS)	40	25.0	23.78	B	0.03	0	Right	Cheek	DFT-S-OFDM	QPSK	108	54	1619M	1:1	0.061	1.324	0.081	
1882.50	376500	Mid	NR Band n25 (PCS)	40	25.0	24.00	B	0.13	0	Right	Tilt	DFT-S-OFDM	QPSK	1	1	1619M	1:1	0.027	1.259	0.034	
1882.50	376500	Mid	NR Band n25 (PCS)	40	25.0	23.78	B	0.05	0	Right	Tilt	DFT-S-OFDM	QPSK	108	54	1619M	1:1	0.033	1.324	0.044	
1882.50	376500	Mid	NR Band n25 (PCS)	40	25.0	24.00	B	0.02	0	Left	Cheek	DFT-S-OFDM	QPSK	1	1	1619M	1:1	0.068	1.259	0.086	
1882.50	376500	Mid	NR Band n25 (PCS)	40	25.0	23.78	B	0.14	0	Left	Cheek	DFT-S-OFDM	QPSK	108	54	1619M	1:1	0.074	1.324	0.098	
1882.50	376500	Mid	NR Band n25 (PCS)	40	23.5	22.38	B	0.18	1.5	Left	Cheek	CP-OFDM	QPSK	1	1	1619M	1:1	0.052	1.294	0.067	
1882.50	376500	Mid	NR Band n25 (PCS)	40	25.0	24.00	B	-0.15	0	Left	Tilt	DFT-S-OFDM	QPSK	1	1	1619M	1:1	0.033	1.259	0.042	
1882.50	376500	Mid	NR Band n25 (PCS)	40	25.0	23.78	B	0.06	0	Left	Tilt	DFT-S-OFDM	QPSK	108	54	1619M	1:1	0.048	1.324	0.064	
1882.50	376500	Mid	NR Band n25 (PCS)	40	20.5	19.97	E	0.10	0	Right	Cheek	DFT-S-OFDM	QPSK	1	214	1619M	1:1	0.243	1.130	0.275	
1882.50	376500	Mid	NR Band n25 (PCS)	40	20.5	19.88	E	0.07	0	Right	Cheek	DFT-S-OFDM	QPSK	108	108	1619M	1:1	0.255	1.153	0.294	
1882.50	376500	Mid	NR Band n25 (PCS)	40	20.5	19.97	E	0.07	0	Right	Tilt	DFT-S-OFDM	QPSK	1	214	1619M	1:1	0.265	1.130	0.299	
1882.50	376500	Mid	NR Band n25 (PCS)	40	20.5	19.88	E	0.00	0	Right	Tilt	DFT-S-OFDM	QPSK	108	108	1619M	1:1	0.286	1.153	0.330	
1882.50	376500	Mid	NR Band n25 (PCS)	40	20.5	19.97	E	0.10	0	Left	Cheek	DFT-S-OFDM	QPSK	1	214	1619M	1:1	0.223	1.130	0.252	
1882.50	376500	Mid	NR Band n25 (PCS)	40	20.5	19.88	E	0.03	0	Left	Cheek	DFT-S-OFDM	QPSK	108	108	1619M	1:1	0.233	1.153	0.269	
1882.50	376500	Mid	NR Band n25 (PCS)	40	20.5	19.97	E	0.01	0	Left	Tilt	DFT-S-OFDM	QPSK	1	214	1619M	1:1	0.284	1.130	0.321	
1882.50	376500	Mid	NR Band n25 (PCS)	40	20.5	19.88	E	0.09	0	Left	Tilt	DFT-S-OFDM	QPSK	108	108	1619M	1:1	0.301	1.153	0.347	A25
1882.50	376500	Mid	NR Band n25 (PCS)	40	20.5	19.76	E	0.03	0	Left	Tilt	CP-OFDM	QPSK	1	1	1619M	1:1	0.284	1.186	0.337	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT										Head											
Spatial Peak										1.6 W/kg (mW/g)											
Uncontrolled Exposure/General Population										averaged over 1 gram											

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Document S/N: 1M2104020031-01.A3L (Rev 1)	Test Dates: 04/06/21 - 06/09/21	DUT Type: Portable Handset		Page 102 of 245

Table 11-26
NR Band n30 Head SAR

MEASUREMENT RESULTS																						
FREQUENCY		Mode	Bandwidth [kHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Antenna Config	Power Drift [dB]	MPR [dB]	Side	Test Position	Antenna State	Waveform	Modulation	RB Size	RB Offset	Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.																	(W/kg)		(W/kg)		
2310.00	462000	Mid	NR Band n30	10	22.5	21.05	B	0.04	0	Right	Cheek	0	DFT-S-OFDM	QPSK	1	26	1619M	1:1	0.034	1.396	0.047	A26
2310.00	462000	Mid	NR Band n30	10	22.5	20.94	B	0.03	0	Right	Cheek	0	DFT-S-OFDM	QPSK	25	27	1619M	1:1	0.032	1.432	0.046	
2310.00	462000	Mid	NR Band n30	10	22.5	20.85	B	-0.12	0	Right	Cheek	0	CP-OFDM	QPSK	1	1	1619M	1:1	0.027	1.462	0.039	
2310.00	462000	Mid	NR Band n30	10	22.5	21.05	B	0.09	0	Right	Tilt	0	DFT-S-OFDM	QPSK	1	26	1619M	1:1	0.020	1.396	0.028	
2310.00	462000	Mid	NR Band n30	10	22.5	20.94	B	0.07	0	Right	Tilt	0	DFT-S-OFDM	QPSK	25	27	1619M	1:1	0.020	1.432	0.029	
2310.00	462000	Mid	NR Band n30	10	22.5	21.05	B	0.03	0	Left	Cheek	0	DFT-S-OFDM	QPSK	1	26	1619M	1:1	0.028	1.396	0.039	
2310.00	462000	Mid	NR Band n30	10	22.5	20.94	B	0.16	0	Left	Cheek	0	DFT-S-OFDM	QPSK	25	27	1619M	1:1	0.031	1.432	0.044	
2310.00	462000	Mid	NR Band n30	10	22.5	21.05	B	0.11	0	Left	Tilt	0	DFT-S-OFDM	QPSK	1	26	1619M	1:1	0.020	1.396	0.028	
2310.00	462000	Mid	NR Band n30	10	22.5	20.94	B	0.08	0	Left	Tilt	0	DFT-S-OFDM	QPSK	25	27	1619M	1:1	0.020	1.432	0.029	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT										Head												
Spatial Peak										1.6 W/kg (mW/g)												
Uncontrolled Exposure/General Population										averaged over 1 gram												

Table 11-27
NR Band n41 Head SAR

MEASUREMENT RESULTS																						
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Antenna Config	Power Drift [dB]	MPR [dB]	Side	Test Position	Antenna State	Waveform	Modulation	RB Size	RB Offset	Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.																		(W/kg)		(W/kg)	
2592.99	518598	Mid	NR Band n41	100	19.0	17.72	E	0.00	0	Right	Cheek	0	DFT-S-OFDM	QPSK	1	137	0372M	1:1	0.117	1.343	0.157	A27
2592.99	518598	Mid	NR Band n41	100	19.0	17.81	E	0.00	0	Right	Cheek	0	DFT-S-OFDM	QPSK	135	0	0372M	1:1	0.114	1.315	0.150	
2592.99	518598	Mid	NR Band n41	100	19.0	17.72	E	0.03	0	Right	Tilt	0	DFT-S-OFDM	QPSK	1	137	0372M	1:1	0.201	1.343	0.270	
2592.99	518598	Mid	NR Band n41	100	19.0	17.81	E	-0.01	0	Right	Tilt	0	DFT-S-OFDM	QPSK	135	0	0372M	1:1	0.204	1.315	0.268	
2592.99	518598	Mid	NR Band n41	100	19.0	17.76	E	-0.08	0	Right	Tilt	0	CP-OFDM	QPSK	1	1	0372M	1:1	0.183	1.330	0.243	
2592.99	518598	Mid	NR Band n41	100	19.0	17.72	E	0.13	0	Left	Cheek	0	DFT-S-OFDM	QPSK	1	137	0372M	1:1	0.123	1.343	0.165	
2592.99	518598	Mid	NR Band n41	100	19.0	17.81	E	0.01	0	Left	Cheek	0	DFT-S-OFDM	QPSK	135	0	0372M	1:1	0.119	1.315	0.156	
2592.99	518598	Mid	NR Band n41	100	19.0	17.72	E	0.03	0	Left	Tilt	0	DFT-S-OFDM	QPSK	1	137	0372M	1:1	0.178	1.343	0.239	
2592.99	518598	Mid	NR Band n41	100	19.0	17.81	E	0.00	0	Left	Tilt	0	DFT-S-OFDM	QPSK	135	0	0372M	1:1	0.164	1.315	0.216	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population											Head 1.6 W/kg (mW/g) averaged over 1 gram											

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Document S/N: 1M2104020031-01.A3L (Rev 1)	Test Dates: 04/06/21 - 06/09/21	DUT Type: Portable Handset
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Table 11-28
NR Band n77 DoD Head SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Antenna Config	Power Drift [dB]	MPR [dB]	Side	Test Position	Waveform	Modulation	RB Size	RB Offset	Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.																(W/kg)		(W/kg)		
3500.01	633334	Mid	NR Band n77	100	19.0	18.96	E	0.03	0.0	Right	Cheek	DFT-S-OFDM	QPSK	1	137	0330M	1:1	0.105	1.009	0.106	
3500.01	633334	Mid	NR Band n77	100	19.0	18.97	E	0.03	0.0	Right	Cheek	DFT-S-OFDM	QPSK	135	69	0330M	1:1	0.107	1.007	0.108	
3500.01	633334	Mid	NR Band n77	100	19.0	18.96	E	0.03	0.0	Right	Tilt	DFT-S-OFDM	QPSK	1	137	0330M	1:1	0.123	1.009	0.124	
3500.01	633334	Mid	NR Band n77	100	19.0	18.97	E	0.03	0.0	Right	Tilt	DFT-S-OFDM	QPSK	135	69	0330M	1:1	0.128	1.007	0.129	
3500.01	633334	Mid	NR Band n77	100	19.0	18.81	E	0.13	0.0	Right	Tilt	CP-OFDM	QPSK	1	1	0330M	1:1	0.129	1.045	0.135	
3500.01	633334	Mid	NR Band n77	100	19.0	18.96	E	-0.07	0.0	Left	Cheek	DFT-S-OFDM	QPSK	1	137	0330M	1:1	0.094	1.009	0.095	
3500.01	633334	Mid	NR Band n77	100	19.0	18.97	E	-0.04	0.0	Left	Cheek	DFT-S-OFDM	QPSK	135	69	0330M	1:1	0.089	1.007	0.090	
3500.01	633334	Mid	NR Band n77	100	19.0	18.96	E	-0.01	0.0	Left	Tilt	DFT-S-OFDM	QPSK	1	137	0330M	1:1	0.091	1.009	0.092	
3500.01	633334	Mid	NR Band n77	100	19.0	18.97	E	-0.19	0.0	Left	Tilt	DFT-S-OFDM	QPSK	135	69	0330M	1:1	0.089	1.007	0.090	
3500.01	633334	Mid	NR Band n77	100	19.0	18.78	G	0.15	0.0	Right	Cheek	DFT-S-OFDM	QPSK	1	1	0330M	1:1	0.051	1.052	0.054	
3500.01	633334	Mid	NR Band n77	100	19.0	18.64	G	0.17	0.0	Right	Cheek	DFT-S-OFDM	QPSK	135	0	0330M	1:1	0.049	1.086	0.053	
3500.01	633334	Mid	NR Band n77	100	19.0	18.81	G	0.12	0.0	Right	Cheek	CP-OFDM	QPSK	1	1	0330M	1:1	0.050	1.045	0.052	
3500.01	633334	Mid	NR Band n77	100	19.0	18.78	G	0.02	0.0	Right	Tilt	DFT-S-OFDM	QPSK	1	1	0330M	1:1	0.020	1.052	0.021	
3500.01	633334	Mid	NR Band n77	100	19.0	18.64	G	0.03	0.0	Right	Tilt	DFT-S-OFDM	QPSK	135	0	0330M	1:1	0.018	1.086	0.020	
3500.01	633334	Mid	NR Band n77	100	19.0	18.78	G	-0.09	0.0	Left	Cheek	DFT-S-OFDM	QPSK	1	1	0330M	1:1	0.029	1.052	0.031	
3500.01	633334	Mid	NR Band n77	100	19.0	18.64	G	-0.06	0.0	Left	Cheek	DFT-S-OFDM	QPSK	135	0	0330M	1:1	0.027	1.086	0.029	
3500.01	633334	Mid	NR Band n77	100	19.0	18.78	G	-0.20	0.0	Left	Tilt	DFT-S-OFDM	QPSK	1	1	0330M	1:1	0.017	1.052	0.018	
3500.01	633334	Mid	NR Band n77	100	19.0	18.64	G	-0.02	0.0	Left	Tilt	DFT-S-OFDM	QPSK	135	0	0330M	1:1	0.016	1.086	0.017	
3500.01	633334	Mid	NR Band n77	100	17.0	16.67	F	0.06	0.0	Right	Cheek	DFT-S-OFDM	QPSK	1	137	0330M	1:1	0.314	1.079	0.339	
3500.01	633334	Mid	NR Band n77	100	17.0	16.69	F	0.11	0.0	Right	Cheek	DFT-S-OFDM	QPSK	135	69	0330M	1:1	0.325	1.074	0.349	
3500.01	633334	Mid	NR Band n77	100	17.0	16.67	F	0.11	0.0	Right	Tilt	DFT-S-OFDM	QPSK	1	137	0330M	1:1	0.406	1.079	0.438	
3500.01	633334	Mid	NR Band n77	100	17.0	16.69	F	0.00	0.0	Right	Tilt	DFT-S-OFDM	QPSK	135	69	0330M	1:1	0.415	1.074	0.446	
3500.01	633334	Mid	NR Band n77	100	17.0	16.48	F	0.07	0.0	Right	Tilt	CP-OFDM	QPSK	1	1	0330M	1:1	0.445	1.127	0.502	A28
3500.01	633334	Mid	NR Band n77	100	17.0	16.67	F	-0.04	0.0	Left	Cheek	DFT-S-OFDM	QPSK	1	137	0330M	1:1	0.306	1.079	0.330	
3500.01	633334	Mid	NR Band n77	100	17.0	16.69	F	-0.11	0.0	Left	Cheek	DFT-S-OFDM	QPSK	135	69	0330M	1:1	0.298	1.074	0.320	
3500.01	633334	Mid	NR Band n77	100	17.0	16.67	F	-0.02	0.0	Left	Tilt	DFT-S-OFDM	QPSK	1	137	0330M	1:1	0.366	1.079	0.395	
3500.01	633334	Mid	NR Band n77	100	17.0	16.69	F	-0.05	0.0	Left	Tilt	DFT-S-OFDM	QPSK	135	69	0330M	1:1	0.354	1.074	0.380	
3500.01	633334	Mid	NR Band n77	100	16.0	15.26	B	0.01	0.0	Right	Cheek	DFT-S-OFDM	QPSK	1	1	0330M	1:1	0.006	1.186	0.007	
3500.01	633334	Mid	NR Band n77	100	16.0	15.29	B	0.06	0.0	Right	Cheek	DFT-S-OFDM	QPSK	135	69	0330M	1:1	0.004	1.178	0.005	
3500.01	633334	Mid	NR Band n77	100	16.0	15.26	B	0.04	0.0	Right	Tilt	DFT-S-OFDM	QPSK	1	1	0330M	1:1	0.007	1.186	0.008	
3500.01	633334	Mid	NR Band n77	100	16.0	15.29	B	0.05	0.0	Right	Tilt	DFT-S-OFDM	QPSK	135	69	0330M	1:1	0.005	1.178	0.006	
3500.01	633334	Mid	NR Band n77	100	16.0	15.26	B	0.04	0.0	Left	Cheek	DFT-S-OFDM	QPSK	1	1	0330M	1:1	0.006	1.186	0.007	
3500.01	633334	Mid	NR Band n77	100	16.0	15.29	B	-0.06	0.0	Left	Cheek	DFT-S-OFDM	QPSK	135	69	0330M	1:1	0.006	1.178	0.007	
3500.01	633334	Mid	NR Band n77	100	16.0	15.26	B	-0.19	0.0	Left	Tilt	DFT-S-OFDM	QPSK	1	1	0330M	1:1	0.008	1.186	0.009	
3500.01	633334	Mid	NR Band n77	100	16.0	15.29	B	-0.04	0.0	Left	Tilt	DFT-S-OFDM	QPSK	135	69	0330M	1:1	0.007	1.178	0.008	
3500.01	633334	High	NR Band n77	100	16.0	15.23	B	0.14	0.0	Left	Tilt	CP-OFDM	QPSK	1	1	0330M	1:1	0.010	1.194	0.012	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT										Head											
Spatial Peak										1.6 W/kg (mW/g)											
Uncontrolled Exposure/General Population										averaged over 1 gram											

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Document S/N: 1M2104020031-01.A3L (Rev 1)	Test Dates: 04/06/21 - 06/09/21	DUT Type: Portable Handset		Page 104 of 245

Table 11-29
NR Band n77 Head SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Antenna Config	Power Drift [dB]	MPR [dB]	Side	Test Position	Waveform	Modulation	RB Size	RB Offset	Serial Number	Duty Cycle	SAR [1g]	Scaling Factor	Reported SAR [1g]	Plot #	
MHz	Ch.																(W/kg)		(W/kg)		
3750.00	650000	Low	NR Band n77	100	19.0	18.02	E	-0.03	0.0	Right	Cheek	DFT-S-OFDM	QPSK	1	137	0330M	1:1	0.410	1.253	0.514	
3930.00	662000	High	NR Band n77	100	19.0	18.16	E	0.13	0.0	Right	Cheek	DFT-S-OFDM	QPSK	1	137	0330M	1:1	0.363	1.213	0.440	
3750.00	650000	Low	NR Band n77	100	19.0	18.04	E	0.17	0.0	Right	Cheek	DFT-S-OFDM	QPSK	135	69	0330M	1:1	0.401	1.247	0.500	
3930.00	662000	High	NR Band n77	100	19.0	18.22	E	0.09	0.0	Right	Cheek	DFT-S-OFDM	QPSK	135	69	0330M	1:1	0.367	1.197	0.439	
3930.00	662000	High	NR Band n77	100	19.0	18.15	E	0.16	0.0	Right	Cheek	DFT-S-OFDM	QPSK	270	0	0330M	1:1	0.389	1.216	0.473	
3750.00	650000	Low	NR Band n77	100	19.0	18.02	E	0.04	0.0	Right	Tilt	DFT-S-OFDM	QPSK	1	137	0330M	1:1	0.585	1.253	0.733	
3930.00	662000	High	NR Band n77	100	19.0	18.16	E	0.04	0.0	Right	Tilt	DFT-S-OFDM	QPSK	1	137	0330M	1:1	0.513	1.213	0.622	
3750.00	650000	Low	NR Band n77	100	19.0	18.04	E	0.05	0.0	Right	Tilt	DFT-S-OFDM	QPSK	135	69	0330M	1:1	0.574	1.247	0.716	
3930.00	662000	High	NR Band n77	100	19.0	18.22	E	0.08	0.0	Right	Tilt	DFT-S-OFDM	QPSK	135	69	0330M	1:1	0.504	1.197	0.603	
3930.00	662000	High	NR Band n77	100	19.0	18.15	E	0.11	0.0	Right	Tilt	DFT-S-OFDM	QPSK	270	0	0330M	1:1	0.531	1.216	0.646	
3930.00	662000	High	NR Band n77	100	19.0	18.28	E	-0.09	0.0	Right	Tilt	CP-OFDM	QPSK	1	1	0330M	1:1	0.598	1.180	0.706	A29
3930.00	662000	High	NR Band n77	100	19.0	18.16	E	-0.04	0.0	Left	Cheek	DFT-S-OFDM	QPSK	1	137	0330M	1:1	0.194	1.213	0.235	
3930.00	662000	High	NR Band n77	100	19.0	18.22	E	-0.08	0.0	Left	Cheek	DFT-S-OFDM	QPSK	135	69	0330M	1:1	0.197	1.197	0.236	
3930.00	662000	High	NR Band n77	100	19.0	18.16	E	-0.01	0.0	Left	Tilt	DFT-S-OFDM	QPSK	1	137	0330M	1:1	0.295	1.213	0.358	
3930.00	662000	High	NR Band n77	100	19.0	18.22	E	-0.16	0.0	Left	Tilt	DFT-S-OFDM	QPSK	135	69	0330M	1:1	0.294	1.197	0.352	
3930.00	662000	High	NR Band n77	100	19.0	18.29	G	0.03	0.0	Right	Cheek	DFT-S-OFDM	QPSK	1	271	0330M	1:1	0.020	1.178	0.024	
3930.00	662000	High	NR Band n77	100	19.0	18.34	G	0.10	0.0	Right	Cheek	DFT-S-OFDM	QPSK	135	69	0330M	1:1	0.030	1.164	0.035	
3930.00	662000	High	NR Band n77	100	19.0	18.02	G	0.11	0.0	Right	Cheek	CP-OFDM	QPSK	1	1	0330M	1:1	0.032	1.253	0.040	
3930.00	662000	High	NR Band n77	100	19.0	18.29	G	-0.05	0.0	Right	Tilt	DFT-S-OFDM	QPSK	1	271	0330M	1:1	0.003	1.178	0.004	
3930.00	662000	High	NR Band n77	100	19.0	18.34	G	-0.05	0.0	Right	Tilt	DFT-S-OFDM	QPSK	135	69	0330M	1:1	0.004	1.164	0.005	
3930.00	662000	High	NR Band n77	100	19.0	18.29	G	-0.09	0.0	Left	Cheek	DFT-S-OFDM	QPSK	1	271	0330M	1:1	0.015	1.178	0.018	
3930.00	662000	High	NR Band n77	100	19.0	18.34	G	-0.05	0.0	Left	Cheek	DFT-S-OFDM	QPSK	135	69	0330M	1:1	0.024	1.164	0.028	
3930.00	662000	High	NR Band n77	100	19.0	18.29	G	-0.09	0.0	Left	Tilt	DFT-S-OFDM	QPSK	1	271	0330M	1:1	0.021	1.178	0.025	
3930.00	662000	High	NR Band n77	100	19.0	18.34	G	-0.11	0.0	Left	Tilt	DFT-S-OFDM	QPSK	135	69	0330M	1:1	0.018	1.164	0.021	
3930.00	662000	High	NR Band n77	100	17.0	15.89	F	0.14	0.0	Right	Cheek	DFT-S-OFDM	QPSK	1	137	0330M	1:1	0.289	1.291	0.373	
3930.00	662000	High	NR Band n77	100	17.0	15.95	F	0.07	0.0	Right	Cheek	DFT-S-OFDM	QPSK	135	69	0330M	1:1	0.297	1.274	0.378	
3750.00	650000	Low	NR Band n77	100	17.0	15.34	F	0.15	0.0	Right	Tilt	DFT-S-OFDM	QPSK	1	137	0330M	1:1	0.300	1.466	0.440	
3930.00	662000	High	NR Band n77	100	17.0	15.89	F	0.02	0.0	Right	Tilt	DFT-S-OFDM	QPSK	1	137	0330M	1:1	0.329	1.291	0.425	
3750.00	650000	Low	NR Band n77	100	17.0	15.41	F	0.11	0.0	Right	Tilt	DFT-S-OFDM	QPSK	135	138	0330M	1:1	0.293	1.442	0.423	
3930.00	662000	High	NR Band n77	100	17.0	15.95	F	0.12	0.0	Right	Tilt	DFT-S-OFDM	QPSK	135	69	0330M	1:1	0.327	1.274	0.417	
3930.00	662000	High	NR Band n77	100	17.0	15.84	F	0.14	0.0	Right	Tilt	DFT-S-OFDM	QPSK	270	0	0330M	1:1	0.276	1.306	0.360	
3930.00	662000	High	NR Band n77	100	17.0	15.47	F	0.02	0.0	Right	Tilt	CP-OFDM	QPSK	1	1	0330M	1:1	0.279	1.422	0.397	
3930.00	662000	High	NR Band n77	100	17.0	15.89	F	-0.06	0.0	Left	Cheek	DFT-S-OFDM	QPSK	1	137	0330M	1:1	0.236	1.291	0.305	
3930.00	662000	High	NR Band n77	100	17.0	15.95	F	-0.08	0.0	Left	Cheek	DFT-S-OFDM	QPSK	135	69	0330M	1:1	0.227	1.274	0.289	
3930.00	662000	High	NR Band n77	100	17.0	15.89	F	0.00	0.0	Left	Tilt	DFT-S-OFDM	QPSK	1	137	0330M	1:1	0.303	1.291	0.391	
3930.00	662000	High	NR Band n77	100	17.0	15.95	F	0.04	0.0	Left	Tilt	DFT-S-OFDM	QPSK	135	69	0330M	1:1	0.301	1.274	0.383	
3930.00	662000	High	NR Band n77	100	16.0	14.99	B	0.16	0.0	Right	Cheek	DFT-S-OFDM	QPSK	1	137	0330M	1:1	0.002	1.262	0.003	
3930.00	662000	High	NR Band n77	100	16.0	14.95	B	0.06	0.0	Right	Cheek	DFT-S-OFDM	QPSK	135	69	0330M	1:1	0.004	1.274	0.005	
3930.00	662000	High	NR Band n77	100	16.0	14.27	B	-0.03	0.0	Right	Cheek	CP-OFDM	QPSK	1	1	0330M	1:1	0.007	1.489	0.010	
3930.00	662000	High	NR Band n77	100	16.0	14.99	B	-0.03	0.0	Right	Tilt	DFT-S-OFDM	QPSK	1	137	0330M	1:1	0.000	1.262	0.000	
3930.00	662000	High	NR Band n77	100	16.0	14.95	B	-0.09	0.0	Right	Tilt	DFT-S-OFDM	QPSK	135	69	0330M	1:1	0.000	1.274	0.000	
3930.00	662000	High	NR Band n77	100	16.0	14.99	B	-0.05	0.0	Left	Cheek	DFT-S-OFDM	QPSK	1	137	0330M	1:1	0.001	1.262	0.001	
3930.00	662000	High	NR Band n77	100	16.0	14.95	B	-0.05	0.0	Left	Cheek	DFT-S-OFDM	QPSK	135	69	0330M	1:1	0.002	1.274	0.003	
3930.00	662000	High	NR Band n77	100	16.0	14.99	B	0.04	0.0	Left	Tilt	DFT-S-OFDM	QPSK	1	137	0330M	1:1	0.001	1.262	0.001	
3930.00	662000	High	NR Band n77	100	16.0	14.95	B	0.06	0.0	Left	Tilt	DFT-S-OFDM	QPSK	135	69	0330M	1:1	0.002	1.274	0.003	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT										Head											
Spatial Peak										1.6 W/kg (mW/g)											
Uncontrolled Exposure/General Population										averaged over 1 gram											

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**Table 11-30
DTS SISO Head SAR**

MEASUREMENT RESULTS																			
FREQUENCY		Mode	Service	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Side	Test Position	Antenna Config.	Device Serial Number	Data Rate (Mbps)	Duty Cycle (%)	Peak SAR of Area Scan	SAR (1g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot #
MHz	Ch.													W/kg	(W/kg)			(W/kg)	
2462	11	802.11b	DSSS	22	13.0	12.87	-0.05	Right	Cheek	1	2007M	1	98.9	1.017	0.495	1.030	1.011	0.515	A30
2462	11	802.11b	DSSS	22	13.0	12.87	0.19	Right	Tilt	1	2007M	1	98.9	0.478	0.399	1.030	1.011	0.415	
2462	11	802.11b	DSSS	22	13.0	12.87	-0.05	Left	Cheek	1	2007M	1	98.9	0.327	-	1.030	1.011	-	
2462	11	802.11b	DSSS	22	13.0	12.87	0.03	Left	Tilt	1	2007M	1	98.9	0.455	-	1.030	1.011	-	
2412	1	802.11b	DSSS	22	13.0	12.85	0.09	Right	Cheek	2	2007M	1	98.9	0.003	-	1.035	1.011	-	
2412	1	802.11b	DSSS	22	13.0	12.85	0.03	Right	Tilt	2	2007M	1	98.9	0.003	-	1.035	1.011	-	
2412	1	802.11b	DSSS	22	13.0	12.85	0.17	Left	Cheek	2	2007M	1	98.9	0.019	0.001	1.035	1.011	0.001	
2412	1	802.11b	DSSS	22	13.0	12.85	0.04	Left	Tilt	2	2007M	1	98.9	0.002	-	1.035	1.011	-	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population								Head 1.6 W/kg (mW/g) averaged over 1 gram											

**Table 11-31
DTS MIMO Head SAR**

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Service	Bandwidth (MHz)	Maximum Allowed Power (Ant 1) (dBm)	Conducted Power (Ant 1) (dBm)	Maximum Allowed Power (Ant 2) (dBm)	Conducted Power (Ant 2) (dBm)	Power Drift (dB)	Side	Test Position	Antenna Config.	Device Serial Number	Data Rate (Mbps)	Duty Cycle (%)	Peak SAR of Area Scan	SAR (1g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot #
MHz	Ch.															W/kg	(W/kg)			(W/kg)	
2437	6	802.11n	OFDM	20	13.0	12.96	13.0	12.77	0.01	Right	Cheek	MIMO	2007M	13	92.2	0.564	0.405	1.054	1.084	0.463	
2437	6	802.11n	OFDM	20	13.0	12.96	13.0	12.77	0.04	Right	Tilt	MIMO	2007M	13	92.2	0.523	0.363	1.054	1.084	0.415	
2437	6	802.11n	OFDM	20	13.0	12.96	13.0	12.77	-0.03	Left	Cheek	MIMO	2007M	13	92.2	0.263	-	1.054	1.084	-	
2437	6	802.11n	OFDM	20	13.0	12.96	13.0	12.77	-0.03	Left	Tilt	MIMO	2007M	13	92.2	0.308	-	1.054	1.084	-	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT											Head										
Spatial Peak											1.6 W/kg (mW/g)										
Uncontrolled Exposure/General Population											averaged over 1 gram										

Note: To achieve the 16.0 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 13.0 dBm.

**Table 11-32
DTS MIMO Head SAR for Conditions with 5G NR Active**

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Service	Bandwidth [MHz]	Maximum Allowed Power [Ant 1] [dBm]	Conducted Power [Ant 1] [dBm]	Maximum Allowed Power [Ant 2] [dBm]	Conducted Power [Ant 2] [dBm]	Power Drift [dB]	Side	Test Position	Antenna Config.	Device Serial Number	Data Rate (Mbps)	Duty Cycle (%)	Peak SAR of Area Scan	SAR (1g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot #
MHz	Ch.															W/kg	(W/kg)			(W/kg)	
2462	11	802.11n	OFDM	20	11.0	10.69	11.0	10.73	-0.03	Right	Cheek	MIMO	2007M	13	92.2	0.321	0.279	1.074	1.084	0.325	
2462	11	802.11n	OFDM	20	11.0	10.69	11.0	10.73	0.01	Right	Tilt	MIMO	2007M	13	92.2	0.304	0.205	1.074	1.084	0.239	
2462	11	802.11n	OFDM	20	11.0	10.69	11.0	10.73	-0.06	Left	Cheek	MIMO	2007M	13	92.2	0.131	-	1.074	1.084	-	
2462	11	802.11n	OFDM	20	11.0	10.69	11.0	10.73	0.03	Left	Tilt	MIMO	2007M	13	92.2	0.212	0.159	1.074	1.084	0.185	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT											Head										
Spatial Peak											1.6 W/kg (mW/g)										
Uncontrolled Exposure/General Population											averaged over 1 gram										

Note: To achieve the 14.0 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 11.0 dBm. 5G NR was not transmitting during the above evaluations.

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Table 11-33
NII SISO Head SAR

MEASUREMENT RESULTS																			
FREQUENCY		Mode	Service	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Side	Test Position	Antenna Config.	Device Serial Number	Data Rate (Mbps)	Duty Cycle (%)	Peak SAR of Area Scan	SAR (1g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot #
MHz	Ch.													W/kg	(W/kg)			(W/kg)	
5290	58	802.11ac	OFDM	80	12.0	11.65	-0.07	Right	Cheek	1	1580M	29.3	86.1	0.243	-	1.084	1.161	-	
5290	58	802.11ac	OFDM	80	12.0	11.65	-0.07	Right	Tilt	1	1580M	29.3	86.1	0.310	0.213	1.084	1.161	0.268	
5290	58	802.11ac	OFDM	80	12.0	11.65	0.00	Left	Cheek	1	1580M	29.3	86.1	0.159	-	1.084	1.161	-	
5290	58	802.11ac	OFDM	80	12.0	11.65	-0.01	Left	Tilt	1	1580M	29.3	86.1	0.162	-	1.084	1.161	-	
5690	138	802.11ac	OFDM	80	12.0	11.95	0.11	Right	Cheek	1	1580M	29.3	86.1	0.180	-	1.012	1.161	-	
5690	138	802.11ac	OFDM	80	12.0	11.95	0.06	Right	Tilt	1	1580M	29.3	86.1	0.207	0.163	1.012	1.161	0.192	
5690	138	802.11ac	OFDM	80	12.0	11.95	-0.06	Left	Cheek	1	1580M	29.3	86.1	0.149	-	1.012	1.161	-	
5690	138	802.11ac	OFDM	80	12.0	11.95	-0.03	Left	Tilt	1	1580M	29.3	86.1	0.147	-	1.012	1.161	-	
5775	155	802.11ac	OFDM	80	12.0	11.67	0.05	Right	Cheek	1	1580M	29.3	86.1	0.138	-	1.079	1.161	-	
5775	155	802.11ac	OFDM	80	12.0	11.67	0.04	Right	Tilt	1	1580M	29.3	86.1	0.217	0.139	1.079	1.161	0.174	
5775	155	802.11ac	OFDM	80	12.0	11.67	-0.08	Left	Cheek	1	1580M	29.3	86.1	0.187	-	1.079	1.161	-	
5775	155	802.11ac	OFDM	80	12.0	11.67	-0.05	Left	Tilt	1	1580M	29.3	86.1	0.155	-	1.079	1.161	-	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population									Head 1.6 W/kg (mW/g) averaged over 1 gram										

Table 11-34
NII MIMO Head SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Service	Bandwidth [MHz]	Maximum Allowed Power (Ant 1) [dBm]	Conducted Power (Ant 1) [dBm]	Maximum Allowed Power (Ant 2) [dBm]	Conducted Power (Ant 2) [dBm]	Power Drift [dB]	Side	Test Position	Antenna Config.	Device Serial Number	Data Rate (Mbps)	Duty Cycle (%)	Peak SAR of Area Scan	SAR (1g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot #
MHz	Ch.															W/kg	(W/kg)			(W/kg)	
5290	58	802.11ac	OFDM	80	12.0	11.65	12.0	11.82	0.11	Right	Cheek	MIMO	1580M	58.5	86.3	0.217	-	1.084	1.159	-	
5290	58	802.11ac	OFDM	80	12.0	11.65	12.0	11.82	-0.04	Right	Tilt	MIMO	1580M	58.5	86.3	0.228	0.238	1.084	1.159	0.299	A31
5290	58	802.11ac	OFDM	80	12.0	11.65	12.0	11.82	-0.05	Left	Cheek	MIMO	1580M	58.5	86.3	0.184	-	1.084	1.159	-	
5290	58	802.11ac	OFDM	80	12.0	11.65	12.0	11.82	0.03	Left	Tilt	MIMO	1580M	58.5	86.3	0.181	-	1.084	1.159	-	
5690	138	802.11ac	OFDM	80	12.0	11.95	12.0	11.92	0.04	Right	Cheek	MIMO	1580M	58.5	86.3	0.221	0.185	1.019	1.159	0.218	
5690	138	802.11ac	OFDM	80	12.0	11.95	12.0	11.92	0.02	Right	Tilt	MIMO	1580M	58.5	86.3	0.178	-	1.019	1.159	-	
5690	138	802.11ac	OFDM	80	12.0	11.95	12.0	11.92	-0.12	Left	Cheek	MIMO	1580M	58.5	86.3	0.208	-	1.019	1.159	-	
5690	138	802.11ac	OFDM	80	12.0	11.95	12.0	11.92	0.00	Left	Tilt	MIMO	1580M	58.5	86.3	0.177	-	1.019	1.159	-	
5775	155	802.11ac	OFDM	80	12.0	11.67	12.0	11.69	0.13	Right	Cheek	MIMO	1580M	58.5	86.3	0.209	-	1.079	1.159	-	
5775	155	802.11ac	OFDM	80	12.0	11.67	12.0	11.69	-0.02	Right	Tilt	MIMO	1580M	58.5	86.3	0.239	0.208	1.079	1.159	0.260	
5775	155	802.11ac	OFDM	80	12.0	11.67	12.0	11.69	-0.19	Left	Cheek	MIMO	1580M	58.5	86.3	0.193	-	1.079	1.159	-	
5775	155	802.11ac	OFDM	80	12.0	11.67	12.0	11.69	-0.14	Left	Tilt	MIMO	1580M	58.5	86.3	0.189	-	1.079	1.159	-	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population											Head 1.6 W/kg (mW/g) averaged over 1 gram										

Note: To achieve the 15.0 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 12.0 dBm.

Table 11-35
DSS Head SAR

MEASUREMENT RESULTS																	
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Side	Test Position	Antenna Config.	Device Serial Number	Data Rate (Mbps)	Duty Cycle (%)	SAR (1g)	Scaling Factor (Cond Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot #
MHz	Ch.												(W/kg)			(W/kg)	
2441.00	39	Bluetooth	FHSS	10.5	10.20	0.14	Right	Cheek	1	1840M	1	76.80	0.243	1.071	1.302	0.339	A32
2441.00	39	Bluetooth	FHSS	10.5	10.20	0.07	Right	Tilt	1	1840M	1	76.80	0.145	1.071	1.302	0.202	
2441.00	39	Bluetooth	FHSS	10.5	10.20	0.16	Left	Cheek	1	1840M	1	76.80	0.086	1.071	1.302	0.120	
2441.00	39	Bluetooth	FHSS	10.5	10.20	-0.05	Left	Tilt	1	1840M	1	76.80	0.118	1.071	1.302	0.165	
2441.00	39	Bluetooth	FHSS	10.5	9.31	-0.04	Right	Cheek	2	1840M	1	76.80	0.004	1.314	1.302	0.007	
2441.00	39	Bluetooth	FHSS	10.5	9.31	0.08	Right	Tilt	2	1840M	1	76.80	0.000	1.314	1.302	0.000	
2441.00	39	Bluetooth	FHSS	10.5	9.31	-0.18	Left	Cheek	2	1840M	1	76.80	0.000	1.314	1.302	0.000	
2441.00	39	Bluetooth	FHSS	10.5	9.31	-0.18	Left	Tilt	2	1840M	1	76.80	0.000	1.314	1.302	0.000	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population								Head 1.6 W/kg (mW/g) averaged over 1 gram									

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11.2 Standalone Body-Worn SAR Data

Table 11-36
GSM/UMTS/CDMA Body-Worn SAR Data

MEASUREMENT RESULTS																
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Tune State	Power Drift [dB]	Spacing	Antenna Config.	Device Serial Number	Duty Cycle	Side	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.												(W/kg)		(W/kg)	
820.10	564	CDMA BC10 (S90S)	TDSD / SO32	26.0	24.26	9	0.00	15 mm	A	1935S	1:1	back	0.086	1.493	0.128	A33
820.10	564	CDMA BC10 (S90S)	TDSD / SO32	26.0	24.26	108	0.06	15 mm	A + B	1935S	1:1	back	0.086	1.493	0.128	
836.52	384	CDMA BC0 (S22H)	TDSD / SO32	26.0	24.26	9	0.02	15 mm	A	1935S	1:1	back	0.094	1.493	0.140	A35
836.52	384	CDMA BC0 (S22H)	TDSD / SO32	26.0	24.26	108	0.00	15 mm	A + B	1935S	1:1	back	0.083	1.493	0.124	
1851.25	25	PCS CDMA	TDSD / SO32	24.0	23.41	N/A	-0.03	15 mm	B	1925S	1:1	back	0.427	1.146	0.489	
1880.00	600	PCS CDMA	TDSD / SO32	24.0	23.22	N/A	-0.07	15 mm	B	1925S	1:1	back	0.521	1.197	0.624	A37
1908.75	1175	PCS CDMA	TDSD / SO32	24.0	23.25	N/A	0.00	15 mm	B	1925S	1:1	back	0.423	1.189	0.503	
836.60	190	GSM 850	GSM	33.5	31.65	N/A	0.05	15 mm	A	1935S	1:1	back	0.103	1.531	0.158	A39
836.60	190	GSM 850	GSM	33.5	31.65	N/A	0.06	15 mm	A + B	1935S	1:1	back	0.056	1.531	0.086	
1880.00	661	GSM 1900	GSM	30.2	28.35	N/A	-0.05	15 mm	B	1925S	1:1	back	0.218	1.531	0.334	A41
836.60	4183	UMTS 850	RMC	25.8	24.48	9	-0.02	15 mm	A	1940S	1:1	back	0.130	1.355	0.176	A43
836.60	4183	UMTS 850	RMC	25.8	24.48	108	0.11	15 mm	A + B	1935S	1:1	back	0.075	1.355	0.102	
1712.40	1312	UMTS 1750	RMC	25.0	24.34	N/A	-0.01	15 mm	B	1925S	1:1	back	0.653	1.164	0.760	
1732.40	1412	UMTS 1750	RMC	25.0	24.35	N/A	-0.05	15 mm	B	1925S	1:1	back	0.615	1.161	0.714	
1752.60	1513	UMTS 1750	RMC	25.0	24.11	N/A	-0.02	15 mm	B	1925S	1:1	back	0.704	1.227	0.864	A45
1852.40	9262	UMTS 1900	RMC	25.0	24.03	N/A	0.06	15 mm	B	1930S	1:1	back	0.555	1.250	0.694	
1880.00	9400	UMTS 1900	RMC	25.0	24.04	N/A	-0.08	15 mm	B	1930S	1:1	back	0.604	1.247	0.753	A47
1907.60	9538	UMTS 1900	RMC	25.0	24.01	N/A	0.17	15 mm	B	1930S	1:1	back	0.431	1.256	0.541	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population								Body 1.6 W/kg (mW/g) averaged over 1 gram								

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Table 11-37
LTE Body-Worn SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Tune State	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.																(W/kg)		(W/kg)		
680.50	133297	Mid	LTE Band 71	20	25.8	25.31	18	0.09	0	A + B	1955S	QPSK	1	0	15 mm	back	1:1	0.174	1.119	0.195	A49
680.50	133297	Mid	LTE Band 71	20	24.8	24.31	18	0.07	1	A + B	1955S	QPSK	50	25	15 mm	back	1:1	0.142	1.119	0.159	
680.50	133297	Mid	LTE Band 71	20	25.8	25.31	120	0.13	0	A	1955S	QPSK	1	0	15 mm	back	1:1	0.118	1.119	0.132	
680.50	133297	Mid	LTE Band 71	20	24.8	24.31	120	0.02	1	A	1955S	QPSK	50	25	15 mm	back	1:1	0.100	1.119	0.112	
707.50	23095	Mid	LTE Band 12	10	25.8	24.48	0	0.07	0	A + B	1955S	QPSK	1	25	15 mm	back	1:1	0.155	1.355	0.210	A51
707.50	23095	Mid	LTE Band 12	10	24.8	23.61	0	0.07	1	A + B	1955S	QPSK	25	12	15 mm	back	1:1	0.129	1.315	0.170	
707.50	23095	Mid	LTE Band 12	10	25.8	24.48	18	-0.01	0	A	1955S	QPSK	1	25	15 mm	back	1:1	0.100	1.355	0.136	
707.50	23095	Mid	LTE Band 12	10	24.8	23.61	18	0.11	1	A	1955S	QPSK	25	12	15 mm	back	1:1	0.084	1.315	0.110	
782.00	23230	Mid	LTE Band 13	10	25.8	24.75	0	0.18	0	A + B	1955S	QPSK	1	49	15 mm	back	1:1	0.100	1.274	0.127	
782.00	23230	Mid	LTE Band 13	10	24.8	23.85	0	0.07	1	A + B	1955S	QPSK	25	25	15 mm	back	1:1	0.085	1.245	0.106	
782.00	23230	Mid	LTE Band 13	10	25.8	24.75	10	0.08	0	A	1955S	QPSK	1	49	15 mm	back	1:1	0.112	1.274	0.143	A53
782.00	23230	Mid	LTE Band 13	10	24.8	23.85	10	0.12	1	A	1955S	QPSK	25	25	15 mm	back	1:1	0.090	1.245	0.112	
793.00	23330	Mid	LTE Band 14	10	25.8	24.79	0	0.07	0	A + B	1955S	QPSK	1	0	15 mm	back	1:1	0.101	1.262	0.127	
793.00	23330	Mid	LTE Band 14	10	24.8	23.77	0	0.15	1	A + B	1955S	QPSK	25	25	15 mm	back	1:1	0.082	1.268	0.104	
793.00	23330	Mid	LTE Band 14	10	25.8	24.79	10	0.08	0	A	1955S	QPSK	1	0	15 mm	back	1:1	0.111	1.262	0.140	A55
793.00	23330	Mid	LTE Band 14	10	24.8	23.77	10	0.07	1	A	1955S	QPSK	25	25	15 mm	back	1:1	0.093	1.268	0.118	
831.50	26865	Mid	LTE Band 26 (Cell)	15	25.8	24.60	9	-0.07	0	A	1945S	QPSK	1	0	15 mm	back	1:1	0.136	1.318	0.179	A57
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.8	23.66	9	0.07	1	A	1945S	QPSK	36	18	15 mm	back	1:1	0.110	1.300	0.143	
831.50	26865	Mid	LTE Band 26 (Cell)	15	25.8	24.60	108	0.05	0	A + B	1945S	QPSK	1	0	15 mm	back	1:1	0.096	1.318	0.127	
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.8	23.66	108	-0.01	1	A + B	1945S	QPSK	36	18	15 mm	back	1:1	0.081	1.300	0.105	
836.50	20525	Mid	LTE Band 5 (Cell)	10	25.8	24.09	9	-0.16	0	A	1945S	QPSK	1	0	15 mm	back	1:1	0.114	1.483	0.169	A59
836.50	20525	Mid	LTE Band 5 (Cell)	10	24.8	23.03	9	-0.06	1	A	1945S	QPSK	25	0	15 mm	back	1:1	0.077	1.503	0.116	
836.50	20525	Mid	LTE Band 5 (Cell)	10	25.8	24.09	108	0.13	0	A + B	1945S	QPSK	1	0	15 mm	back	1:1	0.104	1.483	0.154	
836.50	20525	Mid	LTE Band 5 (Cell)	10	24.8	23.03	108	0.04	1	A + B	1945S	QPSK	25	0	15 mm	back	1:1	0.080	1.503	0.120	
1720.00	132072	Low	LTE Band 66 (AWS)	20	25.5	24.14	N/A	-0.01	0	B	2021M	QPSK	1	50	15 mm	back	1:1	0.496	1.368	0.679	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	25.5	24.24	N/A	-0.02	0	B	2021M	QPSK	1	50	15 mm	back	1:1	0.515	1.337	0.689	
1770.00	132572	High	LTE Band 66 (AWS)	20	25.5	24.16	N/A	-0.02	0	B	2021M	QPSK	1	0	15 mm	back	1:1	0.537	1.361	0.731	A61
1745.00	132322	Mid	LTE Band 66 (AWS)	20	24.5	23.37	N/A	0.00	1	B	2021M	QPSK	50	25	15 mm	back	1:1	0.418	1.297	0.542	
1720.00	132072	Low	LTE Band 66 (AWS)	20	20.5	20.14	N/A	0.01	0	E	0241M	QPSK	1	50	15 mm	back	1:1	0.131	1.086	0.142	
1720.00	132072	Low	LTE Band 66 (AWS)	20	20.5	20.33	N/A	0.01	0	E	0241M	QPSK	50	25	15 mm	back	1:1	0.129	1.040	0.134	
1905.00	26590	High	LTE Band 25 (PCS)	20	25.5	24.30	N/A	-0.07	0	B	1960S	QPSK	1	99	15 mm	back	1:1	0.432	1.318	0.569	A63
1905.00	26590	High	LTE Band 25 (PCS)	20	24.5	23.33	N/A	-0.02	1	B	1960S	QPSK	50	50	15 mm	back	1:1	0.350	1.309	0.458	
2310.00	27710	Mid	LTE Band 30	10	22.5	21.26	N/A	0.05	0	B	1950S	QPSK	1	49	15 mm	back	1:1	0.395	1.330	0.525	
2310.00	27710	Mid	LTE Band 30	10	22.5	21.36	N/A	0.01	0	B	1950S	QPSK	25	12	15 mm	back	1:1	0.406	1.300	0.528	A65
2510.00	20850	Low	LTE Band 7	20	22.5	21.67	N/A	0.00	0	B	1631M	QPSK	1	99	15 mm	back	1:1	0.352	1.211	0.426	A67
2510.00	20850	Low	LTE Band 7	20	22.5	21.75	N/A	-0.06	0	B	1631M	QPSK	50	25	15 mm	back	1:1	0.336	1.189	0.400	
3646.70	56207	Mid-High	LTE Band 48	20	20.5	20.10	N/A	0.06	0	E	0330M	QPSK	1	99	15 mm	back	1:1.58	0.085	1.096	0.093	A69
3646.70	56207	Mid-High	LTE Band 48	20	20.5	20.20	N/A	-0.05	0	E	0330M	QPSK	50	25	15 mm	back	1:1.58	0.079	1.072	0.085	
2680.00	41490	High	LTE Band 41	20	23.0	22.31	N/A	0.04	0	B	1577M	QPSK	1	50	15 mm	back	1:1.58	0.182	1.172	0.213	
2680.00	41490	High	LTE Band 41	20	23.0	22.45	N/A	0.03	0	B	1577M	QPSK	50	50	15 mm	back	1:1.58	0.187	1.135	0.212	A71
ANSI / IEEE C95.1 1992 - SAFETY LIMIT											Body										
Spatial Peak											1.6 W/kg (mW/g)										
Uncontrolled Exposure/General Population											averaged over 1 gram										

FCC ID: A3LSMF926U	 PCTEST Proud to be part of element	SAR EVALUATION REPORT		Approved by: Quality Manager
Document S/N: 1M2104020031-01.A3L (Rev 1)	Test Dates: 04/06/21 - 06/09/21	DUT Type: Portable Handset		Page 109 of 245

Table 11-38
NR Body-Worn SAR

MEASUREMENT RESULTS																						
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Antenna Config	Power Drift [dB]	MPR [dB]	Antenna State	Serial Number	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g) (W/kg)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.																			(W/kg)		(W/kg)
680.50	136100	Mid	NR Band n71	20	25.5	24.48	A + B	0.06	0	18	2524R	DFT-S-OFDM	QPSK	1	1	15 mm	back	1:1	0.146	1.265	0.185	A73
680.50	136100	Mid	NR Band n71	20	25.5	24.34	A + B	-0.16	0	18	2524R	DFT-S-OFDM	QPSK	50	28	15 mm	back	1:1	0.142	1.306	0.185	
680.50	136100	Mid	NR Band n71	20	24.0	22.90	A + B	0.00	1.5	18	2524R	CP-OFDM	QPSK	1	1	15 mm	back	1:1	0.099	1.288	0.128	
680.50	136100	Mid	NR Band n71	20	25.5	24.48	A	0.03	0	120	1955S	DFT-S-OFDM	QPSK	1	1	15 mm	back	1:1	0.101	1.265	0.128	
680.50	136100	Mid	NR Band n71	20	25.5	24.34	A	-0.05	0	120	1955S	DFT-S-OFDM	QPSK	50	28	15 mm	back	1:1	0.100	1.306	0.131	
680.50	136100	Mid	NR Band n71	20	24.0	22.90	A	-0.03	1.5	120	1955S	CP-OFDM	QPSK	1	1	15 mm	back	1:1	0.077	1.288	0.099	
707.50	141500	Mid	NR Band n12	15	25.5	24.02	A + B	-0.17	0	0	2524R	DFT-S-OFDM	QPSK	1	40	15 mm	back	1:1	0.142	1.406	0.200	A75
707.50	141500	Mid	NR Band n12	15	25.5	23.90	A + B	0.05	0	0	2524R	DFT-S-OFDM	QPSK	36	22	15 mm	back	1:1	0.139	1.445	0.201	
707.50	141500	Mid	NR Band n12	15	24.0	22.18	A + B	0.10	1.5	0	2524R	CP-OFDM	QPSK	1	1	15 mm	back	1:1	0.104	1.521	0.158	
707.50	141500	Mid	NR Band n12	15	25.5	24.02	A	0.04	0	18	2524R	DFT-S-OFDM	QPSK	1	40	15 mm	back	1:1	0.113	1.406	0.159	
707.50	141500	Mid	NR Band n12	15	25.5	23.90	A	0.00	0	18	2524R	DFT-S-OFDM	QPSK	36	22	15 mm	back	1:1	0.111	1.445	0.160	
707.50	141500	Mid	NR Band n12	15	24.0	22.18	A	-0.17	1.5	18	2524R	CP-OFDM	QPSK	1	1	15 mm	back	1:1	0.079	1.521	0.120	
836.50	167300	Mid	NR Band n5 (Cell)	20	25.5	25.39	A	-0.07	0	9	2528R	DFT-S-OFDM	QPSK	1	53	15 mm	back	1:1	0.136	1.026	0.140	A77
836.50	167300	Mid	NR Band n5 (Cell)	20	25.5	25.15	A	0.03	0	9	2528R	DFT-S-OFDM	QPSK	50	28	15 mm	back	1:1	0.131	1.084	0.142	
836.50	167300	Mid	NR Band n5 (Cell)	20	24.0	23.23	A	-0.02	1.5	9	2528R	CP-OFDM	QPSK	1	1	15 mm	back	1:1	0.089	1.194	0.106	
836.50	167300	Mid	NR Band n5 (Cell)	20	25.5	25.39	A + B	0.13	0	108	2528R	DFT-S-OFDM	QPSK	1	53	15 mm	back	1:1	0.106	1.026	0.109	
836.50	167300	Mid	NR Band n5 (Cell)	20	25.5	25.15	A + B	0.11	0	108	2528R	DFT-S-OFDM	QPSK	50	28	15 mm	back	1:1	0.105	1.084	0.114	
836.50	167300	Mid	NR Band n5 (Cell)	20	24.0	23.23	A + B	0.03	1.5	108	2528R	CP-OFDM	QPSK	1	1	15 mm	back	1:1	0.075	1.194	0.090	
1745.00	349000	Mid	NR Band n66 (AWS)	40	25.0	23.54	B	-0.07	0	N/A	1619M	DFT-S-OFDM	QPSK	1	108	15 mm	back	1:1	0.449	1.400	0.629	
1745.00	349000	Mid	NR Band n66 (AWS)	40	25.0	23.08	B	-0.13	0	N/A	1619M	DFT-S-OFDM	QPSK	108	54	15 mm	back	1:1	0.462	1.556	0.719	A79
1745.00	349000	Mid	NR Band n66 (AWS)	40	23.5	22.24	B	0.03	1.5	N/A	1619M	CP-OFDM	QPSK	1	1	15 mm	back	1:1	0.382	1.337	0.511	
1745.00	349000	Mid	NR Band n66 (AWS)	40	20.5	19.43	E	0.10	0	N/A	1619M	DFT-S-OFDM	QPSK	1	108	15 mm	back	1:1	0.100	1.279	0.128	
1745.00	349000	Mid	NR Band n66 (AWS)	40	20.5	19.42	E	0.12	0	N/A	1619M	DFT-S-OFDM	QPSK	108	0	15 mm	back	1:1	0.107	1.282	0.137	
1745.00	349000	Mid	NR Band n66 (AWS)	40	20.5	19.58	E	-0.01	0	N/A	1619M	CP-OFDM	QPSK	1	1	15 mm	back	1:1	0.098	1.236	0.121	
1882.50	376500	Mid	NR Band n25 (PCS)	40	25.0	24.00	B	-0.02	0	N/A	1619M	DFT-S-OFDM	QPSK	1	1	15 mm	back	1:1	0.516	1.259	0.650	A81
1882.50	376500	Mid	NR Band n25 (PCS)	40	25.0	23.78	B	0.04	0	N/A	1619M	DFT-S-OFDM	QPSK	108	54	15 mm	back	1:1	0.503	1.324	0.666	
1882.50	376500	Mid	NR Band n25 (PCS)	40	23.5	22.38	B	-0.05	1.5	N/A	1619M	CP-OFDM	QPSK	1	1	15 mm	back	1:1	0.362	1.294	0.468	
1882.50	376500	Mid	NR Band n25 (PCS)	40	20.5	19.97	E	0.02	0	N/A	2039M	DFT-S-OFDM	QPSK	1	214	15 mm	back	1:1	0.110	1.130	0.124	
1882.50	376500	Mid	NR Band n25 (PCS)	40	20.5	19.88	E	0.02	0	N/A	2039M	DFT-S-OFDM	QPSK	108	108	15 mm	back	1:1	0.126	1.153	0.145	
1882.50	376500	Mid	NR Band n25 (PCS)	40	20.5	19.76	E	0.07	0	N/A	2039M	CP-OFDM	QPSK	1	1	15 mm	back	1:1	0.114	1.186	0.135	
2310.00	462000	Mid	NR Band n30	10	22.5	21.05	B	-0.01	0	N/A	1619M	DFT-S-OFDM	QPSK	1	26	15 mm	back	1:1	0.350	1.396	0.489	A83
2310.00	462000	Mid	NR Band n30	10	22.5	20.94	B	0.04	0	N/A	1619M	DFT-S-OFDM	QPSK	25	27	15 mm	back	1:1	0.349	1.432	0.500	
2310.00	462000	Mid	NR Band n30	10	22.5	20.85	B	0.03	0	N/A	1619M	CP-OFDM	QPSK	1	1	15 mm	back	1:1	0.327	1.462	0.478	
2592.99	518598	Mid	NR Band n41	100	19.0	17.72	E	-0.03	0	N/A	0372M	DFT-S-OFDM	QPSK	1	137	15 mm	back	1:1	0.045	1.343	0.060	
2592.99	518598	Mid	NR Band n41	100	19.0	17.81	E	-0.03	0	N/A	0372M	DFT-S-OFDM	QPSK	135	0	15 mm	back	1:1	0.046	1.315	0.060	
2592.99	518598	Mid	NR Band n41	100	19.0	17.76	E	-0.14	0	N/A	0372M	CP-OFDM	QPSK	1	1	15 mm	back	1:1	0.051	1.330	0.068	A85
ANSI / IEEE C95.1 1992 - SAFETY LIMIT										Body												
Spatial Peak										1.6 W/kg (mW/g)												
Uncontrolled Exposure/General Population										averaged over 1 gram												

Table 11-39
NR n77 DoD Body-Worn SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Antenna Config	Power Drift [dB]	MPR [dB]	Serial Number	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.																(W/kg)		(W/kg)		
3500.01	633334	Mid	NR Band n77	100	19.0	18.96	E	-0.02	0	0330M	DFT-S-OFDM	QPSK	1	137	15 mm	back	1:1	0.070	1.009	0.071	
3500.01	633334	Mid	NR Band n77	100	19.0	18.97	E	-0.03	0	0330M	DFT-S-OFDM	QPSK	135	69	15 mm	back	1:1	0.075	1.007	0.076	
3500.01	633334	Mid	NR Band n77	100	19.0	18.81	E	-0.03	0	0330M	CP-OFDM	QPSK	1	1	15 mm	back	1:1	0.070	1.045	0.073	
3500.01	633334	Mid	NR Band n77	100	19.0	18.78	G	-0.09	0	0330M	DFT-S-OFDM	QPSK	1	1	15 mm	back	1:1	0.033	1.052	0.035	
3500.01	633334	Mid	NR Band n77	100	19.0	18.64	G	-0.06	0	0330M	DFT-S-OFDM	QPSK	135	0	15 mm	back	1:1	0.033	1.086	0.036	
3500.01	633334	Mid	NR Band n77	100	19.0	18.81	G	-0.07	0	0330M	CP-OFDM	QPSK	1	1	15 mm	back	1:1	0.033	1.045	0.034	
3500.01	633334	Mid	NR Band n77	100	17.0	16.67	F	-0.10	0	0330M	DFT-S-OFDM	QPSK	1	137	15 mm	back	1:1	0.164	1.079	0.177	A87
3500.01	633334	Mid	NR Band n77	100	17.0	16.69	F	-0.12	0	0330M	DFT-S-OFDM	QPSK	135	69	15 mm	back	1:1	0.162	1.074	0.174	
3500.01	633334	Mid	NR Band n77	100	17.0	16.48	F	-0.19	0	0330M	CP-OFDM	QPSK	1	1	15 mm	back	1:1	0.137	1.127	0.154	
3500.01	633334	Mid	NR Band n77	100	16.0	15.26	B	-0.18	0	0330M	DFT-S-OFDM	QPSK	1	1	15 mm	back	1:1	0.024	1.186	0.028	
3500.01	633334	Mid	NR Band n77	100	16.0	15.29	B	-0.18	0	0330M	DFT-S-OFDM	QPSK	135	69	15 mm	back	1:1	0.025	1.178	0.029	
3500.01	633334	Mid	NR Band n77	100	16.0	15.23	B	-0.13	0	0330M	CP-OFDM	QPSK	1	1	15 mm	back	1:1	0.026	1.194	0.031	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT										Body											
Spatial Peak										1.6 W/kg (mW/g)											
Uncontrolled Exposure/General Population										averaged over 1 gram											

FCC ID: A3LSMF926U	PCTEST Proud to be part of  Samsung SAR EVALUATION REPORT 		Approved by: Quality Manager
Document S/N: 1M2104020031-01.A3L (Rev 1)	Test Dates: 04/06/21 - 06/09/21	DUT Type: Portable Handset	Page 110 of 245

Table 11-40
NR n77 Body-Worn SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Antenna Config	Power Drift [dB]	MPR [dB]	Serial Number	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.																(W/kg)		(W/kg)		
3930.00	662000	High	NR Band n77	100	19.0	18.16	E	-0.05	0	0372M	DFT-S-OFDM	QPSK	1	137	15 mm	back	1:1	0.214	1.213	0.260	A89
3930.00	662000	High	NR Band n77	100	19.0	18.22	E	-0.03	0	0372M	DFT-S-OFDM	QPSK	135	69	15 mm	back	1:1	0.215	1.197	0.257	
3930.00	662000	High	NR Band n77	100	19.0	18.28	E	0.13	0	0372M	CP-OFDM	QPSK	1	1	15 mm	back	1:1	0.208	1.180	0.245	
3930.00	662000	High	NR Band n77	100	19.0	18.29	G	-0.05	0	0372M	DFT-S-OFDM	QPSK	1	271	15 mm	back	1:1	0.044	1.178	0.052	
3930.00	662000	High	NR Band n77	100	19.0	18.34	G	0.02	0	0372M	DFT-S-OFDM	QPSK	135	69	15 mm	back	1:1	0.044	1.164	0.051	
3930.00	662000	High	NR Band n77	100	19.0	18.02	G	-0.02	0	0372M	CP-OFDM	QPSK	1	1	15 mm	back	1:1	0.043	1.253	0.054	
3930.00	662000	High	NR Band n77	100	17.0	15.89	F	0.01	0	0372M	DFT-S-OFDM	QPSK	1	137	15 mm	back	1:1	0.116	1.291	0.150	
3930.00	662000	High	NR Band n77	100	17.0	15.95	F	0.03	0	0372M	DFT-S-OFDM	QPSK	135	69	15 mm	back	1:1	0.116	1.274	0.148	
3930.00	662000	High	NR Band n77	100	17.0	15.47	F	0.00	0	0372M	CP-OFDM	QPSK	1	1	15 mm	back	1:1	0.124	1.422	0.176	
3930.00	662000	High	NR Band n77	100	16.0	14.99	B	0.14	0	0330M	DFT-S-OFDM	QPSK	1	137	15 mm	back	1:1	0.028	1.262	0.035	
3930.00	662000	High	NR Band n77	100	16.0	14.95	B	-0.01	0	0330M	DFT-S-OFDM	QPSK	135	69	15 mm	back	1:1	0.027	1.274	0.034	
3930.00	662000	High	NR Band n77	100	16.0	14.27	B	-0.01	0	0330M	CP-OFDM	QPSK	1	1	15 mm	back	1:1	0.032	1.489	0.048	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population										Body 1.6 W/kg (mW/g) averaged over 1 gram											

Table 11-41
DTS Body-Worn SAR

MEASUREMENT RESULTS																			
FREQUENCY		Mode	Service	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	Peak SAR of Area Scan	SAR (1g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot #
MHz	Ch.													W/kg	(W/kg)			(W/kg)	
2462	11	802.11b	DSSS	22	19.0	18.67	-0.06	15 mm	1	1578M	1	back	98.9	0.051	0.041	1.079	1.011	0.045	A91
2462	11	802.11b	DSSS	22	19.0	18.70	0.10	15 mm	2	1578M	1	back	98.9	0.030	0.024	1.072	1.011	0.026	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population								Body 1.6 W/kg (mW/g) averaged over 1 gram											

Table 11-42
NII SISO Body-Worn SAR

MEASUREMENT RESULTS																			
FREQUENCY		Mode	Service	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	Peak SAR of Area Scan	SAR (1g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot #
MHz	Ch.													W/kg	(W/kg)			(W/kg)	
5320	64	802.11a	OFDM	20	18.0	17.99	0.00	15 mm	1	2038M	6	back	93.8	0.020	0.000	1.002	1.066	0.000	
5720	144	802.11a	OFDM	20	18.0	17.96	0.00	15 mm	1	2038M	6	back	93.8	0.013	0.000	1.009	1.066	0.000	
5785	157	802.11a	OFDM	20	18.0	17.94	0.00	15 mm	1	2038M	6	back	93.8	0.008	0.000	1.014	1.066	0.000	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population								Body 1.6 W/kg (mW/g) averaged over 1 gram											

Table 11-43
NII MIMO Body-Worn SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Service	Bandwidth [MHz]	Maximum Allowed Power (Ant 1) [dBm]	Conducted Power (Ant 1) [dBm]	Maximum Allowed Power (Ant 2) [dBm]	Conducted Power (Ant 2) [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	Peak SAR of Area Scan	SAR (1g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot #
MHz	Ch.															W/kg	(W/kg)			(W/kg)	
5260	52	802.11n	OFDM	20	18.0	17.92	18.0	17.43	0.11	15 mm	MIMO	2038M	13	back	86.9	0.013	0.003	1.140	1.151	0.004	A93
5620	124	802.11n	OFDM	20	18.0	17.78	18.0	17.35	0.13	15 mm	MIMO	2038M	13	back	86.9	0.035	0.000	1.161	1.151	0.000	
5825	165	802.11n	OFDM	20	18.0	17.61	18.0	17.58	0.00	15 mm	MIMO	2038M	13	back	86.9	0.005	0.000	1.102	1.151	0.000	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population										Body 1.6 W/kg (mW/g) averaged over 1 gram											

Note: To achieve the 21.0 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 18.0 dBm.

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Table 11-44
DSS Body-Worn SAR

MEASUREMENT RESULTS																	
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	SAR (1g)	Scaling Factor (Cond Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot #
MHz	Ch.												(W/kg)			(W/kg)	
2441	39	Bluetooth	FHSS	17.5	17.29	0.06	15 mm	1	1580M	1	back	76.8	0.014	1.050	1.302	0.019	A95
2441	39	Bluetooth	FHSS	17.5	16.93	-0.02	15 mm	2	1580M	1	back	76.8	0.009	1.140	1.302	0.013	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							Body 1.6 W/kg (mW/g) averaged over 1 gram										

11.3 Standalone Hotspot SAR Data

Table 11-45
CDMA Hotspot SAR Data

MEASUREMENT RESULTS																
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Tune State	Power Drift [dB]	Spacing	Antenna Config.	Device Serial Number	Duty Cycle	Side	SAR (1g)	Scaling Factor	Reported SAR (1g) (W/kg)	Plot #
MHz	Ch.												(W/kg)			
820.10	564	CDMA BC10 (\$90S)	EVDO Rev. 0	26.0	24.10	9	-0.03	10 mm	A	1935S	1:1	back	0.222	1.549	0.344	A34
820.10	564	CDMA BC10 (\$90S)	EVDO Rev. 0	26.0	24.10	9	0.03	10 mm	A	1935S	1:1	front	0.068	1.549	0.105	
820.10	564	CDMA BC10 (\$90S)	EVDO Rev. 0	26.0	24.10	9	0.06	10 mm	A	1935S	1:1	bottom	0.079	1.549	0.122	
820.10	564	CDMA BC10 (\$90S)	EVDO Rev. 0	26.0	24.10	9	-0.02	10 mm	A	1935S	1:1	right	0.208	1.549	0.322	
820.10	564	CDMA BC10 (\$90S)	EVDO Rev. 0	26.0	24.10	108	-0.03	10 mm	A + B	1935S	1:1	back	0.215	1.549	0.333	
820.10	564	CDMA BC10 (\$90S)	EVDO Rev. 0	26.0	24.10	108	0.07	10 mm	A + B	1935S	1:1	front	0.057	1.549	0.088	
820.10	564	CDMA BC10 (\$90S)	EVDO Rev. 0	26.0	24.10	108	0.02	10 mm	A + B	1935S	1:1	bottom	0.049	1.549	0.076	
820.10	564	CDMA BC10 (\$90S)	EVDO Rev. 0	26.0	24.10	108	-0.02	10 mm	A + B	1935S	1:1	right	0.128	1.549	0.198	
820.10	564	CDMA BC10 (\$90S)	EVDO Rev. 0	26.0	24.10	108	0.07	10 mm	A + B	1935S	1:1	left	0.063	1.549	0.098	
836.52	384	CDMA BC0 (\$22H)	EVDO Rev. 0	26.0	24.04	9	0.06	10 mm	A	1935S	1:1	back	0.232	1.570	0.364	A36
836.52	384	CDMA BC0 (\$22H)	EVDO Rev. 0	26.0	24.04	9	0.06	10 mm	A	1935S	1:1	front	0.063	1.570	0.099	
836.52	384	CDMA BC0 (\$22H)	EVDO Rev. 0	26.0	24.04	9	0.06	10 mm	A	1935S	1:1	bottom	0.077	1.570	0.121	
836.52	384	CDMA BC0 (\$22H)	EVDO Rev. 0	26.0	24.04	9	0.01	10 mm	A	1935S	1:1	right	0.198	1.570	0.311	
836.52	384	CDMA BC0 (\$22H)	EVDO Rev. 0	26.0	24.04	108	0.01	10 mm	A + B	1935S	1:1	back	0.199	1.570	0.312	
836.52	384	CDMA BC0 (\$22H)	EVDO Rev. 0	26.0	24.04	108	0.12	10 mm	A + B	1935S	1:1	front	0.056	1.570	0.088	
836.52	384	CDMA BC0 (\$22H)	EVDO Rev. 0	26.0	24.04	108	-0.01	10 mm	A + B	1935S	1:1	bottom	0.047	1.570	0.074	
836.52	384	CDMA BC0 (\$22H)	EVDO Rev. 0	26.0	24.04	108	0.03	10 mm	A + B	1935S	1:1	right	0.120	1.570	0.188	
836.52	384	CDMA BC0 (\$22H)	EVDO Rev. 0	26.0	24.04	108	0.12	10 mm	A + B	1935S	1:1	left	0.049	1.570	0.077	
1851.25	25	PCS CDMA	EVDO Rev. 0	19.0	18.21	N/A	0.06	10 mm	B	1925S	1:1	back	0.300	1.199	0.360	
1851.25	25	PCS CDMA	EVDO Rev. 0	19.0	18.21	N/A	0.03	10 mm	B	1925S	1:1	front	0.129	1.199	0.155	
1851.25	25	PCS CDMA	EVDO Rev. 0	19.0	18.21	N/A	0.04	10 mm	B	1925S	1:1	bottom	0.400	1.199	0.480	A38
1851.25	25	PCS CDMA	EVDO Rev. 0	19.0	18.21	N/A	0.11	10 mm	B	1925S	1:1	right	0.053	1.199	0.064	
1851.25	25	PCS CDMA	EVDO Rev. 0	19.0	18.21	N/A	-0.03	10 mm	B	1925S	1:1	left	0.027	1.199	0.032	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							Body 1.6 W/kg (mW/g) averaged over 1 gram									

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Table 11-46
GPRS Hotspot SAR Data

MEASUREMENT RESULTS																
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Device Serial Number	# of Time Slots	Duty Cycle	Side	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.												(W/kg)		(W/kg)	
836.60	190	GSM 850	GPRS	30.5	28.85	-0.01	10 mm	A	1935S	3	1:2.76	back	0.254	1.462	0.371	
836.60	190	GSM 850	GPRS	30.5	28.85	-0.04	10 mm	A	1935S	3	1:2.76	front	0.094	1.462	0.137	
836.60	190	GSM 850	GPRS	30.5	28.85	0.00	10 mm	A	1935S	3	1:2.76	bottom	0.060	1.462	0.088	
836.60	190	GSM 850	GPRS	30.5	28.85	-0.11	10 mm	A	1935S	3	1:2.76	right	0.267	1.462	0.390	A40
836.60	190	GSM 850	GPRS	30.5	28.85	-0.03	10 mm	A + B	1935S	3	1:2.76	back	0.191	1.462	0.279	
836.60	190	GSM 850	GPRS	30.5	28.85	0.10	10 mm	A + B	1935S	3	1:2.76	front	0.079	1.462	0.115	
836.60	190	GSM 850	GPRS	30.5	28.85	0.15	10 mm	A + B	1935S	3	1:2.76	bottom	0.075	1.462	0.110	
836.60	190	GSM 850	GPRS	30.5	28.85	0.04	10 mm	A + B	1935S	3	1:2.76	right	0.196	1.462	0.287	
836.60	190	GSM 850	GPRS	30.5	28.85	0.04	10 mm	A + B	1935S	3	1:2.76	left	0.081	1.462	0.118	
1880.00	661	GSM 1900	GPRS	21.3	21.09	-0.17	10 mm	B	1925S	4	1:2.076	back	0.370	1.050	0.389	
1880.00	661	GSM 1900	GPRS	21.3	21.09	0.10	10 mm	B	1925S	4	1:2.076	front	0.096	1.050	0.101	
1850.20	512	GSM 1900	GPRS	21.3	21.06	-0.02	10 mm	B	1925S	4	1:2.076	bottom	0.452	1.057	0.478	
1880.00	661	GSM 1900	GPRS	21.3	21.09	0.04	10 mm	B	1925S	4	1:2.076	bottom	0.516	1.050	0.542	A42
1909.80	810	GSM 1900	GPRS	21.3	21.08	-0.19	10 mm	B	1925S	4	1:2.076	bottom	0.419	1.052	0.441	
1880.00	661	GSM 1900	GPRS	21.3	21.09	0.04	10 mm	B	1925S	4	1:2.076	right	0.069	1.050	0.072	
1880.00	661	GSM 1900	GPRS	21.3	21.09	0.17	10 mm	B	1925S	4	1:2.076	left	0.035	1.050	0.037	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							Body 1.6 W/kg (mW/g) averaged over 1 gram									

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Table 11-47
UMTS Hotspot SAR Data

MEASUREMENT RESULTS																
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Tune State	Power Drift [dB]	Spacing	Antenna Config.	Device Serial Number	Duty Cycle	Side	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.												(W/kg)		(W/kg)	
836.60	4183	UMTS 850	RMC	25.8	24.48	9	-0.04	10 mm	A	1940S	1:1	back	0.259	1.355	0.351	A44
836.60	4183	UMTS 850	RMC	25.8	24.48	9	0.02	10 mm	A	1940S	1:1	front	0.093	1.355	0.126	
836.60	4183	UMTS 850	RMC	25.8	24.48	9	0.09	10 mm	A	1940S	1:1	bottom	0.088	1.355	0.119	
836.60	4183	UMTS 850	RMC	25.8	24.48	9	-0.01	10 mm	A	1940S	1:1	right	0.244	1.355	0.331	
836.60	4183	UMTS 850	RMC	25.8	24.48	108	0.05	10 mm	A + B	1935S	1:1	back	0.167	1.355	0.226	
836.60	4183	UMTS 850	RMC	25.8	24.48	108	0.09	10 mm	A + B	1935S	1:1	front	0.072	1.355	0.098	
836.60	4183	UMTS 850	RMC	25.8	24.48	108	0.12	10 mm	A + B	1935S	1:1	bottom	0.048	1.355	0.065	
836.60	4183	UMTS 850	RMC	25.8	24.48	108	0.00	10 mm	A + B	1935S	1:1	right	0.179	1.355	0.243	
836.60	4183	UMTS 850	RMC	25.8	24.48	108	0.03	10 mm	A + B	1935S	1:1	left	0.072	1.355	0.098	
1752.60	1513	UMTS 1750	RMC	19.0	17.69	N/A	0.02	10 mm	B	1925S	1:1	back	0.339	1.352	0.458	
1752.60	1513	UMTS 1750	RMC	19.0	17.69	N/A	0.15	10 mm	B	1925S	1:1	front	0.061	1.352	0.082	
1712.40	1312	UMTS 1750	RMC	19.0	17.21	N/A	-0.06	10 mm	B	1925S	1:1	bottom	0.404	1.510	0.610	
1732.40	1412	UMTS 1750	RMC	19.0	17.50	N/A	0.00	10 mm	B	1925S	1:1	bottom	0.432	1.413	0.610	A46
1752.60	1513	UMTS 1750	RMC	19.0	17.69	N/A	-0.07	10 mm	B	1925S	1:1	bottom	0.429	1.352	0.580	
1752.60	1513	UMTS 1750	RMC	19.0	17.69	N/A	-0.12	10 mm	B	1925S	1:1	right	0.106	1.352	0.143	
1752.60	1513	UMTS 1750	RMC	19.0	17.69	N/A	0.04	10 mm	B	1925S	1:1	left	0.032	1.352	0.043	
1852.40	9262	UMTS 1900	RMC	19.0	18.50	N/A	-0.02	10 mm	B	1930S	1:1	back	0.306	1.122	0.343	
1852.40	9262	UMTS 1900	RMC	19.0	18.50	N/A	0.06	10 mm	B	1930S	1:1	front	0.078	1.122	0.088	
1852.40	9262	UMTS 1900	RMC	19.0	18.50	N/A	0.04	10 mm	B	1930S	1:1	bottom	0.417	1.122	0.468	A48
1852.40	9262	UMTS 1900	RMC	19.0	18.50	N/A	-0.01	10 mm	B	1930S	1:1	right	0.045	1.122	0.050	
1852.40	9262	UMTS 1900	RMC	19.0	18.50	N/A	0.10	10 mm	B	1930S	1:1	left	0.028	1.122	0.031	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT								Body 1.6 W/kg (mW/g) averaged over 1 gram								
Spatial Peak																
Uncontrolled Exposure/General Population																

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Table 11-48
LTE Band 71 Hotspot SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Tune State	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.																(W/kg)		(W/kg)		
680.50	133297	Mid	LTE Band 71	20	25.8	25.31	18	0.08	0	A + B	1955S	QPSK	1	0	10 mm	back	1:1	1.195	1.119	0.218	
680.50	133297	Mid	LTE Band 71	20	24.8	24.31	18	0.04	1	A + B	1955S	QPSK	50	25	10 mm	back	1:1	1.150	1.119	0.168	
680.50	133297	Mid	LTE Band 71	20	25.8	25.31	18	0.14	0	A + B	1955S	QPSK	1	0	10 mm	front	1:1	1.123	1.119	0.138	
680.50	133297	Mid	LTE Band 71	20	24.8	24.31	18	0.08	1	A + B	1955S	QPSK	50	25	10 mm	front	1:1	1.094	1.119	0.105	
680.50	133297	Mid	LTE Band 71	20	25.8	25.31	18	0.09	0	A + B	1955S	QPSK	1	0	10 mm	bottom	1:1	1.059	1.119	0.066	
680.50	133297	Mid	LTE Band 71	20	24.8	24.31	18	0.18	1	A + B	1955S	QPSK	50	25	10 mm	bottom	1:1	1.041	1.119	0.046	
680.50	133297	Mid	LTE Band 71	20	25.8	25.31	135	0.07	0	A + B	1955S	QPSK	1	0	10 mm	right	1:1	1.273	1.119	0.305	A50
680.50	133297	Mid	LTE Band 71	20	24.8	24.31	135	0.02	1	A + B	1955S	QPSK	50	25	10 mm	right	1:1	1.244	1.119	0.273	
680.50	133297	Mid	LTE Band 71	20	25.8	25.31	99	0.01	0	A + B	1955S	QPSK	1	0	10 mm	left	1:1	1.123	1.119	0.138	
680.50	133297	Mid	LTE Band 71	20	24.8	24.31	99	0.05	1	A + B	1955S	QPSK	50	25	10 mm	left	1:1	1.105	1.119	0.117	
680.50	133297	Mid	LTE Band 71	20	25.8	25.31	82	0.04	0	A	1955S	QPSK	1	0	10 mm	back	1:1	1.180	1.119	0.201	
680.50	133297	Mid	LTE Band 71	20	24.8	24.31	82	0.02	1	A	1955S	QPSK	50	25	10 mm	back	1:1	1.125	1.119	0.140	
680.50	133297	Mid	LTE Band 71	20	25.8	25.31	20	-0.08	0	A	1955S	QPSK	1	0	10 mm	front	1:1	1.082	1.119	0.092	
680.50	133297	Mid	LTE Band 71	20	24.8	24.31	20	0.01	1	A	1955S	QPSK	50	25	10 mm	front	1:1	1.075	1.119	0.084	
680.50	133297	Mid	LTE Band 71	20	25.8	25.31	13	0.10	0	A	1955S	QPSK	1	0	10 mm	bottom	1:1	1.064	1.119	0.072	
680.50	133297	Mid	LTE Band 71	20	24.8	24.31	13	0.13	1	A	1955S	QPSK	50	25	10 mm	bottom	1:1	1.052	1.119	0.058	
680.50	133297	Mid	LTE Band 71	20	25.8	25.31	20	0.09	0	A	1955S	QPSK	1	0	10 mm	right	1:1	1.268	1.119	0.300	
680.50	133297	Mid	LTE Band 71	20	24.8	24.31	20	0.00	1	A	1955S	QPSK	50	25	10 mm	right	1:1	1.260	1.119	0.291	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population									Body 1.6 W/kg (mW/g) averaged over 1 gram												

Table 11-49
LTE Band 12 Hotspot SAR

MEASUREMENT RESULTS																				
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Tune State	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.																(W/kg)		(W/kg)	
707.50	23095	Mid	LTE Band 12	10	25.8	24.48	0	0.14	0	A + B	1955S	QPSK	1	25	10 mm	back	1:1	1.355	0.332	
707.50	23095	Mid	LTE Band 12	10	24.8	23.61	0	0.08	1	A + B	1955S	QPSK	25	12	10 mm	back	1:1	1.315	0.262	
707.50	23095	Mid	LTE Band 12	10	25.8	24.48	0	0.07	0	A + B	1955S	QPSK	1	25	10 mm	front	1:1	1.355	0.152	
707.50	23095	Mid	LTE Band 12	10	24.8	23.61	0	0.05	1	A + B	1955S	QPSK	25	12	10 mm	front	1:1	1.315	0.122	
707.50	23095	Mid	LTE Band 12	10	25.8	24.48	0	0.03	0	A + B	1955S	QPSK	1	25	10 mm	bottom	1:1	1.355	0.073	
707.50	23095	Mid	LTE Band 12	10	24.8	23.61	0	0.04	1	A + B	1955S	QPSK	25	12	10 mm	bottom	1:1	1.315	0.058	
707.50	23095	Mid	LTE Band 12	10	25.8	24.48	0	-0.03	0	A + B	1955S	QPSK	1	25	10 mm	right	1:1	1.355	0.411	A52
707.50	23095	Mid	LTE Band 12	10	24.8	23.61	0	-0.02	1	A + B	1955S	QPSK	25	12	10 mm	right	1:1	1.315	0.317	
707.50	23095	Mid	LTE Band 12	10	25.8	24.48	0	0.16	0	A + B	1955S	QPSK	1	25	10 mm	left	1:1	1.355	0.156	
707.50	23095	Mid	LTE Band 12	10	24.8	23.61	0	0.05	1	A + B	1955S	QPSK	25	12	10 mm	left	1:1	1.315	0.132	
707.50	23095	Mid	LTE Band 12	10	25.8	24.48	9	0.03	0	A	1955S	QPSK	1	25	10 mm	back	1:1	1.355	0.263	
707.50	23095	Mid	LTE Band 12	10	24.8	23.61	9	0.08	1	A	1955S	QPSK	25	12	10 mm	back	1:1	1.315	0.213	
707.50	23095	Mid	LTE Band 12	10	25.8	24.48	27	-0.02	0	A	1955S	QPSK	1	25	10 mm	front	1:1	1.355	0.096	
707.50	23095	Mid	LTE Band 12	10	24.8	23.61	27	-0.02	1	A	1955S	QPSK	25	12	10 mm	front	1:1	1.315	0.078	
707.50	23095	Mid	LTE Band 12	10	25.8	24.48	18	0.09	0	A	1955S	QPSK	1	25	10 mm	bottom	1:1	1.355	0.106	
707.50	23095	Mid	LTE Band 12	10	24.8	23.61	18	-0.01	1	A	1955S	QPSK	25	12	10 mm	bottom	1:1	1.315	0.087	
707.50	23095	Mid	LTE Band 12	10	25.8	24.48	18	-0.12	0	A	1955S	QPSK	1	25	10 mm	right	1:1	1.355	0.347	
707.50	23095	Mid	LTE Band 12	10	24.8	23.61	18	-0.03	1	A	1955S	QPSK	25	12	10 mm	right	1:1	1.315	0.280	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population									Body 1.6 W/kg (mW/g) averaged over 1 gram											

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Table 11-50
LTE Band 13 Hotspot SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Tune State	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.																(W/kg)		(W/kg)		
782.00	23230	Mid	LTE Band 13	10	25.8	24.75	0	0.02	0	A + B	1955S	QPSK	1	49	10 mm	back	1:1	0.232	1.274	0.296	A54
782.00	23230	Mid	LTE Band 13	10	24.8	23.85	0	0.11	1	A + B	1955S	QPSK	25	25	10 mm	back	1:1	0.193	1.245	0.240	
782.00	23230	Mid	LTE Band 13	10	25.8	24.75	0	-0.02	0	A + B	1955S	QPSK	1	49	10 mm	front	1:1	0.086	1.274	0.110	
782.00	23230	Mid	LTE Band 13	10	24.8	23.85	0	0.07	1	A + B	1955S	QPSK	25	25	10 mm	front	1:1	0.073	1.245	0.091	
782.00	23230	Mid	LTE Band 13	10	25.8	24.75	0	0.04	0	A + B	1955S	QPSK	1	49	10 mm	bottom	1:1	0.077	1.274	0.098	
782.00	23230	Mid	LTE Band 13	10	24.8	23.85	0	0.06	1	A + B	1955S	QPSK	25	25	10 mm	bottom	1:1	0.065	1.245	0.081	
782.00	23230	Mid	LTE Band 13	10	25.8	24.75	0	-0.02	0	A + B	1955S	QPSK	1	49	10 mm	right	1:1	0.171	1.274	0.218	
782.00	23230	Mid	LTE Band 13	10	24.8	23.85	0	0.04	1	A + B	1955S	QPSK	25	25	10 mm	right	1:1	0.146	1.245	0.182	
782.00	23230	Mid	LTE Band 13	10	25.8	24.75	0	0.02	0	A + B	1955S	QPSK	1	49	10 mm	left	1:1	0.085	1.274	0.108	
782.00	23230	Mid	LTE Band 13	10	24.8	23.85	0	0.04	1	A + B	1955S	QPSK	25	25	10 mm	left	1:1	0.073	1.245	0.091	
782.00	23230	Mid	LTE Band 13	10	25.8	24.75	10	-0.03	0	A	1955S	QPSK	1	49	10 mm	back	1:1	0.223	1.274	0.284	
782.00	23230	Mid	LTE Band 13	10	24.8	23.85	10	-0.10	1	A	1955S	QPSK	25	25	10 mm	back	1:1	0.179	1.245	0.223	
782.00	23230	Mid	LTE Band 13	10	25.8	24.75	10	-0.12	0	A	1955S	QPSK	1	49	10 mm	front	1:1	0.084	1.274	0.107	
782.00	23230	Mid	LTE Band 13	10	24.8	23.85	10	-0.02	1	A	1955S	QPSK	25	25	10 mm	front	1:1	0.068	1.245	0.085	
782.00	23230	Mid	LTE Band 13	10	25.8	24.75	10	0.06	0	A	1955S	QPSK	1	49	10 mm	bottom	1:1	0.085	1.274	0.108	
782.00	23230	Mid	LTE Band 13	10	24.8	23.85	10	0.11	1	A	1955S	QPSK	25	25	10 mm	bottom	1:1	0.068	1.245	0.085	
782.00	23230	Mid	LTE Band 13	10	25.8	24.75	10	-0.06	0	A	1955S	QPSK	1	49	10 mm	right	1:1	0.166	1.274	0.211	
782.00	23230	Mid	LTE Band 13	10	24.8	23.85	10	-0.03	1	A	1955S	QPSK	25	25	10 mm	right	1:1	0.133	1.245	0.166	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population									Body 1.6 W/kg (mW/g) averaged over 1 gram												

Table 11-51
LTE Band 14 Hotspot SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Tune State	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.																(W/kg)		(W/kg)		
793.00	23330	Mid	LTE Band 14	10	25.8	24.79	0	0.06	0	A + B	1955S	QPSK	1	0	10 mm	back	1:1	0.247	1.262	0.312	A56
793.00	23330	Mid	LTE Band 14	10	24.8	23.77	0	0.16	1	A + B	1955S	QPSK	25	25	10 mm	back	1:1	0.198	1.268	0.251	
793.00	23330	Mid	LTE Band 14	10	25.8	24.79	0	0.06	0	A + B	1955S	QPSK	1	0	10 mm	front	1:1	0.100	1.262	0.126	
793.00	23330	Mid	LTE Band 14	10	24.8	23.77	0	0.09	1	A + B	1955S	QPSK	25	25	10 mm	front	1:1	0.075	1.268	0.095	
793.00	23330	Mid	LTE Band 14	10	25.8	24.79	0	0.01	0	A + B	1955S	QPSK	1	0	10 mm	bottom	1:1	0.081	1.262	0.102	
793.00	23330	Mid	LTE Band 14	10	24.8	23.77	0	0.12	1	A + B	1955S	QPSK	25	25	10 mm	bottom	1:1	0.067	1.268	0.085	
793.00	23330	Mid	LTE Band 14	10	25.8	24.79	0	-0.10	0	A + B	1955S	QPSK	1	0	10 mm	right	1:1	0.221	1.262	0.279	
793.00	23330	Mid	LTE Band 14	10	24.8	23.77	0	0.00	1	A + B	1955S	QPSK	25	25	10 mm	right	1:1	0.171	1.268	0.217	
793.00	23330	Mid	LTE Band 14	10	25.8	24.79	0	0.06	0	A + B	1955S	QPSK	1	0	10 mm	left	1:1	0.097	1.262	0.122	
793.00	23330	Mid	LTE Band 14	10	24.8	23.77	0	0.02	1	A + B	1955S	QPSK	25	25	10 mm	left	1:1	0.074	1.268	0.094	
793.00	23330	Mid	LTE Band 14	10	25.8	24.79	10	0.07	0	A	1955S	QPSK	1	0	10 mm	back	1:1	0.237	1.262	0.299	
793.00	23330	Mid	LTE Band 14	10	24.8	23.77	10	0.03	1	A	1955S	QPSK	25	25	10 mm	back	1:1	0.199	1.268	0.252	
793.00	23330	Mid	LTE Band 14	10	25.8	24.79	10	-0.02	0	A	1955S	QPSK	1	0	10 mm	front	1:1	0.087	1.262	0.110	
793.00	23330	Mid	LTE Band 14	10	24.8	23.77	10	0.13	1	A	1955S	QPSK	25	25	10 mm	front	1:1	0.075	1.268	0.095	
793.00	23330	Mid	LTE Band 14	10	25.8	24.79	10	0.07	0	A	1955S	QPSK	1	0	10 mm	bottom	1:1	0.088	1.262	0.111	
793.00	23330	Mid	LTE Band 14	10	24.8	23.77	10	0.16	1	A	1955S	QPSK	25	25	10 mm	bottom	1:1	0.074	1.268	0.094	
793.00	23330	Mid	LTE Band 14	10	25.8	24.79	10	-0.08	0	A	1955S	QPSK	1	0	10 mm	right	1:1	0.171	1.262	0.216	
793.00	23330	Mid	LTE Band 14	10	24.8	23.77	10	-0.05	1	A	1955S	QPSK	25	25	10 mm	right	1:1	0.148	1.268	0.188	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population									Body 1.6 W/kg (mW/g) averaged over 1 gram												

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Table 11-52
LTE Band 26 (Cell) Hotspot SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Tune State	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.																(W/kg)		(W/kg)		
831.50	26865	Mid	LTE Band 26 (Cell)	15	25.8	24.60	9	-0.01	0	A	1945S	QPSK	1	0	10 mm	back	1.1	0.218	1.318	0.287	
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.8	23.66	9	-0.04	1	A	1945S	QPSK	36	18	10 mm	back	1.1	0.174	1.300	0.226	
831.50	26865	Mid	LTE Band 26 (Cell)	15	25.8	24.60	9	0.02	0	A	1945S	QPSK	1	0	10 mm	front	1.1	0.091	1.318	0.120	
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.8	23.66	9	0.01	1	A	1945S	QPSK	36	18	10 mm	front	1.1	0.078	1.300	0.101	
831.50	26865	Mid	LTE Band 26 (Cell)	15	25.8	24.60	9	0.04	0	A	1945S	QPSK	1	0	10 mm	bottom	1.1	0.075	1.318	0.099	
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.8	23.66	9	-0.03	1	A	1945S	QPSK	36	18	10 mm	bottom	1.1	0.062	1.300	0.081	
831.50	26865	Mid	LTE Band 26 (Cell)	15	25.8	24.60	9	-0.01	0	A	1945S	QPSK	1	0	10 mm	right	1.1	0.209	1.318	0.275	
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.8	23.66	9	-0.01	1	A	1945S	QPSK	36	18	10 mm	right	1.1	0.181	1.300	0.235	
831.50	26865	Mid	LTE Band 26 (Cell)	15	25.8	24.60	108	-0.06	0	A + B	1945S	QPSK	1	0	10 mm	back	1.1	0.224	1.318	0.295	A58
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.8	23.66	108	-0.02	1	A + B	1945S	QPSK	36	18	10 mm	back	1.1	0.182	1.300	0.237	
831.50	26865	Mid	LTE Band 26 (Cell)	15	25.8	24.60	108	0.11	0	A + B	1945S	QPSK	1	0	10 mm	front	1.1	0.065	1.318	0.086	
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.8	23.66	108	0.02	1	A + B	1945S	QPSK	36	18	10 mm	front	1.1	0.054	1.300	0.070	
831.50	26865	Mid	LTE Band 26 (Cell)	15	25.8	24.60	108	0.05	0	A + B	1945S	QPSK	1	0	10 mm	bottom	1.1	0.061	1.318	0.080	
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.8	23.66	108	0.05	1	A + B	1945S	QPSK	36	18	10 mm	bottom	1.1	0.049	1.300	0.064	
831.50	26865	Mid	LTE Band 26 (Cell)	15	25.8	24.60	108	0.08	0	A + B	1945S	QPSK	1	0	10 mm	right	1.1	0.122	1.318	0.161	
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.8	23.66	108	-0.01	1	A + B	1945S	QPSK	36	18	10 mm	right	1.1	0.094	1.300	0.122	
831.50	26865	Mid	LTE Band 26 (Cell)	15	25.8	24.60	108	-0.02	0	A + B	1945S	QPSK	1	0	10 mm	left	1.1	0.063	1.318	0.083	
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.8	23.66	108	0.01	1	A + B	1945S	QPSK	36	18	10 mm	left	1.1	0.044	1.300	0.057	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population									Body 1.6 W/kg (mW/g) averaged over 1 gram												

Table 11-53
LTE Band 5 (Cell) Hotspot SAR

MEASUREMENT RESULTS																							
1 CC Uplink / 2 CC Uplink	Component Carrier	FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Tune State	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR [1g]	Scaling Factor	Reported SAR [1g]	Plot #	
		MHz	Ch.																(W/kg)		(W/kg)		
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	25.8	24.09	9	-0.01	0	A	1945S	QPSK	1	0	10 mm	back	1:1	0.237	1.483	0.351	A60
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	24.8	23.03	9	-0.03	1	A	1945S	QPSK	25	0	10 mm	back	1:1	0.187	1.503	0.281	
2 CC Uplink	PCC	836.50	20525	Mid	LTE Band 5 (Cell)	10	25.8	23.90	9	-0.03	0	A	1945S	QPSK	1	0	10 mm	back	1:1	0.228	1.549	0.353	
	SCC	829.30	20453			24																	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	25.8	24.09	9	-0.05	0	A	1945S	QPSK	1	0	10 mm	front	1:1	0.111	1.483	0.165	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	24.8	23.03	9	0.07	1	A	1945S	QPSK	25	0	10 mm	front	1:1	0.087	1.503	0.131	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	25.8	24.09	9	0.18	0	A	1945S	QPSK	1	0	10 mm	bottom	1:1	0.080	1.483	0.119	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	24.8	23.03	9	0.07	1	A	1945S	QPSK	25	0	10 mm	bottom	1:1	0.063	1.503	0.095	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	25.8	24.09	10	0.12	0	A	1945S	QPSK	1	0	10 mm	right	1:1	0.221	1.483	0.328	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	24.8	23.03	10	-0.03	1	A	1945S	QPSK	25	0	10 mm	right	1:1	0.171	1.503	0.257	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	25.8	24.09	108	-0.02	0	A + B	1945S	QPSK	1	0	10 mm	back	1:1	0.235	1.483	0.349	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	24.8	23.03	108	0.02	1	A + B	1945S	QPSK	25	0	10 mm	back	1:1	0.187	1.503	0.281	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	25.8	24.09	108	0.11	0	A + B	1945S	QPSK	1	0	10 mm	front	1:1	0.066	1.483	0.098	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	24.8	23.03	108	0.06	1	A + B	1945S	QPSK	25	0	10 mm	front	1:1	0.055	1.503	0.083	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	25.8	24.09	108	0.02	0	A + B	1945S	QPSK	1	0	10 mm	bottom	1:1	0.054	1.483	0.080	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	24.8	23.03	108	0.02	1	A + B	1945S	QPSK	25	0	10 mm	bottom	1:1	0.043	1.503	0.065	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	25.8	24.09	108	0.02	0	A + B	1945S	QPSK	1	0	10 mm	right	1:1	0.119	1.483	0.176	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	24.8	23.03	108	-0.05	1	A + B	1945S	QPSK	25	0	10 mm	right	1:1	0.092	1.503	0.138	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	25.8	24.09	108	-0.02	0	A + B	1945S	QPSK	1	0	10 mm	left	1:1	0.057	1.483	0.085	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	24.8	23.03	108	-0.14	1	A + B	1945S	QPSK	25	0	10 mm	left	1:1	0.045	1.503	0.068	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT																							
Spatial Peak																							
Uncontrolled Exposure/General Population										Body 1.6 W/kg (mW/g) averaged over 1 gram													

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Table 11-54
LTE Band 66 (AWS) Hotspot SAR

MEASUREMENT RESULTS																				
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.																(W/kg)		(W/kg)	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	19.0	18.10	-0.08	0	B	2021M	QPSK	1	50	10 mm	back	1:1	0.267	1.230	0.328	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	19.0	18.19	0.01	0	B	2021M	QPSK	50	25	10 mm	back	1:1	0.276	1.205	0.333	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	19.0	18.10	-0.02	0	B	2021M	QPSK	1	50	10 mm	front	1:1	0.054	1.230	0.066	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	19.0	18.19	-0.01	0	B	2021M	QPSK	50	25	10 mm	front	1:1	0.095	1.205	0.114	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	19.0	18.10	0.06	0	B	2021M	QPSK	1	50	10 mm	bottom	1:1	0.424	1.230	0.522	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	19.0	18.19	0.01	0	B	2021M	QPSK	50	25	10 mm	bottom	1:1	0.429	1.205	0.517	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	19.0	18.10	0.03	0	B	2021M	QPSK	1	50	10 mm	right	1:1	0.063	1.230	0.077	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	19.0	18.19	0.07	0	B	2021M	QPSK	50	25	10 mm	right	1:1	0.063	1.205	0.076	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	19.0	18.10	-0.13	0	B	2021M	QPSK	1	50	10 mm	left	1:1	0.031	1.230	0.038	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	19.0	18.19	0.08	0	B	2021M	QPSK	50	25	10 mm	left	1:1	0.032	1.205	0.039	
1720.00	132072	Low	LTE Band 66 (AWS)	20	20.5	20.14	0.04	0	E	0241M	QPSK	1	50	10 mm	back	1:1	0.249	1.086	0.270	
1720.00	132072	Low	LTE Band 66 (AWS)	20	20.5	20.33	0.01	0	E	0241M	QPSK	50	25	10 mm	back	1:1	0.256	1.040	0.266	
1720.00	132072	Low	LTE Band 66 (AWS)	20	20.5	20.14	0.10	0	E	0241M	QPSK	1	50	10 mm	front	1:1	0.061	1.086	0.066	
1720.00	132072	Low	LTE Band 66 (AWS)	20	20.5	20.33	0.14	0	E	0241M	QPSK	50	25	10 mm	front	1:1	0.061	1.040	0.063	
1720.00	132072	Low	LTE Band 66 (AWS)	20	20.5	20.14	-0.04	0	E	0241M	QPSK	1	50	10 mm	top	1:1	0.470	1.086	0.510	A62
1720.00	132072	Low	LTE Band 66 (AWS)	20	20.5	20.33	-0.04	0	E	0241M	QPSK	50	25	10 mm	top	1:1	0.467	1.040	0.486	
1720.00	132072	Low	LTE Band 66 (AWS)	20	20.5	20.14	-0.01	0	E	0241M	QPSK	1	50	10 mm	left	1:1	0.075	1.086	0.081	
1720.00	132072	Low	LTE Band 66 (AWS)	20	20.5	20.33	-0.02	0	E	0241M	QPSK	50	25	10 mm	left	1:1	0.073	1.040	0.076	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population								Body 1.6 W/kg (mW/g) averaged over 1 gram												

Table 11-55
LTE Band 25 (PCS) Hotspot SAR

MEASUREMENT RESULTS																				
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.																(W/kg)		(W/kg)	
1905.00	26590	High	LTE Band 25 (PCS)	20	19.0	17.92	-0.01	0	B	1960S	QPSK	1	99	10 mm	back	1:1	0.269	1.282	0.345	
1905.00	26590	High	LTE Band 25 (PCS)	20	19.0	18.06	-0.05	0	B	1960S	QPSK	50	50	10 mm	back	1:1	0.271	1.242	0.337	
1905.00	26590	High	LTE Band 25 (PCS)	20	19.0	17.92	0.19	0	B	1960S	QPSK	1	99	10 mm	front	1:1	0.058	1.282	0.074	
1905.00	26590	High	LTE Band 25 (PCS)	20	19.0	18.06	0.13	0	B	1960S	QPSK	50	50	10 mm	front	1:1	0.060	1.242	0.075	
1905.00	26590	High	LTE Band 25 (PCS)	20	19.0	17.92	-0.05	0	B	1960S	QPSK	1	99	10 mm	bottom	1:1	0.312	1.282	0.400	
1905.00	26590	High	LTE Band 25 (PCS)	20	19.0	18.06	-0.07	0	B	1960S	QPSK	50	50	10 mm	bottom	1:1	0.323	1.242	0.401	A64
1905.00	26590	High	LTE Band 25 (PCS)	20	19.0	17.92	0.15	0	B	1960S	QPSK	1	99	10 mm	right	1:1	0.055	1.282	0.071	
1905.00	26590	High	LTE Band 25 (PCS)	20	19.0	18.06	0.10	0	B	1960S	QPSK	50	50	10 mm	right	1:1	0.056	1.242	0.070	
1905.00	26590	High	LTE Band 25 (PCS)	20	19.0	17.92	0.03	0	B	1960S	QPSK	1	99	10 mm	left	1:1	0.022	1.282	0.028	
1905.00	26590	High	LTE Band 25 (PCS)	20	19.0	18.06	-0.07	0	B	1960S	QPSK	50	50	10 mm	left	1:1	0.023	1.242	0.029	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population								Body 1.6 W/kg (mW/g) averaged over 1 gram												

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Table 11-56
LTE Band 30 Hotspot SAR

MEASUREMENT RESULTS																				
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.	(W/kg)															(W/kg)			
2310.00	27710	Mid	LTE Band 30	10	17.0	16.63	-0.01	0	B	1950S	QPSK	1	49	10 mm	back	1:1	0.325	1.089	0.354	
2310.00	27710	Mid	LTE Band 30	10	17.0	16.57	0.00	0	B	1950S	QPSK	25	12	10 mm	back	1:1	0.334	1.104	0.369	
2310.00	27710	Mid	LTE Band 30	10	17.0	16.63	0.09	0	B	1950S	QPSK	1	49	10 mm	front	1:1	0.101	1.089	0.110	
2310.00	27710	Mid	LTE Band 30	10	17.0	16.57	-0.01	0	B	1950S	QPSK	25	12	10 mm	front	1:1	0.098	1.104	0.108	
2310.00	27710	Mid	LTE Band 30	10	17.0	16.63	-0.03	0	B	1950S	QPSK	1	49	10 mm	bottom	1:1	0.547	1.089	0.596	
2310.00	27710	Mid	LTE Band 30	10	17.0	16.57	0.02	0	B	1950S	QPSK	25	12	10 mm	bottom	1:1	0.562	1.104	0.620	A66
2310.00	27710	Mid	LTE Band 30	10	17.0	16.63	-0.03	0	B	1950S	QPSK	1	49	10 mm	right	1:1	0.261	1.089	0.284	
2310.00	27710	Mid	LTE Band 30	10	17.0	16.57	-0.16	0	B	1950S	QPSK	25	12	10 mm	right	1:1	0.245	1.104	0.270	
2310.00	27710	Mid	LTE Band 30	10	17.0	16.63	0.02	0	B	1950S	QPSK	1	49	10 mm	left	1:1	0.195	1.089	0.212	
2310.00	27710	Mid	LTE Band 30	10	17.0	16.57	0.08	0	B	1950S	QPSK	25	12	10 mm	left	1:1	0.147	1.104	0.162	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population								Body 1.6 W/kg (mW/g) averaged over 1 gram												

Table 11-57
LTE Band 7 Hotspot SAR

MEASUREMENT RESULTS																				
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.																(W/kg)		(W/kg)	
2510.00	20850	Low	LTE Band 7	20	18.0	17.21	0.08	0	B	1631M	QPSK	1	0	10 mm	back	1:1	0.275	1.199	0.330	
2510.00	20850	Low	LTE Band 7	20	18.0	17.29	0.01	0	B	1631M	QPSK	50	25	10 mm	back	1:1	0.278	1.178	0.327	
2510.00	20850	Low	LTE Band 7	20	18.0	17.21	0.07	0	B	1631M	QPSK	1	0	10 mm	front	1:1	0.080	1.199	0.096	
2510.00	20850	Low	LTE Band 7	20	18.0	17.29	0.12	0	B	1631M	QPSK	50	25	10 mm	front	1:1	0.070	1.178	0.082	
2510.00	20850	Low	LTE Band 7	20	18.0	17.21	-0.06	0	B	1631M	QPSK	1	0	10 mm	bottom	1:1	0.539	1.199	0.646	A68
2535.00	21100	Mid	LTE Band 7	20	18.0	17.10	0.08	0	B	1631M	QPSK	1	99	10 mm	bottom	1:1	0.464	1.230	0.571	
2560.00	21350	High	LTE Band 7	20	18.0	17.01	0.07	0	B	1631M	QPSK	1	0	10 mm	bottom	1:1	0.451	1.256	0.566	
2510.00	20850	Low	LTE Band 7	20	18.0	17.29	-0.02	0	B	1631M	QPSK	50	25	10 mm	bottom	1:1	0.508	1.178	0.598	
2510.00	20850	Low	LTE Band 7	20	18.0	17.21	0.17	0	B	1631M	QPSK	1	0	10 mm	right	1:1	0.049	1.199	0.059	
2510.00	20850	Low	LTE Band 7	20	18.0	17.29	0.02	0	B	1631M	QPSK	50	25	10 mm	right	1:1	0.047	1.178	0.055	
2510.00	20850	Low	LTE Band 7	20	18.0	17.21	0.17	0	B	1631M	QPSK	1	0	10 mm	left	1:1	0.029	1.199	0.035	
2510.00	20850	Low	LTE Band 7	20	18.0	17.29	0.13	0	B	1631M	QPSK	50	25	10 mm	left	1:1	0.026	1.178	0.031	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population								Body 1.6 W/kg (mW/g) averaged over 1 gram												

Table 11-58
LTE Band 48 Hotspot SAR

MEASUREMENT RESULTS																				
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.															(W/kg)		(W/kg)		
3646.70	56207	Mid-High	LTE Band 48	20	20.5	20.10	0.03	0	E	0330M	QPSK	1	99	10 mm	back	1:1.58	0.139	1.096	0.152	
3646.70	56207	Mid-High	LTE Band 48	20	20.5	20.20	0.04	0	E	0330M	QPSK	50	25	10 mm	back	1:1.58	0.140	1.072	0.150	
3646.70	56207	Mid-High	LTE Band 48	20	20.5	20.10	0.05	0	E	0330M	QPSK	1	99	10 mm	front	1:1.58	0.026	1.096	0.028	
3646.70	56207	Mid-High	LTE Band 48	20	20.5	20.20	-0.09	0	E	0330M	QPSK	50	25	10 mm	front	1:1.58	0.027	1.072	0.029	
3646.70	56207	Mid-High	LTE Band 48	20	20.5	20.10	-0.05	0	E	0330M	QPSK	1	99	10 mm	top	1:1.58	0.200	1.096	0.219	A70
3646.70	56207	Mid-High	LTE Band 48	20	20.5	20.20	0.05	0	E	0330M	QPSK	50	25	10 mm	top	1:1.58	0.191	1.072	0.205	
3646.70	56207	Mid-High	LTE Band 48	20	20.5	20.10	-0.04	0	E	0330M	QPSK	1	99	10 mm	left	1:1.58	0.049	1.096	0.054	
3646.70	56207	Mid-High	LTE Band 48	20	20.5	20.20	0.11	0	E	0330M	QPSK	50	25	10 mm	left	1:1.58	0.047	1.072	0.050	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population								Body 1.6 W/kg (mW/g) averaged over 1 gram												

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Table 11-59
LTE Band 41 Hotspot SAR

MEASUREMENT RESULTS																						
1 CC Uplink - Power Class 3	Component Carrier	FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [W(dBm)]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
		MHz	Ch.															(W/kg)		(W/kg)		
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	19.0	18.42	0.02	0	B	1577M	QPSK	1	50	10 mm	back	1:1.58	0.361	1.143	0.413	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	19.0	18.51	0.12	0	B	1577M	QPSK	50	50	10 mm	back	1:1.58	0.367	1.119	0.411	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	19.0	18.42	0.03	0	B	1577M	QPSK	1	50	10 mm	front	1:1.58	0.056	1.143	0.064	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	19.0	18.51	0.03	0	B	1577M	QPSK	50	50	10 mm	front	1:1.58	0.058	1.119	0.065	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	19.0	17.90	0.16	0	B	1577M	QPSK	1	0	10 mm	bottom	1:1.58	0.354	1.288	0.456	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	19.0	18.42	0.06	0	B	1577M	QPSK	1	50	10 mm	bottom	1:1.58	0.370	1.143	0.423	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	19.0	18.51	0.14	0	B	1577M	QPSK	50	50	10 mm	bottom	1:1.58	0.369	1.119	0.413	
1 CC Uplink - Power Class 2	N/A	2680.00	41490	High	LTE Band 41	20	20.6	19.57	0.12	0	B	1577M	QPSK	1	0	10 mm	bottom	1:2.31	0.348	1.268	0.441	
1 CC Uplink - Power Class 2	N/A	2680.00	41490	High	LTE Band 41	20	20.6	20.12	0.08	0	B	1577M	QPSK	1	50	10 mm	bottom	1:2.31	0.382	1.117	0.427	A72
2 CC Uplink - Power Class 3	PCC	2680.00	41490	High	LTE Band 41	20	19.0	18.17	0.11	0	B	1577M	QPSK	1	0	10 mm	bottom	1:1.58	0.362	1.211	0.438	
	SCC	2660.20	41292																			
2 CC Uplink - Power Class 2	PCC	2680.00	41490	High	LTE Band 41	20	20.6	20.10	0.09	0	B	1577M	QPSK	1	0	10 mm	bottom	1:2.31	0.376	1.122	0.422	
	SCC	2660.20	41292																			
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	19.0	18.42	0.05	0	B	1577M	QPSK	1	50	10 mm	right	1:1.58	0.021	1.143	0.024	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	19.0	18.51	0.00	0	B	1577M	QPSK	50	50	10 mm	right	1:1.58	0.019	1.119	0.021	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	19.0	18.42	0.07	0	B	1577M	QPSK	1	50	10 mm	left	1:1.58	0.014	1.143	0.016	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	19.0	18.51	-0.18	0	B	1577M	QPSK	50	50	10 mm	left	1:1.58	0.016	1.119	0.018	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population										Body 1.6 W/kg (mW/g) averaged over 1 gram												

Table 11-60
NR Band n71 Hotspot SAR

MEASUREMENT RESULTS																						
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Antenna Config	Power Drift [dB]	MPR [dB]	Antenna State	Serial Number	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.																	(W/kg)		(W/kg)		
680.50	136100	Mid	NR Band n71	20	25.5	24.48	A + B	0.03	0.0	18	2524R	DFT-S-OFDM	QPSK	1	1	10 mm	back	1:1	0.200	1.265	0.253	
680.50	136100	Mid	NR Band n71	20	25.5	24.34	A + B	-0.10	0.0	18	2524R	DFT-S-OFDM	QPSK	50	28	10 mm	back	1:1	0.195	1.306	0.255	
680.50	136100	Mid	NR Band n71	20	25.5	24.48	A + B	-0.01	0.0	18	2524R	DFT-S-OFDM	QPSK	1	1	10 mm	front	1:1	0.106	1.265	0.134	
680.50	136100	Mid	NR Band n71	20	25.5	24.34	A + B	-0.04	0.0	18	2524R	DFT-S-OFDM	QPSK	50	28	10 mm	front	1:1	0.092	1.306	0.120	
680.50	136100	Mid	NR Band n71	20	25.5	24.48	A + B	-0.09	0.0	18	2524R	DFT-S-OFDM	QPSK	1	1	10 mm	bottom	1:1	0.042	1.265	0.053	
680.50	136100	Mid	NR Band n71	20	25.5	24.34	A + B	0.06	0.0	18	2524R	DFT-S-OFDM	QPSK	50	28	10 mm	bottom	1:1	0.039	1.306	0.051	
680.50	136100	Mid	NR Band n71	20	25.5	24.48	A + B	-0.10	0.0	135	2524R	DFT-S-OFDM	QPSK	1	1	10 mm	right	1:1	0.253	1.265	0.320	
680.50	136100	Mid	NR Band n71	20	25.5	24.34	A + B	-0.04	0.0	135	2524R	DFT-S-OFDM	QPSK	50	28	10 mm	right	1:1	0.262	1.306	0.342	A74
680.50	136100	Mid	NR Band n71	20	24.0	22.90	A + B	0.10	1.5	135	2524R	CP-OFDM	QPSK	1	1	10 mm	right	1:1	0.180	1.288	0.232	
680.50	136100	Mid	NR Band n71	20	25.5	24.48	A + B	0.02	0.0	99	2524R	DFT-S-OFDM	QPSK	1	1	10 mm	left	1:1	0.113	1.265	0.143	
680.50	136100	Mid	NR Band n71	20	25.5	24.34	A + B	-0.01	0.0	99	2524R	DFT-S-OFDM	QPSK	50	28	10 mm	left	1:1	0.118	1.306	0.154	
680.50	136100	Mid	NR Band n71	20	25.5	24.48	A	-0.12	0.0	82	1955S	DFT-S-OFDM	QPSK	1	1	10 mm	back	1:1	0.164	1.265	0.207	
680.50	136100	Mid	NR Band n71	20	25.5	24.34	A	-0.03	0.0	82	1955S	DFT-S-OFDM	QPSK	50	28	10 mm	back	1:1	0.158	1.306	0.206	
680.50	136100	Mid	NR Band n71	20	25.5	24.48	A	0.18	0.0	20	1955S	DFT-S-OFDM	QPSK	1	1	10 mm	front	1:1	0.069	1.265	0.087	
680.50	136100	Mid	NR Band n71	20	25.5	24.34	A	0.07	0.0	20	1955S	DFT-S-OFDM	QPSK	50	28	10 mm	front	1:1	0.074	1.306	0.097	
680.50	136100	Mid	NR Band n71	20	25.5	24.48	A	0.09	0.0	13	1955S	DFT-S-OFDM	QPSK	1	1	10 mm	bottom	1:1	0.048	1.265	0.061	
680.50	136100	Mid	NR Band n71	20	25.5	24.34	A	-0.01	0.0	13	1955S	DFT-S-OFDM	QPSK	50	28	10 mm	bottom	1:1	0.050	1.306	0.065	
680.50	136100	Mid	NR Band n71	20	25.5	24.48	A	-0.05	0.0	20	1955S	DFT-S-OFDM	QPSK	1	1	10 mm	right	1:1	0.205	1.265	0.259	
680.50	136100	Mid	NR Band n71	20	25.5	24.34	A	-0.06	0.0	20	1955S	DFT-S-OFDM	QPSK	50	28	10 mm	right	1:1	0.224	1.306	0.293	
680.50	136100	Mid	NR Band n71	20	24.0	22.90	A	0.13	1.5	20	1955S	CP-OFDM	QPSK	1	1	10 mm	right	1:1	0.139	1.288	0.179	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT									Body													
Spatial Peak									1.6 W/kg (mW/g)													
Uncontrolled Exposure/General Population									averaged over 1 gram													

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Table 11-61
NR Band n12 Hotspot SAR

MEASUREMENT RESULTS																						
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Antenna Config	Power Drift [dB]	MPR [dB]	Antenna State	Serial Number	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.																	(W/kg)		(W/kg)		
707.50	141500	Md	NR Band n12	15	25.5	24.02	A + B	0.08	0.0	0	2524R	DFT-S-OFDM	QPSK	1	40	10 mm	back	1:1	0.237	1.406	0.333	
707.50	141500	Md	NR Band n12	15	25.5	23.90	A + B	0.05	0.0	0	2524R	DFT-S-OFDM	QPSK	36	22	10 mm	back	1:1	0.231	1.445	0.334	
707.50	141500	Md	NR Band n12	15	25.5	24.02	A + B	-0.06	0.0	0	2524R	DFT-S-OFDM	QPSK	1	40	10 mm	front	1:1	0.096	1.406	0.135	
707.50	141500	Md	NR Band n12	15	25.5	23.90	A + B	0.01	0.0	0	2524R	DFT-S-OFDM	QPSK	36	22	10 mm	front	1:1	0.095	1.445	0.137	
707.50	141500	Md	NR Band n12	15	25.5	24.02	A + B	0.02	0.0	0	2524R	DFT-S-OFDM	QPSK	1	40	10 mm	bottom	1:1	0.052	1.406	0.073	
707.50	141500	Md	NR Band n12	15	25.5	23.90	A + B	0.10	0.0	0	2524R	DFT-S-OFDM	QPSK	36	22	10 mm	bottom	1:1	0.051	1.445	0.074	
707.50	141500	Md	NR Band n12	15	25.5	24.02	A + B	-0.01	0.0	0	2524R	DFT-S-OFDM	QPSK	1	40	10 mm	right	1:1	0.255	1.406	0.359	A76
707.50	141500	Md	NR Band n12	15	25.5	23.90	A + B	0.02	0.0	0	2524R	DFT-S-OFDM	QPSK	36	22	10 mm	right	1:1	0.253	1.445	0.366	
707.50	141500	Md	NR Band n12	15	24.0	22.18	A + B	0.10	1.5	0	2524R	CP-OFDM	QPSK	1	1	10 mm	right	1:1	0.203	1.521	0.309	
707.50	141500	Md	NR Band n12	15	25.5	24.02	A + B	0.17	0.0	0	2524R	DFT-S-OFDM	QPSK	1	40	10 mm	left	1:1	0.091	1.406	0.128	
707.50	141500	Md	NR Band n12	15	25.5	23.90	A + B	0.04	0.0	0	2524R	DFT-S-OFDM	QPSK	36	22	10 mm	left	1:1	0.090	1.445	0.130	
707.50	141500	Md	NR Band n12	15	25.5	24.02	A	-0.12	0.0	9	2524R	DFT-S-OFDM	QPSK	1	40	10 mm	back	1:1	0.205	1.406	0.288	
707.50	141500	Md	NR Band n12	15	25.5	23.90	A	-0.17	0.0	9	2524R	DFT-S-OFDM	QPSK	36	22	10 mm	back	1:1	0.199	1.445	0.288	
707.50	141500	Md	NR Band n12	15	25.5	24.02	A	0.04	0.0	27	2524R	DFT-S-OFDM	QPSK	1	40	10 mm	front	1:1	0.064	1.406	0.090	
707.50	141500	Md	NR Band n12	15	25.5	23.90	A	0.01	0.0	27	2524R	DFT-S-OFDM	QPSK	36	22	10 mm	front	1:1	0.065	1.445	0.094	
707.50	141500	Md	NR Band n12	15	25.5	24.02	A	0.13	0.0	18	2524R	DFT-S-OFDM	QPSK	1	40	10 mm	bottom	1:1	0.069	1.406	0.097	
707.50	141500	Md	NR Band n12	15	25.5	23.90	A	-0.09	0.0	18	2524R	DFT-S-OFDM	QPSK	36	22	10 mm	bottom	1:1	0.067	1.445	0.097	
707.50	141500	Md	NR Band n12	15	25.5	24.02	A	0.18	0.0	18	2524R	DFT-S-OFDM	QPSK	1	40	10 mm	right	1:1	0.212	1.406	0.298	
707.50	141500	Md	NR Band n12	15	25.5	23.90	A	0.06	0.0	18	2524R	DFT-S-OFDM	QPSK	36	22	10 mm	right	1:1	0.204	1.445	0.295	
707.50	141500	Md	NR Band n12	15	24.0	22.18	A	0.03	1.5	18	2524R	CP-OFDM	QPSK	1	1	10 mm	right	1:1	0.162	1.521	0.246	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT									Body													
Spatial Peak									1.6 W/kg (mW/g)													
Uncontrolled Exposure/General Population									averaged over 1 gram													

Table 11-62
NR Band n5 (Cell) Hotspot SAR

MEASUREMENT RESULTS																						
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Antenna Config	Power Drift [dB]	MPR [dB]	Antenna State	Serial Number	Waveform	Modulation	RB Size	RB Offset	Spacing	MPR [dB]	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.																	(W/kg)		(W/kg)		
836.50	167300	Md	NR Band n5 (Cell)	20	25.5	25.39	A	0.04	0	9	2528R	DFT-S-OFDM	QPSK	1	53	10 mm	back	1:1	0.245	1.026	0.251	
836.50	167300	Md	NR Band n5 (Cell)	20	25.5	25.15	A	-0.01	0	9	2528R	DFT-S-OFDM	QPSK	50	28	10 mm	back	1:1	0.242	1.084	0.262	
836.50	167300	Md	NR Band n5 (Cell)	20	24.0	23.23	A	0.03	1.5	9	2528R	CP-OFDM	QPSK	1	1	10 mm	back	1:1	0.168	1.194	0.201	
836.50	167300	Md	NR Band n5 (Cell)	20	25.5	25.39	A	0.06	0	9	2528R	DFT-S-OFDM	QPSK	1	53	10 mm	front	1:1	0.086	1.026	0.088	
836.50	167300	Md	NR Band n5 (Cell)	20	25.5	25.15	A	0.13	0	9	2528R	DFT-S-OFDM	QPSK	50	28	10 mm	front	1:1	0.084	1.084	0.091	
836.50	167300	Md	NR Band n5 (Cell)	20	25.5	25.39	A	0.03	0	9	2528R	DFT-S-OFDM	QPSK	1	53	10 mm	bottom	1:1	0.086	1.026	0.088	
836.50	167300	Md	NR Band n5 (Cell)	20	25.5	25.15	A	-0.03	0	9	2528R	DFT-S-OFDM	QPSK	50	28	10 mm	bottom	1:1	0.085	1.084	0.092	
836.50	167300	Md	NR Band n5 (Cell)	20	25.5	25.39	A	-0.13	0	10	2528R	DFT-S-OFDM	QPSK	1	53	10 mm	right	1:1	0.148	1.026	0.152	
836.50	167300	Md	NR Band n5 (Cell)	20	25.5	25.15	A	-0.10	0	10	2528R	DFT-S-OFDM	QPSK	50	28	10 mm	right	1:1	0.147	1.084	0.159	
836.50	167300	Md	NR Band n5 (Cell)	20	25.5	25.39	A + B	0.01	0	108	2528R	DFT-S-OFDM	QPSK	1	53	10 mm	back	1:1	0.250	1.026	0.257	
836.50	167300	Md	NR Band n5 (Cell)	20	25.5	25.15	A + B	-0.02	0	108	2528R	DFT-S-OFDM	QPSK	50	28	10 mm	back	1:1	0.253	1.084	0.274	A78
836.50	167300	Md	NR Band n5 (Cell)	20	24.0	23.23	A + B	-0.02	1.5	108	2528R	CP-OFDM	QPSK	1	1	10 mm	back	1:1	0.171	1.194	0.204	
836.50	167300	Md	NR Band n5 (Cell)	20	25.5	25.39	A + B	0.13	0	108	2528R	DFT-S-OFDM	QPSK	1	53	10 mm	front	1:1	0.079	1.026	0.081	
836.50	167300	Md	NR Band n5 (Cell)	20	25.5	25.15	A + B	0.03	0	108	2528R	DFT-S-OFDM	QPSK	50	28	10 mm	front	1:1	0.077	1.084	0.083	
836.50	167300	Md	NR Band n5 (Cell)	20	25.5	25.39	A + B	-0.02	0	108	2528R	DFT-S-OFDM	QPSK	1	53	10 mm	bottom	1:1	0.051	1.026	0.052	
836.50	167300	Md	NR Band n5 (Cell)	20	25.5	25.15	A + B	-0.02	0	108	2528R	DFT-S-OFDM	QPSK	50	28	10 mm	bottom	1:1	0.052	1.084	0.056	
836.50	167300	Md	NR Band n5 (Cell)	20	25.5	25.39	A + B	0.00	0	108	2528R	DFT-S-OFDM	QPSK	1	53	10 mm	right	1:1	0.146	1.026	0.150	
836.50	167300	Md	NR Band n5 (Cell)	20	25.5	25.15	A + B	0.02	0	108	2528R	DFT-S-OFDM	QPSK	50	28	10 mm	right	1:1	0.142	1.084	0.154	
836.50	167300	Md	NR Band n5 (Cell)	20	25.5	25.39	A + B	0.05	0	108	2528R	DFT-S-OFDM	QPSK	1	53	10 mm	left	1:1	0.069	1.026	0.071	
836.50	167300	Md	NR Band n5 (Cell)	20	25.5	25.15	A + B	0.01	0	108	2528R	DFT-S-OFDM	QPSK	50	28	10 mm	left	1:1	0.067	1.084	0.073	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT									Body													
Spatial Peak									1.6 W/kg (mW/g)													
Uncontrolled Exposure/General Population									averaged over 1 gram													

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Document S/N: 1M2104020031-01.A3L (Rev 1)	Test Dates: 04/06/21 - 06/09/21	DUT Type: Portable Handset	Page 121 of 245	

Table 11-63
NR Band n66 (AWS) Hotspot SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Antenna Config	Power Drift [dB]	MPR[dB]	Serial Number	Waveform	Modulation	RB Size	RB Offset	Spacing	MPR[dB]	Duty Cycle	SAR (1g) (W/kg)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.																		(W/kg)		
1745.00	349000	Mid	NR Band n66 (AWS)	40	19.0	18.06	B	-0.01	0	1619M	DFT-S-OFDM	QPSK	1	1	10 mm	back	1:1	0.268	1.242	0.333	A80
1745.00	349000	Mid	NR Band n66 (AWS)	40	19.0	18.14	B	0.03	0	1619M	DFT-S-OFDM	QPSK	108	108	10 mm	back	1:1	0.295	1.219	0.360	
1745.00	349000	Mid	NR Band n66 (AWS)	40	19.0	18.06	B	-0.04	0	1619M	DFT-S-OFDM	QPSK	1	1	10 mm	front	1:1	0.057	1.242	0.071	
1745.00	349000	Mid	NR Band n66 (AWS)	40	19.0	18.14	B	0.00	0	1619M	DFT-S-OFDM	QPSK	108	108	10 mm	front	1:1	0.063	1.219	0.077	
1745.00	349000	Mid	NR Band n66 (AWS)	40	19.0	18.06	B	0.05	0	1619M	DFT-S-OFDM	QPSK	1	1	10 mm	bottom	1:1	0.478	1.242	0.594	
1745.00	349000	Mid	NR Band n66 (AWS)	40	19.0	18.14	B	0.00	0	1619M	DFT-S-OFDM	QPSK	108	108	10 mm	bottom	1:1	0.456	1.219	0.556	
1745.00	349000	Mid	NR Band n66 (AWS)	40	19.0	18.05	B	0.04	0	1619M	CP-OFDM	QPSK	1	1	10 mm	bottom	1:1	0.471	1.245	0.586	
1745.00	349000	Mid	NR Band n66 (AWS)	40	19.0	18.06	B	-0.07	0	1619M	DFT-S-OFDM	QPSK	1	1	10 mm	right	1:1	0.084	1.242	0.104	
1745.00	349000	Mid	NR Band n66 (AWS)	40	19.0	18.14	B	0.08	0	1619M	DFT-S-OFDM	QPSK	108	108	10 mm	right	1:1	0.080	1.219	0.098	
1745.00	349000	Mid	NR Band n66 (AWS)	40	19.0	18.06	B	-0.06	0	1619M	DFT-S-OFDM	QPSK	1	1	10 mm	left	1:1	0.035	1.242	0.043	
1745.00	349000	Mid	NR Band n66 (AWS)	40	19.0	18.14	B	-0.04	0	1619M	DFT-S-OFDM	QPSK	108	108	10 mm	left	1:1	0.035	1.219	0.043	
1745.00	349000	Mid	NR Band n66 (AWS)	40	20.5	19.43	E	0.03	0	2039M	DFT-S-OFDM	QPSK	1	108	10 mm	back	1:1	0.248	1.279	0.317	
1745.00	349000	Mid	NR Band n66 (AWS)	40	20.5	19.42	E	0.06	0	2039M	DFT-S-OFDM	QPSK	108	0	10 mm	back	1:1	0.240	1.282	0.308	
1745.00	349000	Mid	NR Band n66 (AWS)	40	20.5	19.43	E	0.13	0	2039M	DFT-S-OFDM	QPSK	1	108	10 mm	front	1:1	0.062	1.279	0.079	
1745.00	349000	Mid	NR Band n66 (AWS)	40	20.5	19.42	E	0.11	0	2039M	DFT-S-OFDM	QPSK	108	0	10 mm	front	1:1	0.063	1.282	0.081	
1745.00	349000	Mid	NR Band n66 (AWS)	40	20.5	19.43	E	0.02	0	2039M	DFT-S-OFDM	QPSK	1	108	10 mm	top	1:1	0.400	1.279	0.512	
1745.00	349000	Mid	NR Band n66 (AWS)	40	20.5	19.42	E	-0.03	0	2039M	DFT-S-OFDM	QPSK	108	0	10 mm	top	1:1	0.403	1.282	0.517	
1745.00	349000	Mid	NR Band n66 (AWS)	40	20.5	19.58	E	-0.02	0	2039M	CP-OFDM	QPSK	1	1	10 mm	top	1:1	0.381	1.236	0.471	
1745.00	349000	Mid	NR Band n66 (AWS)	40	20.5	19.43	E	0.18	0	2039M	DFT-S-OFDM	QPSK	1	108	10 mm	left	1:1	0.059	1.279	0.075	
1745.00	349000	Mid	NR Band n66 (AWS)	40	20.5	19.42	E	0.01	0	2039M	DFT-S-OFDM	QPSK	108	0	10 mm	left	1:1	0.063	1.282	0.081	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak								Body 1.6 W/kg (mW/g)													
Uncontrolled Exposure/General Population								averaged over 1 gram													

Table 11-64
NR Band n25 (PCS) Hotspot SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Antenna Config	Power Drift [dB]	MPR [dB]	Serial Number	Waveform	Modulation	RB Size	RB Offset	Spacing	MPR [dB]	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.																(W/kg)		(W/kg)		
1882.50	376500	Mid	NR Band n25 (PCS)	40	19.0	18.00	B	0.03	0	1619M	DFT-S-OFDM	QPSK	1	1	10 mm	back	1:1	0.271	1.259	0.341	
1882.50	376500	Mid	NR Band n25 (PCS)	40	19.0	17.89	B	0.01	0	1619M	DFT-S-OFDM	QPSK	108	108	10 mm	back	1:1	0.265	1.291	0.342	
1882.50	376500	Mid	NR Band n25 (PCS)	40	19.0	18.00	B	0.03	0	1619M	DFT-S-OFDM	QPSK	1	1	10 mm	front	1:1	0.059	1.259	0.074	
1882.50	376500	Mid	NR Band n25 (PCS)	40	19.0	17.89	B	0.03	0	1619M	DFT-S-OFDM	QPSK	108	108	10 mm	front	1:1	0.053	1.291	0.068	
1882.50	376500	Mid	NR Band n25 (PCS)	40	19.0	18.00	B	-0.02	0	1619M	DFT-S-OFDM	QPSK	1	1	10 mm	bottom	1:1	0.387	1.259	0.487	
1882.50	376500	Mid	NR Band n25 (PCS)	40	19.0	17.89	B	0.04	0	1619M	DFT-S-OFDM	QPSK	108	108	10 mm	bottom	1:1	0.374	1.291	0.483	
1882.50	376500	Mid	NR Band n25 (PCS)	40	19.0	17.93	B	0.03	0	1619M	CP-OFDM	QPSK	1	1	10 mm	bottom	1:1	0.387	1.279	0.495	
1882.50	376500	Mid	NR Band n25 (PCS)	40	19.0	18.00	B	0.04	0	1619M	DFT-S-OFDM	QPSK	1	1	10 mm	right	1:1	0.054	1.259	0.068	
1882.50	376500	Mid	NR Band n25 (PCS)	40	19.0	17.89	B	-0.01	0	1619M	DFT-S-OFDM	QPSK	108	108	10 mm	right	1:1	0.052	1.291	0.067	
1882.50	376500	Mid	NR Band n25 (PCS)	40	19.0	18.00	B	0.00	0	1619M	DFT-S-OFDM	QPSK	1	1	10 mm	left	1:1	0.024	1.259	0.030	
1882.50	376500	Mid	NR Band n25 (PCS)	40	19.0	17.89	B	0.10	0	1619M	DFT-S-OFDM	QPSK	108	108	10 mm	left	1:1	0.022	1.291	0.028	
1882.50	376500	Mid	NR Band n25 (PCS)	40	20.5	19.97	E	0.07	0	2039M	DFT-S-OFDM	QPSK	1	214	10 mm	back	1:1	0.249	1.130	0.281	
1882.50	376500	Mid	NR Band n25 (PCS)	40	20.5	19.88	E	0.12	0	2039M	DFT-S-OFDM	QPSK	108	108	10 mm	back	1:1	0.275	1.153	0.317	
1882.50	376500	Mid	NR Band n25 (PCS)	40	20.5	19.97	E	0.02	0	2039M	DFT-S-OFDM	QPSK	1	214	10 mm	front	1:1	0.054	1.130	0.061	
1882.50	376500	Mid	NR Band n25 (PCS)	40	20.5	19.88	E	0.03	0	2039M	DFT-S-OFDM	QPSK	108	108	10 mm	front	1:1	0.065	1.153	0.075	
1882.50	376500	Mid	NR Band n25 (PCS)	40	20.5	19.97	E	-0.01	0	2039M	DFT-S-OFDM	QPSK	1	214	10 mm	top	1:1	0.405	1.130	0.458	
1882.50	376500	Mid	NR Band n25 (PCS)	40	20.5	19.88	E	0.00	0	2039M	DFT-S-OFDM	QPSK	108	108	10 mm	top	1:1	0.501	1.153	0.578	A82
1882.50	376500	Mid	NR Band n25 (PCS)	40	20.5	19.76	E	0.02	0	2039M	CP-OFDM	QPSK	1	1	10 mm	top	1:1	0.474	1.186	0.562	
1882.50	376500	Mid	NR Band n25 (PCS)	40	20.5	19.97	E	0.07	0	2039M	DFT-S-OFDM	QPSK	1	214	10 mm	left	1:1	0.059	1.130	0.067	
1882.50	376500	Mid	NR Band n25 (PCS)	40	20.5	19.88	E	0.12	0	2039M	DFT-S-OFDM	QPSK	108	108	10 mm	left	1:1	0.061	1.153	0.070	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak								Body 1.6 W/kg (mW/g) averaged over 1 gram													
Uncontrolled Exposure/General Population																					

FCC ID: A3LSMF926U	 Proud to be part of  SAR EVALUATION REPORT  Approved by: Quality Manager		
Document S/N: 1M2104020031-01.A3L (Rev 1)	Test Dates: 04/06/21 - 06/09/21	DUT Type: Portable Handset	Page 122 of 245

Table 11-65
NR Band n30 Hotspot SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Antenna Config	Power Drift [dB]	MPR [dB]	Serial Number	Waveform	Modulation	RB Size	RB Offset	Spacing	MPR [dB]	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.																(W/kg)		(W/kg)		
2310.00	462000	Mid	NR Band n30	10	17.0	16.88	B	-0.02	0	1619M	DFT-S-OFDM	QPSK	1	26	10 mm	back	1:1	0.223	1.028	0.229	
2310.00	462000	Mid	NR Band n30	10	17.0	16.86	B	0.01	0	1619M	DFT-S-OFDM	QPSK	25	0	10 mm	back	1:1	0.214	1.033	0.221	
2310.00	462000	Mid	NR Band n30	10	17.0	16.88	B	0.15	0	1619M	DFT-S-OFDM	QPSK	1	26	10 mm	front	1:1	0.062	1.028	0.064	
2310.00	462000	Mid	NR Band n30	10	17.0	16.86	B	0.03	0	1619M	DFT-S-OFDM	QPSK	25	0	10 mm	front	1:1	0.062	1.033	0.064	
2310.00	462000	Mid	NR Band n30	10	17.0	16.88	B	0.04	0	1619M	DFT-S-OFDM	QPSK	1	26	10 mm	bottom	1:1	0.402	1.028	0.413	A84
2310.00	462000	Mid	NR Band n30	10	17.0	16.86	B	0.03	0	1619M	DFT-S-OFDM	QPSK	25	0	10 mm	bottom	1:1	0.392	1.033	0.405	
2310.00	462000	Mid	NR Band n30	10	17.0	17.00	B	0.02	0	1619M	CP-OFDM	QPSK	1	1	10 mm	bottom	1:1	0.388	1.000	0.388	
2310.00	462000	Mid	NR Band n30	10	17.0	16.88	B	0.04	0	1619M	DFT-S-OFDM	QPSK	1	26	10 mm	right	1:1	0.039	1.028	0.040	
2310.00	462000	Mid	NR Band n30	10	17.0	16.86	B	0.13	0	1619M	DFT-S-OFDM	QPSK	25	0	10 mm	right	1:1	0.030	1.033	0.031	
2310.00	462000	Mid	NR Band n30	10	17.0	16.88	B	0.13	0	1619M	DFT-S-OFDM	QPSK	1	26	10 mm	left	1:1	0.023	1.028	0.024	
2310.00	462000	Mid	NR Band n30	10	17.0	16.86	B	0.17	0	1619M	DFT-S-OFDM	QPSK	25	0	10 mm	left	1:1	0.022	1.033	0.023	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population								Body 1.6 W/kg (mW/g) averaged over 1 gram													

Table 11-66
NR Band n41 Hotspot SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Antenna Config	Power Drift [dB]	MPR [dB]	Serial Number	Waveform	Modulation	RB Size	RB Offset	Spacing	MPR [dB]	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.																(W/kg)		(W/kg)		
2592.99	518598	Mid	NR Band n41	100	19.0	17.72	E	-0.08	0	0372M	DFT-S-OFDM	QPSK	1	137	10 mm	back	1:1	0.089	1.343	0.120	
2592.99	518598	Mid	NR Band n41	100	19.0	17.81	E	-0.11	0	0372M	DFT-S-OFDM	QPSK	135	0	10 mm	back	1:1	0.089	1.315	0.117	
2592.99	518598	Mid	NR Band n41	100	19.0	17.72	E	-0.16	0	0372M	DFT-S-OFDM	QPSK	1	137	10 mm	front	1:1	0.042	1.343	0.056	
2592.99	518598	Mid	NR Band n41	100	19.0	17.81	E	-0.11	0	0372M	DFT-S-OFDM	QPSK	135	0	10 mm	front	1:1	0.039	1.315	0.051	
2592.99	518598	Mid	NR Band n41	100	19.0	17.72	E	-0.05	0	0372M	DFT-S-OFDM	QPSK	1	137	10 mm	top	1:1	0.203	1.343	0.273	
2592.99	518598	Mid	NR Band n41	100	19.0	17.81	E	-0.02	0	0372M	DFT-S-OFDM	QPSK	135	0	10 mm	top	1:1	0.221	1.315	0.291	A86
2592.99	518598	Mid	NR Band n41	100	19.0	17.76	E	-0.14	0	0372M	CP-OFDM	QPSK	1	1	10 mm	top	1:1	0.216	1.330	0.287	
2592.99	518598	Mid	NR Band n41	100	19.0	17.72	E	-0.02	0	0372M	DFT-S-OFDM	QPSK	1	137	10 mm	left	1:1	0.039	1.343	0.052	
2592.99	518598	Mid	NR Band n41	100	19.0	17.81	E	-0.02	0	0372M	DFT-S-OFDM	QPSK	135	0	10 mm	left	1:1	0.043	1.315	0.057	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population									Body 1.6 W/kg (mW/g) averaged over 1 gram												

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Document S/N: 1M2104020031-01.A3L (Rev 1)	Test Dates: 04/06/21 - 06/09/21	DUT Type: Portable Handset	Page 123 of 245

Table 11-67
NR Band n77 DoD Hotspot SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Antenna Config	Power Drift [dB]	MPR [dB]	Serial Number	Waveform	Modulation	RB Size	RB Offset	Spacing	MPR [dB]	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.																(W/kg)		(W/kg)		
3500.01	633334	Mid	NR Band n77	100	19.0	18.96	E	-0.02	0	0330M	DFT-S-OFDM	QPSK	1	137	10 mm	back	1:1	0.128	1.009	0.129	
3500.01	633334	Mid	NR Band n77	100	19.0	18.97	E	-0.17	0	0330M	DFT-S-OFDM	QPSK	135	69	10 mm	back	1:1	0.129	1.007	0.130	
3500.01	633334	Mid	NR Band n77	100	19.0	18.81	E	-0.12	0	0330M	CP-OFDM	QPSK	1	1	10 mm	back	1:1	0.125	1.045	0.131	
3500.01	633334	Mid	NR Band n77	100	19.0	18.96	E	-0.12	0	0330M	DFT-S-OFDM	QPSK	1	137	10 mm	front	1:1	0.013	1.009	0.013	
3500.01	633334	Mid	NR Band n77	100	19.0	18.97	E	-0.04	0	0330M	DFT-S-OFDM	QPSK	135	69	10 mm	front	1:1	0.016	1.007	0.016	
3500.01	633334	Mid	NR Band n77	100	19.0	18.96	E	-0.03	0	0330M	DFT-S-OFDM	QPSK	1	137	10 mm	top	1:1	0.103	1.009	0.104	
3500.01	633334	Mid	NR Band n77	100	19.0	18.97	E	-0.03	0	0330M	DFT-S-OFDM	QPSK	135	69	10 mm	top	1:1	0.102	1.007	0.103	
3500.01	633334	Mid	NR Band n77	100	19.0	18.96	E	-0.09	0	0330M	DFT-S-OFDM	QPSK	1	137	10 mm	left	1:1	0.036	1.009	0.036	
3500.01	633334	Mid	NR Band n77	100	19.0	18.97	E	-0.05	0	0330M	DFT-S-OFDM	QPSK	135	69	10 mm	left	1:1	0.031	1.007	0.031	
3500.01	633334	Mid	NR Band n77	100	19.0	18.78	G	-0.04	0	0330M	DFT-S-OFDM	QPSK	1	1	10 mm	back	1:1	0.067	1.052	0.070	
3500.01	633334	Mid	NR Band n77	100	19.0	18.64	G	-0.03	0	0330M	DFT-S-OFDM	QPSK	135	0	10 mm	back	1:1	0.067	1.086	0.073	
3500.01	633334	Mid	NR Band n77	100	19.0	18.81	G	-0.04	0	0330M	CP-OFDM	QPSK	1	1	10 mm	back	1:1	0.065	1.045	0.068	
3500.01	633334	Mid	NR Band n77	100	19.0	18.78	G	-0.06	0	0330M	DFT-S-OFDM	QPSK	1	1	10 mm	front	1:1	0.012	1.052	0.013	
3500.01	633334	Mid	NR Band n77	100	19.0	18.64	G	-0.07	0	0330M	DFT-S-OFDM	QPSK	135	0	10 mm	front	1:1	0.010	1.086	0.011	
3500.01	633334	Mid	NR Band n77	100	19.0	18.78	G	-0.02	0	0330M	DFT-S-OFDM	QPSK	1	1	10 mm	right	1:1	0.028	1.052	0.029	
3500.01	633334	Mid	NR Band n77	100	19.0	18.64	G	-0.04	0	0330M	DFT-S-OFDM	QPSK	135	0	10 mm	right	1:1	0.029	1.086	0.031	
3500.01	633334	Mid	NR Band n77	100	17.0	16.67	F	-0.02	0	0330M	DFT-S-OFDM	QPSK	1	137	10 mm	back	1:1	0.227	1.079	0.245	
3500.01	633334	Mid	NR Band n77	100	17.0	16.69	F	-0.13	0	0330M	DFT-S-OFDM	QPSK	135	69	10 mm	back	1:1	0.222	1.074	0.238	
3500.01	633334	Mid	NR Band n77	100	17.0	16.67	F	-0.04	0	0330M	DFT-S-OFDM	QPSK	1	137	10 mm	front	1:1	0.092	1.079	0.099	
3500.01	633334	Mid	NR Band n77	100	17.0	16.69	F	-0.07	0	0330M	DFT-S-OFDM	QPSK	135	69	10 mm	front	1:1	0.087	1.074	0.093	
3500.01	633334	Mid	NR Band n77	100	17.0	16.67	F	-0.09	0	0330M	DFT-S-OFDM	QPSK	1	137	10 mm	top	1:1	0.357	1.079	0.385	A88
3500.01	633334	Mid	NR Band n77	100	17.0	16.69	F	-0.02	0	0330M	DFT-S-OFDM	QPSK	135	69	10 mm	top	1:1	0.343	1.074	0.368	
3500.01	633334	Mid	NR Band n77	100	17.0	16.48	F	-0.03	0	0330M	CP-OFDM	QPSK	1	1	10 mm	top	1:1	0.263	1.127	0.296	
3500.01	633334	Mid	NR Band n77	100	17.0	16.67	F	-0.04	0	0330M	DFT-S-OFDM	QPSK	1	137	10 mm	right	1:1	0.087	1.079	0.094	
3500.01	633334	Mid	NR Band n77	100	17.0	16.69	F	-0.05	0	0330M	DFT-S-OFDM	QPSK	135	69	10 mm	right	1:1	0.087	1.074	0.093	
3500.01	633334	Mid	NR Band n77	100	17.0	16.67	F	-0.02	0	0330M	DFT-S-OFDM	QPSK	1	137	10 mm	left	1:1	0.014	1.079	0.015	
3500.01	633334	Mid	NR Band n77	100	17.0	16.69	F	-0.03	0	0330M	DFT-S-OFDM	QPSK	135	69	10 mm	left	1:1	0.013	1.074	0.014	
3500.01	633334	Mid	NR Band n77	100	16.0	15.26	B	-0.13	0	0330M	DFT-S-OFDM	QPSK	1	1	10 mm	back	1:1	0.048	1.186	0.057	
3500.01	633334	Mid	NR Band n77	100	16.0	15.29	B	-0.13	0	0330M	DFT-S-OFDM	QPSK	135	69	10 mm	back	1:1	0.049	1.178	0.058	
3500.01	633334	Mid	NR Band n77	100	16.0	15.26	B	-0.06	0	0330M	DFT-S-OFDM	QPSK	1	1	10 mm	front	1:1	0.009	1.186	0.011	
3500.01	633334	Mid	NR Band n77	100	16.0	15.29	B	-0.02	0	0330M	DFT-S-OFDM	QPSK	135	69	10 mm	front	1:1	0.008	1.178	0.009	
3500.01	633334	Mid	NR Band n77	100	16.0	15.26	B	-0.03	0	0330M	DFT-S-OFDM	QPSK	1	1	10 mm	bottom	1:1	0.071	1.186	0.084	
3500.01	633334	Mid	NR Band n77	100	16.0	15.29	B	-0.03	0	0330M	DFT-S-OFDM	QPSK	135	69	10 mm	bottom	1:1	0.075	1.178	0.088	
3500.01	633334	Mid	NR Band n77	100	16.0	15.23	B	-0.03	0	0330M	CP-OFDM	QPSK	1	1	10 mm	bottom	1:1	0.081	1.194	0.097	
3500.01	633334	Mid	NR Band n77	100	16.0	15.26	B	-0.16	0	0330M	DFT-S-OFDM	QPSK	1	1	10 mm	right	1:1	0.003	1.186	0.004	
3500.01	633334	Mid	NR Band n77	100	16.0	15.29	B	-0.12	0	0330M	DFT-S-OFDM	QPSK	135	69	10 mm	right	1:1	0.002	1.178	0.002	
3500.01	633334	Mid	NR Band n77	100	16.0	15.26	B	-0.08	0	0330M	DFT-S-OFDM	QPSK	1	1	10 mm	left	1:1	0.004	1.186	0.005	
3500.01	633334	Mid	NR Band n77	100	16.0	15.29	B	-0.03	0	0330M	DFT-S-OFDM	QPSK	135	69	10 mm	left	1:1	0.004	1.178	0.005	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT								Body													
Spatial Peak								1.6 W/kg (mW/g)													
Uncontrolled Exposure/General Population								averaged over 1 gram													

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Document S/N: 1M2104020031-01.A3L (Rev 1)	Test Dates: 04/06/21 - 06/09/21	DUT Type: Portable Handset		Page 124 of 245

Table 11-68
NR Band n77 Hotspot SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Antenna Config	Power Drift [dB]	MPR [dB]	Serial Number	Waveform	Modulation	RB Size	RB Offset	Spacing	MPR [dB]	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.																(W/kg)		(W/kg)		
3750.00	650000	Low	NR Band n77	100	19.0	18.02	E	0.11	0	0372M	DFT-S-OFDM	QPSK	1	137	10 mm	back	1:1	0.294	1.253	0.368	
3930.00	662000	High	NR Band n77	100	19.0	18.16	E	-0.11	0	0372M	DFT-S-OFDM	QPSK	1	137	10 mm	back	1:1	0.387	1.213	0.469	
3750.00	650000	Low	NR Band n77	100	19.0	18.04	E	-0.04	0	0372M	DFT-S-OFDM	QPSK	135	69	10 mm	back	1:1	0.286	1.247	0.357	
3930.00	662000	High	NR Band n77	100	19.0	18.22	E	-0.09	0	0372M	DFT-S-OFDM	QPSK	135	69	10 mm	back	1:1	0.352	1.197	0.421	
3930.00	662000	High	NR Band n77	100	19.0	18.15	E	0.02	0	0372M	DFT-S-OFDM	QPSK	270	0	10 mm	back	1:1	0.363	1.216	0.441	
3930.00	662000	High	NR Band n77	100	19.0	18.16	E	-0.02	0	0372M	DFT-S-OFDM	QPSK	1	137	10 mm	front	1:1	0.057	1.213	0.069	
3930.00	662000	High	NR Band n77	100	19.0	18.22	E	0.13	0	0372M	DFT-S-OFDM	QPSK	135	69	10 mm	front	1:1	0.058	1.197	0.069	
3750.00	650000	Low	NR Band n77	100	19.0	18.02	E	0.10	0	0372M	DFT-S-OFDM	QPSK	1	137	10 mm	top	1:1	0.529	1.253	0.663	
3930.00	662000	High	NR Band n77	100	19.0	18.16	E	-0.16	0	0372M	DFT-S-OFDM	QPSK	1	137	10 mm	top	1:1	0.571	1.213	0.693	
3750.00	650000	Low	NR Band n77	100	19.0	18.04	E	-0.17	0	0372M	DFT-S-OFDM	QPSK	135	69	10 mm	top	1:1	0.503	1.247	0.627	
3930.00	662000	High	NR Band n77	100	19.0	18.22	E	-0.10	0	0372M	DFT-S-OFDM	QPSK	135	69	10 mm	top	1:1	0.584	1.197	0.699	
3930.00	662000	High	NR Band n77	100	19.0	18.15	E	0.05	0	0372M	DFT-S-OFDM	QPSK	270	0	10 mm	top	1:1	0.646	1.216	0.786	A90
3930.00	662000	High	NR Band n77	100	19.0	18.28	E	-0.02	0	0372M	CP-OFDM	QPSK	1	1	10 mm	top	1:1	0.539	1.180	0.636	
3930.00	662000	High	NR Band n77	100	19.0	18.16	E	-0.05	0	0372M	DFT-S-OFDM	QPSK	1	137	10 mm	left	1:1	0.064	1.213	0.078	
3930.00	662000	High	NR Band n77	100	19.0	18.22	E	0.01	0	0372M	DFT-S-OFDM	QPSK	135	69	10 mm	left	1:1	0.060	1.197	0.072	
3930.00	662000	High	NR Band n77	100	19.0	18.29	G	-0.01	0	0372M	DFT-S-OFDM	QPSK	1	271	10 mm	back	1:1	0.089	1.178	0.105	
3930.00	662000	High	NR Band n77	100	19.0	18.34	G	0.13	0	0372M	DFT-S-OFDM	QPSK	135	69	10 mm	back	1:1	0.085	1.164	0.099	
3930.00	662000	High	NR Band n77	100	19.0	18.02	G	0.02	0	0372M	CP-OFDM	QPSK	1	1	10 mm	back	1:1	0.094	1.253	0.118	
3930.00	662000	High	NR Band n77	100	19.0	18.29	G	0.03	0	0372M	DFT-S-OFDM	QPSK	1	271	10 mm	front	1:1	0.009	1.178	0.011	
3930.00	662000	High	NR Band n77	100	19.0	18.34	G	-0.05	0	0372M	DFT-S-OFDM	QPSK	135	69	10 mm	front	1:1	0.010	1.164	0.012	
3930.00	662000	High	NR Band n77	100	19.0	18.29	G	-0.02	0	0372M	DFT-S-OFDM	QPSK	1	271	10 mm	right	1:1	0.024	1.178	0.028	
3930.00	662000	High	NR Band n77	100	19.0	18.34	G	-0.18	0	0372M	DFT-S-OFDM	QPSK	135	69	10 mm	right	1:1	0.028	1.164	0.033	
3930.00	662000	High	NR Band n77	100	17.0	15.89	F	-0.02	0	0372M	DFT-S-OFDM	QPSK	1	137	10 mm	back	1:1	0.204	1.291	0.263	
3930.00	662000	High	NR Band n77	100	17.0	15.95	F	0.01	0	0372M	DFT-S-OFDM	QPSK	135	69	10 mm	back	1:1	0.203	1.274	0.259	
3930.00	662000	High	NR Band n77	100	17.0	15.89	F	0.02	0	0372M	DFT-S-OFDM	QPSK	1	137	10 mm	front	1:1	0.037	1.291	0.048	
3930.00	662000	High	NR Band n77	100	17.0	15.95	F	-0.14	0	0372M	DFT-S-OFDM	QPSK	135	69	10 mm	front	1:1	0.043	1.274	0.055	
3750.00	650000	Low	NR Band n77	100	17.0	15.34	F	-0.08	0	0372M	DFT-S-OFDM	QPSK	1	137	10 mm	top	1:1	0.451	1.466	0.661	
3930.00	662000	High	NR Band n77	100	17.0	15.89	F	0.06	0	0372M	DFT-S-OFDM	QPSK	1	137	10 mm	top	1:1	0.357	1.291	0.461	
3750.00	650000	Low	NR Band n77	100	17.0	15.41	F	-0.01	0	0372M	DFT-S-OFDM	QPSK	135	138	10 mm	top	1:1	0.453	1.442	0.653	
3930.00	662000	High	NR Band n77	100	17.0	15.95	F	0.02	0	0372M	DFT-S-OFDM	QPSK	135	69	10 mm	top	1:1	0.408	1.274	0.520	
3930.00	662000	High	NR Band n77	100	17.0	15.84	F	-0.01	0	0372M	DFT-S-OFDM	QPSK	270	0	10 mm	top	1:1	0.392	1.306	0.512	
3930.00	662000	High	NR Band n77	100	17.0	15.47	F	0.03	0	0372M	CP-OFDM	QPSK	1	1	10 mm	top	1:1	0.377	1.422	0.536	
3930.00	662000	High	NR Band n77	100	17.0	15.89	F	-0.02	0	0372M	DFT-S-OFDM	QPSK	1	137	10 mm	right	1:1	0.097	1.291	0.125	
3930.00	662000	High	NR Band n77	100	17.0	15.95	F	-0.03	0	0372M	DFT-S-OFDM	QPSK	135	69	10 mm	right	1:1	0.098	1.274	0.125	
3930.00	662000	High	NR Band n77	100	17.0	15.89	F	-0.11	0	0372M	DFT-S-OFDM	QPSK	1	137	10 mm	left	1:1	0.016	1.291	0.021	
3930.00	662000	High	NR Band n77	100	17.0	15.95	F	-0.02	0	0372M	DFT-S-OFDM	QPSK	135	69	10 mm	left	1:1	0.014	1.274	0.018	
3930.00	662000	High	NR Band n77	100	16.0	14.99	B	-0.07	0	0330M	DFT-S-OFDM	QPSK	1	137	10 mm	back	1:1	0.052	1.262	0.066	
3930.00	662000	High	NR Band n77	100	16.0	14.95	B	0.02	0	0330M	DFT-S-OFDM	QPSK	135	69	10 mm	back	1:1	0.049	1.274	0.062	
3930.00	662000	High	NR Band n77	100	16.0	14.99	B	-0.06	0	0330M	DFT-S-OFDM	QPSK	1	137	10 mm	front	1:1	0.007	1.262	0.009	
3930.00	662000	High	NR Band n77	100	16.0	14.95	B	-0.06	0	0330M	DFT-S-OFDM	QPSK	135	69	10 mm	front	1:1	0.004	1.274	0.005	
3930.00	662000	High	NR Band n77	100	16.0	14.99	B	0.11	0	0330M	DFT-S-OFDM	QPSK	1	137	10 mm	bottom	1:1	0.063	1.262	0.080	
3930.00	662000	High	NR Band n77	100	16.0	14.95	B	-0.13	0	0330M	DFT-S-OFDM	QPSK	135	69	10 mm	bottom	1:1	0.060	1.274	0.076	
3930.00	662000	High	NR Band n77	100	16.0	14.27	B	-0.07	0	0330M	CP-OFDM	QPSK	1	1	10 mm	bottom	1:1	0.068	1.489	0.101	
3930.00	662000	High	NR Band n77	100	16.0	14.99	B	0.09	0	0330M	DFT-S-OFDM	QPSK	1	137	10 mm	right	1:1	0.006	1.262	0.008	
3930.00	662000	High	NR Band n77	100	16.0	14.95	B	-0.13	0	0330M	DFT-S-OFDM	QPSK	135	69	10 mm	right	1:1	0.004	1.274	0.005	
3930.00	662000	High	NR Band n77	100	16.0	14.99	B	0.19	0	0330M	DFT-S-OFDM	QPSK	1	137	10 mm	left	1:1	0.009	1.262	0.011	
3930.00	662000	High	NR Band n77	100	16.0	14.95	B	-0.08	0	0330M	DFT-S-OFDM	QPSK	135	69	10 mm	left	1:1	0.012	1.274	0.015	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak												Body 1.6 W/kg (mW/g) averaged over 1 gram									
Uncontrolled Exposure/General Population																					

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**Table 11-69
WLAN Hotspot SAR**

MEASUREMENT RESULTS																			
FREQUENCY		Mode	Service	Bandwidth [MHz]	Maxim um Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	Peak SAR of Area Scan	SAR (1g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot #
MHz	Ch.													W/kg	(W/kg)			(W/kg)	
2462	11	802.11b	DSSS	22	19.0	18.67	-0.04	10 mm	1	1578M	1	back	98.9	0.084	0.068	1.079	1.011	0.074	
2462	11	802.11b	DSSS	22	19.0	18.67	-0.04	10 mm	1	1578M	1	front	98.9	0.351	0.270	1.079	1.011	0.295	
2462	11	802.11b	DSSS	22	19.0	18.67	-0.06	10 mm	1	1578M	1	top	98.9	0.552	0.432	1.079	1.011	0.471	A92
2462	11	802.11b	DSSS	22	19.0	18.67	-0.10	10 mm	1	1578M	1	left	98.9	0.101	0.076	1.079	1.011	0.083	
2462	11	802.11b	DSSS	22	19.0	18.70	-0.04	10 mm	2	1578M	1	back	98.9	0.047	0.038	1.072	1.011	0.041	
2462	11	802.11b	DSSS	22	19.0	18.70	-0.06	10 mm	2	1578M	1	front	98.9	0.095	0.073	1.072	1.011	0.079	
2462	11	802.11b	DSSS	22	19.0	18.70	-0.14	10 mm	2	1578M	1	bottom	98.9	0.265	0.188	1.072	1.011	0.204	
2462	11	802.11b	DSSS	22	19.0	18.70	0.07	10 mm	2	1578M	1	left	98.9	0.055	-	1.072	1.011	-	
5785	157	802.11a	OFDM	20	18.0	17.94	0.00	10 mm	1	2038M	6	back	93.8	0.023	-	1.014	1.066	-	
5785	157	802.11a	OFDM	20	18.0	17.94	0.10	10 mm	1	2038M	6	front	93.8	0.102	0.065	1.014	1.066	0.070	A94
5785	157	802.11a	OFDM	20	18.0	17.94	0.09	10 mm	1	2038M	6	top	93.8	0.095	-	1.014	1.066	-	
5785	157	802.11a	OFDM	20	18.0	17.94	0.00	10 mm	1	2038M	6	left	93.8	0.012	-	1.014	1.066	-	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population								Body 1.6 W/kg (mW/g) averaged over 1 gram											

**Table 11-70
5 GHz WLAN MIMO Hotspot SAR**

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Service	Bandwidth [MHz]	Maximum Allowed Power (Ant 1) [dBm]	Conducted Power (Ant 1) [dBm]	Maximum Allowed Power (Ant 2) [dBm]	Conducted Power (Ant 2) [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	Peak SAR of Area Scan	SAR (1g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot #
																W/kg	(W/kg)		(W/kg)		
5825	165	802.11n	OFDM	20	18.0	17.61	18.0	17.58	-0.17	10 mm	MIMO	2038M	13	back	86.9	0.023	-	1.102	1.151	-	
5825	165	802.11n	OFDM	20	18.0	17.61	18.0	17.58	-0.08	10 mm	MIMO	2038M	13	front	86.9	0.089	0.050	1.102	1.151	0.063	
5825	165	802.11n	OFDM	20	18.0	17.61	18.0	17.58	0.13	10 mm	MIMO	2038M	13	top	86.9	0.085	-	1.102	1.151	-	
5825	165	802.11n	OFDM	20	18.0	17.61	18.0	17.58	-0.02	10 mm	MIMO	2038M	13	bottom	86.9	0.050	-	1.102	1.151	-	
5825	165	802.11n	OFDM	20	18.0	17.61	18.0	17.58	-0.14	10 mm	MIMO	2038M	13	left	86.9	0.013	-	1.102	1.151	-	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population										Body 1.6 W/kg (mW/g) averaged over 1 gram											

Note: To achieve the 21.0 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 18.0 dBm.

**Table 11-71
DSS Hotspot SAR**

MEASUREMENT RESULTS																	
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	SAR (1g)	Scaling Factor (Cond Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot #
MHz	Ch.												(W/kg)			(W/kg)	
2441	39	Bluetooth	FHSS	17.5	17.29	-0.04	10 mm	1	1580M	1	back	76.8	0.021	1.050	1.302	0.029	
2441	39	Bluetooth	FHSS	17.5	17.29	0.03	10 mm	1	1580M	1	front	76.8	0.078	1.050	1.302	0.107	
2441	39	Bluetooth	FHSS	17.5	17.29	0.04	10 mm	1	1580M	1	top	76.8	0.154	1.050	1.302	0.211	A96
2441	39	Bluetooth	FHSS	17.5	17.29	0.12	10 mm	1	1580M	1	left	76.8	0.037	1.050	1.302	0.051	
2441	39	Bluetooth	FHSS	17.5	16.93	0.04	10 mm	2	1580M	1	back	76.8	0.016	1.140	1.302	0.024	
2441	39	Bluetooth	FHSS	17.5	16.93	0.06	10 mm	2	1580M	1	front	76.8	0.048	1.140	1.302	0.071	
2441	39	Bluetooth	FHSS	17.5	16.93	0.07	10 mm	2	1580M	1	bottom	76.8	0.100	1.140	1.302	0.148	
2441	39	Bluetooth	FHSS	17.5	16.93	-0.05	10 mm	2	1580M	1	left	76.8	0.013	1.140	1.302	0.019	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							Body 1.6 W/kg (mW/g) averaged over 1 gram										

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11.4 Standalone Phablet SAR Data

Table 11-72
CDMA BC1 Phablet SAR Data

MEASUREMENT RESULTS															
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Device Serial Number	Duty Cycle	Side	SAR (10g)	Scaling Factor	Reported SAR (10g)	Plot #
MHz	Ch.											(W/kg)		(W/kg)	
1851.25	25	PCS CDMA	EVDO Rev. 0	24.0	23.22	0.08	10 mm	B	1930S	1:1	back	0.728	1.197	0.871	
1851.25	25	PCS CDMA	EVDO Rev. 0	24.0	23.22	0.11	0 mm	B	1930S	1:1	front	0.526	1.197	0.630	
1851.25	25	PCS CDMA	EVDO Rev. 0	24.0	23.22	0.00	12 mm	B	1930S	1:1	bottom	0.584	1.197	0.699	
1851.25	25	PCS CDMA	EVDO Rev. 0	24.0	23.22	0.14	0 mm	B	1930S	1:1	right	0.691	1.197	0.827	
1851.25	25	PCS CDMA	EVDO Rev. 0	24.0	23.22	0.02	0 mm	B	1930S	1:1	left	0.221	1.197	0.265	
1851.25	25	PCS CDMA	EVDO Rev. 0	19.0	18.21	0.00	0 mm	B	1930S	1:1	back	0.852	1.199	1.022	
1851.25	25	PCS CDMA	EVDO Rev. 0	19.0	18.21	-0.13	0 mm	B	1930S	1:1	bottom	1.330	1.199	1.595	
1880.00	600	PCS CDMA	EVDO Rev. 0	19.0	17.74	-0.12	0 mm	B	1930S	1:1	bottom	1.500	1.337	2.006	A97
1908.75	1175	PCS CDMA	EVDO Rev. 0	19.0	17.72	-0.07	0 mm	B	1930S	1:1	bottom	1.250	1.343	1.679	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT							Phablet 4.0 W/kg (mW/g) averaged over 10 grams								
Spatial Peak Uncontrolled Exposure/General Population															

Table 11-73
GPRS 1900 Phablet SAR Data

MEASUREMENT RESULTS																
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Device Serial Number	# of Time Slots	Duty Cycle	Side	SAR (10g)	Scaling Factor	Reported SAR (10g)	Plot #
MHz	Ch.												(W/kg)		(W/kg)	
1880.00	661	GSM 1900	GPRS	27.5	25.68	-0.07	10 mm	B	1925S	3	1:2.76	back	0.420	1.521	0.639	
1880.00	661	GSM 1900	GPRS	27.5	25.68	0.03	0 mm	B	1925S	3	1:2.76	front	0.875	1.521	1.331	
1880.00	661	GSM 1900	GPRS	27.5	25.68	0.17	12 mm	B	1925S	3	1:2.76	bottom	0.450	1.521	0.684	
1880.00	661	GSM 1900	GPRS	27.5	25.68	0.11	0 mm	B	1925S	3	1:2.76	right	0.440	1.521	0.669	
1880.00	661	GSM 1900	GPRS	27.5	25.68	0.00	0 mm	B	1925S	3	1:2.76	left	0.214	1.521	0.325	
1880.00	661	GSM 1900	GPRS	21.3	21.09	0.03	0 mm	B	1925S	4	1:2.076	back	1.260	1.050	1.323	
1850.20	512	GSM 1900	GPRS	21.3	21.06	-0.03	0 mm	B	1925S	4	1:2.076	bottom	1.300	1.057	1.374	
1880.00	661	GSM 1900	GPRS	21.3	21.09	-0.02	0 mm	B	1925S	4	1:2.076	bottom	1.440	1.050	1.512	A98
1909.80	810	GSM 1900	GPRS	21.3	21.08	-0.03	0 mm	B	1925S	4	1:2.076	bottom	1.170	1.052	1.231	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							Phablet 4.0 W/kg (mW/g) averaged over 10 grams									

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Table 11-74
UMTS Band 4 Phablet SAR Data

MEASUREMENT RESULTS															
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Device Serial Number	Duty Cycle	Side	SAR (10g)	Scaling Factor	Reported SAR (10g)	Plot #
MHz	Ch.											(W/kg)		(W/kg)	
1732.40	1412	UMTS 1750	RMC	25.0	24.35	-0.03	10 mm	B	1925S	1:1	back	0.640	1.161	0.743	
1732.40	1412	UMTS 1750	RMC	25.0	24.35	0.03	0 mm	B	1925S	1:1	front	0.556	1.161	0.646	
1732.40	1412	UMTS 1750	RMC	25.0	24.35	0.06	12 mm	B	1925S	1:1	bottom	0.640	1.161	0.743	
1732.40	1412	UMTS 1750	RMC	25.0	24.35	0.10	0 mm	B	1925S	1:1	right	0.728	1.161	0.845	
1732.40	1412	UMTS 1750	RMC	25.0	24.35	0.01	0 mm	B	1925S	1:1	left	0.228	1.161	0.265	
1752.60	1513	UMTS 1750	RMC	19.0	17.69	-0.09	0 mm	B	1925S	1:1	back	1.080	1.352	1.460	
1712.40	1312	UMTS 1750	RMC	19.0	17.21	-0.02	0 mm	B	1925S	1:1	bottom	1.200	1.510	1.812	A99
1732.40	1412	UMTS 1750	RMC	19.0	17.50	-0.02	0 mm	B	1925S	1:1	bottom	1.180	1.413	1.667	
1752.60	1513	UMTS 1750	RMC	19.0	17.69	-0.02	0 mm	B	1925S	1:1	bottom	1.150	1.352	1.555	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							Phablet 4.0 W/kg (mW/g) averaged over 10 grams								

Table 11-75
UMTS Band 2 Phablet SAR Data

MEASUREMENT RESULTS															
FREQUENCY		Mode	Service	Maxium Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Device Serial Number	Duty Cycle	Side	SAR (10g)	Scaling Factor	Reported SAR (10g)	Plot #
MHz	Ch.											(W/kg)		(W/kg)	
1880.00	9400	UMTS 1900	RMC	25.0	24.04	-0.05	10 mm	B	1930S	1:1	back	0.676	1.247	0.843	
1880.00	9400	UMTS 1900	RMC	25.0	24.04	0.10	0 mm	B	1930S	1:1	front	0.584	1.247	0.728	
1880.00	9400	UMTS 1900	RMC	25.0	24.04	-0.01	12 mm	B	1930S	1:1	bottom	0.755	1.247	0.941	
1880.00	9400	UMTS 1900	RMC	25.0	24.04	0.19	0 mm	B	1930S	1:1	right	0.669	1.247	0.834	
1880.00	9400	UMTS 1900	RMC	25.0	24.04	0.17	0 mm	B	1930S	1:1	left	0.230	1.247	0.287	
1852.40	9262	UMTS 1900	RMC	19.0	18.50	-0.07	0 mm	B	1930S	1:1	back	1.120	1.122	1.257	
1852.40	9262	UMTS 1900	RMC	19.0	18.50	-0.03	0 mm	B	1930S	1:1	bottom	1.150	1.122	1.290	A100
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							Phablet 4.0 W/kg (mW/g) averaged over 10 grams								

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Table 11-76
LTE Band 66 (AWS) Phablet SAR

MEASUREMENT RESULTS																				
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (10g)	Scaling Factor	Reported SAR (10g)	Plot #	
MHz	Ch.															(W/kg)		(W/kg)		
1745.00	132322	Mid	LTE Band 66 (AWS)	20	25.5	24.24	-0.06	0	B	2021M	QPSK	1	50	10 mm	back	1:1	0.666	1.337	0.890	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	24.5	23.37	-0.03	1	B	2021M	QPSK	50	25	10 mm	back	1:1	0.544	1.297	0.706	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	25.5	24.24	0.00	0	B	2021M	QPSK	1	50	0 mm	front	1:1	0.569	1.337	0.761	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	24.5	23.37	0.00	1	B	2021M	QPSK	50	25	0 mm	front	1:1	0.467	1.297	0.606	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	25.5	24.24	-0.02	0	B	2021M	QPSK	1	50	12 mm	bottom	1:1	0.587	1.337	0.785	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	24.5	23.37	0.02	1	B	2021M	QPSK	50	25	12 mm	bottom	1:1	0.484	1.297	0.628	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	25.5	24.24	0.04	0	B	2021M	QPSK	1	50	0 mm	right	1:1	0.745	1.337	0.996	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	24.5	23.37	-0.01	1	B	2021M	QPSK	50	25	0 mm	right	1:1	0.623	1.297	0.808	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	25.5	24.24	0.00	0	B	2021M	QPSK	1	50	0 mm	left	1:1	0.226	1.337	0.302	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	24.5	23.37	-0.03	1	B	2021M	QPSK	50	25	0 mm	left	1:1	0.190	1.297	0.246	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	19.0	18.10	0.00	0	B	2021M	QPSK	1	50	0 mm	back	1:1	0.845	1.230	1.039	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	19.0	18.19	0.01	0	B	2021M	QPSK	50	25	0 mm	back	1:1	0.865	1.205	1.042	
1720.00	132072	Low	LTE Band 66 (AWS)	20	19.0	17.70	0.00	0	B	2021M	QPSK	1	50	0 mm	bottom	1:1	1.410	1.349	1.902	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	19.0	18.10	0.00	0	B	2021M	QPSK	1	50	0 mm	bottom	1:1	1.510	1.230	1.857	
1770.00	132572	High	LTE Band 66 (AWS)	20	19.0	18.02	0.02	0	B	2021M	QPSK	1	0	0 mm	bottom	1:1	1.440	1.253	1.804	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	19.0	18.19	-0.01	0	B	2021M	QPSK	50	25	0 mm	bottom	1:1	1.540	1.205	1.856	
1720.00	132072	Low	LTE Band 66 (AWS)	20	20.5	20.14	-0.03	0	E	0241M	QPSK	1	50	0 mm	top	1:1	2.160	1.086	2.346	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	20.5	19.43	-0.14	0	E	0241M	QPSK	1	0	0 mm	top	1:1	1.780	1.279	2.277	
1770.00	132572	High	LTE Band 66 (AWS)	20	20.5	19.64	0.18	0	E	0241M	QPSK	1	50	0 mm	top	1:1	1.810	1.219	2.206	
1720.00	132072	Low	LTE Band 66 (AWS)	20	20.5	20.33	0.03	0	E	0241M	QPSK	50	25	0 mm	top	1:1	2.280	1.040	2.371	A101
1745.00	132322	Mid	LTE Band 66 (AWS)	20	20.5	19.67	0.11	0	E	0241M	QPSK	50	0	0 mm	top	1:1	1.910	1.211	2.313	
1770.00	132572	High	LTE Band 66 (AWS)	20	20.5	19.77	0.13	0	E	0241M	QPSK	50	25	0 mm	top	1:1	1.920	1.183	2.271	
1720.00	132072	Low	LTE Band 66 (AWS)	20	20.5	20.12	0.16	0	E	0241M	QPSK	100	0	0 mm	top	1:1	2.140	1.091	2.335	
1720.00	132072	Low	LTE Band 66 (AWS)	20	20.5	20.33	0.02	0	E	0241M	QPSK	50	25	0 mm	top	1:1	2.240	1.040	2.330	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT								Phablet												
Spatial Peak								4.0 W/kg (mW/g)												
Uncontrolled Exposure/General Population								averaged over 10 grams												

Note: Blue entry represents variability measurement

Table 11-77
LTE Band 25 (PCS) Phablet SAR

MEASUREMENT RESULTS																				
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (10g)	Scaling Factor	Reported SAR (10g)	Plot #	
MHz	Ch.															(W/kg)		(W/kg)		
1905.00	26590	High	LTE Band 25 (PCS)	20	25.5	24.30	-0.06	0	B	1960S	QPSK	1	99	10 mm	back	1:1	0.478	1.318	0.630	
1905.00	26590	High	LTE Band 25 (PCS)	20	24.5	23.33	-0.02	1	B	1960S	QPSK	50	50	10 mm	back	1:1	0.389	1.309	0.509	
1905.00	26590	High	LTE Band 25 (PCS)	20	25.5	24.30	-0.05	0	B	1960S	QPSK	1	99	0 mm	front	1:1	0.511	1.318	0.673	
1905.00	26590	High	LTE Band 25 (PCS)	20	24.5	23.33	0.03	1	B	1960S	QPSK	50	50	0 mm	front	1:1	0.397	1.309	0.520	
1905.00	26590	High	LTE Band 25 (PCS)	20	25.5	24.30	-0.06	0	B	1960S	QPSK	1	99	12 mm	bottom	1:1	0.548	1.318	0.722	
1905.00	26590	High	LTE Band 25 (PCS)	20	24.5	23.33	-0.04	1	B	1960S	QPSK	50	50	12 mm	bottom	1:1	0.429	1.309	0.562	
1905.00	26590	High	LTE Band 25 (PCS)	20	25.5	24.30	0.12	0	B	1960S	QPSK	1	99	0 mm	right	1:1	0.650	1.318	0.857	
1905.00	26590	High	LTE Band 25 (PCS)	20	24.5	23.33	0.03	1	B	1960S	QPSK	50	50	0 mm	right	1:1	0.593	1.309	0.776	
1905.00	26590	High	LTE Band 25 (PCS)	20	25.5	24.30	0.09	0	B	1960S	QPSK	1	99	0 mm	left	1:1	0.161	1.318	0.212	
1905.00	26590	High	LTE Band 25 (PCS)	20	24.5	23.33	0.01	1	B	1960S	QPSK	50	50	0 mm	left	1:1	0.127	1.309	0.166	
1905.00	26590	High	LTE Band 25 (PCS)	20	19.0	17.92	-0.09	0	B	1960S	QPSK	1	99	0 mm	back	1:1	0.785	1.282	1.006	
1905.00	26590	High	LTE Band 25 (PCS)	20	19.0	18.06	-0.06	0	B	1960S	QPSK	50	50	0 mm	back	1:1	0.809	1.242	1.005	
1905.00	26590	High	LTE Band 25 (PCS)	20	19.0	17.92	-0.01	0	B	1960S	QPSK	1	99	0 mm	bottom	1:1	1.100	1.282	1.410	A102
1905.00	26590	High	LTE Band 25 (PCS)	20	19.0	18.06	-0.03	0	B	1960S	QPSK	50	50	0 mm	bottom	1:1	0.982	1.242	1.220	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak								Phablet 4.0 W/kg (mW/g) averaged over 10 grams												
Uncontrolled Exposure/General Population																				

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Table 11-78
LTE Band 30 Phablet SAR

MEASUREMENT RESULTS																				
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (10g)	Scaling Factor	Reported SAR (10g)	Plot #
MHz	Ch.																(W/kg)		(W/kg)	
2310.00	27710	Mid	LTE Band 30	10	22.5	21.26	0.01	0	B	1950S	QPSK	1	49	10 mm	back	1:1	0.379	1.330	0.504	
2310.00	27710	Mid	LTE Band 30	10	22.5	21.36	0.01	0	B	1950S	QPSK	25	12	10 mm	back	1:1	0.390	1.300	0.507	
2310.00	27710	Mid	LTE Band 30	10	22.5	21.26	0.01	0	B	1950S	QPSK	1	49	0 mm	front	1:1	0.677	1.330	0.900	
2310.00	27710	Mid	LTE Band 30	10	22.5	21.36	0.00	0	B	1950S	QPSK	25	12	0 mm	front	1:1	0.545	1.300	0.709	
2310.00	27710	Mid	LTE Band 30	10	22.5	21.26	-0.03	0	B	1950S	QPSK	1	49	12 mm	bottom	1:1	1.250	1.330	1.663	
2310.00	27710	Mid	LTE Band 30	10	22.5	21.36	-0.01	0	B	1950S	QPSK	25	12	12 mm	bottom	1:1	1.280	1.300	1.664	
2310.00	27710	Mid	LTE Band 30	10	22.5	21.26	0.01	0	B	1950S	QPSK	1	49	0 mm	right	1:1	0.387	1.330	0.515	
2310.00	27710	Mid	LTE Band 30	10	22.5	21.36	0.03	0	B	1950S	QPSK	25	12	0 mm	right	1:1	0.396	1.300	0.515	
2310.00	27710	Mid	LTE Band 30	10	22.5	21.26	0.02	0	B	1950S	QPSK	1	49	0 mm	left	1:1	0.197	1.330	0.262	
2310.00	27710	Mid	LTE Band 30	10	22.5	21.36	0.05	0	B	1950S	QPSK	25	12	0 mm	left	1:1	0.196	1.300	0.255	
2310.00	27710	Mid	LTE Band 30	10	17.0	16.63	-0.02	0	B	1950S	QPSK	1	49	0 mm	back	1:1	0.930	1.089	1.013	
2310.00	27710	Mid	LTE Band 30	10	17.0	16.57	-0.02	0	B	1950S	QPSK	25	12	0 mm	back	1:1	0.940	1.104	1.038	
2310.00	27710	Mid	LTE Band 30	10	17.0	16.63	-0.01	0	B	1950S	QPSK	1	49	0 mm	bottom	1:1	1.820	1.089	1.982	
2310.00	27710	Mid	LTE Band 30	10	17.0	16.57	0.01	0	B	1950S	QPSK	25	12	0 mm	bottom	1:1	1.850	1.104	2.042	A103
2310.00	27710	Mid	LTE Band 30	10	17.0	16.43	0.01	0	B	1950S	QPSK	50	0	0 mm	bottom	1:1	1.820	1.140	2.075	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT								Phablet												
Spatial Peak								4.0 W/kg (mW/g)												
Uncontrolled Exposure/General Population								averaged over 10 grams												

Table 11-79
LTE Band 7 Phablet SAR

MEASUREMENT RESULTS																				
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (10g)	Scaling Factor	Reported SAR (10g)	Plot #
MHz	Ch.																(W/kg)		(W/kg)	
2510.00	20850	Low	LTE Band 7	20	22.5	21.67	0.08	0	B	1631M	QPSK	1	99	10 mm	back	1:1	0.327	1.211	0.396	
2510.00	20850	Low	LTE Band 7	20	22.5	21.75	0.02	0	B	1631M	QPSK	50	25	10 mm	back	1:1	0.318	1.189	0.378	
2510.00	20850	Low	LTE Band 7	20	22.5	21.67	0.00	0	B	1631M	QPSK	1	99	0 mm	front	1:1	0.560	1.211	0.678	
2510.00	20850	Low	LTE Band 7	20	22.5	21.75	-0.13	0	B	1631M	QPSK	50	25	0 mm	front	1:1	0.505	1.189	0.600	
2510.00	20850	Low	LTE Band 7	20	22.5	21.67	0.09	0	B	1631M	QPSK	1	99	12 mm	bottom	1:1	0.524	1.211	0.635	
2510.00	20850	Low	LTE Band 7	20	22.5	21.75	-0.01	0	B	1631M	QPSK	50	25	12 mm	bottom	1:1	0.491	1.189	0.584	
2510.00	20850	Low	LTE Band 7	20	22.5	21.67	0.05	0	B	1631M	QPSK	1	99	0 mm	right	1:1	0.326	1.211	0.395	
2510.00	20850	Low	LTE Band 7	20	22.5	21.75	0.03	0	B	1631M	QPSK	50	25	0 mm	right	1:1	0.318	1.189	0.378	
2510.00	20850	Low	LTE Band 7	20	22.5	21.67	0.04	0	B	1631M	QPSK	1	99	0 mm	left	1:1	0.268	1.211	0.325	
2510.00	20850	Low	LTE Band 7	20	22.5	21.75	0.04	0	B	1631M	QPSK	50	25	0 mm	left	1:1	0.246	1.189	0.292	
2510.00	20850	Low	LTE Band 7	20	18.0	17.21	0.02	0	B	1631M	QPSK	1	0	0 mm	back	1:1	1.010	1.199	1.211	
2510.00	20850	Low	LTE Band 7	20	18.0	17.29	0.03	0	B	1631M	QPSK	50	25	0 mm	back	1:1	1.010	1.178	1.190	
2510.00	20850	Low	LTE Band 7	20	18.0	17.21	0.02	0	B	1631M	QPSK	1	0	0 mm	bottom	1:1	1.770	1.199	2.122	
2535.00	21100	Mid	LTE Band 7	20	18.0	17.10	0.10	0	B	1631M	QPSK	1	99	0 mm	bottom	1:1	1.580	1.230	1.943	
2560.00	21350	High	LTE Band 7	20	18.0	17.01	-0.10	0	B	1631M	QPSK	1	0	0 mm	bottom	1:1	1.610	1.256	2.022	
2510.00	20850	Low	LTE Band 7	20	18.0	17.29	0.15	0	B	1631M	QPSK	50	25	0 mm	bottom	1:1	1.790	1.178	2.109	A104
2535.00	21100	Mid	LTE Band 7	20	18.0	17.18	-0.16	0	B	1631M	QPSK	50	25	0 mm	bottom	1:1	1.670	1.208	2.017	
2560.00	21350	High	LTE Band 7	20	18.0	17.11	0.00	0	B	1631M	QPSK	50	50	0 mm	bottom	1:1	1.570	1.227	1.926	
2510.00	20850	Low	LTE Band 7	20	18.0	17.20	0.01	0	B	1631M	QPSK	100	0	0 mm	bottom	1:1	1.740	1.202	2.091	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT								Phablet												
Spatial Peak								4.0 W/kg (mW/g)												
Uncontrolled Exposure/General Population								averaged over 10 grams												

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Table 11-80
LTE Band 41 Phablet SAR

MEASUREMENT RESULTS																				
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (10g)	Scaling Factor	Reported SAR (10g)	Plot #
MHz	Ch.																(W/kg)		(W/kg)	
2680.00	41490	High	LTE Band 41	20	23.0	22.31	0.17	0	B	1577M	QPSK	1	50	10 mm	back	1:1.58	0.159	1.172	0.186	
2680.00	41490	High	LTE Band 41	20	23.0	22.45	0.12	0	B	1577M	QPSK	50	50	10 mm	back	1:1.58	0.162	1.135	0.184	
2680.00	41490	High	LTE Band 41	20	23.0	22.31	0.03	0	B	1577M	QPSK	1	50	0 mm	front	1:1.58	0.342	1.172	0.401	
2680.00	41490	High	LTE Band 41	20	23.0	22.45	0.02	0	B	1577M	QPSK	50	50	0 mm	front	1:1.58	0.343	1.135	0.389	
2680.00	41490	High	LTE Band 41	20	23.0	22.31	0.09	0	B	1577M	QPSK	1	50	12 mm	bottom	1:1.58	0.288	1.172	0.338	
2680.00	41490	High	LTE Band 41	20	23.0	22.45	0.07	0	B	1577M	QPSK	50	50	12 mm	bottom	1:1.58	0.289	1.135	0.328	
2680.00	41490	High	LTE Band 41	20	23.0	22.31	0.17	0	B	1577M	QPSK	1	50	0 mm	right	1:1.58	0.112	1.172	0.131	
2680.00	41490	High	LTE Band 41	20	23.0	22.45	0.12	0	B	1577M	QPSK	50	50	0 mm	right	1:1.58	0.109	1.135	0.124	
2680.00	41490	High	LTE Band 41	20	23.0	22.31	0.05	0	B	1577M	QPSK	1	50	0 mm	left	1:1.58	0.138	1.172	0.162	
2680.00	41490	High	LTE Band 41	20	23.0	22.45	-0.01	0	B	1577M	QPSK	50	50	0 mm	left	1:1.58	0.140	1.135	0.159	
2680.00	41490	High	LTE Band 41	20	19.0	18.42	0.03	0	B	1577M	QPSK	1	50	0 mm	back	1:1.58	0.581	1.143	0.664	
2680.00	41490	High	LTE Band 41	20	19.0	18.51	0.05	0	B	1577M	QPSK	50	50	0 mm	back	1:1.58	0.584	1.119	0.653	
2680.00	41490	High	LTE Band 41	20	19.0	18.42	0.05	0	B	1577M	QPSK	1	50	0 mm	bottom	1:1.58	1.210	1.143	1.383	
2680.00	41490	High	LTE Band 41	20	19.0	18.51	0.04	0	B	1577M	QPSK	50	50	0 mm	bottom	1:1.58	1.220	1.119	1.365	A105
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak								Phablet 4.0 W/kg (mW/g)												
Uncontrolled Exposure/General Population								averaged over 10 grams												

Table 11-81
NR Band n66 (AWS) Phablet SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Antenna Config	Power Drift [dB]	MPR [dB]	Serial Number	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (10g)	Scaling Factor	Reported SAR (10g)	Plot #	
MHz	Ch.																(W/kg)		(W/kg)		
1745.00	349000	Md	NR Band n66 (AWS)	40	25.0	23.54	B	-0.15	0	1619M	DFT-S-OFDM	QPSK	1	108	10 mm	back	1:1	0.616	1.400	0.862	
1745.00	349000	Md	NR Band n66 (AWS)	40	25.0	23.08	B	-0.01	0	1619M	DFT-S-OFDM	QPSK	108	54	10 mm	back	1:1	0.589	1.556	0.916	
1745.00	349000	Md	NR Band n66 (AWS)	40	25.0	23.54	B	0.03	0	1619M	DFT-S-OFDM	QPSK	1	108	0 mm	front	1:1	0.426	1.400	0.596	
1745.00	349000	Md	NR Band n66 (AWS)	40	25.0	23.08	B	-0.02	0	1619M	DFT-S-OFDM	QPSK	108	54	0 mm	front	1:1	0.451	1.556	0.702	
1745.00	349000	Md	NR Band n66 (AWS)	40	25.0	23.54	B	-0.06	0	1619M	DFT-S-OFDM	QPSK	1	108	12 mm	bottom	1:1	0.638	1.400	0.893	
1745.00	349000	Md	NR Band n66 (AWS)	40	25.0	23.08	B	-0.03	0	1619M	DFT-S-OFDM	QPSK	108	54	12 mm	bottom	1:1	0.642	1.556	0.999	
1745.00	349000	Md	NR Band n66 (AWS)	40	25.0	23.54	B	0.01	0	1619M	DFT-S-OFDM	QPSK	1	108	0 mm	right	1:1	0.627	1.400	0.878	
1745.00	349000	Md	NR Band n66 (AWS)	40	25.0	23.08	B	0.01	0	1619M	DFT-S-OFDM	QPSK	108	54	0 mm	right	1:1	0.669	1.556	1.041	
1745.00	349000	Md	NR Band n66 (AWS)	40	25.0	23.54	B	0.00	0	1619M	DFT-S-OFDM	QPSK	1	108	0 mm	left	1:1	0.230	1.400	0.322	
1745.00	349000	Md	NR Band n66 (AWS)	40	25.0	23.08	B	-0.05	0	1619M	DFT-S-OFDM	QPSK	108	54	0 mm	left	1:1	0.221	1.556	0.344	
1745.00	349000	Md	NR Band n66 (AWS)	40	19.0	18.06	B	-0.04	0	1619M	DFT-S-OFDM	QPSK	1	1	0 mm	back	1:1	1.070	1.242	1.329	
1745.00	349000	Md	NR Band n66 (AWS)	40	19.0	18.14	B	0.00	0	1619M	DFT-S-OFDM	QPSK	108	108	0 mm	back	1:1	1.110	1.219	1.353	
1745.00	349000	Md	NR Band n66 (AWS)	40	19.0	18.06	B	-0.01	0	1619M	DFT-S-OFDM	QPSK	1	1	0 mm	bottom	1:1	1.820	1.242	2.260	
1745.00	349000	Md	NR Band n66 (AWS)	40	19.0	18.14	B	0.06	0	1619M	DFT-S-OFDM	QPSK	108	108	0 mm	bottom	1:1	1.670	1.219	2.036	
1745.00	349000	Md	NR Band n66 (AWS)	40	19.0	18.04	B	0.00	0	1619M	DFT-S-OFDM	QPSK	216	0	0 mm	bottom	1:1	1.810	1.247	2.257	
1745.00	349000	Md	NR Band n66 (AWS)	40	19.0	18.05	B	0.00	0	1619M	CP-OFDM	QPSK	1	1	0 mm	bottom	1:1	1.800	1.245	2.241	
1745.00	349000	Md	NR Band n66 (AWS)	40	20.5	19.43	E	-0.13	0	2039M	DFT-S-OFDM	QPSK	1	108	0 mm	top	1:1	1.840	1.279	2.353	
1745.00	349000	Md	NR Band n66 (AWS)	40	20.5	19.42	E	-0.02	0	2039M	DFT-S-OFDM	QPSK	108	0	0 mm	top	1:1	1.960	1.282	2.513	A106
1745.00	349000	Md	NR Band n66 (AWS)	40	20.5	19.39	E	-0.01	0	2039M	DFT-S-OFDM	QPSK	216	0	0 mm	top	1:1	1.890	1.291	2.440	
1745.00	349000	Md	NR Band n66 (AWS)	40	20.5	19.58	E	-0.02	0	2039M	CP-OFDM	QPSK	1	1	0 mm	top	1:1	1.730	1.236	2.138	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak								Phablet 4.0 W/kg (mW/g) averaged over 10 grams													
Uncontrolled Exposure/General Population																					

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Table 11-82
NR Band n25 (PCS) Phablet SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Antenna Config	Power Drift [dB]	MPR [dB]	Serial Number	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (10g) (W/kg)	Scaling Factor	Reported SAR (10g) (W/kg)	Plot #	
MHz	Ch.																				
1882.50	376500	Md	NR Band n25 (PCS)	40	25.0	24.00	B	-0.03	0	2039M	DFT-S-OFDM	QPSK	1	1	10 mm	back	1:1	0.519	1.259	0.653	
1882.50	376500	Md	NR Band n25 (PCS)	40	25.0	23.78	B	0.04	0	2039M	DFT-S-OFDM	QPSK	108	54	10 mm	back	1:1	0.511	1.324	0.677	
1882.50	376500	Md	NR Band n25 (PCS)	40	25.0	24.00	B	0.12	0	2039M	DFT-S-OFDM	QPSK	1	1	0 mm	front	1:1	0.573	1.259	0.721	
1882.50	376500	Md	NR Band n25 (PCS)	40	25.0	23.78	B	0.05	0	2039M	DFT-S-OFDM	QPSK	108	54	0 mm	front	1:1	0.634	1.324	0.839	
1882.50	376500	Md	NR Band n25 (PCS)	40	25.0	24.00	B	-0.08	0	2039M	DFT-S-OFDM	QPSK	1	1	12 mm	bottom	1:1	0.626	1.259	0.788	
1882.50	376500	Md	NR Band n25 (PCS)	40	25.0	23.78	B	-0.04	0	2039M	DFT-S-OFDM	QPSK	108	54	12 mm	bottom	1:1	0.692	1.324	0.916	
1882.50	376500	Md	NR Band n25 (PCS)	40	25.0	24.00	B	-0.08	0	2039M	DFT-S-OFDM	QPSK	1	1	0 mm	right	1:1	0.640	1.259	0.806	
1882.50	376500	Md	NR Band n25 (PCS)	40	25.0	23.78	B	-0.08	0	2039M	DFT-S-OFDM	QPSK	108	54	0 mm	right	1:1	0.727	1.324	0.963	
1882.50	376500	Md	NR Band n25 (PCS)	40	25.0	24.00	B	0.10	0	2039M	DFT-S-OFDM	QPSK	1	1	0 mm	left	1:1	0.206	1.259	0.259	
1882.50	376500	Md	NR Band n25 (PCS)	40	25.0	23.78	B	0.15	0	2039M	DFT-S-OFDM	QPSK	108	54	0 mm	left	1:1	0.217	1.324	0.287	
1882.50	376500	Md	NR Band n25 (PCS)	40	19.0	18.00	B	-0.18	0	2039M	DFT-S-OFDM	QPSK	1	1	0 mm	back	1:1	0.976	1.259	1.229	
1882.50	376500	Md	NR Band n25 (PCS)	40	19.0	17.89	B	-0.19	0	2039M	DFT-S-OFDM	QPSK	108	108	0 mm	back	1:1	1.050	1.291	1.356	
1882.50	376500	Md	NR Band n25 (PCS)	40	19.0	18.00	B	0.11	0	2039M	DFT-S-OFDM	QPSK	1	1	0 mm	bottom	1:1	1.280	1.259	1.612	
1882.50	376500	Md	NR Band n25 (PCS)	40	19.0	17.89	B	-0.06	0	2039M	DFT-S-OFDM	QPSK	108	108	0 mm	bottom	1:1	1.340	1.291	1.730	
1882.50	376500	Md	NR Band n25 (PCS)	40	19.0	17.93	B	-0.05	0	2039M	CP-OFDM	QPSK	1	1	0 mm	bottom	1:1	1.300	1.279	1.663	
1882.50	376500	Md	NR Band n25 (PCS)	40	20.5	19.97	E	0.10	0	2039M	DFT-S-OFDM	QPSK	1	214	0 mm	top	1:1	1.570	1.130	1.774	
1882.50	376500	Md	NR Band n25 (PCS)	40	20.5	19.88	E	0.13	0	2039M	DFT-S-OFDM	QPSK	108	108	0 mm	top	1:1	1.870	1.153	2.156	
1882.50	376500	Md	NR Band n25 (PCS)	40	20.5	19.74	E	0.13	0	2039M	DFT-S-OFDM	QPSK	216	0	0 mm	top	1:1	1.340	1.191	1.596	
1882.50	376500	Md	NR Band n25 (PCS)	40	20.5	19.76	E	0.10	0	2039M	CP-OFDM	QPSK	1	1	0 mm	top	1:1	1.660	1.186	1.969	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT								Phablet													
Spatial Peak								4.0 W/kg (mW/g)													
Uncontrolled Exposure/General Population								averaged over 10 grams													

Table 11-83
NR Band n30 Phablet SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Antenna Config	Power Drift [dB]	MPR [dB]	Serial Number	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (10g) (W/kg)	Scaling Factor	Reported SAR (10g) (W/kg)	Plot #	
MHz	Ch.																				
2310.00	462000	Md	NR Band n30	10	22.5	21.05	B	0.02	0	1619M	DFT-S-OFDM	QPSK	1	26	10 mm	back	1:1	0.345	1.396	0.482	
2310.00	462000	Md	NR Band n30	10	22.5	20.94	B	0.03	0	1619M	DFT-S-OFDM	QPSK	25	27	10 mm	back	1:1	0.340	1.432	0.487	
2310.00	462000	Md	NR Band n30	10	22.5	21.05	B	0.06	0	1619M	DFT-S-OFDM	QPSK	1	26	0 mm	front	1:1	0.409	1.396	0.571	
2310.00	462000	Md	NR Band n30	10	22.5	20.94	B	0.02	0	1619M	DFT-S-OFDM	QPSK	25	27	0 mm	front	1:1	0.397	1.432	0.569	
2310.00	462000	Md	NR Band n30	10	22.5	21.05	B	0.00	0	1619M	DFT-S-OFDM	QPSK	1	26	12 mm	bottom	1:1	0.423	1.396	0.591	
2310.00	462000	Md	NR Band n30	10	22.5	20.94	B	0.02	0	1619M	DFT-S-OFDM	QPSK	25	27	12 mm	bottom	1:1	0.415	1.432	0.594	
2310.00	462000	Md	NR Band n30	10	22.5	21.05	B	0.00	0	1619M	DFT-S-OFDM	QPSK	1	26	0 mm	right	1:1	0.303	1.396	0.423	
2310.00	462000	Md	NR Band n30	10	22.5	20.94	B	0.01	0	1619M	DFT-S-OFDM	QPSK	25	27	0 mm	right	1:1	0.296	1.432	0.424	
2310.00	462000	Md	NR Band n30	10	22.5	21.05	B	0.06	0	1619M	DFT-S-OFDM	QPSK	1	26	0 mm	left	1:1	0.234	1.396	0.327	
2310.00	462000	Md	NR Band n30	10	22.5	20.94	B	0.16	0	1619M	DFT-S-OFDM	QPSK	25	27	0 mm	left	1:1	0.242	1.432	0.347	
2310.00	462000	Md	NR Band n30	10	17.0	16.88	B	0.06	0	1619M	DFT-S-OFDM	QPSK	1	26	0 mm	back	1:1	0.906	1.028	0.931	
2310.00	462000	Md	NR Band n30	10	17.0	16.86	B	-0.06	0	1619M	DFT-S-OFDM	QPSK	25	0	0 mm	back	1:1	0.835	1.033	0.863	
2310.00	462000	Md	NR Band n30	10	17.0	16.88	B	0.00	0	1619M	DFT-S-OFDM	QPSK	1	26	0 mm	bottom	1:1	1.470	1.028	1.511	A108
2310.00	462000	Md	NR Band n30	10	17.0	16.86	B	-0.03	0	1619M	DFT-S-OFDM	QPSK	25	0	0 mm	bottom	1:1	1.350	1.033	1.395	
2310.00	462000	Md	NR Band n30	10	17.0	17.00	B	0.05	0	1619M	CP-OFDM	QPSK	1	1	0 mm	bottom	1:1	1.350	1.000	1.350	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT								Phablet													
Spatial Peak								4.0 W/kg (mW/g)													
Uncontrolled Exposure/General Population								averaged over 10 grams													

Table 11-84
NR Band n41 Phablet SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Antenna Config	Power Drift [dB]	MPR [dB]	Serial Number	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (10g) [W/kg]	Scaling Factor	Reported SAR (10g) [W/kg]	Plot #	
MHz	Ch.																				
2592.99	518598	Mid	NR Band n41	100	19.0	17.72	E	0.07	0	0372M	DFT-S-OFDM	QPSK	1	137	0 mm	top	1:1	1.480	1.343	1.988	
2592.99	518598	Mid	NR Band n41	100	19.0	17.81	E	0.00	0	0372M	DFT-S-OFDM	QPSK	135	0	0 mm	top	1:1	1.550	1.315	2.038	
2592.99	518598	Mid	NR Band n41	100	19.0	17.71	E	-0.08	0	0372M	DFT-S-OFDM	QPSK	270	0	0 mm	top	1:1	1.420	1.346	1.911	
2592.99	518598	Mid	NR Band n41	100	19.0	17.76	E	0.00	0	0372M	CP-OFDM	QPSK	1	1	0 mm	top	1:1	1.600	1.330	2.128	AI09
ANSI / IEEE C95.1 1992 - SAFETY LIMIT																					
Spatial Peak									Phablet												
Uncontrolled Exposure/General Population									4.0 W/kg (mW/g) averaged over 10 grams												

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Table 11-85
NR Band n77 DoD Phablet SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Antenna Config	Power Drift [dB]	MPR [dB]	Serial Number	Waveform	Modulation	RB Size	RB Offset	Spacing	MPR [dB]	Duty Cycle	Scaling Factor	SAR (10g)	Reported SAR (10g)	Plot #	
MHz	Ch.																	(W/kg)	(W/kg)		
3500.01	633334	Mid	NR Band n77	100	17.0	16.67	F	-0.07	0	0330M	DFT-S-OFDM	QPSK	1	137	0 mm	back	1:1	1.079	0.722	0.779	
3500.01	633334	Mid	NR Band n77	100	17.0	16.69	F	-0.01	0	0330M	DFT-S-OFDM	QPSK	135	69	0 mm	back	1:1	1.074	0.725	0.779	
3500.01	633334	Mid	NR Band n77	100	17.0	16.67	F	0.03	0	0330M	DFT-S-OFDM	QPSK	1	137	0 mm	top	1:1	1.079	2.280	2.460	A110
3500.01	633334	Mid	NR Band n77	100	17.0	16.69	F	-0.04	0	0330M	DFT-S-OFDM	QPSK	135	69	0 mm	top	1:1	1.074	2.260	2.427	
3500.01	633334	Mid	NR Band n77	100	17.0	16.62	F	0.17	0	0330M	DFT-S-OFDM	QPSK	270	0	0 mm	top	1:1	1.091	2.260	2.466	
3500.01	633334	Mid	NR Band n77	100	17.0	16.48	F	0.00	0	0330M	CP-OFDM	QPSK	1	1	0 mm	top	1:1	1.127	1.890	2.130	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak									Phablet 4.0 W/kg (mW/g) averaged over 10 gram												
Uncontrolled Exposure/General Population																					

Table 11-86
NR Band n77 Phablet SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Antenna Config	Power Drift [dB]	MPR [dB]	Serial Number	Waveform	Modulation	RB Size	RB Offset	Spacing	MPR [dB]	Duty Cycle	Scaling Factor	SAR (10g)	Reported SAR (10g)	Plot #	
MHz	Ch.																	(W/kg)	(W/kg)		
3750.00	650000	Low	NR Band n77	100	19.0	18.02	E	-0.05	0	0372M	DFT-S-OFDM	QPSK	1	137	0 mm	back	1:1	1.253	1.040	1.303	
3930.00	662000	High	NR Band n77	100	19.0	18.16	E	-0.08	0	0372M	DFT-S-OFDM	QPSK	1	137	0 mm	back	1:1	1.213	1.020	1.237	
3750.00	650000	Low	NR Band n77	100	19.0	18.04	E	-0.04	0	0372M	DFT-S-OFDM	QPSK	135	69	0 mm	back	1:1	1.247	1.040	1.297	
3930.00	662000	High	NR Band n77	100	19.0	18.22	E	0.10	0	0372M	DFT-S-OFDM	QPSK	135	69	0 mm	back	1:1	1.197	1.020	1.221	
3930.00	662000	High	NR Band n77	100	19.0	18.15	E	0.01	0	0372M	DFT-S-OFDM	QPSK	270	0	0 mm	back	1:1	1.216	1.070	1.301	
3750.00	650000	Low	NR Band n77	100	19.0	18.02	E	-0.09	0	0372M	DFT-S-OFDM	QPSK	1	137	0 mm	top	1:1	1.253	2.200	2.757	
3930.00	662000	High	NR Band n77	100	19.0	18.16	E	-0.02	0	0372M	DFT-S-OFDM	QPSK	1	137	0 mm	top	1:1	1.213	2.360	2.863	A111
3750.00	650000	Low	NR Band n77	100	19.0	18.04	E	0.01	0	0372M	DFT-S-OFDM	QPSK	135	69	0 mm	top	1:1	1.247	2.100	2.619	
3930.00	662000	High	NR Band n77	100	19.0	18.22	E	-0.13	0	0372M	DFT-S-OFDM	QPSK	135	69	0 mm	top	1:1	1.197	2.290	2.741	
3930.00	662000	High	NR Band n77	100	19.0	18.15	E	0.03	0	0372M	DFT-S-OFDM	QPSK	270	0	0 mm	top	1:1	1.216	2.110	2.566	
3930.00	662000	High	NR Band n77	100	19.0	18.28	E	0.15	0	0372M	CP-OFDM	QPSK	1	1	0 mm	top	1:1	1.180	2.220	2.620	
3930.00	662000	High	NR Band n77	100	17.0	15.89	F	-0.09	0	0330M	DFT-S-OFDM	QPSK	1	137	0 mm	back	1:1	1.291	0.356	0.460	
3930.00	662000	High	NR Band n77	100	17.0	15.95	F	-0.07	0	0330M	DFT-S-OFDM	QPSK	135	69	0 mm	back	1:1	1.274	0.367	0.468	
3750.00	650000	Low	NR Band n77	100	17.0	15.34	F	-0.10	0	0330M	DFT-S-OFDM	QPSK	1	137	0 mm	top	1:1	1.466	1.850	2.712	
3930.00	662000	High	NR Band n77	100	17.0	15.89	F	-0.12	0	0330M	DFT-S-OFDM	QPSK	1	137	0 mm	top	1:1	1.291	1.320	1.704	
3750.00	650000	Low	NR Band n77	100	17.0	15.41	F	-0.06	0	0330M	DFT-S-OFDM	QPSK	135	138	0 mm	top	1:1	1.442	1.840	2.653	
3930.00	662000	High	NR Band n77	100	17.0	15.95	F	-0.06	0	0330M	DFT-S-OFDM	QPSK	135	69	0 mm	top	1:1	1.274	1.380	1.758	
3930.00	662000	High	NR Band n77	100	17.0	15.84	F	-0.01	0	0330M	DFT-S-OFDM	QPSK	270	0	0 mm	top	1:1	1.306	1.410	1.841	
3930.00	662000	High	NR Band n77	100	17.0	15.47	F	-0.02	0	0330M	CP-OFDM	QPSK	1	1	0 mm	top	1:1	1.422	1.390	1.977	
3930.00	662000	High	NR Band n77	100	19.0	18.16	E	0.12	0	0372M	DFT-S-OFDM	QPSK	1	137	0 mm	top	1:1	1.213	2.200	2.669	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT										Phablet											
Spatial Peak										4.0 W/kg (mW/g)											
Uncontrolled Exposure/General Population										averaged over 10 gram											

Note: Blue entry represents variability measurement

Table 11-87
WLAN Phablet SAR

MEASUREMENT RESULTS																			
FREQUENCY		Mode	Service	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	Peak SAR of Area Scan	SAR (10g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (10g)	Plot #
MHz	Ch.													W/kg	(W/kg)			(W/kg)	
5320	64	802.11a	OFDM	20	18.0	17.99	0.00	0 mm	1	2038M	6	back	93.8	0.062	-	1.002	1.066	-	
5320	64	802.11a	OFDM	20	18.0	17.99	-0.05	0 mm	1	2038M	6	front	93.8	5.210	0.686	1.002	1.066	0.733	
5320	64	802.11a	OFDM	20	18.0	17.99	-0.01	0 mm	1	2038M	6	top	93.8	3.840	0.596	1.002	1.066	0.637	
5320	64	802.11a	OFDM	20	18.0	17.99	0.18	0 mm	1	2038M	6	left	93.8	0.171	-	1.002	1.066	-	
5720	144	802.11a	OFDM	20	18.0	17.96	0.00	0 mm	1	2038M	6	back	93.8	0.025	-	1.009	1.066	-	
5720	144	802.11a	OFDM	20	18.0	17.96	0.04	0 mm	1	2038M	6	front	93.8	3.140	0.441	1.009	1.066	0.474	
5720	144	802.11a	OFDM	20	18.0	17.96	0.07	0 mm	1	2038M	6	top	93.8	2.220	0.453	1.009	1.066	0.487	
5720	144	802.11a	OFDM	20	18.0	17.96	0.14	0 mm	1	2038M	6	left	93.8	0.154	-	1.009	1.066	-	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population										Phablet 4.0 W/kg (mW/g) averaged over 10 grams									

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Table 11-88
WLAN MIMO Phablet SAR

MEASUREMENT RESULTS																						
FREQUENCY		Mode	Service	Bandwidth [MHz]	Maximum Allowed Power (Ant 1) [dBm]	Conducted Power (Ant 1) [dBm]	Maximum Allowed Power (Ant 2) [dBm]	Conducted Power (Ant 2) [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	Peak SAR of Area Scan		SAR (10g) (W/kg)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (10g) (W/kg)	Plot #
MHz	Ch.															W/kg	(W/kg)					
5260	52	802.11n	OFDM	20	18.0	17.92	18.0	17.43	0.06	0 mm	MIMO	2007M	13	back	86.9	0.264	0.027	1.140	1.151	0.035		
5260	52	802.11n	OFDM	20	18.0	17.92	18.0	17.43	0.06	0 mm	MIMO	2007M	13	front	86.9	7.090	0.925	1.140	1.151	1.214		
5260	52	802.11n	OFDM	20	18.0	17.92	18.0	17.43	0.05	0 mm	MIMO	2007M	13	top	86.9	5.640	0.995	1.140	1.151	1.306	A112	
5260	52	802.11n	OFDM	20	18.0	17.92	18.0	17.43	0.06	0 mm	MIMO	2007M	13	bottom	86.9	5.090	0.683	1.140	1.151	0.896		
5260	52	802.11n	OFDM	20	18.0	17.92	18.0	17.43	-0.14	0 mm	MIMO	2007M	13	left	86.9	0.243	-	1.140	1.151	-		
5620	124	802.11n	OFDM	20	18.0	17.78	18.0	17.35	-0.08	0 mm	MIMO	2007M	13	back	86.9	0.190	0.018	1.161	1.151	0.024		
5620	124	802.11n	OFDM	20	18.0	17.78	18.0	17.35	-0.02	0 mm	MIMO	2007M	13	front	86.9	6.040	0.844	1.161	1.151	1.128		
5620	124	802.11n	OFDM	20	18.0	17.78	18.0	17.35	0.05	0 mm	MIMO	2007M	13	top	86.9	3.650	0.723	1.161	1.151	0.966		
5620	124	802.11n	OFDM	20	18.0	17.78	18.0	17.35	0.01	0 mm	MIMO	2007M	13	bottom	86.9	3.330	0.443	1.161	1.151	0.592		
5620	124	802.11n	OFDM	20	18.0	17.78	18.0	17.35	-0.02	0 mm	MIMO	2007M	13	left	86.9	0.223	-	1.161	1.151	-		
ANSI / IEEE C95.1 1992 - SAFETY LIMIT										Phablet 4.0 W/kg (mW/g) averaged over 10 grams												
Spatial Peak Uncontrolled Exposure/General Population																						

Note: To achieve the 21.0 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 18.0 dBm.

Table 11-89
5 GHz WLAN MIMO Phablet SAR for Conditions NR Active

MEASUREMENT RESULTS																						
FREQUENCY		Mode	Service	Bandwidth [MHz]	Maximum Allowed Power (Ant 1) [dBm]	Conducted Power (Ant 1) [dBm]	Maximum Allowed Power (Ant 2) [dBm]	Conducted Power (Ant 2) [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	Peak SAR of Area Scan		SAR (10g) (W/kg)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (10g) (W/kg)	Plot #
MHz	Ch.															W/kg	(W/kg)					
5290	58	802.11ac	OFDM	80	15.0	14.76	15.0	14.55	-0.02	0 mm	MIMO	2038M	58.5	back	86.3	0.114	-	1.109	1.159	-		
5290	58	802.11ac	OFDM	80	15.0	14.76	15.0	14.55	0.01	0 mm	MIMO	2038M	58.5	front	86.3	1.840	0.258	1.109	1.159	0.332		
5290	58	802.11ac	OFDM	80	15.0	14.76	15.0	14.55	-0.14	0 mm	MIMO	2038M	58.5	top	86.3	1.370	0.227	1.109	1.159	0.292		
5290	58	802.11ac	OFDM	80	15.0	14.76	15.0	14.55	0.01	0 mm	MIMO	2038M	58.5	bottom	86.3	1.810	-	1.109	1.159	-		
5290	58	802.11ac	OFDM	80	15.0	14.76	15.0	14.55	0.03	0 mm	MIMO	2038M	58.5	left	86.3	0.067	-	1.109	1.159	-		
5690	138	802.11ac	OFDM	80	15.0	14.71	15.0	14.68	0.14	0 mm	MIMO	2038M	58.5	back	86.3	0.043	-	1.076	1.159	-		
5690	138	802.11ac	OFDM	80	15.0	14.71	15.0	14.68	0.04	0 mm	MIMO	2038M	58.5	front	86.3	1.140	0.159	1.076	1.159	0.198		
5690	138	802.11ac	OFDM	80	15.0	14.71	15.0	14.68	-0.12	0 mm	MIMO	2038M	58.5	top	86.3	0.627	0.119	1.076	1.159	0.148		
5690	138	802.11ac	OFDM	80	15.0	14.71	15.0	14.68	-0.01	0 mm	MIMO	2038M	58.5	bottom	86.3	1.130	-	1.076	1.159	-		
5690	138	802.11ac	OFDM	80	15.0	14.71	15.0	14.68	-0.15	0 mm	MIMO	2038M	58.5	left	86.3	0.039	-	1.076	1.159	-		
ANSI / IEEE C95.1 1992 - SAFETY LIMIT										Phablet 4.0 W/kg (mW/g) averaged over 10 grams												
Spatial Peak Uncontrolled Exposure/General Population																						

Note: To achieve the 18.0 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 15.0 dBm. 5G NR was not transmitting during the above evaluations.

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11.5 Standalone UMPC Body SAR

Table 11-90
CDMA UMPC Body SAR

MEASUREMENT RESULTS																
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Tune State	Power Drift [dB]	Spacing	Antenna Config.	Device Serial Number	Duty Cycle	Side	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.												(W/kg)		(W/kg)	
820.10	564	CDMA BC10 (§90S)	EVDO Rev. 0	26.0	24.10	108	0.02	10 mm	A + B	1935S	1:1	back	0.282	1.549	0.437	A113
820.10	564	CDMA BC10 (§90S)	EVDO Rev. 0	26.0	24.10	108	-0.01	10 mm	A + B	1935S	1:1	front	0.255	1.549	0.395	
820.10	564	CDMA BC10 (§90S)	EVDO Rev. 0	26.0	24.10	108	0.19	10 mm	A + B	1935S	1:1	bottom	0.209	1.549	0.324	
820.10	564	CDMA BC10 (§90S)	EVDO Rev. 0	26.0	24.10	108	-0.04	10 mm	A + B	1935S	1:1	right	0.165	1.549	0.256	
836.52	384	CDMA BC0 (§22H)	EVDO Rev. 0	26.0	24.04	108	0.02	10 mm	A + B	1935S	1:1	back	0.264	1.570	0.414	A114
836.52	384	CDMA BC0 (§22H)	EVDO Rev. 0	26.0	24.04	108	0.02	10 mm	A + B	1935S	1:1	front	0.241	1.570	0.378	
836.52	384	CDMA BC0 (§22H)	EVDO Rev. 0	26.0	24.04	108	0.03	10 mm	A + B	1935S	1:1	bottom	0.215	1.570	0.338	
836.52	384	CDMA BC0 (§22H)	EVDO Rev. 0	26.0	24.04	108	0.00	10 mm	A + B	1935S	1:1	right	0.158	1.570	0.248	
1851.25	25	PCS CDMA	EVDO Rev. 0	24.0	23.22	N/A	-0.02	12 mm	B	1930S	1:1	back	0.732	1.197	0.876	
1880.00	600	PCS CDMA	EVDO Rev. 0	24.0	23.05	N/A	0.01	12 mm	B	1930S	1:1	back	0.893	1.245	1.112	A115
1908.75	1175	PCS CDMA	EVDO Rev. 0	24.0	23.12	N/A	-0.01	12 mm	B	1930S	1:1	back	0.736	1.225	0.902	
1851.25	25	PCS CDMA	EVDO Rev. 0	24.0	23.22	N/A	-0.08	10 mm	B	1930S	1:1	front	0.695	1.197	0.832	
1880.00	600	PCS CDMA	EVDO Rev. 0	24.0	23.05	N/A	0.05	10 mm	B	1930S	1:1	front	0.872	1.245	1.086	
1908.75	1175	PCS CDMA	EVDO Rev. 0	24.0	23.12	N/A	-0.03	10 mm	B	1930S	1:1	front	0.694	1.225	0.850	
1851.25	25	PCS CDMA	EVDO Rev. 0	24.0	23.22	N/A	0.03	16 mm	B	1930S	1:1	bottom	0.629	1.197	0.753	
1880.00	600	PCS CDMA	EVDO Rev. 0	24.0	23.05	N/A	0.02	16 mm	B	1930S	1:1	bottom	0.864	1.245	1.076	
1908.75	1175	PCS CDMA	EVDO Rev. 0	24.0	23.12	N/A	0.10	16 mm	B	1930S	1:1	bottom	0.667	1.225	0.817	
1851.25	25	PCS CDMA	EVDO Rev. 0	24.0	23.22	N/A	-0.02	10 mm	B	1930S	1:1	right	0.167	1.197	0.200	
1851.25	25	PCS CDMA	EVDO Rev. 0	19.0	18.21	N/A	-0.02	10 mm	B	1925S	1:1	back	0.235	1.199	0.282	
1851.25	25	PCS CDMA	EVDO Rev. 0	19.0	18.21	N/A	0.04	10 mm	B	1925S	1:1	bottom	0.360	1.199	0.432	
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								

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Table 11-91
GSM UMPC Body SAR

MEASUREMENT RESULTS																
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Device Serial Number	# of Time Slots	Duty Cycle	Side	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.												(W/kg)		(W/kg)	
836.60	190	GSM 850	GPRS	30.5	28.85	0.02	10 mm	A + B	1935S	3	1:2.76	back	0.237	1.462	0.346	
836.60	190	GSM 850	GPRS	30.5	28.85	0.03	10 mm	A + B	1935S	3	1:2.76	front	0.249	1.462	0.364	A116
836.60	190	GSM 850	GPRS	30.5	28.85	-0.19	10 mm	A + B	1935S	3	1:2.76	bottom	0.194	1.462	0.284	
836.60	190	GSM 850	GPRS	30.5	28.85	-0.05	10 mm	A + B	1935S	3	1:2.76	right	0.145	1.462	0.212	
1850.20	512	GSM 1900	GPRS	27.5	25.65	0.05	12 mm	B	1925S	3	1:2.76	back	0.541	1.531	0.828	
1880.00	661	GSM 1900	GPRS	27.5	25.68	0.02	12 mm	B	1925S	3	1:2.76	back	0.605	1.521	0.920	
1909.80	810	GSM 1900	GPRS	27.5	25.50	0.01	12 mm	B	1925S	3	1:2.76	back	0.519	1.585	0.823	
1850.20	512	GSM 1900	GPRS	27.5	25.65	0.02	10 mm	B	1925S	3	1:2.76	front	0.592	1.531	0.906	
1880.00	661	GSM 1900	GPRS	27.5	25.68	0.05	10 mm	B	1925S	3	1:2.76	front	0.735	1.521	1.118	A117
1909.80	810	GSM 1900	GPRS	27.5	25.50	-0.02	10 mm	B	1925S	3	1:2.76	front	0.573	1.585	0.908	
1850.20	512	GSM 1900	GPRS	27.5	25.65	-0.04	16 mm	B	1925S	3	1:2.76	bottom	0.511	1.531	0.782	
1880.00	661	GSM 1900	GPRS	27.5	25.68	-0.02	16 mm	B	1925S	3	1:2.76	bottom	0.568	1.521	0.864	
1909.80	810	GSM 1900	GPRS	27.5	25.50	-0.03	16 mm	B	1925S	3	1:2.76	bottom	0.531	1.585	0.842	
1880.00	661	GSM 1900	GPRS	27.5	25.68	0.07	10 mm	B	1925S	3	1:2.76	right	0.139	1.521	0.211	
1880.00	661	GSM 1900	GPRS	21.3	21.09	-0.08	10 mm	B	1925S	4	1:2.076	back	0.357	1.050	0.375	
1880.00	661	GSM 1900	GPRS	21.3	21.09	0.11	10 mm	B	1925S	4	1:2.076	bottom	0.558	1.050	0.586	
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									

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Table 11-92
UMTS UMPC Body SAR

MEASUREMENT RESULTS																
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Tune State	Power Drift [dB]	Spacing	Antenna Config.	Device Serial Number	Duty Cycle	Side	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.												(W/kg)		(W/kg)	
836.60	4183	UMTS 850	RMC	25.8	24.48	108	0.00	10 mm	A + B	1940S	1:1	back	0.352	1.355	0.477	A118
836.60	4183	UMTS 850	RMC	25.8	24.48	108	-0.01	10 mm	A + B	1940S	1:1	front	0.327	1.355	0.443	
836.60	4183	UMTS 850	RMC	25.8	24.48	108	0.00	10 mm	A + B	1940S	1:1	bottom	0.265	1.355	0.359	
836.60	4183	UMTS 850	RMC	25.8	24.48	108	0.00	10 mm	A + B	1940S	1:1	right	0.223	1.355	0.302	
1712.40	1312	UMTS 1750	RMC	25.0	24.34	N/A	0.03	12 mm	B	1930S	1:1	back	0.694	1.164	0.808	
1732.40	1412	UMTS 1750	RMC	25.0	24.35	N/A	0.06	12 mm	B	1930S	1:1	back	0.713	1.161	0.828	
1752.60	1513	UMTS 1750	RMC	25.0	24.11	N/A	0.03	12 mm	B	1930S	1:1	back	0.755	1.227	0.926	
1712.40	1312	UMTS 1750	RMC	25.0	24.34	N/A	-0.04	10 mm	B	1930S	1:1	front	0.770	1.164	0.896	
1732.40	1412	UMTS 1750	RMC	25.0	24.35	N/A	0.00	10 mm	B	1930S	1:1	front	0.809	1.161	0.939	
1752.60	1513	UMTS 1750	RMC	25.0	24.11	N/A	-0.05	10 mm	B	1930S	1:1	front	0.843	1.227	1.034	A119
1732.40	1412	UMTS 1750	RMC	25.0	24.35	N/A	-0.02	16 mm	B	1930S	1:1	bottom	0.520	1.161	0.604	
1732.40	1412	UMTS 1750	RMC	25.0	24.35	N/A	0.00	10 mm	B	1930S	1:1	right	0.345	1.161	0.401	
1752.60	1513	UMTS 1750	RMC	19.0	17.69	N/A	-0.04	10 mm	B	1930S	1:1	back	0.238	1.352	0.322	
1752.60	1513	UMTS 1750	RMC	19.0	17.69	N/A	-0.02	10 mm	B	1930S	1:1	bottom	0.372	1.352	0.503	
1752.60	1513	UMTS 1750	RMC	25.0	24.11	N/A	-0.02	10 mm	B	1930S	1:1	front	0.719	1.227	0.882	
1852.40	9262	UMTS 1900	RMC	25.0	24.03	N/A	0.01	12 mm	B	1930S	1:1	back	0.781	1.250	0.976	
1880.00	9400	UMTS 1900	RMC	25.0	24.04	N/A	-0.04	12 mm	B	1930S	1:1	back	0.920	1.247	1.147	
1907.60	9538	UMTS 1900	RMC	25.0	24.01	N/A	0.01	12 mm	B	1930S	1:1	back	0.810	1.256	1.017	
1852.40	9262	UMTS 1900	RMC	25.0	24.03	N/A	0.03	10 mm	B	1930S	1:1	front	0.774	1.250	0.968	
1880.00	9400	UMTS 1900	RMC	25.0	24.04	N/A	0.02	10 mm	B	1930S	1:1	front	0.945	1.247	1.178	A120
1907.60	9538	UMTS 1900	RMC	25.0	24.01	N/A	0.02	10 mm	B	1930S	1:1	front	0.760	1.256	0.955	
1852.40	9262	UMTS 1900	RMC	25.0	24.03	N/A	0.02	16 mm	B	1930S	1:1	bottom	0.648	1.250	0.810	
1880.00	9400	UMTS 1900	RMC	25.0	24.04	N/A	-0.07	16 mm	B	1930S	1:1	bottom	0.826	1.247	1.030	
1907.60	9538	UMTS 1900	RMC	25.0	24.01	N/A	0.02	16 mm	B	1930S	1:1	bottom	0.709	1.256	0.891	
1880.00	9400	UMTS 1900	RMC	25.0	24.04	N/A	0.01	10 mm	B	1930S	1:1	right	0.200	1.247	0.249	
1852.40	9262	UMTS 1900	RMC	19.0	18.50	N/A	-0.05	10 mm	B	1930S	1:1	back	0.263	1.122	0.295	
1852.40	9262	UMTS 1900	RMC	19.0	18.50	N/A	0.02	10 mm	B	1930S	1:1	bottom	0.353	1.122	0.396	
1880.00	9400	UMTS 1900	RMC	25.0	24.04	N/A	-0.02	10 mm	B	1930S	1:1	front	0.942	1.247	1.175	
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								

Note: Blue entry represents variability measurement

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Table 11-93
LTE Band 71 UMPC Body SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Tune State	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.																(W/kg)		(W/kg)		
680.50	133297	Mid	LTE Band 71	20	25.8	25.31	18	0.07	0	A + B	1955S	QPSK	1	0	10 mm	back	1.1	0.362	1.119	0.405	A121
680.50	133297	Mid	LTE Band 71	20	24.8	24.31	18	0.05	1	A + B	1955S	QPSK	50	25	10 mm	back	1.1	0.293	1.119	0.328	
680.50	133297	Mid	LTE Band 71	20	25.8	25.31	99	0.04	0	A + B	1955S	QPSK	1	0	10 mm	front	1.1	0.245	1.119	0.274	
680.50	133297	Mid	LTE Band 71	20	24.8	24.31	99	0.06	1	A + B	1955S	QPSK	50	25	10 mm	front	1.1	0.199	1.119	0.223	
680.50	133297	Mid	LTE Band 71	20	25.8	25.31	99	0.08	0	A + B	1955S	QPSK	1	0	10 mm	bottom	1.1	0.192	1.119	0.215	
680.50	133297	Mid	LTE Band 71	20	24.8	24.31	99	0.09	1	A + B	1955S	QPSK	50	25	10 mm	bottom	1.1	0.177	1.119	0.198	
680.50	133297	Mid	LTE Band 71	20	25.8	25.31	18	0.01	0	A + B	1955S	QPSK	1	0	10 mm	right	1.1	0.234	1.119	0.262	
680.50	133297	Mid	LTE Band 71	20	24.8	24.31	18	0.08	1	A + B	1955S	QPSK	50	25	10 mm	right	1.1	0.222	1.119	0.248	
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												

Table 11-94
LTE Band 12 UMPC Body SAR

MEASUREMENT RESULTS																					
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Tune State	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.																	(W/kg)		(W/kg)	
707.50	23095	Mid	LTE Band 12	10	25.8	24.48	18	0.04	0	A + B	1955S	QPSK	1	25	10 mm	back	1.1	0.332	1.355	0.450	A122
707.50	23095	Mid	LTE Band 12	10	24.8	23.61	18	0.02	1	A + B	1955S	QPSK	25	12	10 mm	back	1.1	0.277	1.315	0.364	
707.50	23095	Mid	LTE Band 12	10	25.8	24.48	45	0.07	0	A + B	1955S	QPSK	1	25	10 mm	front	1.1	0.244	1.355	0.331	
707.50	23095	Mid	LTE Band 12	10	24.8	23.61	45	0.04	1	A + B	1955S	QPSK	25	12	10 mm	front	1.1	0.207	1.315	0.272	
707.50	23095	Mid	LTE Band 12	10	25.8	24.48	9	-0.05	0	A + B	1955S	QPSK	1	25	10 mm	bottom	1.1	0.166	1.355	0.225	
707.50	23095	Mid	LTE Band 12	10	24.8	23.61	9	0.00	1	A + B	1955S	QPSK	25	12	10 mm	bottom	1.1	0.141	1.315	0.185	
707.50	23095	Mid	LTE Band 12	10	25.8	24.48	9	-0.12	0	A + B	1955S	QPSK	1	25	10 mm	right	1.1	0.196	1.355	0.266	
707.50	23095	Mid	LTE Band 12	10	24.8	23.61	9	-0.10	1	A + B	1955S	QPSK	25	12	10 mm	right	1.1	0.163	1.315	0.214	
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												

Table 11-95
LTE Band 13 UMPC Body SAR

MEASUREMENT RESULTS																					
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Tune State	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.																	(W/kg)		(W/kg)	
782.00	23230	Mid	LTE Band 13	10	25.8	24.75	0	-0.07	0	A + B	1955S	QPSK	1	49	10 mm	back	1.1	0.410	1.274	0.522	A123
782.00	23230	Mid	LTE Band 13	10	24.8	23.85	0	-0.03	1	A + B	1955S	QPSK	25	25	10 mm	back	1.1	0.334	1.245	0.416	
782.00	23230	Mid	LTE Band 13	10	25.8	24.75	0	-0.07	0	A + B	1955S	QPSK	1	49	10 mm	front	1.1	0.261	1.274	0.333	
782.00	23230	Mid	LTE Band 13	10	24.8	23.85	0	0.05	1	A + B	1955S	QPSK	25	25	10 mm	front	1.1	0.212	1.245	0.264	
782.00	23230	Mid	LTE Band 13	10	25.8	24.75	0	0.08	0	A + B	1955S	QPSK	1	49	10 mm	bottom	1.1	0.182	1.274	0.232	
782.00	23230	Mid	LTE Band 13	10	24.8	23.85	0	0.02	1	A + B	1955S	QPSK	25	25	10 mm	bottom	1.1	0.151	1.245	0.188	
782.00	23230	Mid	LTE Band 13	10	25.8	24.75	0	-0.07	0	A + B	1955S	QPSK	1	49	10 mm	right	1.1	0.153	1.274	0.195	
782.00	23230	Mid	LTE Band 13	10	24.8	23.85	0	-0.03	1	A + B	1955S	QPSK	25	25	10 mm	right	1.1	0.123	1.245	0.153	
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												

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Table 11-96
LTE Band 14 UMPC Body SAR

MEASUREMENT RESULTS																					
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Tune State	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.																	(W/kg)		(W/kg)	
793.00	23330	Mid	LTE Band 14	10	25.8	24.79	0	0.03	0	A + B	1955S	QPSK	1	0	10 mm	back	1:1	0.412	1.262	0.520	A124
793.00	23330	Mid	LTE Band 14	10	24.8	23.77	0	0.05	1	A + B	1955S	QPSK	25	25	10 mm	back	1:1	0.320	1.268	0.406	
793.00	23330	Mid	LTE Band 14	10	25.8	24.79	0	0.05	0	A + B	1955S	QPSK	1	0	10 mm	front	1:1	0.297	1.262	0.375	
793.00	23330	Mid	LTE Band 14	10	24.8	23.77	0	0.04	1	A + B	1955S	QPSK	25	25	10 mm	front	1:1	0.234	1.268	0.297	
793.00	23330	Mid	LTE Band 14	10	25.8	24.79	0	0.11	0	A + B	1955S	QPSK	1	0	10 mm	bottom	1:1	0.188	1.262	0.237	
793.00	23330	Mid	LTE Band 14	10	24.8	23.77	0	0.04	1	A + B	1955S	QPSK	25	25	10 mm	bottom	1:1	0.152	1.268	0.193	
793.00	23330	Mid	LTE Band 14	10	25.8	24.79	0	-0.11	0	A + B	1955S	QPSK	1	0	10 mm	right	1:1	0.172	1.262	0.217	
793.00	23330	Mid	LTE Band 14	10	24.8	23.77	0	0.00	1	A + B	1955S	QPSK	25	25	10 mm	right	1:1	0.130	1.268	0.165	
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												

Table 11-97
LTE Band 26 (Cell) UMPC Body SAR

MEASUREMENT RESULTS																					
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Tune State	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.																	(W/kg)		(W/kg)	
831.50	26865	Mid	LTE Band 26 (Cell)	15	25.8	24.60	108	0.03	0	A + B	1945S	QPSK	1	0	10 mm	back	1:1	0.430	1.318	0.567	A125
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.8	23.66	108	0.05	1	A + B	1945S	QPSK	36	18	10 mm	back	1:1	0.347	1.300	0.451	
831.50	26865	Mid	LTE Band 26 (Cell)	15	25.8	24.60	108	-0.01	0	A + B	1945S	QPSK	1	0	10 mm	front	1:1	0.337	1.318	0.444	
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.8	23.66	108	-0.03	1	A + B	1945S	QPSK	36	18	10 mm	front	1:1	0.271	1.300	0.352	
831.50	26865	Mid	LTE Band 26 (Cell)	15	25.8	24.60	108	-0.03	0	A + B	1945S	QPSK	1	0	10 mm	bottom	1:1	0.278	1.318	0.366	
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.8	23.66	108	-0.02	1	A + B	1945S	QPSK	36	18	10 mm	bottom	1:1	0.234	1.300	0.304	
831.50	26865	Mid	LTE Band 26 (Cell)	15	25.8	24.60	108	0.01	0	A + B	1945S	QPSK	1	0	10 mm	right	1:1	0.213	1.318	0.281	
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.8	23.66	108	-0.03	1	A + B	1945S	QPSK	36	18	10 mm	right	1:1	0.181	1.300	0.235	
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												

Table 11-98
LTE Band 5 (Cell) UMPC Body SAR

MEASUREMENT RESULTS																							
1 CC Uplink / 2 CC Uplink	Component Carrier	FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Tune State	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR [1g]	Scaling Factor	Reported SAR [1g]	Plot #	
		MHz	Ch.																(W/kg)		(W/kg)		
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	25.8	24.09	108	0.01	0	A + B	1945S	QPSK	1	0	10 mm	back	1:1	0.378	1.483	0.561	A126
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	24.8	23.03	108	0.02	1	A + B	1945S	QPSK	25	0	10 mm	back	1:1	0.300	1.503	0.451	
2 CC Uplink	PCC	836.50	20525	Mid	LTE Band 5 (Cell)	10	25.8	23.90	108	0.06	0	A + B	1945S	QPSK	1	0	10 mm	back	1:1	0.354	1.549	0.548	
	SCC	829.30	20453			24																	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	25.8	24.09	108	0.00	0	A + B	1945S	QPSK	1	0	10 mm	front	1:1	0.287	1.483	0.426	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	24.8	23.03	108	-0.01	1	A + B	1945S	QPSK	25	0	10 mm	front	1:1	0.221	1.503	0.332	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	25.8	24.09	108	0.00	0	A + B	1945S	QPSK	1	0	10 mm	bottom	1:1	0.254	1.483	0.377	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	24.8	23.03	108	0.00	1	A + B	1945S	QPSK	25	0	10 mm	bottom	1:1	0.179	1.503	0.269	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	25.8	24.09	108	-0.01	0	A + B	1945S	QPSK	1	0	10 mm	right	1:1	0.250	1.483	0.371	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	24.8	23.03	108	0.02	1	A + B	1945S	QPSK	25	0	10 mm	right	1:1	0.168	1.503	0.253	
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											

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Table 11-99
LTE Band 66 (AWS) UMPC Body SAR

MEASUREMENT RESULTS																			
1 CC Uplink / 2 CC Uplink	Component Carrier	FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR[dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)
		MHz	Ch.																(W/kg)
1 CC Uplink	NIA	1720.00	132072	Low	LTE Band 66 (AWS)	20	25.5	24.14	0.01	0	B	2021M	QPSK	1	50	12 mm	back	1:1	0.578
1 CC Uplink	NIA	1745.00	132322	Mid	LTE Band 66 (AWS)	20	25.5	24.24	0.01	0	B	2021M	QPSK	1	50	12 mm	back	1:1	0.614
1 CC Uplink	NIA	1770.00	132572	High	LTE Band 66 (AWS)	20	25.5	24.16	0.01	0	B	2021M	QPSK	1	0	12 mm	back	1:1	0.611
1 CC Uplink	NIA	1745.00	132322	Mid	LTE Band 66 (AWS)	20	24.5	23.37	0.00	1	B	2021M	QPSK	50	25	12 mm	back	1:1	0.501
1 CC Uplink	NIA	1720.00	132072	Low	LTE Band 66 (AWS)	20	24.5	23.28	-0.02	1	B	2021M	QPSK	100	0	12 mm	back	1:1	0.486
1 CC Uplink	NIA	1720.00	132072	Low	LTE Band 66 (AWS)	20	25.5	24.14	-0.01	0	B	2021M	QPSK	1	50	10 mm	front	1:1	0.678
1 CC Uplink	NIA	1745.00	132322	Mid	LTE Band 66 (AWS)	20	25.5	24.24	0.00	0	B	2021M	QPSK	1	50	10 mm	front	1:1	0.702
1 CC Uplink	NIA	1770.00	132572	High	LTE Band 66 (AWS)	20	25.5	24.16	-0.01	0	B	2021M	QPSK	1	0	10 mm	front	1:1	0.714
1 CC Uplink	NIA	1745.00	132322	Mid	LTE Band 66 (AWS)	20	24.5	23.37	0.01	1	B	2021M	QPSK	50	25	10 mm	front	1:1	0.577
1 CC Uplink	NIA	1720.00	132072	Low	LTE Band 66 (AWS)	20	24.5	23.28	-0.01	1	B	2021M	QPSK	100	0	10 mm	front	1:1	0.571
1 CC Uplink	NIA	1775.00	132622	High	LTE Band 66 (AWS)	10	25.5	23.79	-0.02	0	B	2021M	QPSK	1	0	10 mm	front	1:1	0.659
2 CC Uplink CA_66C	PCC	1770.00	132572	High	LTE Band 66 (AWS)	20	25.5	24.29	-0.01	0	B	2021M	QPSK	1	0	10 mm	front	1:1	0.770
	SCC	1750.20	132374		LTE Band 66 (AWS)	20	25.5	24.29	-0.01	0	B	2021M	QPSK	1	99	10 mm	front	1:1	0.770
2 CC Uplink CA_66B	PCC	1775.00	132622	High	LTE Band 66 (AWS)	10	25.5	24.37	0.03	0	B	2021M	QPSK	1	0	10 mm	front	1:1	0.739
	SCC	1765.10	132523		LTE Band 66 (AWS)	10	25.5	24.37	0.03	0	B	2021M	QPSK	1	49	10 mm	front	1:1	0.739
1 CC Uplink	NIA	1745.00	132322	Mid	LTE Band 66 (AWS)	20	25.5	24.24	-0.01	0	B	2021M	QPSK	1	50	16 mm	bottom	1:1	0.539
1 CC Uplink	NIA	1745.00	132322	Mid	LTE Band 66 (AWS)	20	24.5	23.37	-0.01	1	B	2021M	QPSK	50	25	16 mm	bottom	1:1	0.437
1 CC Uplink	NIA	1745.00	132322	Mid	LTE Band 66 (AWS)	20	25.5	24.24	0.00	0	B	2021M	QPSK	1	50	10 mm	right	1:1	0.297
1 CC Uplink	NIA	1745.00	132322	Mid	LTE Band 66 (AWS)	20	24.5	23.37	0.02	1	B	2021M	QPSK	50	25	10 mm	right	1:1	0.244
1 CC Uplink	NIA	1745.00	132322	Mid	LTE Band 66 (AWS)	20	19.0	18.10	0.01	0	B	2021M	QPSK	1	50	10 mm	back	1:1	0.205
1 CC Uplink	NIA	1745.00	132322	Mid	LTE Band 66 (AWS)	20	19.0	18.19	0.00	0	B	2021M	QPSK	50	25	10 mm	back	1:1	0.209
1 CC Uplink	NIA	1745.00	132322	Mid	LTE Band 66 (AWS)	20	19.0	18.10	-0.04	0	B	2021M	QPSK	1	50	10 mm	bottom	1:1	0.309
1 CC Uplink	NIA	1745.00	132322	Mid	LTE Band 66 (AWS)	20	19.0	18.19	0.00	0	B	2021M	QPSK	50	25	10 mm	bottom	1:1	0.318
1 CC Uplink	NIA	1720.00	132072	Low	LTE Band 66 (AWS)	20	20.5	20.14	0.09	0	E	0241M	QPSK	1	50	10 mm	back	1:1	0.256
1 CC Uplink	NIA	1720.00	132072	Low	LTE Band 66 (AWS)	20	20.5	20.33	0.06	0	E	0241M	QPSK	50	25	10 mm	back	1:1	0.263
1 CC Uplink	NIA	1720.00	132072	Low	LTE Band 66 (AWS)	20	20.5	20.14	-0.07	0	E	0241M	QPSK	1	50	10 mm	front	1:1	0.225
1 CC Uplink	NIA	1720.00	132072	Low	LTE Band 66 (AWS)	20	20.5	20.33	-0.07	0	E	0241M	QPSK	50	25	10 mm	front	1:1	0.230
1 CC Uplink	NIA	1720.00	132072	Low	LTE Band 66 (AWS)	20	20.5	20.14	-0.07	0	E	0241M	QPSK	1	50	10 mm	top	1:1	0.339
1 CC Uplink	NIA	1720.00	132072	Low	LTE Band 66 (AWS)	20	20.5	20.33	0.00	0	E	0241M	QPSK	50	25	10 mm	top	1:1	0.342
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									

Table 11-100
LTE Band 25 (PCS) UMPC Body SAR

MEASUREMENT RESULTS																			
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR[dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.															(W/kg)			
1860.00	26140	Low	LTE Band 25 (PCS)	20	25.5	24.19	0.00	0	B	1960S	QPSK	1	99	12 mm	back	1:1	0.703	1.352	0.950
1882.50	26365	Mid	LTE Band 25 (PCS)	20	25.5	24.14	-0.10	0	B	1960S	QPSK	1	99	12 mm	back	1:1	0.747	1.368	1.022
1905.00	26590	High	LTE Band 25 (PCS)	20	25.5	24.30	-0.02	0	B	1960S	QPSK	1	99	12 mm	back	1:1	0.659	1.318	0.869
1905.00	26590	High	LTE Band 25 (PCS)	20	24.5	23.33	0.01	1	B	1960S	QPSK	50	50	12 mm	back	1:1	0.502	1.309	0.657
1860.00	26140	Low	LTE Band 25 (PCS)	20	24.5	23.11	0.01	1	B	1960S	QPSK	100	0	12 mm	back	1:1	0.601	1.377	0.828
1860.00	26140	Low	LTE Band 25 (PCS)	20	25.5	24.19	-0.02	0	B	1960S	QPSK	1	99	10 mm	front	1:1	0.784	1.352	1.060
1882.50	26365	Mid	LTE Band 25 (PCS)	20	25.5	24.14	-0.02	0	B	1960S	QPSK	1	99	10 mm	front	1:1	0.834	1.368	1.141
1905.00	26590	High	LTE Band 25 (PCS)	20	25.5	24.30	-0.03	0	B	1960S	QPSK	1	99	10 mm	front	1:1	0.734	1.318	0.967
1905.00	26590	High	LTE Band 25 (PCS)	20	24.5	23.33	0.02	1	B	1960S	QPSK	50	50	10 mm	front	1:1	0.566	1.309	0.741
1860.00	26140	Low	LTE Band 25 (PCS)	20	24.5	23.11	-0.03	1	B	1960S	QPSK	100	0	10 mm	front	1:1	0.598	1.377	0.823
1905.00	26590	High	LTE Band 25 (PCS)	20	25.5	24.30	0.02	0	B	1960S	QPSK	1	99	16 mm	bottom	1:1	0.606	1.318	0.799
1905.00	26590	High	LTE Band 25 (PCS)	20	24.5	23.33	0.04	1	B	1960S	QPSK	50	50	16 mm	bottom	1:1	0.487	1.309	0.637
1905.00	26590	High	LTE Band 25 (PCS)	20	25.5	24.30	0.02	0	B	1960S	QPSK	1	99	10 mm	right	1:1	0.500	1.318	0.659
1905.00	26590	High	LTE Band 25 (PCS)	20	24.5	23.33	0.05	1	B	1960S	QPSK	50	50	10 mm	right	1:1	0.348	1.309	0.456
1905.00	26590	High	LTE Band 25 (PCS)	20	19.0	17.92	0.06	0	B	1960S	QPSK	1	99	10 mm	back	1:1	0.221	1.282	0.283
1905.00	26590	High	LTE Band 25 (PCS)	20	19.0	18.06	-0.05	0	B	1960S	QPSK	50	50	10 mm	back	1:1	0.218	1.242	0.271
1905.00	26590	High	LTE Band 25 (PCS)	20	19.0	17.92	0.06	0	B	1960S	QPSK	1	99	10 mm	bottom	1:1	0.411	1.282	0.527
1905.00	26590	High	LTE Band 25 (PCS)	20	19.0	18.06	0.02	0	B	1960S	QPSK	50	50	10 mm	bottom	1:1	0.415	1.242	0.515
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									

FCC ID: A3LSMF926U		SAR EVALUATION REPORT		Approved by: Quality Manager
Document S/N: 1M2104020031-01.A3L (Rev 1)	Test Dates: 04/06/21 - 06/09/21	DUT Type: Portable Handset	Page 140 of 245	

Table 11-101
LTE Band 30 UMPC Body SAR

MEASUREMENT RESULTS																				
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.	(W/kg)															(W/kg)			
2310.00	27710	Mid	LTE Band 30	10	22.5	21.26	-0.03	0	B	1950S	QPSK	1	49	12 mm	back	1:1	0.699	1.330	0.930	
2310.00	27710	Mid	LTE Band 30	10	22.5	21.36	0.02	0	B	1950S	QPSK	25	12	12 mm	back	1:1	0.716	1.300	0.931	
2310.00	27710	Mid	LTE Band 30	10	22.5	21.25	0.00	0	B	1950S	QPSK	50	0	12 mm	back	1:1	0.704	1.334	0.939	
2310.00	27710	Mid	LTE Band 30	10	22.5	21.26	-0.01	0	B	1950S	QPSK	1	49	10 mm	front	1:1	0.795	1.330	1.057	
2310.00	27710	Mid	LTE Band 30	10	22.5	21.36	0.00	0	B	1950S	QPSK	25	12	10 mm	front	1:1	0.806	1.300	1.048	A129
2310.00	27710	Mid	LTE Band 30	10	22.5	21.25	-0.01	0	B	1950S	QPSK	50	0	10 mm	front	1:1	0.785	1.334	1.047	
2310.00	27710	Mid	LTE Band 30	10	22.5	21.26	-0.06	0	B	1950S	QPSK	1	49	16 mm	bottom	1:1	0.793	1.330	1.055	
2310.00	27710	Mid	LTE Band 30	10	22.5	21.36	-0.01	0	B	1950S	QPSK	25	12	16 mm	bottom	1:1	0.784	1.300	1.019	
2310.00	27710	Mid	LTE Band 30	10	22.5	21.25	0.01	0	B	1950S	QPSK	50	0	16 mm	bottom	1:1	0.783	1.334	1.045	
2310.00	27710	Mid	LTE Band 30	10	22.5	21.26	-0.02	0	B	1950S	QPSK	1	49	10 mm	right	1:1	0.244	1.330	0.325	
2310.00	27710	Mid	LTE Band 30	10	22.5	21.36	0.00	0	B	1950S	QPSK	25	12	10 mm	right	1:1	0.251	1.300	0.326	
2310.00	27710	Mid	LTE Band 30	10	17.0	16.63	-0.02	0	B	1950S	QPSK	1	49	10 mm	back	1:1	0.363	1.089	0.395	
2310.00	27710	Mid	LTE Band 30	10	17.0	16.57	-0.02	0	B	1950S	QPSK	25	12	10 mm	back	1:1	0.361	1.104	0.399	
2310.00	27710	Mid	LTE Band 30	10	17.0	16.63	0.00	0	B	1950S	QPSK	1	49	10 mm	bottom	1:1	0.621	1.089	0.676	
2310.00	27710	Mid	LTE Band 30	10	17.0	16.57	0.00	0	B	1950S	QPSK	25	12	10 mm	bottom	1:1	0.617	1.104	0.681	
2310.00	27710	Mid	LTE Band 30	10	17.0	16.43	0.03	0	B	1950S	QPSK	50	0	10 mm	bottom	1:1	0.611	1.140	0.697	
2310.00	27710	Mid	LTE Band 30	10	22.5	21.36	-0.01	0	B	1950S	QPSK	25	12	10 mm	front	1:1	0.755	1.300	0.982	
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												

Note: Blue entry represents variability measurement

Table 11-102
LTE Band 7 UMPC Body SAR

MEASUREMENT RESULTS																				
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.																(W/kg)		(W/kg)	
2510.00	20850	Low	LTE Band 7	20	22.5	21.67	0.05	0	B	1631M	QPSK	1	99	12 mm	back	1:1	0.551	1.211	0.667	
2510.00	20850	Low	LTE Band 7	20	22.5	21.75	0.06	0	B	1631M	QPSK	50	25	12 mm	back	1:1	0.597	1.189	0.710	
2510.00	20850	Low	LTE Band 7	20	22.5	21.67	-0.01	0	B	1631M	QPSK	1	99	10 mm	front	1:1	0.692	1.211	0.838	
2535.00	21100	Mid	LTE Band 7	20	22.5	21.47	0.00	0	B	1631M	QPSK	1	0	10 mm	front	1:1	0.649	1.268	0.823	
2560.00	21350	High	LTE Band 7	20	22.5	21.39	0.00	0	B	1631M	QPSK	1	0	10 mm	front	1:1	0.595	1.291	0.768	
2510.00	20850	Low	LTE Band 7	20	22.5	21.75	0.00	0	B	1631M	QPSK	50	25	10 mm	front	1:1	0.729	1.189	0.867	A130
2535.00	21100	Mid	LTE Band 7	20	22.5	21.56	0.01	0	B	1631M	QPSK	50	25	10 mm	front	1:1	0.642	1.242	0.797	
2560.00	21350	High	LTE Band 7	20	22.5	21.47	0.01	0	B	1631M	QPSK	50	25	10 mm	front	1:1	0.589	1.268	0.747	
2510.00	20850	Low	LTE Band 7	20	22.5	21.52	0.03	0	B	1631M	QPSK	100	0	10 mm	front	1:1	0.689	1.253	0.863	
2510.00	20850	Low	LTE Band 7	20	22.5	21.67	0.03	0	B	1631M	QPSK	1	99	16 mm	bottom	1:1	0.587	1.211	0.711	
2510.00	20850	Low	LTE Band 7	20	22.5	21.75	0.00	0	B	1631M	QPSK	50	25	16 mm	bottom	1:1	0.628	1.189	0.747	
2510.00	20850	Low	LTE Band 7	20	22.5	21.67	0.19	0	B	1631M	QPSK	1	99	10 mm	right	1:1	0.081	1.211	0.098	
2510.00	20850	Low	LTE Band 7	20	22.5	21.75	0.10	0	B	1631M	QPSK	50	25	10 mm	right	1:1	0.096	1.189	0.114	
2510.00	20850	Low	LTE Band 7	20	18.0	17.21	0.06	0	B	1631M	QPSK	1	0	10 mm	back	1:1	0.316	1.199	0.379	
2510.00	20850	Low	LTE Band 7	20	18.0	17.29	0.09	0	B	1631M	QPSK	50	25	10 mm	back	1:1	0.311	1.178	0.366	
2510.00	20850	Low	LTE Band 7	20	18.0	17.21	0.00	0	B	1631M	QPSK	1	0	10 mm	bottom	1:1	0.600	1.199	0.719	
2510.00	20850	Low	LTE Band 7	20	18.0	17.29	0.03	0	B	1631M	QPSK	50	25	10 mm	bottom	1:1	0.589	1.178	0.694	
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												

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Table 11-103
LTE Band 48 UMPC Body SAR

MEASUREMENT RESULTS																						
1 CC Uplink 2 CC Uplink	Component Carrier	FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
		MHz	Ch.															(W/kg)		(W/kg)		
1 CC Uplink	N/A	3646.70	56207	Mid-High	LTE Band 48	20	20.5	20.10	0.07	0	E	0330M	QPSK	1	99	10 mm	back	1:1.58	0.236	1.096	0.259	A131
1 CC Uplink	N/A	3646.70	56207	Mid-High	LTE Band 48	20	20.5	20.20	0.00	0	E	0330M	QPSK	50	25	10 mm	back	1:1.58	0.230	1.072	0.247	
2 CC Uplink	PCC	3646.70	56207	Mid-High	LTE Band 48	20	20.5	20.07	-0.02	0	E	0330M	QPSK	1	99	10 mm	back	1:1.58	0.227	1.104	0.251	
	SCC	3666.50	56405												0							
1 CC Uplink	N/A	3646.70	56207	Mid-High	LTE Band 48	20	20.5	20.10	-0.05	0	E	0330M	QPSK	1	99	10 mm	front	1:1.58	0.121	1.096	0.133	
1 CC Uplink	N/A	3646.70	56207	Mid-High	LTE Band 48	20	20.5	20.20	-0.07	0	E	0330M	QPSK	50	25	10 mm	front	1:1.58	0.120	1.072	0.129	
1 CC Uplink	N/A	3646.70	56207	Mid-High	LTE Band 48	20	20.5	20.10	0.02	0	E	0330M	QPSK	1	99	10 mm	top	1:1.58	0.208	1.096	0.228	
1 CC Uplink	N/A	3646.70	56207	Mid-High	LTE Band 48	20	20.5	20.20	0.02	0	E	0330M	QPSK	50	25	10 mm	top	1:1.58	0.199	1.072	0.213	
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												

Table 11-104
LTE Band 41 UMPC Body SAR

MEASUREMENT RESULTS																				
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.	High															(W/kg)		(W/kg)	
2680.00	41490	High	LTE Band 41	20	23.0	22.31	0.16	0	B	1577M	QPSK	1	50	12 mm	back	1:1.58	0.244	1.172	0.286	
2680.00	41490	High	LTE Band 41	20	23.0	22.45	0.02	0	B	1577M	QPSK	50	50	12 mm	back	1:1.58	0.244	1.135	0.277	
2680.00	41490	High	LTE Band 41	20	23.0	22.31	0.08	0	B	1577M	QPSK	1	50	10 mm	front	1:1.58	0.308	1.172	0.361	
2680.00	41490	High	LTE Band 41	20	23.0	22.45	0.08	0	B	1577M	QPSK	50	50	10 mm	front	1:1.58	0.314	1.135	0.356	A132
2680.00	41490	High	LTE Band 41	20	23.0	22.31	-0.02	0	B	1577M	QPSK	1	50	16 mm	bottom	1:1.58	0.280	1.172	0.328	
2680.00	41490	High	LTE Band 41	20	23.0	22.45	0.03	0	B	1577M	QPSK	50	50	16 mm	bottom	1:1.58	0.285	1.135	0.323	
2680.00	41490	High	LTE Band 41	20	23.0	22.31	0.13	0	B	1577M	QPSK	1	50	10 mm	right	1:1.58	0.043	1.172	0.050	
2680.00	41490	High	LTE Band 41	20	23.0	22.45	0.13	0	B	1577M	QPSK	50	50	10 mm	right	1:1.58	0.042	1.135	0.048	
2680.00	41490	High	LTE Band 41	20	19.0	18.42	0.18	0	B	1577M	QPSK	1	50	10 mm	back	1:1.58	0.138	1.143	0.158	
2680.00	41490	High	LTE Band 41	20	19.0	18.51	-0.03	0	B	1577M	QPSK	50	50	10 mm	back	1:1.58	0.142	1.119	0.159	
2680.00	41490	High	LTE Band 41	20	19.0	18.42	-0.04	0	B	1577M	QPSK	1	50	10 mm	bottom	1:1.58	0.287	1.143	0.328	
2680.00	41490	High	LTE Band 41	20	19.0	18.51	0.03	0	B	1577M	QPSK	50	50	10 mm	bottom	1:1.58	0.290	1.119	0.325	
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																				

Table 11-105
NR Band n71 UMPC Body SAR

MEASUREMENT RESULTS																						
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Antenna Config	Power Drift [dB]	MPR [dB]	Antenna State	Serial Number	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.																	(W/kg)		(W/kg)		
680.50	136100	Mid	NR Band n71	20	25.5	24.48	A + B	0.01	0.0	18	2524R	DFT-S-OFDM	QPSK	1	1	10 mm	back	1:1	0.315	1.265	0.398	
680.50	136100	Mid	NR Band n71	20	25.5	24.34	A + B	0.04	0.0	18	2524R	DFT-S-OFDM	QPSK	50	28	10 mm	back	1:1	0.320	1.306	0.418	A133
680.50	136100	Mid	NR Band n71	20	24.0	22.90	A + B	-0.01	1.5	18	2524R	CP-OFDM	QPSK	1	1	10 mm	back	1:1	0.213	1.288	0.274	
680.50	136100	Mid	NR Band n71	20	25.5	24.48	A + B	0.00	0.0	99	2524R	DFT-S-OFDM	QPSK	1	1	10 mm	front	1:1	0.237	1.265	0.300	
680.50	136100	Mid	NR Band n71	20	25.5	24.34	A + B	0.05	0.0	99	2524R	DFT-S-OFDM	QPSK	50	28	10 mm	front	1:1	0.249	1.306	0.325	
680.50	136100	Mid	NR Band n71	20	25.5	24.48	A + B	0.02	0.0	99	2524R	DFT-S-OFDM	QPSK	1	1	10 mm	bottom	1:1	0.191	1.265	0.242	
680.50	136100	Mid	NR Band n71	20	25.5	24.34	A + B	0.00	0.0	99	2524R	DFT-S-OFDM	QPSK	50	28	10 mm	bottom	1:1	0.190	1.306	0.248	
680.50	136100	Mid	NR Band n71	20	25.5	24.48	A + B	-0.08	0.0	18	2524R	DFT-S-OFDM	QPSK	1	1	10 mm	right	1:1	0.216	1.265	0.273	
680.50	136100	Mid	NR Band n71	20	25.5	24.34	A + B	0.03	0.0	18	2524R	DFT-S-OFDM	QPSK	50	28	10 mm	right	1:1	0.234	1.306	0.306	
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													

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Table 11-106
NR Band n12 UMPC Body SAR

MEASUREMENT RESULTS																						
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Antenna Config	Power Drift [dB]	MPR [dB]	Antenna State	Serial Number	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.																	(W/kg)		(W/kg)		
707.50	141500	Md	NR Band n12	15	25.5	24.02	A + B	-0.01	0.0	18	2524R	DFT-S-OFDM	QPSK	1	40	10 mm	back	1:1	0.352	1.406	0.495	A134
707.50	141500	Md	NR Band n12	15	25.5	23.90	A + B	0.00	0.0	18	2524R	DFT-S-OFDM	QPSK	36	22	10 mm	back	1:1	0.348	1.445	0.503	
707.50	141500	Md	NR Band n12	15	24.0	22.18	A + B	0.05	1.5	18	2524R	CP-OFDM	QPSK	1	1	10 mm	back	1:1	0.243	1.521	0.370	
707.50	141500	Md	NR Band n12	15	25.5	24.02	A + B	-0.01	0.0	45	2524R	DFT-S-OFDM	QPSK	1	40	10 mm	front	1:1	0.297	1.406	0.418	
707.50	141500	Md	NR Band n12	15	25.5	23.90	A + B	0.00	0.0	45	2524R	DFT-S-OFDM	QPSK	36	22	10 mm	front	1:1	0.286	1.445	0.413	
707.50	141500	Md	NR Band n12	15	25.5	24.02	A + B	-0.03	0.0	9	2524R	DFT-S-OFDM	QPSK	1	40	10 mm	bottom	1:1	0.184	1.406	0.259	
707.50	141500	Md	NR Band n12	15	25.5	23.90	A + B	-0.05	0.0	9	2524R	DFT-S-OFDM	QPSK	36	22	10 mm	bottom	1:1	0.175	1.445	0.253	
707.50	141500	Md	NR Band n12	15	25.5	24.02	A + B	-0.02	0.0	9	2524R	DFT-S-OFDM	QPSK	1	40	10 mm	right	1:1	0.237	1.406	0.333	
707.50	141500	Md	NR Band n12	15	25.5	23.90	A + B	0.01	0.0	9	2524R	DFT-S-OFDM	QPSK	36	22	10 mm	right	1:1	0.215	1.445	0.311	
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													

Table 11-107
NR Band n5 (Cell) UMPC Body SAR

MEASUREMENT RESULTS																						
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Antenna Config	Power Drift [dB]	MPR [dB]	Antenna State	Serial Number	Waveform	Modulation	RB Size	RB Offset	Spacing	MPR [dB]	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.																	(W/kg)		(W/kg)		
836.50	167300	Md	NR Band n5 (Cell)	20	25.5	25.39	A + B	0.01	0	108	2528R	DFT-S-OFDM	QPSK	1	53	10 mm	back	1:1	0.437	1.026	0.448	A135
836.50	167300	Md	NR Band n5 (Cell)	20	25.5	25.15	A + B	-0.02	0	108	2528R	DFT-S-OFDM	QPSK	50	28	10 mm	back	1:1	0.434	1.084	0.470	
836.50	167300	Md	NR Band n5 (Cell)	20	24.0	23.23	A + B	0.04	1.5	108	2528R	CP-OFDM	QPSK	1	1	10 mm	back	1:1	0.351	1.194	0.419	
836.50	167300	Md	NR Band n5 (Cell)	20	25.5	25.39	A + B	-0.04	0	108	2528R	DFT-S-OFDM	QPSK	1	53	10 mm	front	1:1	0.305	1.026	0.313	
836.50	167300	Md	NR Band n5 (Cell)	20	25.5	25.15	A + B	0.00	0	108	2528R	DFT-S-OFDM	QPSK	50	28	10 mm	front	1:1	0.306	1.084	0.332	
836.50	167300	Md	NR Band n5 (Cell)	20	25.5	25.39	A + B	0.02	0	108	2528R	DFT-S-OFDM	QPSK	1	53	10 mm	bottom	1:1	0.211	1.026	0.216	
836.50	167300	Md	NR Band n5 (Cell)	20	25.5	25.15	A + B	0.07	0	108	2528R	DFT-S-OFDM	QPSK	50	28	10 mm	bottom	1:1	0.195	1.084	0.211	
836.50	167300	Md	NR Band n5 (Cell)	20	25.5	25.39	A + B	0.03	0	108	2528R	DFT-S-OFDM	QPSK	1	53	10 mm	right	1:1	0.199	1.026	0.204	
836.50	167300	Md	NR Band n5 (Cell)	20	25.5	25.15	A + B	0.00	0	108	2528R	DFT-S-OFDM	QPSK	50	28	10 mm	right	1:1	0.193	1.084	0.209	
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													

Table 11-108
NR Band n66 (AWS) UMPC Body SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Antenna Config	Power Drift [dB]	MPR [dB]	Serial Number	Waveform	Modulation	RB Size	RB Offset	Spacing	MPR [dB]	Duty Cycle	SAR (1g) (W/kg)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.																		(W/kg)		
1745.00	349000	Mid	NR Band n66 (AWS)	40	25.0	23.54	B	-0.08	0	1619M	DFT-S-OFDM	QPSK	1	108	12 mm	back	1:1	0.526	1.400	0.736	
1745.00	349000	Mid	NR Band n66 (AWS)	40	25.0	23.08	B	-0.02	0	1619M	DFT-S-OFDM	QPSK	108	54	12 mm	back	1:1	0.537	1.556	0.836	
1745.00	349000	Mid	NR Band n66 (AWS)	40	24.0	22.69	B	0.09	1	1619M	DFT-S-OFDM	QPSK	216	0	12 mm	back	1:1	0.441	1.352	0.596	
1745.00	349000	Mid	NR Band n66 (AWS)	40	25.0	23.54	B	-0.04	0	1619M	DFT-S-OFDM	QPSK	1	108	10 mm	front	1:1	0.641	1.400	0.897	
1745.00	349000	Mid	NR Band n66 (AWS)	40	25.0	23.08	B	0.02	0	1619M	DFT-S-OFDM	QPSK	108	54	10 mm	front	1:1	0.680	1.556	1.058	A136
1745.00	349000	Mid	NR Band n66 (AWS)	40	24.0	22.69	B	-0.01	1	1619M	DFT-S-OFDM	QPSK	216	0	10 mm	front	1:1	0.598	1.352	0.808	
1745.00	349000	Mid	NR Band n66 (AWS)	40	23.5	22.24	B	0.00	1.5	1619M	CP-OFDM	QPSK	1	1	10 mm	front	1:1	0.522	1.337	0.698	
1745.00	349000	Mid	NR Band n66 (AWS)	40	25.0	23.54	B	0.01	0	1619M	DFT-S-OFDM	QPSK	1	108	16 mm	bottom	1:1	0.520	1.400	0.728	
1745.00	349000	Mid	NR Band n66 (AWS)	40	25.0	23.08	B	-0.02	0	1619M	DFT-S-OFDM	QPSK	108	54	16 mm	bottom	1:1	0.514	1.556	0.800	
1745.00	349000	Mid	NR Band n66 (AWS)	40	25.0	23.54	B	0.00	0	1619M	DFT-S-OFDM	QPSK	1	108	10 mm	right	1:1	0.303	1.400	0.424	
1745.00	349000	Mid	NR Band n66 (AWS)	40	25.0	23.08	B	0.00	0	1619M	DFT-S-OFDM	QPSK	108	54	10 mm	right	1:1	0.317	1.556	0.493	
1745.00	349000	Mid	NR Band n66 (AWS)	40	19.0	18.06	B	0.04	0	1619M	DFT-S-OFDM	QPSK	1	1	10 mm	back	1:1	0.264	1.242	0.328	
1745.00	349000	Mid	NR Band n66 (AWS)	40	19.0	18.14	B	0.01	0	1619M	DFT-S-OFDM	QPSK	108	108	10 mm	back	1:1	0.262	1.219	0.319	
1745.00	349000	Mid	NR Band n66 (AWS)	40	19.0	18.06	B	0.03	0	1619M	DFT-S-OFDM	QPSK	1	1	10 mm	bottom	1:1	0.352	1.242	0.437	
1745.00	349000	Mid	NR Band n66 (AWS)	40	19.0	18.14	B	-0.01	0	1619M	DFT-S-OFDM	QPSK	108	108	10 mm	bottom	1:1	0.406	1.219	0.495	
1745.00	349000	Mid	NR Band n66 (AWS)	40	20.5	19.43	E	-0.16	0	1619M	DFT-S-OFDM	QPSK	1	108	10 mm	back	1:1	0.256	1.279	0.327	
1745.00	349000	Mid	NR Band n66 (AWS)	40	20.5	19.42	E	-0.15	0	1619M	DFT-S-OFDM	QPSK	108	0	10 mm	back	1:1	0.256	1.282	0.328	
1745.00	349000	Mid	NR Band n66 (AWS)	40	20.5	19.43	E	0.01	0	1619M	DFT-S-OFDM	QPSK	1	108	10 mm	front	1:1	0.208	1.279	0.266	
1745.00	349000	Mid	NR Band n66 (AWS)	40	20.5	19.42	E	0.06	0	1619M	DFT-S-OFDM	QPSK	108	0	10 mm	front	1:1	0.206	1.282	0.264	
1745.00	349000	Mid	NR Band n66 (AWS)	40	20.5	19.43	E	0.02	0	1619M	DFT-S-OFDM	QPSK	1	108	10 mm	top	1:1	0.403	1.279	0.515	
1745.00	349000	Mid	NR Band n66 (AWS)	40	20.5	19.42	E	-0.05	0	1619M	DFT-S-OFDM	QPSK	108	0	10 mm	top	1:1	0.400	1.282	0.513	
1745.00	349000	Mid	NR Band n66 (AWS)	40	20.5	19.58	E	0.04	0	1619M	CP-OFDM	QPSK	1	1	10 mm	top	1:1	0.371	1.236	0.459	
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													

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Table 11-109
NR Band n25 (PCS) UMPC Body SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Antenna Config	Power Drift [dB]	MPR [dB]	Serial Number	Waveform	Modulation	RB Size	RB Offset	Spacing	MPR [dB]	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.																(W/kg)		(W/kg)		
1882.50	376500	Mid	NR Band n25 (PCS)	40	25.0	24.00	B	-0.03	0	2039M	DFT-S-OFDM	QPSK	1	1	12 mm	back	1:1	0.805	1.259	1.013	
1882.50	376500	Mid	NR Band n25 (PCS)	40	25.0	23.78	B	0.02	0	2039M	DFT-S-OFDM	QPSK	108	54	12 mm	back	1:1	0.910	1.324	1.205	
1882.50	376500	Mid	NR Band n25 (PCS)	40	24.0	22.73	B	-0.07	1	2039M	DFT-S-OFDM	QPSK	216	0	12 mm	back	1:1	0.540	1.340	0.724	
1882.50	376500	Mid	NR Band n25 (PCS)	40	25.0	24.00	B	-0.07	0	2039M	DFT-S-OFDM	QPSK	1	1	10 mm	front	1:1	0.806	1.259	1.015	
1882.50	376500	Mid	NR Band n25 (PCS)	40	25.0	23.78	B	0.03	0	2039M	DFT-S-OFDM	QPSK	108	54	10 mm	front	1:1	0.918	1.324	1.215	A137
1882.50	376500	Mid	NR Band n25 (PCS)	40	24.0	22.73	B	0.01	1	2039M	DFT-S-OFDM	QPSK	216	0	10 mm	front	1:1	0.741	1.340	0.993	
1882.50	376500	Mid	NR Band n25 (PCS)	40	23.5	22.38	B	0.00	1.5	2039M	CP-OFDM	QPSK	1	1	10 mm	front	1:1	0.635	1.294	0.822	
1882.50	376500	Mid	NR Band n25 (PCS)	40	25.0	24.00	B	-0.01	0	2039M	DFT-S-OFDM	QPSK	1	1	16 mm	bottom	1:1	0.758	1.259	0.954	
1882.50	376500	Mid	NR Band n25 (PCS)	40	25.0	23.78	B	-0.03	0	2039M	DFT-S-OFDM	QPSK	108	54	16 mm	bottom	1:1	0.904	1.324	1.197	
1882.50	376500	Mid	NR Band n25 (PCS)	40	24.0	22.73	B	-0.05	1	2039M	DFT-S-OFDM	QPSK	216	0	16 mm	bottom	1:1	0.529	1.340	0.709	
1882.50	376500	Mid	NR Band n25 (PCS)	40	25.0	24.00	B	0.03	0	2039M	DFT-S-OFDM	QPSK	1	1	10 mm	right	1:1	0.187	1.259	0.235	
1882.50	376500	Mid	NR Band n25 (PCS)	40	25.0	23.78	B	0.06	0	2039M	DFT-S-OFDM	QPSK	108	54	10 mm	right	1:1	0.248	1.324	0.328	
1882.50	376500	Mid	NR Band n25 (PCS)	40	19.0	18.00	B	-0.12	0	2039M	DFT-S-OFDM	QPSK	1	1	10 mm	back	1:1	0.275	1.259	0.346	
1882.50	376500	Mid	NR Band n25 (PCS)	40	19.0	17.89	B	0.05	0	2039M	DFT-S-OFDM	QPSK	108	108	10 mm	back	1:1	0.277	1.291	0.358	
1882.50	376500	Mid	NR Band n25 (PCS)	40	19.0	18.00	B	0.03	0	2039M	DFT-S-OFDM	QPSK	1	1	10 mm	bottom	1:1	0.460	1.259	0.579	
1882.50	376500	Mid	NR Band n25 (PCS)	40	19.0	17.89	B	-0.10	0	2039M	DFT-S-OFDM	QPSK	108	108	10 mm	bottom	1:1	0.489	1.291	0.631	
1882.50	376500	Mid	NR Band n25 (PCS)	40	20.5	19.97	E	-0.02	0	2039M	DFT-S-OFDM	QPSK	1	214	10 mm	back	1:1	0.219	1.130	0.247	
1882.50	376500	Mid	NR Band n25 (PCS)	40	20.5	19.88	E	-0.15	0	2039M	DFT-S-OFDM	QPSK	108	108	10 mm	back	1:1	0.221	1.153	0.255	
1882.50	376500	Mid	NR Band n25 (PCS)	40	20.5	19.97	E	0.00	0	2039M	DFT-S-OFDM	QPSK	1	214	10 mm	front	1:1	0.225	1.130	0.254	
1882.50	376500	Mid	NR Band n25 (PCS)	40	20.5	19.88	E	0.02	0	2039M	DFT-S-OFDM	QPSK	108	108	10 mm	front	1:1	0.222	1.153	0.256	
1882.50	376500	Mid	NR Band n25 (PCS)	40	20.5	19.97	E	-0.02	0	2039M	DFT-S-OFDM	QPSK	1	214	10 mm	top	1:1	0.425	1.130	0.480	
1882.50	376500	Mid	NR Band n25 (PCS)	40	20.5	19.88	E	-0.10	0	2039M	DFT-S-OFDM	QPSK	108	108	10 mm	top	1:1	0.423	1.153	0.488	
1882.50	376500	Mid	NR Band n25 (PCS)	40	20.5	19.76	E	0.00	0	2039M	CP-OFDM	QPSK	1	1	10 mm	top	1:1	0.383	1.186	0.454	
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												

Table 11-110
NR Band n30 UMPC Body SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Antenna Config	Power Drift [dB]	MPR [dB]	Serial Number	Waveform	Modulation	RB Size	RB Offset	Spacing	MPR [dB]	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.																(W/kg)		(W/kg)		
2310.00	462000	Mid	NR Band n30	10	22.5	21.05	B	0.05	0	1619M	DFT-S-OFDM	QPSK	1	26	12 mm	back	1:1	0.487	1.396	0.680	
2310.00	462000	Mid	NR Band n30	10	22.5	20.94	B	0.04	0	1619M	DFT-S-OFDM	QPSK	25	27	12 mm	back	1:1	0.499	1.432	0.715	
2310.00	462000	Mid	NR Band n30	10	22.5	21.05	B	0.08	0	1619M	DFT-S-OFDM	QPSK	1	26	10 mm	front	1:1	0.575	1.396	0.803	
2310.00	462000	Mid	NR Band n30	10	22.5	20.94	B	0.04	0	1619M	DFT-S-OFDM	QPSK	25	27	10 mm	front	1:1	0.582	1.432	0.833	
2310.00	462000	Mid	NR Band n30	10	22.5	20.85	B	0.04	0	1619M	DFT-S-OFDM	QPSK	50	0	10 mm	front	1:1	0.586	1.462	0.857	
2310.00	462000	Mid	NR Band n30	10	22.5	21.05	B	-0.02	0	1619M	DFT-S-OFDM	QPSK	1	26	16 mm	bottom	1:1	0.629	1.396	0.878	
2310.00	462000	Mid	NR Band n30	10	22.5	20.94	B	0.10	0	1619M	DFT-S-OFDM	QPSK	25	27	16 mm	bottom	1:1	0.645	1.432	0.924	A138
2310.00	462000	Mid	NR Band n30	10	22.5	20.85	B	0.07	0	1619M	DFT-S-OFDM	QPSK	50	0	16 mm	bottom	1:1	0.638	1.462	0.933	
2310.00	462000	Mid	NR Band n30	10	22.5	20.85	B	-0.01	0	1619M	CP-OFDM	QPSK	1	1	16 mm	bottom	1:1	0.602	1.462	0.880	
2310.00	462000	Mid	NR Band n30	10	22.5	21.05	B	0.18	0	1619M	DFT-S-OFDM	QPSK	1	26	10 mm	right	1:1	0.153	1.396	0.214	
2310.00	462000	Mid	NR Band n30	10	22.5	20.94	B	0.11	0	1619M	DFT-S-OFDM	QPSK	25	27	10 mm	right	1:1	0.161	1.432	0.231	
2310.00	462000	Mid	NR Band n30	10	17.0	16.88	B	0.08	0	1619M	DFT-S-OFDM	QPSK	1	26	10 mm	back	1:1	0.236	1.028	0.243	
2310.00	462000	Mid	NR Band n30	10	17.0	16.86	B	0.08	0	1619M	DFT-S-OFDM	QPSK	25	0	10 mm	back	1:1	0.232	1.033	0.240	
2310.00	462000	Mid	NR Band n30	10	17.0	16.88	B	0.01	0	1619M	DFT-S-OFDM	QPSK	1	26	10 mm	bottom	1:1	0.494	1.028	0.508	
2310.00	462000	Mid	NR Band n30	10	17.0	16.86	B	0.01	0	1619M	DFT-S-OFDM	QPSK	25	0	10 mm	bottom	1:1	0.480	1.033	0.496	
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													

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Document S/N: 1M2104020031-01.A3L (Rev 1)	Test Dates: 04/06/21 - 06/09/21	DUT Type: Portable Handset	Page 144 of 245

Table 11-111
NR Band n41 UMPC Body SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Antenna Config	Power Drift [dB]	MPR [dB]	Serial Number	Waveform	Modulation	RB Size	RB Offset	Spacing	MPR [dB]	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.																(W/kg)		(W/kg)		
2592.99	518598	Mid	NR Band n41	100	19.0	17.72	E	-0.12	0	0372M	DFT-S-OFDM	QPSK	1	137	10 mm	back	1:1	0.132	1.343	0.177	
2592.99	518598	Mid	NR Band n41	100	19.0	17.81	E	-0.13	0	0372M	DFT-S-OFDM	QPSK	135	0	10 mm	back	1:1	0.129	1.315	0.170	
2592.99	518598	Mid	NR Band n41	100	19.0	17.72	E	-0.13	0	0372M	DFT-S-OFDM	QPSK	1	137	10 mm	front	1:1	0.121	1.343	0.163	
2592.99	518598	Mid	NR Band n41	100	19.0	17.81	E	-0.15	0	0372M	DFT-S-OFDM	QPSK	135	0	10 mm	front	1:1	0.121	1.315	0.159	
2592.99	518598	Mid	NR Band n41	100	19.0	17.72	E	-0.05	0	0372M	DFT-S-OFDM	QPSK	1	137	10 mm	top	1:1	0.251	1.343	0.337	
2592.99	518598	Mid	NR Band n41	100	19.0	17.81	E	-0.06	0	0372M	DFT-S-OFDM	QPSK	135	0	10 mm	top	1:1	0.252	1.315	0.331	
2592.99	518598	Mid	NR Band n41	100	19.0	17.76	E	-0.03	0	0372M	CP-OFDM	QPSK	1	1	10 mm	top	1:1	0.249	1.330	0.331	
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												

Table 11-112
NR Band n77 DoD UMPC Body SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Antenna Config	Power Drift [dB]	MPR [dB]	Serial Number	Waveform	Modulation	RB Size	RB Offset	Spacing	MPR [dB]	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.																(W/kg)		(W/kg)		
3500.01	633334	Mid	NR Band n77	100	19.0	18.96	E	-0.08	0	0330M	DFT-S-OFDM	QPSK	1	137	10 mm	back	1:1	0.129	1.009	0.130	
3500.01	633334	Mid	NR Band n77	100	19.0	18.97	E	-0.19	0	0330M	DFT-S-OFDM	QPSK	135	69	10 mm	back	1:1	0.124	1.007	0.125	
3500.01	633334	Mid	NR Band n77	100	19.0	18.96	E	-0.04	0	0330M	DFT-S-OFDM	QPSK	1	137	10 mm	front	1:1	0.079	1.009	0.080	
3500.01	633334	Mid	NR Band n77	100	19.0	18.97	E	-0.05	0	0330M	DFT-S-OFDM	QPSK	135	69	10 mm	front	1:1	0.075	1.007	0.076	
3500.01	633334	Mid	NR Band n77	100	19.0	18.96	E	-0.14	0	0330M	DFT-S-OFDM	QPSK	1	137	10 mm	top	1:1	0.128	1.009	0.129	
3500.01	633334	Mid	NR Band n77	100	19.0	18.97	E	-0.03	0	0330M	DFT-S-OFDM	QPSK	135	69	10 mm	top	1:1	0.133	1.007	0.134	
3500.01	633334	Mid	NR Band n77	100	19.0	18.81	E	-0.13	0	0330M	CP-OFDM	QPSK	1	1	10 mm	top	1:1	0.149	1.045	0.156	
3500.01	633334	Mid	NR Band n77	100	19.0	18.78	G	-0.08	0	0330M	DFT-S-OFDM	QPSK	1	1	10 mm	back	1:1	0.046	1.052	0.048	
3500.01	633334	Mid	NR Band n77	100	19.0	18.64	G	-0.09	0	0330M	DFT-S-OFDM	QPSK	135	0	10 mm	back	1:1	0.049	1.086	0.053	
3500.01	633334	Mid	NR Band n77	100	19.0	18.78	G	-0.07	0	0330M	DFT-S-OFDM	QPSK	1	1	10 mm	front	1:1	0.048	1.052	0.050	
3500.01	633334	Mid	NR Band n77	100	19.0	18.64	G	-0.06	0	0330M	DFT-S-OFDM	QPSK	135	0	10 mm	front	1:1	0.049	1.086	0.053	
3500.01	633334	Mid	NR Band n77	100	19.0	18.81	G	-0.05	0	0330M	CP-OFDM	QPSK	1	1	10 mm	front	1:1	0.048	1.045	0.050	
3500.01	633334	Mid	NR Band n77	100	19.0	18.78	G	0.10	0	0330M	DFT-S-OFDM	QPSK	1	1	10 mm	right	1:1	0.018	1.052	0.019	
3500.01	633334	Mid	NR Band n77	100	19.0	18.64	G	0.02	0	0330M	DFT-S-OFDM	QPSK	135	0	10 mm	right	1:1	0.014	1.086	0.015	
3500.01	633334	Mid	NR Band n77	100	17.0	16.67	F	-0.08	0	0330M	DFT-S-OFDM	QPSK	1	137	10 mm	back	1:1	0.439	1.079	0.474	
3500.01	633334	Mid	NR Band n77	100	17.0	16.69	F	-0.04	0	0330M	DFT-S-OFDM	QPSK	135	69	10 mm	back	1:1	0.424	1.074	0.455	
3500.01	633334	Mid	NR Band n77	100	17.0	16.67	F	-0.04	0	0330M	DFT-S-OFDM	QPSK	1	137	10 mm	front	1:1	0.284	1.079	0.306	
3500.01	633334	Mid	NR Band n77	100	17.0	16.69	F	-0.14	0	0330M	DFT-S-OFDM	QPSK	135	69	10 mm	front	1:1	0.275	1.074	0.295	
3500.01	633334	Mid	NR Band n77	100	17.0	16.67	F	0.02	0	0330M	DFT-S-OFDM	QPSK	1	137	10 mm	top	1:1	0.740	1.079	0.798	
3500.01	633334	Mid	NR Band n77	100	17.0	16.69	F	-0.05	0	0330M	DFT-S-OFDM	QPSK	135	69	10 mm	top	1:1	0.726	1.074	0.780	
3500.01	633334	Mid	NR Band n77	100	17.0	16.48	F	0.00	0	0330M	CP-OFDM	QPSK	1	1	10 mm	top	1:1	0.593	1.127	0.668	
3500.01	633334	Mid	NR Band n77	100	17.0	16.67	F	-0.17	0	0330M	DFT-S-OFDM	QPSK	1	137	10 mm	right	1:1	0.122	1.079	0.132	
3500.01	633334	Mid	NR Band n77	100	17.0	16.69	F	-0.02	0	0330M	DFT-S-OFDM	QPSK	135	69	10 mm	right	1:1	0.123	1.074	0.132	
3500.01	633334	Mid	NR Band n77	100	16.0	15.26	B	-0.11	0	0330M	DFT-S-OFDM	QPSK	1	1	10 mm	back	1:1	0.038	1.186	0.045	
3500.01	633334	Mid	NR Band n77	100	16.0	15.29	B	-0.09	0	0330M	DFT-S-OFDM	QPSK	135	69	10 mm	back	1:1	0.038	1.178	0.045	
3500.01	633334	Mid	NR Band n77	100	16.0	15.26	B	-0.15	0	0330M	DFT-S-OFDM	QPSK	1	1	10 mm	front	1:1	0.027	1.186	0.032	
3500.01	633334	Mid	NR Band n77	100	16.0	15.29	B	-0.11	0	0330M	DFT-S-OFDM	QPSK	135	69	10 mm	front	1:1	0.031	1.178	0.037	
3500.01	633334	Mid	NR Band n77	100	16.0	15.26	B	-0.18	0	0330M	DFT-S-OFDM	QPSK	1	1	10 mm	bottom	1:1	0.099	1.186	0.117	
3500.01	633334	Mid	NR Band n77	100	16.0	15.29	B	-0.03	0	0330M	DFT-S-OFDM	QPSK	135	69	10 mm	bottom	1:1	0.103	1.178	0.121	
3500.01	633334	Mid	NR Band n77	100	16.0	15.23	B	-0.02	0	0330M	CP-OFDM	QPSK	1	1	10 mm	bottom	1:1	0.101	1.194	0.121	
3500.01	633334	Mid	NR Band n77	100	16.0	15.26	B	0.03	0	0330M	DFT-S-OFDM	QPSK	1	1	10 mm	right	1:1	0.015	1.186	0.018	
3500.01	633334	Mid	NR Band n77	100	16.0	15.29	B	0.15	0	0330M	DFT-S-OFDM	QPSK	135	69	10 mm	right	1:1	0.016	1.178	0.019	
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													

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Table 11-113
NR Band n77 UMPC Body SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Antenna Config	Power Drift [dB]	MPR [dB]	Serial Number	Waveform	Modulation	RB Size	RB Offset	Spacing	MPR [dB]	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.																(W/kg)		(W/kg)		
3930.00	662000	High	NR Band n77	100	19.0	18.16	E	-0.05	0	0372M	DFT-S-OFDM	QPSK	1	137	10 mm	back	1:1	0.282	1.213	0.342	
3930.00	662000	High	NR Band n77	100	19.0	18.22	E	0.08	0	0372M	DFT-S-OFDM	QPSK	135	69	10 mm	back	1:1	0.306	1.197	0.366	
3930.00	662000	High	NR Band n77	100	19.0	18.16	E	0.11	0	0372M	DFT-S-OFDM	QPSK	1	137	10 mm	front	1:1	0.149	1.213	0.181	
3930.00	662000	High	NR Band n77	100	19.0	18.22	E	-0.08	0	0372M	DFT-S-OFDM	QPSK	135	69	10 mm	front	1:1	0.155	1.197	0.186	
3750.00	650000	Low	NR Band n77	100	19.0	18.02	E	-0.04	0	0372M	DFT-S-OFDM	QPSK	1	137	10 mm	top	1:1	0.380	1.253	0.476	
3930.00	662000	High	NR Band n77	100	19.0	18.16	E	-0.14	0	0372M	DFT-S-OFDM	QPSK	1	137	10 mm	top	1:1	0.466	1.213	0.565	
3750.00	650000	Low	NR Band n77	100	19.0	18.04	E	0.02	0	0372M	DFT-S-OFDM	QPSK	135	69	10 mm	top	1:1	0.376	1.247	0.469	
3930.00	662000	High	NR Band n77	100	19.0	18.22	E	-0.02	0	0372M	DFT-S-OFDM	QPSK	135	69	10 mm	top	1:1	0.456	1.197	0.546	
3930.00	662000	High	NR Band n77	100	19.0	18.15	E	0.04	0	0372M	DFT-S-OFDM	QPSK	270	0	10 mm	top	1:1	0.463	1.216	0.563	
3930.00	662000	High	NR Band n77	100	19.0	18.28	E	-0.02	0	0372M	CP-OFDM	QPSK	1	1	10 mm	top	1:1	0.455	1.180	0.537	
3930.00	662000	High	NR Band n77	100	19.0	18.29	G	0.05	0	0372M	DFT-S-OFDM	QPSK	1	271	10 mm	back	1:1	0.045	1.178	0.053	
3930.00	662000	High	NR Band n77	100	19.0	18.34	G	-0.04	0	0372M	DFT-S-OFDM	QPSK	135	69	10 mm	back	1:1	0.049	1.164	0.057	
3930.00	662000	High	NR Band n77	100	19.0	18.02	G	0.00	0	0372M	CP-OFDM	QPSK	1	1	10 mm	back	1:1	0.049	1.253	0.061	
3930.00	662000	High	NR Band n77	100	19.0	18.29	G	-0.03	0	0372M	DFT-S-OFDM	QPSK	1	271	10 mm	front	1:1	0.015	1.178	0.018	
3930.00	662000	High	NR Band n77	100	19.0	18.34	G	-0.10	0	0372M	DFT-S-OFDM	QPSK	135	69	10 mm	front	1:1	0.029	1.164	0.034	
3930.00	662000	High	NR Band n77	100	19.0	18.29	G	-0.08	0	0372M	DFT-S-OFDM	QPSK	1	271	10 mm	right	1:1	0.005	1.178	0.006	
3930.00	662000	High	NR Band n77	100	19.0	18.34	G	0.05	0	0372M	DFT-S-OFDM	QPSK	135	69	10 mm	right	1:1	0.006	1.164	0.007	
3930.00	662000	High	NR Band n77	100	17.0	15.89	F	-0.19	0	0372M	DFT-S-OFDM	QPSK	1	137	10 mm	back	1:1	0.148	1.291	0.191	
3930.00	662000	High	NR Band n77	100	17.0	15.95	F	-0.05	0	0372M	DFT-S-OFDM	QPSK	135	69	10 mm	back	1:1	0.145	1.274	0.185	
3930.00	662000	High	NR Band n77	100	17.0	15.89	F	0.12	0	0372M	DFT-S-OFDM	QPSK	1	137	10 mm	front	1:1	0.103	1.291	0.133	
3930.00	662000	High	NR Band n77	100	17.0	15.95	F	-0.13	0	0372M	DFT-S-OFDM	QPSK	135	69	10 mm	front	1:1	0.114	1.274	0.145	
3750.00	650000	Low	NR Band n77	100	17.0	15.34	F	0.02	0	0372M	DFT-S-OFDM	QPSK	1	137	10 mm	top	1:1	0.601	1.466	0.881	AI41
3930.00	662000	High	NR Band n77	100	17.0	15.89	F	-0.05	0	0372M	DFT-S-OFDM	QPSK	1	137	10 mm	top	1:1	0.396	1.291	0.511	
3750.00	650000	Low	NR Band n77	100	17.0	15.41	F	0.07	0	0372M	DFT-S-OFDM	QPSK	135	138	10 mm	top	1:1	0.582	1.442	0.839	
3930.00	662000	High	NR Band n77	100	17.0	15.95	F	-0.03	0	0372M	DFT-S-OFDM	QPSK	135	69	10 mm	top	1:1	0.409	1.274	0.521	
3930.00	662000	High	NR Band n77	100	17.0	15.84	F	0.01	0	0372M	DFT-S-OFDM	QPSK	270	0	10 mm	top	1:1	0.418	1.306	0.546	
3930.00	662000	High	NR Band n77	100	17.0	15.47	F	-0.08	0	0372M	CP-OFDM	QPSK	1	1	10 mm	top	1:1	0.425	1.422	0.604	
3930.00	662000	High	NR Band n77	100	17.0	15.89	F	-0.03	0	0372M	DFT-S-OFDM	QPSK	1	137	10 mm	right	1:1	0.059	1.291	0.076	
3930.00	662000	High	NR Band n77	100	17.0	15.95	F	-0.04	0	0372M	DFT-S-OFDM	QPSK	135	69	10 mm	right	1:1	0.068	1.274	0.087	
3930.00	662000	High	NR Band n77	100	16.0	14.99	B	-0.16	0	0330M	DFT-S-OFDM	QPSK	1	137	10 mm	back	1:1	0.034	1.262	0.043	
3930.00	662000	High	NR Band n77	100	16.0	14.95	B	0.10	0	0330M	DFT-S-OFDM	QPSK	135	69	10 mm	back	1:1	0.026	1.274	0.033	
3930.00	662000	High	NR Band n77	100	16.0	14.99	B	-0.05	0	0330M	DFT-S-OFDM	QPSK	1	137	10 mm	front	1:1	0.013	1.262	0.016	
3930.00	662000	High	NR Band n77	100	16.0	14.95	B	-0.18	0	0330M	DFT-S-OFDM	QPSK	135	69	10 mm	front	1:1	0.015	1.274	0.019	
3930.00	662000	High	NR Band n77	100	16.0	14.99	B	-0.05	0	0330M	DFT-S-OFDM	QPSK	1	137	10 mm	bottom	1:1	0.064	1.262	0.081	
3930.00	662000	High	NR Band n77	100	16.0	14.95	B	-0.05	0	0330M	DFT-S-OFDM	QPSK	135	69	10 mm	bottom	1:1	0.057	1.274	0.073	
3930.00	662000	High	NR Band n77	100	16.0	14.27	B	-0.05	0	0330M	CP-OFDM	QPSK	1	1	10 mm	bottom	1:1	0.058	1.489	0.086	
3930.00	662000	High	NR Band n77	100	16.0	14.99	B	-0.12	0	0330M	DFT-S-OFDM	QPSK	1	137	10 mm	right	1:1	0.010	1.262	0.013	
3930.00	662000	High	NR Band n77	100	16.0	14.95	B	-0.08	0	0330M	DFT-S-OFDM	QPSK	135	69	10 mm	right	1:1	0.007	1.274	0.009	
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										

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Table 11-114
WLAN UMPC Body SAR

MEASUREMENT RESULTS																		
FREQUENCY		Mode	Service	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	SAR (1g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot #
MHz	Ch.													(W/kg)			(W/kg)	
2462	11	802.11b	DSSS	22	19.0	18.67	-0.02	10 mm	1	1578M	1	back	98.9	0.362	1.079	1.011	0.395	
2462	11	802.11b	DSSS	22	19.0	18.67	-0.01	10 mm	1	1578M	1	front	98.9	0.268	1.079	1.011	0.292	
2462	11	802.11b	DSSS	22	19.0	18.67	-0.03	10 mm	1	1578M	1	top	98.9	0.403	1.079	1.011	0.440	A142
2462	11	802.11b	DSSS	22	19.0	18.70	-0.03	10 mm	2	1997M	1	back	98.9	0.074	1.072	1.011	0.080	
2462	11	802.11b	DSSS	22	19.0	18.70	0.02	10 mm	2	1997M	1	front	98.9	0.105	1.072	1.011	0.114	
2462	11	802.11b	DSSS	22	19.0	18.70	-0.03	10 mm	2	1997M	1	bottom	98.9	0.155	1.072	1.011	0.168	
5320	64	802.11a	OFDM	20	18.0	17.99	0.18	10 mm	1	2038M	6	back	93.8	0.073	1.002	1.066	0.078	
5320	64	802.11a	OFDM	20	18.0	17.99	-0.08	10 mm	1	2038M	6	front	93.8	0.057	1.002	1.066	0.061	
5320	64	802.11a	OFDM	20	18.0	17.99	0.03	10 mm	1	2038M	6	top	93.8	0.168	1.002	1.066	0.179	
5720	144	802.11a	OFDM	20	18.0	17.96	-0.05	10 mm	1	2038M	6	back	93.8	0.046	1.009	1.066	0.049	
5720	144	802.11a	OFDM	20	18.0	17.96	-0.14	10 mm	1	2038M	6	front	93.8	0.042	1.009	1.066	0.045	
5720	144	802.11a	OFDM	20	18.0	17.96	-0.05	10 mm	1	2038M	6	top	93.8	0.133	1.009	1.066	0.143	
5785	157	802.11a	OFDM	20	18.0	17.94	-0.03	10 mm	1	2038M	6	back	93.8	0.077	1.014	1.066	0.083	
5785	157	802.11a	OFDM	20	18.0	17.94	0.16	10 mm	1	2038M	6	front	93.8	0.042	1.014	1.066	0.045	
5785	157	802.11a	OFDM	20	18.0	17.94	-0.06	10 mm	1	2038M	6	top	93.8	0.110	1.014	1.066	0.119	
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									

Table 11-115
WLAN MIMO UMPC Body SAR

MEASUREMENT RESULTS																				
FREQUENCY		Mode	Service	Bandwidth [MHz]	Maximum Allowed Power (Ant 1) [dBm]	Conducted Power (Ant 1) [dBm]	Maximum Allowed Power (Ant 2) [dBm]	Conducted Power (Ant 2) [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	SAR (1g) (W/kg)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g) (W/kg)	Plot #
MHz	Ch.																			
2462	11	802.11b	DSSS	22	19.0	18.67	19.0	18.70	-0.02	10 mm	MIMO	1578M	1	back	98.9	0.255	1.079	1.011	0.278	
2462	11	802.11b	DSSS	22	19.0	18.67	19.0	18.70	-0.04	10 mm	MIMO	1578M	1	front	98.9	0.197	1.079	1.011	0.215	
2462	11	802.11b	DSSS	22	19.0	18.67	19.0	18.70	0.08	10 mm	MIMO	1578M	1	top	98.9	0.378	1.079	1.011	0.412	
2462	11	802.11b	DSSS	22	19.0	18.67	19.0	18.70	-0.02	10 mm	MIMO	1578M	1	bottom	98.9	0.239	1.079	1.011	0.261	
5260	52	802.11n	OFDM	20	18.0	17.92	18.0	17.43	-0.12	10 mm	MIMO	2038M	13	back	86.9	0.097	1.140	1.151	0.127	
5260	52	802.11n	OFDM	20	18.0	17.92	18.0	17.43	-0.02	10 mm	MIMO	2038M	13	front	86.9	0.099	1.140	1.151	0.130	
5260	52	802.11n	OFDM	20	18.0	17.92	18.0	17.43	-0.02	10 mm	MIMO	2038M	13	top	86.9	0.163	1.140	1.151	0.214	
5260	52	802.11n	OFDM	20	18.0	17.92	18.0	17.43	-0.04	10 mm	MIMO	2038M	13	bottom	86.9	0.168	1.140	1.151	0.220	A143
5290	58	802.11ac	OFDM	80	15.0	14.76	15.0	14.55	0.10	10 mm	MIMO	2038M	58.5	back	86.3	0.028	1.109	1.159	0.036	
5620	124	802.11n	OFDM	20	18.0	17.78	18.0	17.35	0.04	10 mm	MIMO	2038M	13	back	86.9	0.070	1.161	1.151	0.094	
5620	124	802.11n	OFDM	20	18.0	17.78	18.0	17.35	0.03	10 mm	MIMO	2038M	13	front	86.9	0.045	1.161	1.151	0.060	
5620	124	802.11n	OFDM	20	18.0	17.78	18.0	17.35	-0.03	10 mm	MIMO	2038M	13	top	86.9	0.150	1.161	1.151	0.200	
5620	124	802.11n	OFDM	20	18.0	17.78	18.0	17.35	-0.05	10 mm	MIMO	2038M	13	bottom	86.9	0.049	1.161	1.151	0.065	
5690	138	802.11ac	OFDM	80	15.0	14.71	15.0	14.68	-0.02	10 mm	MIMO	2038M	58.5	back	86.3	0.020	1.076	1.159	0.025	
5825	165	802.11n	OFDM	20	18.0	17.61	18.0	17.58	-0.05	10 mm	MIMO	2038M	13	back	86.9	0.046	1.102	1.151	0.058	
5825	165	802.11n	OFDM	20	18.0	17.61	18.0	17.58	-0.03	10 mm	MIMO	2038M	13	front	86.9	0.067	1.102	1.151	0.085	
5825	165	802.11n	OFDM	20	18.0	17.61	18.0	17.58	0.17	10 mm	MIMO	2038M	13	top	86.9	0.082	1.102	1.151	0.104	
5825	165	802.11n	OFDM	20	18.0	17.61	18.0	17.58	0.07	10 mm	MIMO	2038M	13	bottom	86.9	0.022	1.102	1.151	0.028	
5775	155	802.11ac	OFDM	80	15.0	14.82	15.0	14.73	-0.09	10 mm	MIMO	2038M	58.5	back	86.3	0.011	1.064	1.159	0.014	
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										

Note: For 2450 MHz WLAN, to achieve the 22.0 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 19.0 dBm. For 5GHz WLAN, to achieve the 21.0 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 18.0 dBm. For 5GHz WLAN at reduced level (for Conditions with 2.4 GHz WLAN or 5G NR Active) to achieve the 18.0 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 15.0 dBm. 2.4 GHz WIFI and/or 5G NR were not transmitting during the above evaluations.

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Table 11-116
2.4 GHz MIMO UMPC Body SAR for Conditions with 5/6 GHz WLAN or 5G NR Active

MEASUREMENT RESULTS																				
FREQUENCY		Mode	Service	Bandwidth [MHz]	Maximum Allowed Power (Ant 1) [dBm]	Conducted Power (Ant 1) [dBm]	Maximum Allowed Power (Ant 2) [dBm]	Conducted Power (Ant 2) [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	SAR (1g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot #
MHz	Ch.															(W/kg)			(W/kg)	
2462	11	802.11n	OFDM	20	15.0	14.67	15.0	14.84	0.06	10 mm	MIMO	1578M	13	back	92.2	0.068	1.079	1.084	0.080	
2462	11	802.11n	OFDM	20	15.0	14.67	15.0	14.84	-0.03	10 mm	MIMO	1578M	13	front	92.2	0.081	1.079	1.084	0.095	
2462	11	802.11n	OFDM	20	15.0	14.67	15.0	14.84	-0.02	10 mm	MIMO	1578M	13	top	92.2	0.095	1.079	1.084	0.111	
2462	11	802.11n	OFDM	20	15.0	14.67	15.0	14.84	-0.05	10 mm	MIMO	1578M	13	bottom	92.2	0.105	1.079	1.084	0.123	
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										

Note: 2.4 GHZ WLAN MIMO was additionally evaluated at the maximum allowed output power during operations with Simultaneous 2.4 GHz WLAN and 5/6 GHz WLAN or 2.4 GHz WLAN and 5 NR active. 5/6 GHz WIFI and/or 5G NR were not transmitting during the above evaluations.

Table 11-117
DSS UMPC Body SAR

MEASUREMENT RESULTS																	
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	SAR (1g)	Scaling Factor (Cond Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot #
MHz	Ch.												(W/kg)			(W/kg)	
2441	39	Bluetooth	FHSS	17.5	17.29	-0.02	10 mm	1	1580M	1	back	76.80	0.118	1.050	1.302	0.161	
2441	39	Bluetooth	FHSS	17.5	17.29	-0.09	10 mm	1	1580M	1	front	76.80	0.091	1.050	1.302	0.124	
2441	39	Bluetooth	FHSS	17.5	17.29	-0.02	10 mm	1	1580M	1	top	76.80	0.186	1.050	1.302	0.254	A144
2441	39	Bluetooth	FHSS	17.5	16.93	0.08	10 mm	2	1997M	1	back	76.80	0.032	1.140	1.302	0.047	
2441	39	Bluetooth	FHSS	17.5	16.93	-0.03	10 mm	2	1997M	1	front	76.80	0.052	1.140	1.302	0.077	
2441	39	Bluetooth	FHSS	17.5	16.93	0.07	10 mm	2	1997M	1	bottom	76.80	0.062	1.140	1.302	0.092	
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										

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11.6 Standalone UMPC Extremity SAR

Table 11-118
CDMA UMPC Extremity SAR

MEASUREMENT RESULTS																
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Tune State	Power Drift [dB]	Spacing	Antenna Config.	Device Serial Number	Duty Cycle	Side	SAR (10g)	Scaling Factor	Reported SAR (10g)	Plot #
MHz	Ch.												(W/kg)		(W/kg)	
820.10	564	CDMA BC10 (S90S)	EVDO Rev. 0	26.0	24.10	108	-0.04	0 mm	A + B	1935S	1:1	back	0.785	1.549	1.216	A145
820.10	564	CDMA BC10 (S90S)	EVDO Rev. 0	26.0	24.10	108	-0.02	0 mm	A + B	1935S	1:1	front	0.719	1.549	1.114	
820.10	564	CDMA BC10 (S90S)	EVDO Rev. 0	26.0	24.10	108	-0.06	0 mm	A + B	1935S	1:1	bottom	0.603	1.549	0.934	
820.10	564	CDMA BC10 (S90S)	EVDO Rev. 0	26.0	24.10	108	-0.08	0 mm	A + B	1935S	1:1	right	0.775	1.549	1.200	
836.52	384	CDMA BC0 (S22H)	EVDO Rev. 0	26.0	24.04	108	0.13	0 mm	A + B	1935S	1:1	back	0.754	1.570	1.184	A146
836.52	384	CDMA BC0 (S22H)	EVDO Rev. 0	26.0	24.04	108	0.00	0 mm	A + B	1935S	1:1	front	0.674	1.570	1.058	
836.52	384	CDMA BC0 (S22H)	EVDO Rev. 0	26.0	24.04	108	-0.05	0 mm	A + B	1935S	1:1	bottom	0.573	1.570	0.900	
836.52	384	CDMA BC0 (S22H)	EVDO Rev. 0	26.0	24.04	108	-0.07	0 mm	A + B	1935S	1:1	right	0.727	1.570	1.141	
1851.25	25	PCS CDMA	EVDO Rev. 0	24.0	23.22	N/A	-0.02	12 mm	B	1930S	1:1	back	0.406	1.197	0.486	
1851.25	25	PCS CDMA	EVDO Rev. 0	24.0	23.22	N/A	-0.03	9 mm	B	1930S	1:1	front	0.411	1.197	0.492	
1851.25	25	PCS CDMA	EVDO Rev. 0	24.0	23.22	N/A	0.03	16 mm	B	1930S	1:1	bottom	0.349	1.197	0.418	
1851.25	25	PCS CDMA	EVDO Rev. 0	24.0	23.22	N/A	0.08	0 mm	B	1930S	1:1	right	0.622	1.197	0.745	
1851.25	25	PCS CDMA	EVDO Rev. 0	19.0	18.21	N/A	-0.10	0 mm	B	1925S	1:1	back	0.825	1.199	0.989	
1851.25	25	PCS CDMA	EVDO Rev. 0	19.0	18.21	N/A	0.03	0 mm	B	1925S	1:1	front	0.776	1.199	0.930	
1851.25	25	PCS CDMA	EVDO Rev. 0	19.0	18.21	N/A	-0.05	0 mm	B	1925S	1:1	bottom	1.730	1.199	2.074	
1880.00	600	PCS CDMA	EVDO Rev. 0	19.0	17.74	N/A	0.00	0 mm	B	1925S	1:1	bottom	2.080	1.337	2.781	A147
1908.75	1175	PCS CDMA	EVDO Rev. 0	19.0	17.72	N/A	-0.01	0 mm	B	1925S	1:1	bottom	1.740	1.343	2.337	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population								UMPC Extremity 4.0 W/kg (mW/g) averaged over 10 grams								

Table 11-119
GSM UMPC Extremity SAR

MEASUREMENT RESULTS																
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Device Serial Number	# of Time Slots	Duty Cycle	Side	SAR (10g)	Scaling Factor	Reported SAR (10g)	Plot #
MHz	Ch.												(W/kg)		(W/kg)	
836.60	190	GSM 850	GPRS	30.5	28.85	0.02	0 mm	A + B	1935S	3	1:2.76	back	0.602	1.462	0.880	A148
836.60	190	GSM 850	GPRS	30.5	28.85	-0.01	0 mm	A + B	1935S	3	1:2.76	front	0.525	1.462	0.768	
836.60	190	GSM 850	GPRS	30.5	28.85	0.09	0 mm	A + B	1935S	3	1:2.76	bottom	0.461	1.462	0.674	
836.60	190	GSM 850	GPRS	30.5	28.85	-0.03	0 mm	A + B	1935S	3	1:2.76	right	0.489	1.462	0.715	
1880.00	661	GSM 1900	GPRS	27.5	25.68	0.02	12 mm	B	1925S	3	1:2.76	back	0.332	1.521	0.505	
1880.00	661	GSM 1900	GPRS	27.5	25.68	0.00	9 mm	B	1925S	3	1:2.76	front	0.426	1.521	0.648	
1880.00	661	GSM 1900	GPRS	27.5	25.68	-0.02	16 mm	B	1925S	3	1:2.76	bottom	0.320	1.521	0.487	
1880.00	661	GSM 1900	GPRS	27.5	25.68	0.03	0 mm	B	1925S	3	1:2.76	right	0.486	1.521	0.739	
1880.00	661	GSM 1900	GPRS	21.3	21.09	0.02	0 mm	B	1925S	4	1:2.076	back	1.470	1.050	1.544	
1880.00	661	GSM 1900	GPRS	21.3	21.09	-0.02	0 mm	B	1925S	4	1:2.076	front	1.260	1.050	1.323	
1850.20	512	GSM 1900	GPRS	21.3	21.06	-0.05	0 mm	B	1925S	4	1:2.076	bottom	1.860	1.057	1.966	
1880.00	661	GSM 1900	GPRS	21.3	21.09	0.10	0 mm	B	1925S	4	1:2.076	bottom	2.560	1.050	2.688	A149
1909.80	810	GSM 1900	GPRS	21.3	21.08	-0.05	0 mm	B	1925S	4	1:2.076	bottom	1.980	1.052	2.083	
1880.00	661	GSM 1900	GPRS	21.3	21.09	0.10	0 mm	B	1925S	4	1:2.076	bottom	2.300	1.050	2.415	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT							UMPC Extremity									
Spatial Peak							4.0 W/kg (mW/g)									
Uncontrolled Exposure/General Population							averaged over 10 grams									

Note: Blue entry represents variability measurement.

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Table 11-120
UMTS UMPC Extremity SAR

MEASUREMENT RESULTS																
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Tune State	Power Drift [dB]	Spacing	Antenna Config.	Device Serial Number	Duty Cycle	Side	SAR (10g)	Scaling Factor	Reported SAR (10g)	Plot #
MHz	Ch.												(W/kg)		(W/kg)	
836.60	4183	UMTS 850	RMC	25.8	24.48	108	0.13	0 mm	A + B	1940S	1:1	back	0.994	1.355	1.347	A150
836.60	4183	UMTS 850	RMC	25.8	24.48	108	-0.01	0 mm	A + B	1940S	1:1	front	0.867	1.355	1.175	
836.60	4183	UMTS 850	RMC	25.8	24.48	108	-0.03	0 mm	A + B	1940S	1:1	bottom	0.656	1.355	0.889	
836.60	4183	UMTS 850	RMC	25.8	24.48	108	-0.02	0 mm	A + B	1940S	1:1	right	0.976	1.355	1.322	
1732.40	1412	UMTS 1750	RMC	25.0	24.35	N/A	0.06	12 mm	B	1930S	1:1	back	0.384	1.161	0.446	
1732.40	1412	UMTS 1750	RMC	25.0	24.35	N/A	-0.08	9 mm	B	1930S	1:1	front	0.455	1.161	0.528	
1732.40	1412	UMTS 1750	RMC	25.0	24.35	N/A	-0.02	16 mm	B	1930S	1:1	bottom	0.290	1.161	0.337	
1732.40	1412	UMTS 1750	RMC	25.0	24.35	N/A	-0.02	0 mm	B	1930S	1:1	right	0.864	1.161	1.003	
1752.60	1513	UMTS 1750	RMC	19.0	17.69	N/A	-0.10	0 mm	B	1930S	1:1	back	1.010	1.352	1.366	
1752.60	1513	UMTS 1750	RMC	19.0	17.69	N/A	0.07	0 mm	B	1930S	1:1	front	0.898	1.352	1.214	
1712.40	1312	UMTS 1750	RMC	19.0	17.21	N/A	-0.02	0 mm	B	1930S	1:1	bottom	1.890	1.510	2.854	A151
1732.40	1412	UMTS 1750	RMC	19.0	17.50	N/A	-0.02	0 mm	B	1930S	1:1	bottom	1.810	1.413	2.558	
1752.60	1513	UMTS 1750	RMC	19.0	17.69	N/A	-0.03	0 mm	B	1930S	1:1	bottom	1.780	1.352	2.407	
1880.00	9400	UMTS 1900	RMC	25.0	24.04	N/A	-0.04	12 mm	B	1930S	1:1	back	0.504	1.247	0.628	
1880.00	9400	UMTS 1900	RMC	25.0	24.04	N/A	0.00	9 mm	B	1930S	1:1	front	0.605	1.247	0.754	
1880.00	9400	UMTS 1900	RMC	25.0	24.04	N/A	-0.07	16 mm	B	1930S	1:1	bottom	0.465	1.247	0.580	
1880.00	9400	UMTS 1900	RMC	25.0	24.04	N/A	0.10	0 mm	B	1930S	1:1	right	0.636	1.247	0.793	
1852.40	9262	UMTS 1900	RMC	19.0	18.50	N/A	-0.10	0 mm	B	1930S	1:1	back	0.849	1.122	0.953	
1852.40	9262	UMTS 1900	RMC	19.0	18.50	N/A	0.00	0 mm	B	1930S	1:1	front	0.787	1.122	0.883	
1852.40	9262	UMTS 1900	RMC	19.0	18.50	N/A	-0.02	0 mm	B	1930S	1:1	bottom	1.760	1.122	1.975	
1880.00	9400	UMTS 1900	RMC	19.0	18.12	N/A	-0.02	0 mm	B	1930S	1:1	bottom	2.050	1.225	2.511	A152
1907.60	9538	UMTS 1900	RMC	19.0	18.11	N/A	-0.03	0 mm	B	1930S	1:1	bottom	1.720	1.227	2.110	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population								UMPC Extremity 4.0 W/kg (mW/g) averaged over 10 grams								

Table 11-121
LTE Band 71 UMPC Extremity SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Tune State	Power Drift [dB]	MPR [dB]	Antenna Config.	Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (10g)	Scaling Factor	Reported SAR (10g)	Plot #	
MHz	Ch.																(W/kg)		(W/kg)		
680.50	133297	Mid	LTE Band 71	20	25.8	25.31	18	-0.11	0	A + B	1955S	QPSK	1	0	0 mm	back	1:1	0.835	1.119	0.934	
680.50	133297	Mid	LTE Band 71	20	24.8	24.31	18	-0.11	1	A + B	1955S	QPSK	50	25	0 mm	back	1:1	0.681	1.119	0.762	
680.50	133297	Mid	LTE Band 71	20	25.8	25.31	9	0.06	0	A + B	1955S	QPSK	1	0	0 mm	front	1:1	0.674	1.119	0.754	
680.50	133297	Mid	LTE Band 71	20	24.8	24.31	9	-0.01	1	A + B	1955S	QPSK	50	25	0 mm	front	1:1	0.538	1.119	0.602	
680.50	133297	Mid	LTE Band 71	20	25.8	25.31	18	0.00	0	A + B	1955S	QPSK	1	0	0 mm	bottom	1:1	1.000	1.119	1.119	
680.50	133297	Mid	LTE Band 71	20	24.8	24.31	18	0.06	1	A + B	1955S	QPSK	50	25	0 mm	bottom	1:1	0.832	1.119	0.931	
680.50	133297	Mid	LTE Band 71	20	25.8	25.31	36	-0.13	0	A + B	1955S	QPSK	1	0	0 mm	right	1:1	1.410	1.119	1.578	A153
680.50	133297	Mid	LTE Band 71	20	24.8	24.31	36	-0.18	1	A + B	1955S	QPSK	50	25	0 mm	right	1:1	1.060	1.119	1.186	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population									UMPC Extremity 4.0 W/kg (mW/g) averaged over 10 grams												

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Table 11-122
LTE Band 12 UMPC Extremity SAR

MEASUREMENT RESULTS																					
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Tune State	Power Drift [dB]	MPR [dB]	Antenna Config.	Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (10g)	Scaling Factor	Reported SAR (10g)	Plot #
MHz	Ch.																	(W/kg)		(W/kg)	
707.50	23095	Mid	LTE Band 12	10	25.8	24.48	45	-0.03	0	A + B	1955S	QPSK	1	25	0 mm	back	1:1	0.751	1.355	1.018	
707.50	23095	Mid	LTE Band 12	10	24.8	23.61	45	-0.03	1	A + B	1955S	QPSK	25	12	0 mm	back	1:1	0.625	1.315	0.822	
707.50	23095	Mid	LTE Band 12	10	25.8	24.48	45	0.00	0	A + B	1955S	QPSK	1	25	0 mm	front	1:1	0.586	1.355	0.794	
707.50	23095	Mid	LTE Band 12	10	24.8	23.61	45	-0.02	1	A + B	1955S	QPSK	25	12	0 mm	front	1:1	0.494	1.315	0.650	
707.50	23095	Mid	LTE Band 12	10	25.8	24.48	45	0.01	0	A + B	1955S	QPSK	1	25	0 mm	bottom	1:1	0.792	1.355	1.073	
707.50	23095	Mid	LTE Band 12	10	24.8	23.61	45	0.04	1	A + B	1955S	QPSK	25	12	0 mm	bottom	1:1	0.653	1.315	0.859	
707.50	23095	Mid	LTE Band 12	10	25.8	24.48	108	-0.16	0	A + B	1955S	QPSK	1	25	0 mm	right	1:1	1.120	1.355	1.518	A154
707.50	23095	Mid	LTE Band 12	10	24.8	23.61	108	-0.15	1	A + B	1955S	QPSK	25	12	0 mm	right	1:1	0.861	1.315	1.132	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population									UMPC Extremity 4.0 W/kg (mW/g) averaged over 10 grams												

Table 11-123
LTE Band 13 UMPC Extremity SAR

MEASUREMENT RESULTS																					
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Tune State	Power Drift [dB]	MPR [dB]	Antenna Config.	Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (10g)	Scaling Factor	Reported SAR (10g)	Plot #
MHz	Ch.																	(W/kg)		(W/kg)	
782.00	23230	Mid	LTE Band 13	10	25.8	24.75	0	-0.09	0	A + B	1955S	QPSK	1	49	0 mm	back	1:1	0.947	1.274	1.206	
782.00	23230	Mid	LTE Band 13	10	24.8	23.85	0	-0.09	1	A + B	1955S	QPSK	25	25	0 mm	back	1:1	0.799	1.245	0.995	
782.00	23230	Mid	LTE Band 13	10	25.8	24.75	0	0.18	0	A + B	1955S	QPSK	1	49	0 mm	front	1:1	0.727	1.274	0.926	
782.00	23230	Mid	LTE Band 13	10	24.8	23.85	0	-0.02	1	A + B	1955S	QPSK	25	25	0 mm	front	1:1	0.596	1.245	0.742	
782.00	23230	Mid	LTE Band 13	10	25.8	24.75	0	-0.01	0	A + B	1955S	QPSK	1	49	0 mm	bottom	1:1	0.721	1.274	0.919	
782.00	23230	Mid	LTE Band 13	10	24.8	23.85	0	-0.08	1	A + B	1955S	QPSK	25	25	0 mm	bottom	1:1	0.598	1.245	0.745	
782.00	23230	Mid	LTE Band 13	10	25.8	24.75	0	-0.08	0	A + B	1955S	QPSK	1	49	0 mm	right	1:1	1.130	1.274	1.440	A155
782.00	23230	Mid	LTE Band 13	10	24.8	23.85	0	-0.03	1	A + B	1955S	QPSK	25	25	0 mm	right	1:1	0.823	1.245	1.025	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population									UMPC Extremity 4.0 W/kg (mW/g) averaged over 10 grams												

Table 11-124
LTE Band 14 UMPC Extremity SAR

MEASUREMENT RESULTS																					
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Tune State	Power Drift [dB]	MPR [dB]	Antenna Config.	Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (10g)	Scaling Factor	Reported SAR (10g)	Plot #
MHz	Ch.																	(W/kg)		(W/kg)	
793.00	23330	Mid	LTE Band 14	10	25.8	24.79	0	-0.03	0	A + B	1955S	QPSK	1	0	0 mm	back	1:1	0.974	1.262	1.229	
793.00	23330	Mid	LTE Band 14	10	24.8	23.77	0	-0.03	1	A + B	1955S	QPSK	25	25	0 mm	back	1:1	0.770	1.268	0.976	
793.00	23330	Mid	LTE Band 14	10	25.8	24.79	0	-0.11	0	A + B	1955S	QPSK	1	0	0 mm	front	1:1	0.745	1.262	0.940	
793.00	23330	Mid	LTE Band 14	10	24.8	23.77	0	0.02	1	A + B	1955S	QPSK	25	25	0 mm	front	1:1	0.599	1.268	0.760	
793.00	23330	Mid	LTE Band 14	10	25.8	24.79	0	-0.01	0	A + B	1955S	QPSK	1	0	0 mm	bottom	1:1	0.672	1.262	0.848	
793.00	23330	Mid	LTE Band 14	10	24.8	23.77	0	-0.07	1	A + B	1955S	QPSK	25	25	0 mm	bottom	1:1	0.513	1.268	0.650	
793.00	23330	Mid	LTE Band 14	10	25.8	24.79	0	-0.09	0	A + B	1955S	QPSK	1	0	0 mm	right	1:1	1.130	1.262	1.426	A156
793.00	23330	Mid	LTE Band 14	10	24.8	23.77	0	-0.10	1	A + B	1955S	QPSK	25	25	0 mm	right	1:1	0.934	1.268	1.184	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population									UMPC Extremity 4.0 W/kg (mW/g) averaged over 10 grams												

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Table 11-125
LTE Band 26 (Cell) UMPC Extremity SAR

MEASUREMENT RESULTS																					
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Tune State	Power Drift [dB]	MPR [dB]	Antenna Config.	Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (10g)	Scaling Factor	Reported SAR (10g)	Plot #
MHz	Ch.																	(W/kg)		(W/kg)	
831.50	26865	Mid	LTE Band 26 (Cell)	15	25.8	24.60	108	0.09	0	A + B	1945S	QPSK	1	0	0 mm	back	1.1	0.952	1.318	1.255	A157
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.8	23.66	108	0.07	1	A + B	1945S	QPSK	36	18	0 mm	back	1.1	0.764	1.300	0.993	
831.50	26865	Mid	LTE Band 26 (Cell)	15	25.8	24.60	108	-0.06	0	A + B	1945S	QPSK	1	0	0 mm	front	1.1	0.862	1.318	1.136	
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.8	23.66	108	0.07	1	A + B	1945S	QPSK	36	18	0 mm	front	1.1	0.696	1.300	0.905	
831.50	26865	Mid	LTE Band 26 (Cell)	15	25.8	24.60	108	-0.02	0	A + B	1945S	QPSK	1	0	0 mm	bottom	1.1	0.725	1.318	0.956	
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.8	23.66	108	-0.19	1	A + B	1945S	QPSK	36	18	0 mm	bottom	1.1	0.577	1.300	0.750	
831.50	26865	Mid	LTE Band 26 (Cell)	15	25.8	24.60	108	-0.08	0	A + B	1945S	QPSK	1	0	0 mm	right	1.1	0.877	1.318	1.156	
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.8	23.66	108	-0.10	1	A + B	1945S	QPSK	36	18	0 mm	right	1.1	0.753	1.300	0.979	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population									UMPC Extremity 4.0 W/kg (mW/g) averaged over 10 grams												

Table 11-126
LTE Band 5 (Cell) UMPC Extremity SAR

MEASUREMENT RESULTS																							
1 CC Uplink / 2 CC Uplink	Component Carrier	FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Tune State	Power Drift [dB]	MPR [dB]	Antenna Config.	Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (10g)	Scaling Factor	Reported SAR (10g)	Plot #	
		MHz	Ch.																(W/kg)		(W/kg)		
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	25.8	24.09	108	0.07	0	A + B	1945S	QPSK	1	0	0 mm	back	1:1	0.939	1.483	1.393	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	24.8	23.03	108	0.12	1	A + B	1945S	QPSK	25	0	0 mm	back	1:1	0.746	1.503	1.121	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	25.8	24.09	108	0.01	0	A + B	1945S	QPSK	1	0	0 mm	front	1:1	0.871	1.483	1.292	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	24.8	23.03	108	0.00	1	A + B	1945S	QPSK	25	0	0 mm	front	1:1	0.702	1.503	1.055	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	25.8	24.09	108	-0.15	0	A + B	1945S	QPSK	1	0	0 mm	bottom	1:1	0.613	1.483	0.909	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	24.8	23.03	108	-0.15	1	A + B	1945S	QPSK	25	0	0 mm	bottom	1:1	0.496	1.503	0.745	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	25.8	24.09	108	-0.08	0	A + B	1945S	QPSK	1	0	0 mm	right	1:1	1.000	1.483	1.483	A158
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	24.8	23.03	108	-0.07	1	A + B	1945S	QPSK	25	0	0 mm	right	1:1	0.791	1.503	1.189	
2 CC Uplink	PCC	836.50	20525	Mid	LTE Band 5 (Cell)	10	25.8	23.90	108	-0.13	0	A + B	1945S	QPSK	1	0	0 mm	right	1:1	0.955	1.549	1.479	
	SCC	829.30	20453			5									1	24							
ANSI / IEEE C95.1 1992 - SAFETY LIMIT											UMPC Extremity												
Spatial Peak											4.0 W/kg (mW/g)												
Uncontrolled Exposure/General Population											averaged over 10 grams												

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Table 11-127
LTE Band 66 (AWS) UMPC Extremity SAR

MEASUREMENT RESULTS																						
1 CC Uplink 2 CC Uplink	Component Carrier	FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (10g)	Scaling Factor	Reported SAR (10g)	Plot #	
		MHz	Ch.															(W/kg)		(W/kg)		
1 CC Uplink	N/A	1745.00	132322	Mid	LTE Band 66 (AWS)	20	25.5	24.24	0.01	0	B	2021M	QPSK	1	50	12 mm	back	1:1	0.343	1.337	0.459	
1 CC Uplink	N/A	1745.00	132322	Mid	LTE Band 66 (AWS)	20	24.5	23.37	0.00	1	B	2021M	QPSK	50	25	12 mm	back	1:1	0.278	1.297	0.361	
1 CC Uplink	N/A	1745.00	132322	Mid	LTE Band 66 (AWS)	20	25.5	24.24	-0.08	0	B	2021M	QPSK	1	50	9 mm	front	1:1	0.455	1.337	0.608	
1 CC Uplink	N/A	1745.00	132322	Mid	LTE Band 66 (AWS)	20	24.5	23.37	-0.02	1	B	2021M	QPSK	50	25	9 mm	front	1:1	0.367	1.297	0.476	
1 CC Uplink	N/A	1745.00	132322	Mid	LTE Band 66 (AWS)	20	25.5	24.24	-0.01	0	B	2021M	QPSK	1	50	16 mm	bottom	1:1	0.305	1.337	0.408	
1 CC Uplink	N/A	1745.00	132322	Mid	LTE Band 66 (AWS)	20	24.5	23.37	-0.01	1	B	2021M	QPSK	50	25	16 mm	bottom	1:1	0.248	1.297	0.322	
1 CC Uplink	N/A	1745.00	132322	Mid	LTE Band 66 (AWS)	20	25.5	24.24	0.05	0	B	2021M	QPSK	1	50	0 mm	right	1:1	1.040	1.337	1.390	
1 CC Uplink	N/A	1745.00	132322	Mid	LTE Band 66 (AWS)	20	24.5	23.37	0.02	1	B	2021M	QPSK	50	25	0 mm	right	1:1	0.862	1.297	1.118	
1 CC Uplink	N/A	1745.00	132322	Mid	LTE Band 66 (AWS)	20	19.0	18.10	-0.02	0	B	2021M	QPSK	1	50	0 mm	back	1:1	0.796	1.230	0.979	
1 CC Uplink	N/A	1745.00	132322	Mid	LTE Band 66 (AWS)	20	19.0	18.19	-0.03	0	B	2021M	QPSK	50	25	0 mm	back	1:1	0.811	1.205	0.977	
1 CC Uplink	N/A	1745.00	132322	Mid	LTE Band 66 (AWS)	20	19.0	18.10	0.03	0	B	2021M	QPSK	1	50	0 mm	front	1:1	0.760	1.230	0.935	
1 CC Uplink	N/A	1745.00	132322	Mid	LTE Band 66 (AWS)	20	19.0	18.19	-0.01	0	B	2021M	QPSK	50	25	0 mm	front	1:1	0.791	1.205	0.953	
1 CC Uplink	N/A	1720.00	132072	Low	LTE Band 66 (AWS)	20	19.0	17.70	0.00	0	B	2021M	QPSK	1	50	0 mm	bottom	1:1	1.540	1.349	2.077	
1 CC Uplink	N/A	1745.00	132322	Mid	LTE Band 66 (AWS)	20	19.0	18.10	-0.09	0	B	2021M	QPSK	1	50	0 mm	bottom	1:1	1.650	1.230	2.030	
1 CC Uplink	N/A	1770.00	132572	High	LTE Band 66 (AWS)	20	19.0	18.02	-0.01	0	B	2021M	QPSK	1	0	0 mm	bottom	1:1	1.630	1.253	2.042	
1 CC Uplink	N/A	1720.00	132072	Low	LTE Band 66 (AWS)	20	19.0	18.09	-0.03	0	B	2021M	QPSK	50	25	0 mm	bottom	1:1	1.630	1.233	2.010	
1 CC Uplink	N/A	1745.00	132322	Mid	LTE Band 66 (AWS)	20	19.0	18.19	-0.01	0	B	2021M	QPSK	50	25	0 mm	bottom	1:1	1.660	1.205	2.000	
1 CC Uplink	N/A	1770.00	132572	High	LTE Band 66 (AWS)	20	19.0	18.01	0.00	0	B	2021M	QPSK	50	0	0 mm	bottom	1:1	1.580	1.256	1.984	
1 CC Uplink	N/A	1770.00	132572	High	LTE Band 66 (AWS)	20	19.0	18.04	-0.02	0	B	2021M	QPSK	50	25	0 mm	bottom	1:1	1.730	1.247	2.157	
1 CC Uplink	N/A	1745.00	132322	Mid	LTE Band 66 (AWS)	20	19.0	18.09	0.03	0	B	2021M	QPSK	100	0	0 mm	bottom	1:1	1.700	1.233	2.096	
1 CC Uplink	N/A	1775.00	132622	High	LTE Band 66 (AWS)	10	19.0	17.92	-0.03	0	B	2021M	QPSK	25	0	0 mm	bottom	1:1	1.540	1.282	1.974	
2 CC Uplink CA_66C	PCC	1770.00	132572	High	LTE Band 66 (AWS)	20	19.0	18.03	-0.03	0	B	2021M	QPSK	50	0	0 mm	bottom	1:1	1.600	1.250	2.000	
	SCC	1750.20	132374												50							
2 CC Uplink CA_66B	PCC	1775.00	132622	High	LTE Band 66 (AWS)	10	19.0	17.97	-0.01	0	B	2021M	QPSK	25	0	0 mm	bottom	1:1	1.570	1.268	1.991	
	SCC	1765.10	132523												25							
1 CC Uplink	N/A	1720.00	132072	Low	LTE Band 66 (AWS)	20	20.5	20.14	-0.14	0	E	0241M	QPSK	1	50	0 mm	back	1:1	1.310	1.086	1.423	
1 CC Uplink	N/A	1720.00	132072	Low	LTE Band 66 (AWS)	20	20.5	20.33	-0.16	0	E	0241M	QPSK	50	25	0 mm	back	1:1	1.340	1.040	1.394	
1 CC Uplink	N/A	1720.00	132072	Low	LTE Band 66 (AWS)	20	20.5	20.14	0.01	0	E	0241M	QPSK	1	50	0 mm	front	1:1	1.120	1.086	1.216	
1 CC Uplink	N/A	1720.00	132072	Low	LTE Band 66 (AWS)	20	20.5	20.33	-0.03	0	E	0241M	QPSK	50	25	0 mm	front	1:1	1.160	1.040	1.206	
1 CC Uplink	N/A	1720.00	132072	Low	LTE Band 66 (AWS)	20	20.5	20.14	-0.03	0	E	0241M	QPSK	1	50	0 mm	top	1:1	1.980	1.086	2.150	
1 CC Uplink	N/A	1745.00	132322	Mid	LTE Band 66 (AWS)	20	20.5	19.43	0.00	0	E	0241M	QPSK	1	0	0 mm	top	1:1	1.710	1.279	2.187	
1 CC Uplink	N/A	1770.00	132572	High	LTE Band 66 (AWS)	20	20.5	19.64	-0.04	0	E	0241M	QPSK	1	50	0 mm	top	1:1	1.820	1.219	2.219	
1 CC Uplink	N/A	1720.00	132072	Low	LTE Band 66 (AWS)	20	20.5	20.33	-0.05	0	E	0241M	QPSK	50	25	0 mm	top	1:1	2.150	1.040	2.236	A159
1 CC Uplink	N/A	1745.00	132322	Mid	LTE Band 66 (AWS)	20	20.5	19.67	-0.06	0	E	0241M	QPSK	50	0	0 mm	top	1:1	1.850	1.211	2.240	
1 CC Uplink	N/A	1770.00	132572	High	LTE Band 66 (AWS)	20	20.5	19.77	-0.07	0	E	0241M	QPSK	50	25	0 mm	top	1:1	1.920	1.183	2.271	
1 CC Uplink	N/A	1720.00	132072	Low	LTE Band 66 (AWS)	20	20.5	20.12	-0.05	0	E	0241M	QPSK	100	0	0 mm	top	1:1	2.030	1.091	2.215	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population										UMPC Extremity 4.0 W/kg (mW/g) averaged over 10 grams												

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Table 11-128
LTE Band 25 (PCS) UMPC Extremity SAR

MEASUREMENT RESULTS																				
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (10g)	Scaling Factor	Reported SAR (10g)	Plot #
MHz	Ch.	(W/kg)															(W/kg)			
1905.00	26590	High	LTE Band 25 (PCS)	20	25.5	24.30	-0.02	0	B	1960S	QPSK	1	99	12 mm	back	1:1	0.369	1.318	0.486	
1905.00	26590	High	LTE Band 25 (PCS)	20	24.5	23.33	0.01	1	B	1960S	QPSK	50	50	12 mm	back	1:1	0.280	1.309	0.367	
1905.00	26590	High	LTE Band 25 (PCS)	20	25.5	24.30	-0.01	0	B	1960S	QPSK	1	99	9 mm	front	1:1	0.493	1.318	0.650	
1905.00	26590	High	LTE Band 25 (PCS)	20	24.5	23.33	0.00	1	B	1960S	QPSK	50	50	9 mm	front	1:1	0.378	1.309	0.495	
1905.00	26590	High	LTE Band 25 (PCS)	20	25.5	24.30	0.02	0	B	1960S	QPSK	1	99	16 mm	bottom	1:1	0.338	1.318	0.445	
1905.00	26590	High	LTE Band 25 (PCS)	20	24.5	23.33	0.04	1	B	1960S	QPSK	50	50	16 mm	bottom	1:1	0.273	1.309	0.357	
1905.00	26590	High	LTE Band 25 (PCS)	20	25.5	24.30	0.02	0	B	1960S	QPSK	1	99	0 mm	right	1:1	1.080	1.318	1.423	
1905.00	26590	High	LTE Band 25 (PCS)	20	24.5	23.33	0.11	1	B	1960S	QPSK	50	50	0 mm	right	1:1	0.720	1.309	0.942	
1905.00	26590	High	LTE Band 25 (PCS)	20	19.0	17.92	-0.02	0	B	1960S	QPSK	1	99	0 mm	back	1:1	0.641	1.282	0.822	
1905.00	26590	High	LTE Band 25 (PCS)	20	19.0	18.06	-0.01	0	B	1960S	QPSK	50	50	0 mm	back	1:1	0.690	1.242	0.857	
1905.00	26590	High	LTE Band 25 (PCS)	20	19.0	17.92	0.00	0	B	1960S	QPSK	1	99	0 mm	front	1:1	0.613	1.282	0.786	
1905.00	26590	High	LTE Band 25 (PCS)	20	19.0	18.06	0.00	0	B	1960S	QPSK	50	50	0 mm	front	1:1	0.617	1.242	0.766	
1905.00	26590	High	LTE Band 25 (PCS)	20	19.0	17.92	-0.07	0	B	1960S	QPSK	1	99	0 mm	bottom	1:1	1.430	1.282	1.833	
1860.00	26140	Low	LTE Band 25 (PCS)	20	19.0	17.98	-0.03	0	B	1960S	QPSK	50	50	0 mm	bottom	1:1	1.570	1.265	1.986	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	19.0	17.99	-0.09	0	B	1960S	QPSK	50	50	0 mm	bottom	1:1	1.690	1.262	2.133	
1905.00	26590	High	LTE Band 25 (PCS)	20	19.0	18.06	-0.02	0	B	1960S	QPSK	50	50	0 mm	bottom	1:1	1.480	1.242	1.838	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	19.0	17.88	0.11	0	B	1960S	QPSK	100	0	0 mm	bottom	1:1	1.750	1.294	2.265	A160
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population								UMPC Extremity 4.0 W/kg (mW/g) averaged over 10 grams												

Table 11-129
LTE Band 30 UMPC Extremity SAR

MEASUREMENT RESULTS																				
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (10g)	Scaling Factor	Reported SAR (10g)	Plot #
MHz	Ch.																(W/kg)		(W/kg)	
2310.00	27710	Mid	LTE Band 30	10	22.5	21.26	-0.03	0	B	1950S	QPSK	1	49	12 mm	back	1:1	0.361	1.330	0.480	
2310.00	27710	Mid	LTE Band 30	10	22.5	21.36	0.02	0	B	1950S	QPSK	25	12	12 mm	back	1:1	0.370	1.300	0.481	
2310.00	27710	Mid	LTE Band 30	10	22.5	21.26	-0.02	0	B	1950S	QPSK	1	49	9 mm	front	1:1	0.468	1.330	0.622	
2310.00	27710	Mid	LTE Band 30	10	22.5	21.36	-0.02	0	B	1950S	QPSK	25	12	9 mm	front	1:1	0.476	1.300	0.619	
2310.00	27710	Mid	LTE Band 30	10	22.5	21.26	-0.06	0	B	1950S	QPSK	1	49	16 mm	bottom	1:1	0.418	1.330	0.556	
2310.00	27710	Mid	LTE Band 30	10	22.5	21.36	-0.01	0	B	1950S	QPSK	25	12	16 mm	bottom	1:1	0.416	1.300	0.541	
2310.00	27710	Mid	LTE Band 30	10	22.5	21.26	-0.04	0	B	1950S	QPSK	1	49	0 mm	right	1:1	0.458	1.330	0.609	
2310.00	27710	Mid	LTE Band 30	10	22.5	21.36	0.00	0	B	1950S	QPSK	25	12	0 mm	right	1:1	0.474	1.300	0.616	
2310.00	27710	Mid	LTE Band 30	10	17.0	16.63	-0.02	0	B	1950S	QPSK	1	49	0 mm	back	1:1	1.010	1.089	1.100	
2310.00	27710	Mid	LTE Band 30	10	17.0	16.57	0.00	0	B	1950S	QPSK	25	12	0 mm	back	1:1	1.030	1.104	1.137	
2310.00	27710	Mid	LTE Band 30	10	17.0	16.63	0.00	0	B	1950S	QPSK	1	49	0 mm	front	1:1	1.010	1.089	1.100	
2310.00	27710	Mid	LTE Band 30	10	17.0	16.57	-0.01	0	B	1950S	QPSK	25	12	0 mm	front	1:1	1.030	1.104	1.137	
2310.00	27710	Mid	LTE Band 30	10	17.0	16.63	-0.12	0	B	1950S	QPSK	1	49	0 mm	bottom	1:1	2.150	1.089	2.341	
2310.00	27710	Mid	LTE Band 30	10	17.0	16.57	-0.02	0	B	1950S	QPSK	25	12	0 mm	bottom	1:1	2.180	1.104	2.407	A161
2310.00	27710	Mid	LTE Band 30	10	17.0	16.43	0.01	0	B	1950S	QPSK	50	0	0 mm	bottom	1:1	2.140	1.140	2.440	
2310.00	27710	Mid	LTE Band 30	10	17.0	16.57	-0.02	0	B	1950S	QPSK	25	12	0 mm	bottom	1:1	2.150	1.104	2.374	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population								UMPC Extremity 4.0 W/kg (mW/g) averaged over 10 grams												

Note: Blue entry represents variability measurement.

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Table 11-130
LTE Band 7 UMPC Extremity SAR

MEASUREMENT RESULTS																				
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (10g)	Scaling Factor	Reported SAR (10g)	Plot #
MHz	Ch.																(W/kg)		(W/kg)	
2510.00	20850	Low	LTE Band 7	20	22.5	21.67	0.05	0	B	1631M	QPSK	1	99	12 mm	back	1:1	0.268	1.211	0.325	
2510.00	20850	Low	LTE Band 7	20	22.5	21.75	0.06	0	B	1631M	QPSK	50	25	12 mm	back	1:1	0.291	1.189	0.346	
2510.00	20850	Low	LTE Band 7	20	22.5	21.67	0.00	0	B	1631M	QPSK	1	99	9 mm	front	1:1	0.368	1.211	0.446	
2510.00	20850	Low	LTE Band 7	20	22.5	21.75	0.02	0	B	1631M	QPSK	50	25	9 mm	front	1:1	0.389	1.189	0.463	
2510.00	20850	Low	LTE Band 7	20	22.5	21.67	0.03	0	B	1631M	QPSK	1	99	16 mm	bottom	1:1	0.290	1.211	0.351	
2510.00	20850	Low	LTE Band 7	20	22.5	21.75	0.00	0	B	1631M	QPSK	50	25	16 mm	bottom	1:1	0.311	1.189	0.370	
2510.00	20850	Low	LTE Band 7	20	22.5	21.67	0.04	0	B	1631M	QPSK	1	99	0 mm	right	1:1	0.238	1.211	0.288	
2510.00	20850	Low	LTE Band 7	20	22.5	21.75	0.01	0	B	1631M	QPSK	50	25	0 mm	right	1:1	0.278	1.189	0.331	
2510.00	20850	Low	LTE Band 7	20	18.0	17.21	0.01	0	B	1631M	QPSK	1	0	0 mm	back	1:1	1.050	1.199	1.259	
2510.00	20850	Low	LTE Band 7	20	18.0	17.29	0.01	0	B	1631M	QPSK	50	25	0 mm	back	1:1	1.060	1.178	1.249	
2510.00	20850	Low	LTE Band 7	20	18.0	17.21	-0.04	0	B	1631M	QPSK	1	0	0 mm	front	1:1	0.943	1.199	1.131	
2510.00	20850	Low	LTE Band 7	20	18.0	17.29	0.00	0	B	1631M	QPSK	50	25	0 mm	front	1:1	0.948	1.178	1.117	
2510.00	20850	Low	LTE Band 7	20	18.0	17.21	-0.01	0	B	1631M	QPSK	1	0	0 mm	bottom	1:1	1.920	1.199	2.302	
2535.00	21100	Mid	LTE Band 7	20	18.0	17.10	-0.07	0	B	1631M	QPSK	1	99	0 mm	bottom	1:1	1.710	1.230	2.103	
2560.00	21350	High	LTE Band 7	20	18.0	17.01	0.00	0	B	1631M	QPSK	1	0	0 mm	bottom	1:1	1.730	1.256	2.173	
2510.00	20850	Low	LTE Band 7	20	18.0	17.29	-0.01	0	B	1631M	QPSK	50	25	0 mm	bottom	1:1	1.940	1.178	2.285	A162
2535.00	21100	Mid	LTE Band 7	20	18.0	17.18	0.00	0	B	1631M	QPSK	50	25	0 mm	bottom	1:1	1.800	1.208	2.174	
2560.00	21350	High	LTE Band 7	20	18.0	17.11	-0.01	0	B	1631M	QPSK	50	50	0 mm	bottom	1:1	1.690	1.227	2.074	
2510.00	20850	Low	LTE Band 7	20	18.0	17.20	0.01	0	B	1631M	QPSK	100	0	0 mm	bottom	1:1	1.870	1.202	2.248	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT								UMPC Extremity												
Spatial Peak								4.0 W/kg (mW/g)												
Uncontrolled Exposure/General Population								averaged over 10 grams												

Table 11-131
LTE Band 48 UMPC Extremity SAR

MEASUREMENT RESULTS																						
1 CC Uplink 2 CC Uplink	Component Carrier	FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (10g)	Scaling Factor	Reported SAR (10g)	Plot #	
		MHz	Ch.															(W/kg)		(W/kg)		
1 CC Uplink	N/A	3646.70	56207	Mid-High	LTE Band 48	20	20.5	20.10	-0.01	0	E	0330M	QPSK	1	99	0 mm	back	1:1.58	0.729	1.096	0.799	
1 CC Uplink	N/A	3646.70	56207	Mid-High	LTE Band 48	20	20.5	20.20	0.04	0	E	0330M	QPSK	50	25	0 mm	back	1:1.58	0.721	1.072	0.773	
1 CC Uplink	N/A	3646.70	56207	Mid-High	LTE Band 48	20	20.5	20.10	0.00	0	E	0330M	QPSK	1	99	0 mm	front	1:1.58	0.814	1.096	0.892	
1 CC Uplink	N/A	3646.70	56207	Mid-High	LTE Band 48	20	20.5	20.20	0.00	0	E	0330M	QPSK	50	25	0 mm	front	1:1.58	0.814	1.072	0.873	
1 CC Uplink	N/A	3560.00	55340	Low	LTE Band 48	20	20.5	20.07	0.02	0	E	0330M	QPSK	1	50	0 mm	top	1:1.58	1.470	1.104	1.623	
1 CC Uplink	N/A	3603.30	55773	Low-Mid	LTE Band 48	20	20.5	20.05	0.01	0	E	0330M	QPSK	1	50	0 mm	top	1:1.58	1.570	1.109	1.741	
1 CC Uplink	N/A	3646.70	56207	Mid-High	LTE Band 48	20	20.5	20.10	0.01	0	E	0330M	QPSK	1	99	0 mm	top	1:1.58	1.830	1.096	2.006	
1 CC Uplink	N/A	3690.00	56640	High	LTE Band 48	20	20.5	20.04	-0.01	0	E	0330M	QPSK	1	50	0 mm	top	1:1.58	1.890	1.112	2.102	
1 CC Uplink	N/A	3560.00	55340	Low	LTE Band 48	20	20.5	20.13	0.00	0	E	0330M	QPSK	50	25	0 mm	top	1:1.58	1.500	1.089	1.634	
1 CC Uplink	N/A	3603.30	55773	Low-Mid	LTE Band 48	20	20.5	20.10	0.02	0	E	0330M	QPSK	50	25	0 mm	top	1:1.58	1.650	1.096	1.808	
1 CC Uplink	N/A	3646.70	56207	Mid-High	LTE Band 48	20	20.5	20.20	0.01	0	E	0330M	QPSK	50	25	0 mm	top	1:1.58	1.850	1.072	1.983	
1 CC Uplink	N/A	3690.00	56640	High	LTE Band 48	20	20.5	19.98	-0.02	0	E	0330M	QPSK	50	0	0 mm	top	1:1.58	1.990	1.127	2.243	
1 CC Uplink	N/A	3690.00	56640	High	LTE Band 48	20	20.5	20.04	0.02	0	E	0330M	QPSK	50	25	0 mm	top	1:1.58	1.920	1.112	2.135	
1 CC Uplink	N/A	3603.30	55773	Low-Mid	LTE Band 48	20	20.5	20.06	0.02	0	E	0330M	QPSK	100	0	0 mm	top	1:1.58	1.790	1.107	1.982	
2 CC Uplink	PCC	3690.00	56640	High	LTE Band 48	20	20.5	20.06	0.03	0	E	0330M	QPSK	50	0	0 mm	top	1:1.58	2.070	1.107	2.291	A163
	SCC	3670.20	56442												50							
ANSI / IEEE C95.1 1992 - SAFETY LIMIT										UMPC Extremity												
Spatial Peak										4.0 W/kg (mW/g)												
Uncontrolled Exposure/General Population										averaged over 10 grams												

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Table 11-132
LTE Band 41 UMPC Extremity SAR

MEASUREMENT RESULTS																						
1 CC Uplink / 2 CC Uplink, Power Class	Component Carrier	FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Antenna Config.	Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (10g)	Scaling Factor	Reported SAR (10g)	Plot #	
		MHz	Ch.															(W/kg)		(W/kg)		
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	23.0	22.31	0.16	0	B	1577M	QPSK	1	50	12 mm	back	1:1.58	0.117	1.172	0.137	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	23.0	22.45	0.02	0	B	1577M	QPSK	50	50	12 mm	back	1:1.58	0.118	1.135	0.134	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	23.0	22.31	0.06	0	B	1577M	QPSK	1	50	9 mm	front	1:1.58	0.161	1.172	0.189	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	23.0	22.45	0.06	0	B	1577M	QPSK	50	50	9 mm	front	1:1.58	0.166	1.135	0.188	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	23.0	22.31	-0.02	0	B	1577M	QPSK	1	50	16 mm	bottom	1:1.58	0.136	1.172	0.159	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	23.0	22.45	0.03	0	B	1577M	QPSK	50	50	16 mm	bottom	1:1.58	0.138	1.135	0.157	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	23.0	22.31	0.07	0	B	1577M	QPSK	1	50	0 mm	right	1:1.58	0.108	1.172	0.127	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	23.0	22.45	0.10	0	B	1577M	QPSK	50	50	0 mm	right	1:1.58	0.111	1.135	0.126	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	19.0	18.42	0.01	0	B	1577M	QPSK	1	50	0 mm	back	1:1.58	0.346	1.143	0.395	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	19.0	18.51	-0.01	0	B	1577M	QPSK	50	50	0 mm	back	1:1.58	0.350	1.119	0.392	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	19.0	18.42	-0.04	0	B	1577M	QPSK	1	50	0 mm	front	1:1.58	0.528	1.143	0.604	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	19.0	18.51	0.02	0	B	1577M	QPSK	50	50	0 mm	front	1:1.58	0.530	1.119	0.593	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	19.0	18.11	0.05	0	B	1577M	QPSK	1	50	0 mm	bottom	1:1.58	1.340	1.227	1.644	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	19.0	17.98	-0.01	0	B	1577M	QPSK	1	50	0 mm	bottom	1:1.58	1.270	1.265	1.607	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	19.0	17.83	0.04	0	B	1577M	QPSK	1	50	0 mm	bottom	1:1.58	1.250	1.309	1.636	
1 CC Uplink - Power Class 3	N/A	2636.50	41055	Mid-High	LTE Band 41	20	19.0	17.85	0.00	0	B	1577M	QPSK	1	50	0 mm	bottom	1:1.58	1.250	1.303	1.629	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	19.0	18.42	0.00	0	B	1577M	QPSK	1	50	0 mm	bottom	1:1.58	1.360	1.143	1.554	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	19.0	18.16	0.00	0	B	1577M	QPSK	50	25	0 mm	bottom	1:1.58	1.370	1.213	1.662	A164
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	19.0	18.09	0.00	0	B	1577M	QPSK	50	50	0 mm	bottom	1:1.58	1.330	1.233	1.640	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	19.0	18.04	0.01	0	B	1577M	QPSK	50	25	0 mm	bottom	1:1.58	1.290	1.247	1.609	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	19.0	17.97	-0.01	0	B	1577M	QPSK	50	25	0 mm	bottom	1:1.58	1.290	1.268	1.636	
1 CC Uplink - Power Class 3	N/A	2636.50	41055	Mid-High	LTE Band 41	20	19.0	18.02	0.04	0	B	1577M	QPSK	50	25	0 mm	bottom	1:1.58	1.290	1.253	1.616	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	19.0	18.51	0.02	0	B	1577M	QPSK	50	50	0 mm	bottom	1:1.58	1.370	1.119	1.533	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	19.0	18.33	-0.01	0	B	1577M	QPSK	100	0	0 mm	bottom	1:1.58	1.340	1.167	1.564	
1 CC Uplink - Power Class 2	N/A	2506.00	39750	Low	LTE Band 41	20	20.6	19.92	0.03	0	B	1577M	QPSK	50	25	0 mm	bottom	1:2.31	1.370	1.169	1.602	
1 CC Uplink - Power Class 2	N/A	2506.00	39750	Low	LTE Band 41	20	20.6	19.85	0.04	0	B	1577M	QPSK	50	50	0 mm	bottom	1:2.31	1.350	1.189	1.605	
2 CC Uplink - Power Class 3	PCC	2506.00	39750	Low	LTE Band 41	20	19.0	18.00	0.02	0	B	1577M	QPSK	50	50	0 mm	bottom	1:1.58	1.320	1.259	1.662	
	SCC	2525.80	39948																			
2 CC Uplink - Power Class 2	PCC	2506.00	39750	Low	LTE Band 41	20	20.6	19.92	0.00	0	B	1577M	QPSK	50	50	0 mm	bottom	1:2.31	1.340	1.169	1.566	
	SCC	2525.80	39948																			
ANSI / IEEE C95.1 1992 - SAFETY LIMIT										UMPC Extremity												
Spatial Peak										4.0 W/kg (mW/g)												
Uncontrolled Exposure/General Population										averaged over 10 grams												

Table 11-133
NR Band n71 UMPC Extremity SAR

MEASUREMENT RESULTS																						
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Antenna Config	Power Drift [dB]	MPR [dB]	Antenna State	Serial Number	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (10g)	Scaling Factor	Reported SAR (10g)	Plot #	
MHz	Ch.																	(W/kg)		(W/kg)		
680.50	136100	Mid	NR Band n71	20	25.5	24.48	A + B	-0.18	0	18	2524R	DFT-S-OFDM	QPSK	1	1	0 mm	back	1:1	0.710	1.265	0.898	
680.50	136100	Mid	NR Band n71	20	25.5	24.34	A + B	-0.02	0	18	2524R	DFT-S-OFDM	QPSK	50	28	0 mm	back	1:1	0.708	1.306	0.925	
680.50	136100	Mid	NR Band n71	20	25.5	24.48	A + B	0.01	0	9	2524R	DFT-S-OFDM	QPSK	1	1	0 mm	front	1:1	0.671	1.265	0.849	
680.50	136100	Mid	NR Band n71	20	25.5	24.34	A + B	0.02	0	9	2524R	DFT-S-OFDM	QPSK	50	28	0 mm	front	1:1	0.668	1.306	0.872	
680.50	136100	Mid	NR Band n71	20	25.5	24.48	A + B	0.09	0	18	2524R	DFT-S-OFDM	QPSK	1	1	0 mm	bottom	1:1	1.000	1.265	1.265	A165
680.50	136100	Mid	NR Band n71	20	25.5	24.34	A + B	0.04	0	18	2524R	DFT-S-OFDM	QPSK	50	28	0 mm	bottom	1:1	0.991	1.306	1.294	
680.50	136100	Mid	NR Band n71	20	24.0	22.90	A + B	0.02	1.5	18	2524R	CP-OFDM	QPSK	1	1	0 mm	bottom	1:1	0.651	1.288	0.838	
680.50	136100	Mid	NR Band n71	20	25.5	24.48	A + B	0.02	0	36	2524R	DFT-S-OFDM	QPSK	1	1	0 mm	right	1:1	0.929	1.265	1.175	
680.50	136100	Mid	NR Band n71	20	25.5	24.34	A + B	-0.07	0	36	2524R	DFT-S-OFDM	QPSK	50	28	0 mm	right	1:1	0.834	1.306	1.089	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population									UMPC Extremity 4.0 W/kg (mW/g) averaged over 10 grams													

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Table 11-134
NR Band n12 UMPC Extremity SAR

MEASUREMENT RESULTS																			
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Antenna Config	Power Drift [dB]	MPR [dB]	Antenna State	Serial Number	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (10g)	Reported SAR (10g) (W/kg)
MHz	Ch.																	(W/kg)	
707.50	141500	Mid	NR Band n12	15	25.5	24.02	A + B	-0.04	0	45	2524R	DFT-S-OFDM	QPSK	1	40	0 mm	back	1.1	0.972
707.50	141500	Mid	NR Band n12	15	25.5	23.90	A + B	-0.05	0	45	2524R	DFT-S-OFDM	QPSK	36	22	0 mm	back	1.1	0.958
707.50	141500	Mid	NR Band n12	15	25.5	24.02	A + B	0.00	0	45	2524R	DFT-S-OFDM	QPSK	1	40	0 mm	front	1.1	0.778
707.50	141500	Mid	NR Band n12	15	25.5	23.90	A + B	-0.02	0	45	2524R	DFT-S-OFDM	QPSK	36	22	0 mm	front	1.1	0.768
707.50	141500	Mid	NR Band n12	15	25.5	24.02	A + B	0.18	0	45	2524R	DFT-S-OFDM	QPSK	1	40	0 mm	bottom	1.1	0.994
707.50	141500	Mid	NR Band n12	15	25.5	23.90	A + B	0.13	0	45	2524R	DFT-S-OFDM	QPSK	36	22	0 mm	bottom	1.1	0.986
707.50	141500	Mid	NR Band n12	15	25.5	24.02	A + B	-0.01	0	108	2524R	DFT-S-OFDM	QPSK	1	40	0 mm	right	1.1	1.180
707.50	141500	Mid	NR Band n12	15	25.5	23.90	A + B	0.01	0	108	2524R	DFT-S-OFDM	QPSK	36	22	0 mm	right	1.1	1.180
707.50	141500	Mid	NR Band n12	15	24.0	22.18	A + B	0.03	1.5	108	2524R	CP-OFDM	QPSK	1	1	0 mm	right	1.1	0.761
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population										UMPC Extremity 4.0 W/kg (mW/g) averaged over 10 grams									

Table 11-135
NR Band n5 (Cell) UMPC Extremity SAR

MEASUREMENT RESULTS																			
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Antenna Config	Power Drift [dB]	MPR [dB]	Antenna State	Serial Number	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (10g)	Reported SAR (10g) (W/kg)
MHz	Ch.																	(W/kg)	
836.50	167300	Mid	NR Band n5 (Cell)	20	25.5	25.39	A + B	0.06	0	108	2528R	DFT-S-OFDM	QPSK	1	53	0 mm	back	1.1	0.966
836.50	167300	Mid	NR Band n5 (Cell)	20	25.5	25.15	A + B	0.05	0	108	2528R	DFT-S-OFDM	QPSK	50	28	0 mm	back	1.1	0.987
836.50	167300	Mid	NR Band n5 (Cell)	20	24.0	23.23	A + B	0.09	1.5	108	2528R	CP-OFDM	QPSK	1	1	0 mm	back	1.1	0.714
836.50	167300	Mid	NR Band n5 (Cell)	20	25.5	25.39	A + B	-0.01	0	108	2528R	DFT-S-OFDM	QPSK	1	53	0 mm	front	1.1	0.689
836.50	167300	Mid	NR Band n5 (Cell)	20	25.5	25.15	A + B	-0.01	0	108	2528R	DFT-S-OFDM	QPSK	50	28	0 mm	front	1.1	0.704
836.50	167300	Mid	NR Band n5 (Cell)	20	25.5	25.39	A + B	0.00	0	108	2528R	DFT-S-OFDM	QPSK	1	53	0 mm	bottom	1.1	0.654
836.50	167300	Mid	NR Band n5 (Cell)	20	25.5	25.15	A + B	0.03	0	108	2528R	DFT-S-OFDM	QPSK	50	28	0 mm	bottom	1.1	0.642
836.50	167300	Mid	NR Band n5 (Cell)	20	25.5	25.39	A + B	-0.15	0	108	2528R	DFT-S-OFDM	QPSK	1	53	0 mm	right	1.1	0.830
836.50	167300	Mid	NR Band n5 (Cell)	20	25.5	25.15	A + B	-0.16	0	108	2528R	DFT-S-OFDM	QPSK	50	28	0 mm	right	1.1	0.842
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population										UMPC Extremity 4.0 W/kg (mW/g) averaged over 10 grams									

Table 11-136
NR Band n66 (AWS) UMPC Extremity SAR

MEASUREMENT RESULTS																			
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Antenna Config	Power Drift [dB]	MPR [dB]	Serial Number	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (10g) (W/kg)	Reported SAR (10g) (W/kg)	Plot #
MHz	Ch.																		
1745.00	349000	Mid	NR Band n66 (AWS)	40	25.0	23.54	B	-0.08	0	1619M	DFT-S-OFDM	QPSK	1	108	12 mm	back	1.1	0.292	1.400
1745.00	349000	Mid	NR Band n66 (AWS)	40	25.0	23.08	B	-0.02	0	1619M	DFT-S-OFDM	QPSK	108	54	12 mm	back	1.1	0.298	1.556
1745.00	349000	Mid	NR Band n66 (AWS)	40	25.0	23.54	B	0.02	0	1619M	DFT-S-OFDM	QPSK	1	108	9 mm	front	1.1	0.447	1.400
1745.00	349000	Mid	NR Band n66 (AWS)	40	25.0	23.08	B	-0.06	0	1619M	DFT-S-OFDM	QPSK	108	54	9 mm	front	1.1	0.449	1.556
1745.00	349000	Mid	NR Band n66 (AWS)	40	25.0	23.54	B	0.01	0	1619M	DFT-S-OFDM	QPSK	1	108	16 mm	bottom	1.1	0.288	1.400
1745.00	349000	Mid	NR Band n66 (AWS)	40	25.0	23.08	B	-0.02	0	1619M	DFT-S-OFDM	QPSK	108	54	16 mm	bottom	1.1	0.286	1.556
1745.00	349000	Mid	NR Band n66 (AWS)	40	25.0	23.54	B	0.04	0	1619M	DFT-S-OFDM	QPSK	1	108	0 mm	right	1.1	0.786	1.400
1745.00	349000	Mid	NR Band n66 (AWS)	40	25.0	23.08	B	0.02	0	1619M	DFT-S-OFDM	QPSK	108	54	0 mm	right	1.1	0.821	1.556
1745.00	349000	Mid	NR Band n66 (AWS)	40	19.0	18.06	B	0.00	0	1619M	DFT-S-OFDM	QPSK	1	1	0 mm	back	1.1	0.853	1.242
1745.00	349000	Mid	NR Band n66 (AWS)	40	19.0	18.14	B	0.01	0	1619M	DFT-S-OFDM	QPSK	108	108	0 mm	back	1.1	0.860	1.219
1745.00	349000	Mid	NR Band n66 (AWS)	40	19.0	18.06	B	0.00	0	1619M	DFT-S-OFDM	QPSK	1	1	0 mm	front	1.1	0.878	1.242
1745.00	349000	Mid	NR Band n66 (AWS)	40	19.0	18.14	B	0.00	0	1619M	DFT-S-OFDM	QPSK	108	108	0 mm	front	1.1	0.871	1.219
1745.00	349000	Mid	NR Band n66 (AWS)	40	19.0	18.06	B	0.03	0	1619M	DFT-S-OFDM	QPSK	1	1	0 mm	bottom	1.1	1.980	1.242
1745.00	349000	Mid	NR Band n66 (AWS)	40	19.0	18.14	B	0.06	0	1619M	DFT-S-OFDM	QPSK	108	108	0 mm	bottom	1.1	1.980	1.219
1745.00	349000	Mid	NR Band n66 (AWS)	40	19.0	18.04	B	0.01	0	1619M	DFT-S-OFDM	QPSK	216	0	0 mm	bottom	1.1	1.980	1.247
1745.00	349000	Mid	NR Band n66 (AWS)	40	19.0	18.05	B	0.01	0	1619M	CP-OFDM	QPSK	1	1	0 mm	bottom	1.1	1.900	1.245
1745.00	349000	Mid	NR Band n66 (AWS)	40	20.5	19.43	E	-0.06	0	1619M	DFT-S-OFDM	QPSK	1	108	0 mm	back	1.1	0.827	1.279
1745.00	349000	Mid	NR Band n66 (AWS)	40	20.5	19.42	E	-0.02	0	1619M	DFT-S-OFDM	QPSK	108	0	0 mm	back	1.1	0.830	1.282
1745.00	349000	Mid	NR Band n66 (AWS)	40	20.5	19.43	E	0.00	0	1619M	DFT-S-OFDM	QPSK	1	108	0 mm	front	1.1	0.770	1.279
1745.00	349000	Mid	NR Band n66 (AWS)	40	20.5	19.42	E	-0.06	0	1619M	DFT-S-OFDM	QPSK	108	0	0 mm	front	1.1	0.788	1.282
1745.00	349000	Mid	NR Band n66 (AWS)	40	20.5	19.43	E	-0.04	0	1619M	DFT-S-OFDM	QPSK	1	108	0 mm	top	1.1	1.980	1.279
1745.00	349000	Mid	NR Band n66 (AWS)	40	20.5	19.42	E	-0.12	0	1619M	DFT-S-OFDM	QPSK	108	0	0 mm	top	1.1	1.990	1.282
1745.00	349000	Mid	NR Band n66 (AWS)	40	20.5	19.39	E	0.03	0	1619M	DFT-S-OFDM	QPSK	216	0	0 mm	top	1.1	2.100	1.291
1745.00	349000	Mid	NR Band n66 (AWS)	40	20.5	19.58	E	-0.04	0	1619M	CP-OFDM	QPSK	1	1	0 mm	top	1.1	1.880	1.236
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population										UMPC Extremity 4.0 W/kg (mW/g) averaged over 10 grams									

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Table 11-137
NR Band n25 (PCS) UMPC Extremity SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Antenna Config	Power Drift [dB]	MPR [dB]	Serial Number	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (10g) [W/kg]	Scaling Factor	Reported SAR (10g) [W/kg]	Plot #	
MHz	Ch.																				
1882.50	376500	Md	NR Band n25 (PCS)	40	25.0	24.00	B	-0.03	0	2039M	DFT-S-OFDM	QPSK	1	1	12 mm	back	1:1	0.452	1.259	0.569	
1882.50	376500	Md	NR Band n25 (PCS)	40	25.0	23.78	B	0.02	0	2039M	DFT-S-OFDM	QPSK	108	54	12 mm	back	1:1	0.504	1.324	0.667	
1882.50	376500	Md	NR Band n25 (PCS)	40	25.0	24.00	B	-0.01	0	2039M	DFT-S-OFDM	QPSK	1	1	9 mm	front	1:1	0.549	1.259	0.691	
1882.50	376500	Md	NR Band n25 (PCS)	40	25.0	23.78	B	0.07	0	2039M	DFT-S-OFDM	QPSK	108	54	9 mm	front	1:1	0.572	1.324	0.757	
1882.50	376500	Md	NR Band n25 (PCS)	40	25.0	24.00	B	-0.01	0	2039M	DFT-S-OFDM	QPSK	1	1	16 mm	bottom	1:1	0.427	1.259	0.538	
1882.50	376500	Md	NR Band n25 (PCS)	40	25.0	23.78	B	-0.03	0	2039M	DFT-S-OFDM	QPSK	108	54	16 mm	bottom	1:1	0.507	1.324	0.671	
1882.50	376500	Md	NR Band n25 (PCS)	40	25.0	24.00	B	-0.01	0	2039M	DFT-S-OFDM	QPSK	1	1	0 mm	right	1:1	0.659	1.259	0.830	
1882.50	376500	Md	NR Band n25 (PCS)	40	25.0	23.78	B	-0.04	0	2039M	DFT-S-OFDM	QPSK	108	54	0 mm	right	1:1	0.849	1.324	1.124	
1882.50	376500	Md	NR Band n25 (PCS)	40	19.0	18.00	B	0.01	0	2039M	DFT-S-OFDM	QPSK	1	1	0 mm	back	1:1	0.881	1.259	1.109	
1882.50	376500	Md	NR Band n25 (PCS)	40	19.0	17.89	B	-0.09	0	2039M	DFT-S-OFDM	QPSK	108	108	0 mm	back	1:1	0.893	1.291	1.153	
1882.50	376500	Md	NR Band n25 (PCS)	40	19.0	18.00	B	-0.03	0	2039M	DFT-S-OFDM	QPSK	1	1	0 mm	front	1:1	0.834	1.259	1.050	
1882.50	376500	Md	NR Band n25 (PCS)	40	19.0	17.89	B	0.00	0	2039M	DFT-S-OFDM	QPSK	108	108	0 mm	front	1:1	0.846	1.291	1.092	
1882.50	376500	Md	NR Band n25 (PCS)	40	19.0	18.00	B	0.00	0	2039M	DFT-S-OFDM	QPSK	1	1	0 mm	bottom	1:1	2.010	1.259	2.531	
1882.50	376500	Md	NR Band n25 (PCS)	40	19.0	17.89	B	0.03	0	2039M	DFT-S-OFDM	QPSK	108	108	0 mm	bottom	1:1	1.980	1.291	2.556	
1882.50	376500	Md	NR Band n25 (PCS)	40	19.0	17.88	B	-0.03	0	2039M	DFT-S-OFDM	QPSK	216	0	0 mm	bottom	1:1	1.980	1.294	2.562	
1882.50	376500	Md	NR Band n25 (PCS)	40	19.0	17.93	B	-0.04	0	2039M	CP-OFDM	QPSK	1	1	0 mm	bottom	1:1	1.920	1.279	2.456	
1882.50	376500	Md	NR Band n25 (PCS)	40	20.5	19.97	E	-0.03	0	2039M	DFT-S-OFDM	QPSK	1	214	0 mm	back	1:1	0.837	1.130	0.946	
1882.50	376500	Md	NR Band n25 (PCS)	40	20.5	19.88	E	-0.03	0	2039M	DFT-S-OFDM	QPSK	108	108	0 mm	back	1:1	0.851	1.153	0.981	
1882.50	376500	Md	NR Band n25 (PCS)	40	20.5	19.97	E	-0.06	0	2039M	DFT-S-OFDM	QPSK	1	214	0 mm	front	1:1	1.070	1.130	1.209	
1882.50	376500	Md	NR Band n25 (PCS)	40	20.5	19.88	E	-0.01	0	2039M	DFT-S-OFDM	QPSK	108	108	0 mm	front	1:1	1.080	1.153	1.245	
1882.50	376500	Md	NR Band n25 (PCS)	40	20.5	19.97	E	0.08	0	2039M	DFT-S-OFDM	QPSK	1	214	0 mm	top	1:1	1.930	1.130	2.181	
1882.50	376500	Md	NR Band n25 (PCS)	40	20.5	19.88	E	0.10	0	2039M	DFT-S-OFDM	QPSK	108	108	0 mm	top	1:1	1.990	1.153	2.294	
1882.50	376500	Md	NR Band n25 (PCS)	40	20.5	19.74	E	0.11	0	2039M	DFT-S-OFDM	QPSK	216	0	0 mm	top	1:1	2.120	1.191	2.525	AI69
1882.50	376500	Md	NR Band n25 (PCS)	40	20.5	19.76	E	0.06	0	2039M	CP-OFDM	QPSK	1	1	0 mm	top	1:1	1.970	1.186	2.336	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population									UMPC Extremity 4.0 W/kg (mW/g) averaged over 10 grams												

Table 11-138
NR Band n30 UMPC Extremity SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Antenna Config	Power Drift [dB]	MPR [dB]	Serial Number	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (10g) [W/kg]	Scaling Factor	Reported SAR (10g) [W/kg]	Plot #	
MHz	Ch.																				
2310.00	462000	Md	NR Band n30	10	22.5	21.05	B	0.05	0	1619M	DFT-S-OFDM	QPSK	1	26	12 mm	back	1:1	0.257	1.396	0.359	
2310.00	462000	Md	NR Band n30	10	22.5	20.94	B	0.04	0	1619M	DFT-S-OFDM	QPSK	25	27	12 mm	back	1:1	0.262	1.432	0.375	
2310.00	462000	Md	NR Band n30	10	22.5	21.05	B	0.08	0	1619M	DFT-S-OFDM	QPSK	1	26	9 mm	front	1:1	0.337	1.396	0.470	
2310.00	462000	Md	NR Band n30	10	22.5	20.94	B	0.04	0	1619M	DFT-S-OFDM	QPSK	25	27	9 mm	front	1:1	0.343	1.432	0.491	
2310.00	462000	Md	NR Band n30	10	22.5	21.05	B	-0.02	0	1619M	DFT-S-OFDM	QPSK	1	26	16 mm	bottom	1:1	0.337	1.396	0.470	
2310.00	462000	Md	NR Band n30	10	22.5	20.94	B	0.10	0	1619M	DFT-S-OFDM	QPSK	25	27	16 mm	bottom	1:1	0.344	1.432	0.493	
2310.00	462000	Md	NR Band n30	10	22.5	21.05	B	0.06	0	1619M	DFT-S-OFDM	QPSK	1	26	0 mm	right	1:1	0.344	1.396	0.480	
2310.00	462000	Md	NR Band n30	10	22.5	20.94	B	0.05	0	1619M	DFT-S-OFDM	QPSK	25	27	0 mm	right	1:1	0.350	1.432	0.501	
2310.00	462000	Md	NR Band n30	10	17.0	16.88	B	0.01	0	1619M	DFT-S-OFDM	QPSK	1	26	0 mm	back	1:1	0.850	1.028	0.874	
2310.00	462000	Md	NR Band n30	10	17.0	16.86	B	0.01	0	1619M	DFT-S-OFDM	QPSK	25	0	0 mm	back	1:1	0.837	1.033	0.865	
2310.00	462000	Md	NR Band n30	10	17.0	16.88	B	-0.01	0	1619M	DFT-S-OFDM	QPSK	1	26	0 mm	front	1:1	0.674	1.028	0.693	
2310.00	462000	Md	NR Band n30	10	17.0	16.86	B	0.01	0	1619M	DFT-S-OFDM	QPSK	25	0	0 mm	front	1:1	0.654	1.033	0.676	
2310.00	462000	Md	NR Band n30	10	17.0	16.88	B	0.01	0	1619M	DFT-S-OFDM	QPSK	1	26	0 mm	bottom	1:1	1.720	1.028	1.768	AI70
2310.00	462000	Md	NR Band n30	10	17.0	16.86	B	0.00	0	1619M	DFT-S-OFDM	QPSK	25	0	0 mm	bottom	1:1	1.690	1.033	1.746	
2310.00	462000	Md	NR Band n30	10	17.0	17.00	B	0.01	0	1619M	CP-OFDM	QPSK	1	1	0 mm	bottom	1:1	1.640	1.000	1.640	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population									UMPC Extremity 4.0 W/kg (mW/g) averaged over 10 grams												

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Table 11-139
NR Band n41 UMPC Extremity SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Antenna Config	Power Drift [dB]	MPR [dB]	Serial Number	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (10g)		Reported SAR (10g)	Plot #	
MHz	Ch.																(W/kg)	Scaling Factor	(W/kg)		
2592.99	518598	Md	NR Band n41	100	19.0	17.72	E	-0.01	0	0372M	DFT-S-OFDM	QPSK	1	137	0 mm	back	1:1	0.507	1.343	0.681	
2592.99	518598	Md	NR Band n41	100	19.0	17.81	E	-0.01	0	0372M	DFT-S-OFDM	QPSK	135	0	0 mm	back	1:1	0.509	1.315	0.669	
2592.99	518598	Md	NR Band n41	100	19.0	17.72	E	0.00	0	0372M	DFT-S-OFDM	QPSK	1	137	0 mm	front	1:1	0.604	1.343	0.811	
2592.99	518598	Md	NR Band n41	100	19.0	17.81	E	0.01	0	0372M	DFT-S-OFDM	QPSK	135	0	0 mm	front	1:1	0.620	1.315	0.815	
2592.99	518598	Md	NR Band n41	100	19.0	17.72	E	-0.10	0	0372M	DFT-S-OFDM	QPSK	1	137	0 mm	top	1:1	1.340	1.343	1.800	
2592.99	518598	Md	NR Band n41	100	19.0	17.81	E	-0.05	0	0372M	DFT-S-OFDM	QPSK	135	0	0 mm	top	1:1	1.380	1.315	1.815	
2592.99	518598	Md	NR Band n41	100	19.0	17.76	E	0.00	0	0372M	CP-OFDM	QPSK	1	1	0 mm	top	1:1	1.500	1.330	1.995	A171
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak									UMPC Extremity 4.0 W/kg (mW/g)												
Uncontrolled Exposure/General Population									averaged over 10 grams												

Table 11-140
NR Band n77 DoD UMPC Extremity SAR

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Antenna Config	Power Drift [dB]	MPR [dB]	Serial Number	Waveform	Modulation	RB Size	RB Offset	Spacing	MPR [dB]	Duty Cycle	Scaling Factor	SAR (10g)	Reported SAR (10g)	Plot #	
MHz	Ch.																	(W/kg)	(W/kg)		
3500.01	633334	Md	NR Band n77	100	19.0	18.96	E	-0.07	0	0330M	DFT-S-OFDM	QPSK	1	137	0 mm	back	1:1	1.009	0.465	0.469	
3500.01	633334	Md	NR Band n77	100	19.0	18.97	E	-0.01	0	0330M	DFT-S-OFDM	QPSK	135	69	0 mm	back	1:1	1.007	0.469	0.472	
3500.01	633334	Md	NR Band n77	100	19.0	18.96	E	-0.02	0	0330M	DFT-S-OFDM	QPSK	1	137	0 mm	front	1:1	1.009	0.429	0.433	
3500.01	633334	Md	NR Band n77	100	19.0	18.97	E	-0.04	0	0330M	DFT-S-OFDM	QPSK	135	69	0 mm	front	1:1	1.007	0.420	0.423	
3500.01	633334	Md	NR Band n77	100	19.0	18.96	E	-0.03	0	0330M	DFT-S-OFDM	QPSK	1	137	0 mm	top	1:1	1.009	1.360	1.372	
3500.01	633334	Md	NR Band n77	100	19.0	18.97	E	-0.02	0	0330M	DFT-S-OFDM	QPSK	135	69	0 mm	top	1:1	1.007	1.280	1.289	
3500.01	633334	Md	NR Band n77	100	19.0	18.81	E	-0.03	0	0330M	CP-OFDM	QPSK	1	1	0 mm	top	1:1	1.045	1.200	1.254	
3500.01	633334	Md	NR Band n77	100	19.0	18.78	G	-0.01	0	0330M	DFT-S-OFDM	QPSK	1	1	0 mm	back	1:1	1.052	0.204	0.215	
3500.01	633334	Md	NR Band n77	100	19.0	18.64	G	-0.06	0	0330M	DFT-S-OFDM	QPSK	135	0	0 mm	back	1:1	1.086	0.211	0.229	
3500.01	633334	Md	NR Band n77	100	19.0	18.78	G	-0.02	0	0330M	DFT-S-OFDM	QPSK	1	1	0 mm	front	1:1	1.052	0.243	0.256	
3500.01	633334	Md	NR Band n77	100	19.0	18.64	G	-0.01	0	0330M	DFT-S-OFDM	QPSK	135	0	0 mm	front	1:1	1.086	0.246	0.267	
3500.01	633334	Md	NR Band n77	100	19.0	18.81	G	-0.01	0	0330M	CP-OFDM	QPSK	1	1	0 mm	front	1:1	1.045	0.246	0.257	
3500.01	633334	Md	NR Band n77	100	19.0	18.78	G	-0.02	0	0330M	DFT-S-OFDM	QPSK	1	1	0 mm	right	1:1	1.052	0.073	0.077	
3500.01	633334	Md	NR Band n77	100	19.0	18.64	G	-0.02	0	0330M	DFT-S-OFDM	QPSK	135	0	0 mm	right	1:1	1.086	0.069	0.075	
3500.01	633334	Md	NR Band n77	100	17.0	16.67	F	-0.01	0	0330M	DFT-S-OFDM	QPSK	1	137	0 mm	back	1:1	1.079	0.939	1.013	
3500.01	633334	Md	NR Band n77	100	17.0	16.69	F	-0.01	0	0330M	DFT-S-OFDM	QPSK	135	69	0 mm	back	1:1	1.074	0.891	0.957	
3500.01	633334	Md	NR Band n77	100	17.0	16.67	F	-0.06	0	0330M	DFT-S-OFDM	QPSK	1	137	0 mm	front	1:1	1.079	0.931	1.005	
3500.01	633334	Md	NR Band n77	100	17.0	16.69	F	-0.01	0	0330M	DFT-S-OFDM	QPSK	135	69	0 mm	front	1:1	1.074	0.887	0.953	
3500.01	633334	Md	NR Band n77	100	17.0	16.67	F	0.03	0	0330M	DFT-S-OFDM	QPSK	1	137	0 mm	top	1:1	1.079	2.780	3.000	A172
3500.01	633334	Md	NR Band n77	100	17.0	16.69	F	0.02	0	0330M	DFT-S-OFDM	QPSK	135	69	0 mm	top	1:1	1.074	2.680	2.878	
3500.01	633334	Md	NR Band n77	100	17.0	16.62	F	-0.09	0	0330M	DFT-S-OFDM	QPSK	270	0	0 mm	top	1:1	1.091	2.740	2.989	
3500.01	633334	Md	NR Band n77	100	17.0	16.48	F	0.08	0	0330M	CP-OFDM	QPSK	1	1	0 mm	top	1:1	1.127	2.420	2.727	
3500.01	633334	Md	NR Band n77	100	17.0	16.67	F	-0.07	0	0330M	DFT-S-OFDM	QPSK	1	137	0 mm	right	1:1	1.079	0.232	0.250	
3500.01	633334	Md	NR Band n77	100	17.0	16.69	F	-0.04	0	0330M	DFT-S-OFDM	QPSK	135	69	0 mm	right	1:1	1.074	0.232	0.249	
3500.01	633334	Md	NR Band n77	100	16.0	15.26	B	0.00	0	0330M	DFT-S-OFDM	QPSK	1	1	0 mm	back	1:1	1.186	0.187	0.222	
3500.01	633334	Md	NR Band n77	100	16.0	15.29	B	-0.08	0	0330M	DFT-S-OFDM	QPSK	135	69	0 mm	back	1:1	1.178	0.192	0.226	
3500.01	633334	Md	NR Band n77	100	16.0	15.26	B	-0.11	0	0330M	DFT-S-OFDM	QPSK	1	1	0 mm	front	1:1	1.186	0.105	0.125	
3500.01	633334	Md	NR Band n77	100	16.0	15.29	B	-0.11	0	0330M	DFT-S-OFDM	QPSK	135	69	0 mm	front	1:1	1.178	0.108	0.127	
3500.01	633334	Md	NR Band n77	100	16.0	15.26	B	0.00	0	0330M	DFT-S-OFDM	QPSK	1	1	0 mm	bottom	1:1	1.186	0.308	0.365	
3500.01	633334	Md	NR Band n77	100	16.0	15.29	B	-0.04	0	0330M	DFT-S-OFDM	QPSK	135	69	0 mm	bottom	1:1	1.178	0.300	0.353	
3500.01	633334	Md	NR Band n77	100	16.0	15.23	B	-0.01	0	0330M	CP-OFDM	QPSK	1	1	0 mm	bottom	1:1	1.194	0.321	0.383	
3500.01	633334	Md	NR Band n77	100	16.0	15.26	B	-0.01	0	0330M	DFT-S-OFDM	QPSK	1	1	0 mm	right	1:1	1.186	0.064	0.076	
3500.01	633334	Md	NR Band n77	100	16.0	15.29	B	-0.05	0	0330M	DFT-S-OFDM	QPSK	135	69	0 mm	right	1:1	1.178	0.062	0.073	
3500.01	633334	Md	NR Band n77	100	17.0	16.67	F	-0.03	0	0330M	DFT-S-OFDM	QPSK	1	137	0 mm	top	1:1	1.079	2.750	2.967	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population								UMPC Extremity 4.0 W/kg (mW/g) averaged over 10 gram													

Note: Blue entry represents variability measurement

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Table 11-141
NR Band n77 UMPC Extremity SAR

MEASUREMENT RESULTS																				
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Antenna Config	Power Drift [dB]	MPR [dB]	Serial Number	Waveform	Modulation	RB Size	RB Offset	Spacing	MPR [dB]	Duty Cycle	Scaling Factor	SAR (10g)	Reported SAR (10g)	Plot #
MHz	Ch.																	(W/kg)	(W/kg)	
3750.00	650000	Low	NR Band n77	100	19.0	18.02	E	-0.01	0	0372M	DFT-S-OFDM	QPSK	1	137	0 mm	back	1:1	1.253	1.030	1.291
3930.00	662000	High	NR Band n77	100	19.0	18.16	E	-0.02	0	0372M	DFT-S-OFDM	QPSK	1	137	0 mm	back	1:1	1.213	0.854	1.036
3750.00	650000	Low	NR Band n77	100	19.0	18.04	E	-0.09	0	0372M	DFT-S-OFDM	QPSK	135	69	0 mm	back	1:1	1.247	1.070	1.334
3930.00	662000	High	NR Band n77	100	19.0	18.22	E	-0.04	0	0372M	DFT-S-OFDM	QPSK	135	69	0 mm	back	1:1	1.197	0.929	1.112
3930.00	662000	High	NR Band n77	100	19.0	18.15	E	0.07	0	0372M	DFT-S-OFDM	QPSK	270	0	0 mm	back	1:1	1.216	0.784	0.953
3750.00	650000	Low	NR Band n77	100	19.0	18.02	E	0.09	0	0372M	DFT-S-OFDM	QPSK	1	137	0 mm	front	1:1	1.253	1.180	1.479
3930.00	662000	High	NR Band n77	100	19.0	18.16	E	0.00	0	0372M	DFT-S-OFDM	QPSK	1	137	0 mm	front	1:1	1.213	0.815	0.989
3750.00	650000	Low	NR Band n77	100	19.0	18.04	E	0.01	0	0372M	DFT-S-OFDM	QPSK	135	69	0 mm	front	1:1	1.247	1.070	1.334
3930.00	662000	High	NR Band n77	100	19.0	18.22	E	-0.15	0	0372M	DFT-S-OFDM	QPSK	135	69	0 mm	front	1:1	1.197	0.926	1.108
3930.00	662000	High	NR Band n77	100	19.0	18.15	E	0.06	0	0372M	DFT-S-OFDM	QPSK	270	0	0 mm	front	1:1	1.216	0.964	1.172
3750.00	650000	Low	NR Band n77	100	19.0	18.02	E	0.00	0	0372M	DFT-S-OFDM	QPSK	1	137	0 mm	top	1:1	1.253	2.060	2.581
3930.00	662000	High	NR Band n77	100	19.0	18.16	E	0.02	0	0372M	DFT-S-OFDM	QPSK	1	137	0 mm	top	1:1	1.213	1.930	2.341
3750.00	650000	Low	NR Band n77	100	19.0	18.04	E	0.03	0	0372M	DFT-S-OFDM	QPSK	135	69	0 mm	top	1:1	1.247	2.390	2.980
3930.00	662000	High	NR Band n77	100	19.0	18.22	E	0.16	0	0372M	DFT-S-OFDM	QPSK	135	69	0 mm	top	1:1	1.197	2.070	2.478
3930.00	662000	High	NR Band n77	100	19.0	18.15	E	0.03	0	0372M	DFT-S-OFDM	QPSK	270	0	0 mm	top	1:1	1.216	2.170	2.639
3930.00	662000	High	NR Band n77	100	19.0	18.28	E	-0.09	0	0372M	CP-OFDM	QPSK	1	1	0 mm	top	1:1	1.180	2.090	2.466
3930.00	662000	High	NR Band n77	100	19.0	18.29	G	-0.05	0	0372M	DFT-S-OFDM	QPSK	1	271	0 mm	back	1:1	1.178	0.158	0.186
3930.00	662000	High	NR Band n77	100	19.0	18.34	G	0.00	0	0372M	DFT-S-OFDM	QPSK	135	69	0 mm	back	1:1	1.164	0.171	0.199
3930.00	662000	High	NR Band n77	100	19.0	18.29	G	0.00	0	0372M	DFT-S-OFDM	QPSK	1	271	0 mm	front	1:1	1.178	0.148	0.174
3930.00	662000	High	NR Band n77	100	19.0	18.34	G	-0.03	0	0372M	DFT-S-OFDM	QPSK	135	69	0 mm	front	1:1	1.164	0.182	0.212
3930.00	662000	High	NR Band n77	100	19.0	18.02	G	-0.04	0	0372M	CP-OFDM	QPSK	1	1	0 mm	front	1:1	1.253	0.200	0.251
3930.00	662000	High	NR Band n77	100	19.0	18.29	G	-0.17	0	0372M	DFT-S-OFDM	QPSK	1	271	0 mm	right	1:1	1.178	0.031	0.037
3930.00	662000	High	NR Band n77	100	19.0	18.34	G	0.01	0	0372M	DFT-S-OFDM	QPSK	135	69	0 mm	right	1:1	1.164	0.033	0.038
3930.00	662000	High	NR Band n77	100	17.0	15.89	F	-0.03	0	0372M	DFT-S-OFDM	QPSK	1	137	0 mm	back	1:1	1.291	0.392	0.506
3930.00	662000	High	NR Band n77	100	17.0	15.95	F	-0.03	0	0372M	DFT-S-OFDM	QPSK	135	69	0 mm	back	1:1	1.274	0.405	0.516
3930.00	662000	High	NR Band n77	100	17.0	15.89	F	0.05	0	0372M	DFT-S-OFDM	QPSK	1	137	0 mm	front	1:1	1.291	0.353	0.456
3930.00	662000	High	NR Band n77	100	17.0	15.95	F	-0.14	0	0372M	DFT-S-OFDM	QPSK	135	69	0 mm	front	1:1	1.274	0.369	0.470
3750.00	650000	Low	NR Band n77	100	17.0	15.34	F	-0.02	0	0372M	DFT-S-OFDM	QPSK	1	137	0 mm	top	1:1	1.466	1.650	2.419
3930.00	662000	High	NR Band n77	100	17.0	15.89	F	-0.07	0	0372M	DFT-S-OFDM	QPSK	1	137	0 mm	top	1:1	1.291	1.080	1.394
3750.00	650000	Low	NR Band n77	100	17.0	15.41	F	-0.02	0	0372M	DFT-S-OFDM	QPSK	135	138	0 mm	top	1:1	1.442	1.550	2.235
3930.00	662000	High	NR Band n77	100	17.0	15.95	F	0.00	0	0372M	DFT-S-OFDM	QPSK	135	69	0 mm	top	1:1	1.274	1.080	1.376
3930.00	662000	High	NR Band n77	100	17.0	15.84	F	0.02	0	0372M	DFT-S-OFDM	QPSK	270	0	0 mm	top	1:1	1.306	1.120	1.463
3930.00	662000	High	NR Band n77	100	17.0	15.47	F	-0.04	0	0372M	CP-OFDM	QPSK	1	1	0 mm	top	1:1	1.422	1.110	1.578
3930.00	662000	High	NR Band n77	100	17.0	15.89	F	0.07	0	0372M	DFT-S-OFDM	QPSK	1	137	0 mm	right	1:1	1.291	0.169	0.218
3930.00	662000	High	NR Band n77	100	17.0	15.95	F	-0.01	0	0372M	DFT-S-OFDM	QPSK	135	69	0 mm	right	1:1	1.274	0.172	0.219
3930.00	662000	High	NR Band n77	100	16.0	14.99	B	-0.12	0	0330M	DFT-S-OFDM	QPSK	1	137	0 mm	back	1:1	1.262	0.133	0.168
3930.00	662000	High	NR Band n77	100	16.0	14.95	B	-0.03	0	0330M	DFT-S-OFDM	QPSK	135	69	0 mm	back	1:1	1.274	0.132	0.168
3930.00	662000	High	NR Band n77	100	16.0	14.27	B	-0.03	0	0330M	CP-OFDM	QPSK	1	1	0 mm	back	1:1	1.489	0.093	0.138
3930.00	662000	High	NR Band n77	100	16.0	14.99	B	-0.04	0	0330M	DFT-S-OFDM	QPSK	1	137	0 mm	front	1:1	1.262	0.065	0.082
3930.00	662000	High	NR Band n77	100	16.0	14.95	B	-0.03	0	0330M	DFT-S-OFDM	QPSK	135	69	0 mm	front	1:1	1.274	0.062	0.079
3930.00	662000	High	NR Band n77	100	16.0	14.99	B	-0.11	0	0330M	DFT-S-OFDM	QPSK	1	137	0 mm	bottom	1:1	1.262	0.121	0.153
3930.00	662000	High	NR Band n77	100	16.0	14.95	B	0.03	0	0330M	DFT-S-OFDM	QPSK	135	69	0 mm	bottom	1:1	1.274	0.117	0.149
3930.00	662000	High	NR Band n77	100	16.0	14.99	B	-0.06	0	0330M	DFT-S-OFDM	QPSK	1	137	0 mm	right	1:1	1.262	0.053	0.067
3930.00	662000	High	NR Band n77	100	16.0	14.95	B	-0.06	0	0330M	DFT-S-OFDM	QPSK	135	69	0 mm	right	1:1	1.274	0.052	0.066
3750.00	650000	Low	NR Band n77	100	19.0	18.04	E	0.01	0	0372M	DFT-S-OFDM	QPSK	135	69	0 mm	top	1:1	1.247	2.300	2.868
ANSI / IEEE C95.1 1992 - SAFETY LIMIT												UMPC Extremity								
Spatial Peak												1.6 W/kg (mW/g)								
Uncontrolled Exposure/General Population												averaged over 1 gram								

Note: Blue entry represents variability measurement

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Table 11-142
WLAN UMPC Extremity SAR

MEASUREMENT RESULTS																		
FREQUENCY		Mode	Service	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	SAR (10g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (10g)	Plot #
MHz	Ch.													(W/kg)			(W/kg)	
2462	11	802.11b	DSSS	22	19.0	18.67	-0.02	0 mm	1	1578M	1	back	98.9	0.958	1.079	1.011	1.045	
2462	11	802.11b	DSSS	22	19.0	18.67	-0.03	0 mm	1	1578M	1	front	98.9	1.090	1.079	1.011	1.189	
2412	1	802.11b	DSSS	22	19.0	18.55	0.00	0 mm	1	1578M	1	top	98.9	1.330	1.109	1.011	1.491	
2437	6	802.11b	DSSS	22	19.0	18.63	0.04	0 mm	1	1578M	1	top	98.9	1.920	1.089	1.011	2.114	A174
2462	11	802.11b	DSSS	22	19.0	18.67	0.00	0 mm	1	1578M	1	top	98.9	1.390	1.079	1.011	1.516	
2462	11	802.11b	DSSS	22	19.0	18.70	-0.05	0 mm	2	1997M	1	back	98.9	0.316	1.072	1.011	0.342	
2462	11	802.11b	DSSS	22	19.0	18.70	-0.03	0 mm	2	1997M	1	front	98.9	0.532	1.072	1.011	0.577	
2462	11	802.11b	DSSS	22	19.0	18.70	0.00	0 mm	2	1997M	1	bottom	98.9	0.617	1.072	1.011	0.669	
5320	64	802.11a	OFDM	20	18.0	17.99	0.15	0 mm	1	2038M	6	back	93.8	0.196	1.002	1.066	0.209	
5320	64	802.11a	OFDM	20	18.0	17.99	-0.06	0 mm	1	2038M	6	front	93.8	0.434	1.002	1.066	0.464	
5320	64	802.11a	OFDM	20	18.0	17.99	-0.08	0 mm	1	2038M	6	top	93.8	0.732	1.002	1.066	0.782	A175
5720	144	802.11a	OFDM	20	18.0	17.96	-0.06	0 mm	1	2038M	6	back	93.8	0.160	1.009	1.066	0.172	
5720	144	802.11a	OFDM	20	18.0	17.96	-0.01	0 mm	1	2038M	6	front	93.8	0.273	1.009	1.066	0.294	
5720	144	802.11a	OFDM	20	18.0	17.96	-0.09	0 mm	1	2038M	6	top	93.8	0.477	1.009	1.066	0.513	
5785	157	802.11a	OFDM	20	18.0	17.94	0.05	0 mm	1	2038M	6	back	93.8	0.219	1.014	1.066	0.237	
5785	157	802.11a	OFDM	20	18.0	17.94	-0.05	0 mm	1	2038M	6	front	93.8	0.254	1.014	1.066	0.275	
5785	157	802.11a	OFDM	20	18.0	17.94	-0.04	0 mm	1	2038M	6	top	93.8	0.444	1.014	1.066	0.480	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population								UMPC Extremity 4.0 W/kg (mW/g) averaged over 10 grams										

Table 11-143
WLAN MIMO UMPC Extremity SAR

MEASUREMENT RESULTS																				
FREQUENCY		Mode	Service	Bandwidth [MHz]	Maximum Allowed Power (Ant 1) [dBm]	Conducted Power (Ant 1) [dBm]	Maximum Allowed Power (Ant 2) [dBm]	Conducted Power (Ant 2) [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	SAR (10g) (W/kg)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (10g)	Plot #
MHz	Ch.																		(W/kg)	
2462	11	802.11b	DSSS	22	19.0	18.67	19.0	18.70	0.08	0 mm	MIMO	1997M	1	back	98.9	0.694	1.079	1.011	0.757	
2462	11	802.11b	DSSS	22	19.0	18.67	19.0	18.70	-0.03	0 mm	MIMO	1997M	1	front	98.9	0.772	1.079	1.011	0.842	
2412	1	802.11b	DSSS	22	19.0	18.55	19.0	18.47	0.02	0 mm	MIMO	1997M	1	top	98.9	1.040	1.130	1.011	1.188	
2437	6	802.11b	DSSS	22	19.0	18.63	19.0	18.51	0.01	0 mm	MIMO	1997M	1	top	98.9	1.290	1.119	1.011	1.459	
2462	11	802.11b	DSSS	22	19.0	18.67	19.0	18.70	0.02	0 mm	MIMO	1997M	1	top	98.9	1.440	1.079	1.011	1.571	
2462	11	802.11b	DSSS	22	19.0	18.67	19.0	18.70	-0.09	0 mm	MIMO	1997M	1	bottom	98.9	0.424	1.079	1.011	0.463	
5260	52	802.11n	OFDM	20	18.0	17.92	18.0	17.43	0.01	0 mm	MIMO	2038M	13	back	86.9	0.448	1.140	1.151	0.588	
5260	52	802.11n	OFDM	20	18.0	17.92	18.0	17.43	0.00	0 mm	MIMO	2038M	13	front	86.9	0.598	1.140	1.151	0.785	
5260	52	802.11n	OFDM	20	18.0	17.92	18.0	17.43	0.00	0 mm	MIMO	2038M	13	top	86.9	0.727	1.140	1.151	0.954	
5260	52	802.11n	OFDM	20	18.0	17.92	18.0	17.43	0.01	0 mm	MIMO	2038M	13	bottom	86.9	0.599	1.140	1.151	0.786	
5620	124	802.11n	OFDM	20	18.0	17.78	18.0	17.35	0.05	0 mm	MIMO	2038M	13	back	86.9	0.295	1.161	1.151	0.394	
5620	124	802.11n	OFDM	20	18.0	17.78	18.0	17.35	0.14	0 mm	MIMO	2038M	13	front	86.9	0.354	1.161	1.151	0.473	
5620	124	802.11n	OFDM	20	18.0	17.78	18.0	17.35	-0.06	0 mm	MIMO	2038M	13	top	86.9	0.571	1.161	1.151	0.763	
5620	124	802.11n	OFDM	20	18.0	17.78	18.0	17.35	-0.02	0 mm	MIMO	2038M	13	bottom	86.9	0.247	1.161	1.151	0.330	
5825	165	802.11n	OFDM	20	18.0	17.61	18.0	17.58	-0.03	0 mm	MIMO	2038M	13	back	86.9	0.422	1.102	1.151	0.535	
5825	165	802.11n	OFDM	20	18.0	17.61	18.0	17.58	0.03	0 mm	MIMO	2038M	13	front	86.9	0.525	1.102	1.151	0.666	
5825	165	802.11n	OFDM	20	18.0	17.61	18.0	17.58	-0.08	0 mm	MIMO	2038M	13	top	86.9	0.418	1.102	1.151	0.530	
5825	165	802.11n	OFDM	20	18.0	17.61	18.0	17.58	-0.12	0 mm	MIMO	2038M	13	bottom	86.9	0.423	1.102	1.151	0.537	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population										UMPC Extremity 4.0 W/kg (mW/g) averaged over 10 grams										

Note: For 2450 MHz WLAN, to achieve the 22.0 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 19.0 dBm. For 5GHz WLAN, to achieve the 21.0 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 18.0 dBm.

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Table 11-144
2.4 GHz WLAN MIMO UMPC Extremity SAR for Conditions with 5/6 GHz WLAN or 5G NR Active

MEASUREMENT RESULTS																				
FREQUENCY		Mode	Service	Bandwidth [MHz]	Maximum Allowed Power (Ant 1) [dBm]	Conducted Power (Ant 1) [dBm]	Maximum Allowed Power (Ant 2) [dBm]	Conducted Power (Ant 2) [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	SAR (10g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (10g)	Plot #
MHz	Ch.															(W/kg)			(W/kg)	
2462	11	802.11n	OFDM	20	15.0	14.67	15.0	14.84	-0.05	0 mm	MIMO	1578M	13	back	92.2	0.390	1.079	1.084	0.456	
2462	11	802.11n	OFDM	20	15.0	14.67	15.0	14.84	0.00	0 mm	MIMO	1578M	13	front	92.2	0.360	1.079	1.084	0.421	
2462	11	802.11n	OFDM	20	15.0	14.67	15.0	14.84	-0.15	0 mm	MIMO	1578M	13	top	92.2	0.493	1.079	1.084	0.577	
2462	11	802.11n	OFDM	20	15.0	14.67	15.0	14.84	-0.02	0 mm	MIMO	1578M	13	bottom	92.2	0.394	1.079	1.084	0.461	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population										UMPC Extremity 4.0 W/kg (mW/g) averaged over 10 grams										

Note: 2.4 GHz WLAN MIMO was additionally evaluated at the maximum allowed output power during operations with Simultaneous 2.4 GHz WLAN and 5/6 GHz WLAN or 2.4 GHz WLAN and 5 NR active. 5/6 GHz WIFI and/or 5G NR were not transmitting during the above evaluations.

Table 11-145
5 GHz WLAN MIMO UMPC Extremity SAR for Conditions with 2.4 GHz WLAN and/or 5G NR Active

MEASUREMENT RESULTS																				
FREQUENCY		Mode	Service	Bandwidth [MHz]	Maximum Allowed Power (Ant 1) [dBm]	Conducted Power (Ant 1) [dBm]	Maximum Allowed Power (Ant 2) [dBm]	Conducted Power (Ant 2) [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	SAR (10g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (10g)	Plot #
MHz	Ch.															(W/kg)			(W/kg)	
5290	58	802.11ac	OFDM	80	15.0	14.76	15.0	14.55	-0.04	0 mm	MIMO	2038M	58.5	back	86.3	0.166	1.109	1.159	0.213	
5290	58	802.11ac	OFDM	80	15.0	14.76	15.0	14.55	0.01	0 mm	MIMO	2038M	58.5	front	86.3	0.156	1.109	1.159	0.201	
5290	58	802.11ac	OFDM	80	15.0	14.76	15.0	14.55	0.01	0 mm	MIMO	2038M	58.5	top	86.3	0.313	1.109	1.159	0.402	
5290	58	802.11ac	OFDM	80	15.0	14.76	15.0	14.55	0.02	0 mm	MIMO	2038M	58.5	bottom	86.3	0.203	1.109	1.159	0.261	
5690	138	802.11ac	OFDM	80	15.0	14.71	15.0	14.68	0.02	0 mm	MIMO	2038M	58.5	back	86.3	0.139	1.076	1.159	0.173	
5690	138	802.11ac	OFDM	80	15.0	14.71	15.0	14.68	-0.18	0 mm	MIMO	2038M	58.5	front	86.3	0.127	1.076	1.159	0.158	
5690	138	802.11ac	OFDM	80	15.0	14.71	15.0	14.68	0.06	0 mm	MIMO	2038M	58.5	top	86.3	0.191	1.076	1.159	0.238	
5690	138	802.11ac	OFDM	80	15.0	14.71	15.0	14.68	-0.02	0 mm	MIMO	2038M	58.5	bottom	86.3	0.118	1.076	1.159	0.147	
5775	155	802.11ac	OFDM	80	15.0	14.82	15.0	14.73	0.05	0 mm	MIMO	2038M	58.5	back	86.3	0.161	1.064	1.159	0.199	
5775	155	802.11ac	OFDM	80	15.0	14.82	15.0	14.73	0.00	0 mm	MIMO	2038M	58.5	front	86.3	0.162	1.064	1.159	0.200	
5775	155	802.11ac	OFDM	80	15.0	14.82	15.0	14.73	-0.12	0 mm	MIMO	2038M	58.5	top	86.3	0.208	1.064	1.159	0.257	
5775	155	802.11ac	OFDM	80	15.0	14.82	15.0	14.73	0.08	0 mm	MIMO	2038M	58.5	bottom	86.3	0.143	1.064	1.159	0.176	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population											UMPC Extremity 4.0 W/kg (mW/g) averaged over 10 grams									

Note: 5 GHz WLAN MIMO was additionally evaluated at the maximum allowed output power during operations with Simultaneous 2.4 GHz WLAN and 5 GHz WLAN or 5G NR and 5 GHz WLAN. 2.4 GHz WIFI and/or 5G NR were not transmitting during the above evaluations.

Table 11-146
2.4 GHz WLAN Antenna 2 UMPC Extremity SAR for Conditions with 5/6GHz WLAN and/or 5G NR Active

MEASUREMENT RESULTS																		
FREQUENCY		Mode	Service	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	SAR (10g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (10g)	Plot #
MHz	Ch.													(W/kg)			(W/kg)	
2437	6	802.11b	DSSS	22	15.0	14.86	0.01	0 mm	2	1997M	1	back	98.9	0.150	1.033	1.011	0.157	
2437	6	802.11b	DSSS	22	15.0	14.86	0.02	0 mm	2	1997M	1	front	98.9	0.141	1.033	1.011	0.147	
2437	6	802.11b	DSSS	22	15.0	14.86	-0.02	0 mm	2	1997M	1	bottom	98.9	0.191	1.033	1.011	0.199	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population								UMPC Extremity 4.0 W/kg (mW/g) averaged over 10 grams										

Note: 5/6 GHz WIFI and/or 5G NR were not transmitting during the above evaluations.

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Table 11-147
DSS UMPC Extremity SAR

MEASUREMENT RESULTS																	
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	SAR (10g)	Scaling Factor (Cond Power)	Scaling Factor (Duty Cycle)	Reported SAR (10g)	Plot #
MHz	Ch.												(W/kg)			(W/kg)	
2441	39	Bluetooth	FHSS	17.5	17.29	-0.10	0 mm	1	1580M	1	back	76.80	0.486	1.050	1.302	0.664	
2441	39	Bluetooth	FHSS	17.5	17.29	0.11	0 mm	1	1580M	1	front	76.80	0.496	1.050	1.302	0.678	
2441	39	Bluetooth	FHSS	17.5	17.29	0.05	0 mm	1	1580M	1	top	76.80	1.020	1.050	1.302	1.394	A176
2441	39	Bluetooth	FHSS	17.5	16.93	-0.02	0 mm	2	1997M	1	back	76.80	0.141	1.140	1.302	0.209	
2441	39	Bluetooth	FHSS	17.5	16.93	0.02	0 mm	2	1997M	1	front	76.80	0.176	1.140	1.302	0.261	
2441	39	Bluetooth	FHSS	17.5	16.93	-0.05	0 mm	2	1997M	1	bottom	76.80	0.177	1.140	1.302	0.263	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							UMPC Extremity 4.0 W/kg (mW/g) averaged over 10 grams										

Table 11-148
DSS UMPC Extremity SAR for Conditions with NR Active

MEASUREMENT RESULTS																	
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	SAR (10g)	Scaling Factor (Cond Power)	Scaling Factor (Duty Cycle)	Reported SAR (10g)	Plot #
MHz	Ch.												(W/kg)			(W/kg)	
2441	39	Bluetooth	FHSS	15.5	15.49	-0.02	0 mm	1	1997M	1	back	76.80	0.165	1.003	1.302	0.215	
2441	39	Bluetooth	FHSS	15.5	15.49	-0.04	0 mm	1	1997M	1	front	76.80	0.261	1.003	1.302	0.341	
2441	39	Bluetooth	FHSS	15.5	15.49	-0.03	0 mm	1	1997M	1	top	76.80	0.446	1.003	1.302	0.582	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							UMPC Extremity 4.0 W/kg (mW/g) averaged over 10 grams										

Note: 5G NR was not transmitting during the above evaluations.

Table 11-149
DSS UMPC Extremity SAR for Conditions with 5/6 GHz WLAN

MEASUREMENT RESULTS																	
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	SAR (10g)	Scaling Factor (Cond Power)	Scaling Factor (Duty Cycle)	Reported SAR (10g)	Plot #
MHz	Ch.												(W/kg)			(W/kg)	
2441	39	Bluetooth	FHSS	12.0	11.99	0.01	0 mm	1	1997M	1	back	76.80	0.110	1.003	1.302	0.144	
2441	39	Bluetooth	FHSS	12.0	11.99	0.10	0 mm	1	1997M	1	front	76.80	0.109	1.003	1.302	0.142	
2441	39	Bluetooth	FHSS	12.0	11.99	-0.08	0 mm	1	1997M	1	top	76.80	0.220	1.003	1.302	0.287	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							UMPC Extremity 4.0 W/kg (mW/g) averaged over 10 grams										

Note: 5/6 GHz WLAN were not transmitting during the above evaluations.

11.7 SAR Test Notes

General Notes:

1. The test data reported are the worst-case SAR values according to test procedures specified in IEEE 1528-2013, and FCC KDB Publication 447498 D01v06.
2. Batteries are fully charged at the beginning of the SAR measurements.
3. Liquid tissue depth was at least 15.0 cm for all frequencies.
4. The manufacturer has confirmed that the device(s) tested have the same physical, mechanical and thermal characteristics and are within operational tolerances expected for production units.
5. SAR results were scaled to the maximum allowed power to demonstrate compliance per FCC KDB Publication 447498 D01v06.

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6. Device was tested using a fixed spacing for body-worn accessory testing. A separation distance of 15 mm was considered because the manufacturer has determined that there will be body-worn accessories available in the marketplace for users to support this separation distance.
7. Per FCC KDB Publication 648474 D04v01r03, body-worn SAR was evaluated without a headset connected to the device. Since the standalone reported body-worn SAR was ≤ 1.2 W/kg, no additional body-worn SAR evaluations using a headset cable were required.
8. Per FCC KDB 865664 D01v01r04, variability SAR tests were performed when the measured SAR results for a frequency band were greater than or equal to 0.8 W/kg. Repeated SAR measurements are highlighted in the tables above for clarity. Please see Section 13 for variability analysis.
9. During SAR Testing for the Wireless Router conditions per FCC KDB Publication 941225 D06v02r01, the actual Portable Hotspot operation (with actual simultaneous transmission of a transmitter with WIFI) was not activated (See Section 6.7 for more details).
10. Per FCC KDB Publication 648474 D04v01r03, this device is considered a "phablet" when it is in closed configuration since the diagonal dimension is > 160 mm and < 200 mm. Therefore, phablet SAR tests are required when wireless router mode does not apply or if wireless router 1g SAR > 1.2 W/kg. Additional SAR tests for phablet SAR were evaluated per KDB 616217 Section 6 (See Section 6.9 for more information)
11. This device supports dynamic antenna tuning for some bands. Per FCC Guidance, SAR was measured according to the normally required SAR measurement configurations with tuner active. The auto-tune state determined by the device was verified before and after each SAR measurement and is listed in tables above. Please see Section 14 for supplemental data.
12. Unless otherwise noted, when 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds below.
13. Per FCC KDB Publication 941225 D07v01r02, this device is considered a "UMPC mini-tablet" when it is in open configuration. UMPC body 1g SAR tests are required on all surfaces and edges ≤ 25 mm from a transmitting antenna. Therefore, to address hand exposure, UMPC extremity 10g SAR tests are required at a test separation distance of 0 mm for all measured 1g SAR (at 10 mm) configurations.
14. This device uses Qualcomm Smart Transmit for 2G/3G/4G/5G operations to control and manage transmitting power in real time to ensure RF Exposure compliance. Per FCC Guidance, compliance for was assessed at the minimum of the time averaged power and the maximum output power for each band/mode/exposure condition (DSI).

GSM Test Notes:

1. Body-Worn accessory testing is typically associated with voice operations. Therefore, GSM voice was evaluated for body-worn SAR.
2. Justification for reduced test configurations per KDB Publication 941225 D01v03r01 and October 2013 TCB Workshop Notes: The source-based frame-averaged output power was evaluated for all GPRS/EDGE slot configurations. The configuration with the highest target frame averaged output power was evaluated for hotspot SAR. When the maximum frame-averaged powers are equivalent across two or more slots (within 0.25 dB), the configuration with the most number of time slots was tested.
3. Per FCC KDB Publication 447498 D01v06, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg for 1g evaluations then testing at the other channels is not required for such test configuration(s). When the maximum output power variation across the required test channels is $> \frac{1}{2}$ dB, instead of the middle channel, the highest output power channel was used.

CDMA Notes:

1. Head SAR for CDMA2000 mode was tested under RC3/SO55 per FCC KDB Publication 941225 D01v03r01.
2. Body-Worn SAR was tested with 1x RTT with TDSO / SO32 FCH Only. EVDO Rev0 and RevA and TDSO / SO32 FCH+SCH SAR tests were not required per the 3G SAR Test Reduction Procedure in FCC KDB Publication 941225 D01v03r01.

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- CDMA Wireless Router SAR is measured using Subtype 0/1 Physical Layer configurations for Rev. 0 according to KDB 941225 D01v03r01 procedures for data devices. Wireless Router SAR tests for Subtype 2 of Rev.A and 1x RTT configurations were not required per the 3G SAR Test Reduction Policy in KDB Publication 941225 D01v03r01.
- Head SAR was additionally evaluated using EVDO Rev. A to determine compliance for VoIP operations.
- Per FCC KDB Publication 447498 D01v06, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg for 1g evaluations then testing at the other channels is not required for such test configuration(s). When the maximum output power variation across the required test channels is $> \frac{1}{2}$ dB, instead of the middle channel, the highest output power channel was used.
- CDMA 1X Advanced technology was not required for SAR since the maximum allowed output powers for 1X Advanced was not more than 0.25 dB higher than the maximum powers for 1X.

UMTS Notes:

- UMTS mode was tested under RMC 12.2 kbps with HSPA Inactive per KDB Publication 941225 D01v03r01. AMR and HSPA SAR was not required per the 3G Test Reduction Procedure in KDB Publication 941225 D01v03r01.
- Per FCC KDB Publication 447498 D01v06, if the reported (scaled) SAR measured at the middle channel or highest output power channel for each test configuration is ≤ 0.8 W/kg for 1g evaluations then testing at the other channels is not required for such test configuration(s). When the maximum output power variation across the required test channels is $> \frac{1}{2}$ dB, instead of the middle channel, the highest output power channel was used.

LTE Notes:

- LTE test configurations are determined according to SAR Evaluation Considerations for LTE Devices in FCC KDB Publication 941225 D05v02r04. The general test procedures used for testing can be found in Section 8.6.4.
- MPR is permanently implemented for this device by the manufacturer. The specific manufacturer target MPR is indicated alongside the SAR results. MPR is enabled for this device, according to 3GPP TS36.101 Section 6.2.3 – 6.2.5 under Table 6.2.3-1.
- A-MPR was disabled for all SAR tests by setting NS=01 and MCC=001 on the base station simulator. SAR tests were performed with the same number of RB and RB offsets transmitting on all TTI frames (maximum TTI).
- Per FCC KDB Publication 447498 D01v06, when the reported LTE Band 41 or LTE Band 48 SAR measured at the highest output power channel in a given a test configuration was > 0.6 W/kg for 1g evaluations, testing at the other channels was required for such test configurations.
- TDD LTE was tested per the guidance provided in FCC KDB Publication 941225 D05v02r04. Testing was performed using UL-DL configuration 0 with 6 UL subframes and 2 S subframes using extended cyclic prefix only and special subframe configuration 6. SAR tests were performed at maximum output power and worst-case transmission duty factor in extended cyclic prefix. Per 3GPP 36.211 Section 4, the duty factor for special subframe configuration 6 using extended cyclic prefix is 0.633.
- Per KDB Publication 941225 D05Av01r02, SAR for downlink only LTE CA operations was not needed since the maximum average output power in LTE CA mode was not > 0.25 dB higher than the maximum output power when downlink carrier aggregation was inactive.
- This device supports Power Class 2 and Power Class 3 operations for LTE Band 41. The highest available duty cycle for Power Class 2 operations is 43.3 % using UL-DL configuration 1. Per FCC Guidance, all SAR tests were performed using Power Class 3. SAR with power class 2 at the available duty factor was additionally performed for the power class 3 configuration with the highest SAR configuration for each exposure conditions. Please see Section 14 for linearity results.
- For LTE Band 5, LTE Band 66, LTE Band 48, and LTE Band 41, per FCC guidance, SAR was first measured with only a single carrier active in the uplink (carrier aggregation not active). For each exposure condition, the uplink CA scenario with two component carriers was additionally tested for the configuration with the highest SAR when carrier aggregation was not active. The SCC was configured with the closest

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available contiguous channel. The two component carriers were configured so the resource blocks are physically allocated side by side to achieve the maximum output power.

9. This device supports LTE Band 41 ULCA active with Power Class 2. The highest SAR test configuration for each exposure condition in Power Class 3 with ULCA active was repeated with Power Class 2 with ULCA active.

NR Notes:

1. NR implementation supports SA and NSA mode. In EN-DC mode, NR operates with the LTE Bands shown in the NR FR1 checklist acting as anchor bands. Per FCC guidance, SAR tests for NR Bands and LTE Anchors Bands were performed separately due to limitations in SAR probe calibration factors.
2. Due to test setup limitations, SAR testing for NR was performed using test mode software to establish the connection.
3. Simultaneous transmission analysis for EN-DC operations is addressed in the Part 2 Test Report (Serial Number can be found in the bibliography).
4. This device additionally supports some EN-DC conditions where additional LTE carriers are added on the downlink only.
5. Per FCC Guidance, the device was configured with the tuner state selected by the device in LTE mode with auto-tune active at the same frequency as the NR test results. Additional tuner states were evaluated per April 2019 TCBC Workshop Guidance. Please see Section 14 for supplemental data.
6. Per FCC Guidance, NR modulations and RB Sizes/Offsets were selected for testing such that configurations with the highest output power were evaluated for SAR tests.
7. For final implementation, NR Band n41 and n77 slot configuration is synchronized using maximum duty cycle of 100%. SAR testing was performed using FTM mode with a 100% duty cycle applied to match final duty cycle.
8. Per FCC KDB Publication 447498 D01v06, when the reported NR Band n77 SAR measured at the highest output power channel in a given a test configuration was > 0.4 W/kg for 1g evaluations and > 1 W/kg for 10g evaluation, testing at the other channels was required for such test configurations.

WLAN Notes:

1. For held-to-ear, hotspot, phablet, and UMPC mini-tablet operations, the initial test position procedures were applied. When reported SAR for the initial test position is ≤ 0.4 W/kg for 1g evaluations, no additional testing for the remaining test positions was required. Otherwise, SAR is evaluated at the subsequent highest peak SAR positions until the reported SAR result is ≤ 0.8 W/kg or all test positions are measured.
2. Justification for test configurations for WLAN per KDB Publication 248227 D01v02r02 for 2.4 GHz WIFI single transmission chain operations, the highest measured maximum output power channel for DSSS was selected for SAR measurement. SAR for OFDM modes (2.4 GHz 802.11g/n/ax) was not required due to the maximum allowed powers and the highest reported DSSS SAR. See Section 8.7.5 for more information.
3. Justification for test configurations for WLAN per KDB Publication 248227 D01v02r02 for 5 GHz WIFI single transmission chain operations, the initial test configuration was selected according to the transmission mode with the highest maximum allowed powers. Other transmission modes were not investigated since the highest reported SAR for initial test configuration adjusted by the ratio of maximum output powers is less than 1.2 W/kg for 1g evaluations. See Section 8.7.6 for more information.
4. Per KDB Publication 248227 D01v02r02, SAR for MIMO was evaluated by following the simultaneous SAR provisions from KDB Publication 447498 D01v06 by either evaluating the sum of the 1g SAR values of each antenna transmitting independently or making a SAR measurement with both antennas transmitting simultaneously. Please see Section 12 for complete analysis.
5. When the maximum reported 1g averaged SAR is ≤ 0.8 W/kg, SAR testing on additional channels was not required. Otherwise, SAR for the next highest output power channel was required until the reported SAR result was ≤ 1.20 W/kg for 1g evaluations or all test channels were measured.
6. The device was configured to transmit continuously at the required data rate, channel bandwidth and signal modulation, using the highest transmission duty factor supported by the test mode tools. The

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reported SAR was scaled to the 100% transmission duty factor to determine compliance. Procedures used to measure the duty factor are identical to that in the associated EMC test reports.

7. When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

Bluetooth Notes

1. Bluetooth SAR was measured with the device connected to a call box with hopping disabled with DH5 operation and Tx Tests test mode type. Per October 2016 TCB Workshop Notes, the reported SAR was scaled to the 100% transmission duty factor to determine compliance. See Section 9.7 for the time domain plot and calculation for the duty factor of the device.
2. Head and Hotspot Bluetooth SAR were evaluated for BT BR tethering applications.

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12 FCC MULTI-TX AND ANTENNA SAR CONSIDERATIONS

12.1 Introduction

The following procedures adopted from FCC KDB Publication 447498 D01v06 are applicable to devices with built-in unlicensed transmitters such as 802.11 and Bluetooth devices which may simultaneously transmit with the licensed transmitter.

12.2 Simultaneous Transmission Procedures

This device contains transmitters that may operate simultaneously. Therefore, simultaneous transmission analysis is required. Per FCC KDB Publication 447498 D01v06 4.3.2 and IEEE 1528-2013 Section 6.3.4.1.2, simultaneous transmission SAR test exclusion may be applied when the sum of the 1g SAR for all the simultaneous transmitting antennas in a specific physical test configuration is ≤ 1.6 W/kg. The different test positions in an exposure condition may be considered collectively to determine SAR test exclusion according to the sum of 1g or 10g SAR.

Per FCC KDB Publication 941225 D06v02r01, the devices edges with antennas more than 2.5 cm from edge are not required to be evaluated for SAR ("–").

(*) For test positions that were not required to be evaluated for WLAN SAR per FCC KDB publication 248227, the worst case WLAN SAR result for the applicable exposure conditions was used for simultaneous transmission analysis.

For SAR summation, the highest reported SAR across all test distances was used as the most conservative evaluation for simultaneous transmission analysis for each device edge.

Qualcomm Smart Transmit algorithm in WWAN adds directly the time-averaged RF exposure from 4G and timeaveraged RF exposure from 5G NR. Smart Transmit algorithm controls the total RF exposure from both 4G and 5G NR to not exceed FCC limit. Therefore, simultaneous transmission compliance between 4G+5G operations is demonstrated in the Part 2 Report during algorithm validation.

Please refer to WIFI6E RF Exposure Report for 6 GHz WLAN standalone reported SAR results (report SN could be found in Section 1.11 - Bibliography).

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12.3 Head SAR Simultaneous Transmission Analysis

Table 12-1
Simultaneous Transmission Scenario with 2.4 GHz WLAN (Held to Ear)

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	2.4 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
Head SAR	CDMA/EVDO BC10 (§90S) Ant A	0.165	0.463	0.628
	CDMA/EVDO BC10 (§90S) Ant A + B	0.113	0.463	0.576
	CDMA/EVDO BC0 (§22H) Ant A	0.184	0.463	0.647
	CDMA/EVDO BC0 (§22H) Ant A + B	0.122	0.463	0.585
	PCS CDMA/EVDO	0.104	0.463	0.567
	GSM 850 Ant A	0.119	0.463	0.582
	GSM 850 Ant A + B	0.098	0.463	0.561
	GSM/GPRS 1900	0.054	0.463	0.517
	UMTS 850 Ant A	0.153	0.463	0.616
	UMTS 850 Ant A + B	0.108	0.463	0.571
	UMTS 1750	0.075	0.463	0.538
	UMTS 1900	0.106	0.463	0.569
	LTE Band 71 Ant A + B	0.098	0.463	0.561
	LTE Band 71 Ant A	0.069	0.463	0.532
	LTE Band 12 Ant A + B	0.148	0.463	0.611
	LTE Band 12 Ant A	0.125	0.463	0.588
	LTE Band 13 Ant A + B	0.107	0.463	0.570
	LTE Band 13 Ant A	0.108	0.463	0.571
	LTE Band 14 Ant A + B	0.110	0.463	0.573
	LTE Band 14 Ant A	0.102	0.463	0.565
	LTE Band 26 (Cell) Ant A	0.132	0.463	0.595
	LTE Band 26 (Cell) Ant A + B	0.137	0.463	0.600
	LTE Band 5 (Cell) Ant A	0.117	0.463	0.580
	LTE Band 5 (Cell) Ant A + B	0.150	0.463	0.613
	LTE Band 66 (AWS) Ant B	0.068	0.463	0.531
	LTE Band 66 (AWS) Ant E	0.404	0.463	0.867
	LTE Band 25 (PCS)	0.117	0.463	0.580
	LTE Band 30	0.068	0.463	0.531
	LTE Band 7	0.045	0.463	0.508
	LTE Band 48	0.258	0.463	0.721
	LTE Band 41	0.030	0.463	0.493
	NR Band n71 Antenna A + B	0.114	0.463	0.577
	NR Band n71 Antenna A	0.081	0.463	0.544
	NR Band n12 Antenna A + B	0.146	0.463	0.609
	NR Band n12 Antenna A	0.129	0.463	0.592
	NR Band n5 (Cell) Antenna A	0.108	0.463	0.571
	NR Band n5 (Cell) Antenna A + B	0.106	0.463	0.569
	NR Band n66 (AWS) Antenna B	0.082	0.463	0.545
	NR Band n66 (AWS) Antenna E	0.360	0.463	0.823
	NR Band n25 (PCS) Antenna B	0.098	0.463	0.561
	NR Band n25 (PCS) Antenna E	0.347	0.463	0.810
	NR Band n30	0.047	0.463	0.510
	NR Band n41	0.270	0.463	0.733
	NR Band n77 DoD Antenna E	0.135	0.463	0.598
	NR Band n77 DoD Antenna G	0.054	0.463	0.517
	NR Band n77 DoD Antenna F	0.502	0.463	0.965
	NR Band n77 DoD Antenna B	0.012	0.463	0.475
	NR Band n77 Antenna E	0.733	0.463	1.196
	NR Band n77 Antenna G	0.040	0.463	0.503
	NR Band n77 Antenna F	0.440	0.463	0.903
	NR Band n77 Antenna B	0.010	0.463	0.473

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Table 12-2
Simultaneous Transmission Scenario with 5 GHz WLAN (Held to Ear)

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	
		1	2	3	1+2	1+3
Head SAR	CDMA/EVDO BC10 (\$90S) Ant A	0.165	0.268	0.299	0.433	0.464
	CDMA/EVDO BC10 (\$90S) Ant A + B	0.113	0.268	0.299	0.381	0.412
	CDMA/EVDO BC0 (\$22H) Ant A	0.184	0.268	0.299	0.452	0.483
	CDMA/EVDO BC0 (\$22H) Ant A + B	0.122	0.268	0.299	0.390	0.421
	PCS CDMA/EVDO	0.104	0.268	0.299	0.372	0.403
	GSM 850 Ant A	0.119	0.268	0.299	0.387	0.418
	GSM 850 Ant A + B	0.098	0.268	0.299	0.366	0.397
	GSM/GPRS 1900	0.054	0.268	0.299	0.322	0.353
	UMTS 850 Ant A	0.153	0.268	0.299	0.421	0.452
	UMTS 850 Ant A + B	0.108	0.268	0.299	0.376	0.407
	UMTS 1750	0.075	0.268	0.299	0.343	0.374
	UMTS 1900	0.106	0.268	0.299	0.374	0.405
	LTE Band 71 Ant A + B	0.098	0.268	0.299	0.366	0.397
	LTE Band 71 Ant A	0.069	0.268	0.299	0.337	0.368
	LTE Band 12 Ant A + B	0.148	0.268	0.299	0.416	0.447
	LTE Band 12 Ant A	0.125	0.268	0.299	0.393	0.424
	LTE Band 13 Ant A + B	0.107	0.268	0.299	0.375	0.406
	LTE Band 13 Ant A	0.108	0.268	0.299	0.376	0.407
	LTE Band 14 Ant A + B	0.110	0.268	0.299	0.378	0.409
	LTE Band 14 Ant A	0.102	0.268	0.299	0.370	0.401
	LTE Band 26 (Cell) Ant A	0.132	0.268	0.299	0.400	0.431
	LTE Band 26 (Cell) Ant A + B	0.137	0.268	0.299	0.405	0.436
	LTE Band 5 (Cell) Ant A	0.117	0.268	0.299	0.385	0.416
	LTE Band 5 (Cell) Ant A + B	0.150	0.268	0.299	0.418	0.449
	LTE Band 66 (AWS) Ant B	0.068	0.268	0.299	0.336	0.367
	LTE Band 66 (AWS) Ant E	0.404	0.268	0.299	0.672	0.703
	LTE Band 25 (PCS)	0.117	0.268	0.299	0.385	0.416
	LTE Band 30	0.068	0.268	0.299	0.336	0.367
	LTE Band 7	0.045	0.268	0.299	0.313	0.344
	LTE Band 48	0.258	0.268	0.299	0.526	0.557
	LTE Band 41	0.030	0.268	0.299	0.298	0.329
	NR Band n71 Antenna A + B	0.114	0.268	0.299	0.382	0.413
	NR Band n71 Antenna A	0.081	0.268	0.299	0.349	0.380
	NR Band n12 Antenna A + B	0.146	0.268	0.299	0.414	0.445
	NR Band n12 Antenna A	0.129	0.268	0.299	0.397	0.428
	NR Band n5 (Cell) Antenna A	0.108	0.268	0.299	0.376	0.407
	NR Band n5 (Cell) Antenna A + B	0.106	0.268	0.299	0.374	0.405
	NR Band n66 (AWS) Antenna B	0.082	0.268	0.299	0.350	0.381
	NR Band n66 (AWS) Antenna E	0.360	0.268	0.299	0.628	0.659
	NR Band n25 (PCS) Antenna B	0.098	0.268	0.299	0.366	0.397
	NR Band n25 (PCS) Antenna E	0.347	0.268	0.299	0.615	0.646
	NR Band n30	0.047	0.268	0.299	0.315	0.346
	NR Band n41	0.270	0.268	0.299	0.538	0.569
	NR Band n77 DoD Antenna E	0.135	0.268	0.299	0.403	0.434
	NR Band n77 DoD Antenna G	0.054	0.268	0.299	0.322	0.353
	NR Band n77 DoD Antenna F	0.502	0.268	0.299	0.770	0.801
	NR Band n77 DoD Antenna B	0.012	0.268	0.299	0.280	0.311
	NR Band n77 Antenna E	0.733	0.268	0.299	1.001	1.032
	NR Band n77 Antenna G	0.040	0.268	0.299	0.308	0.339
	NR Band n77 Antenna F	0.440	0.268	0.299	0.708	0.739
	NR Band n77 Antenna B	0.010	0.268	0.299	0.278	0.309

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Table 12-3
Simultaneous Transmission Scenario with 6 GHz WLAN (Held to Ear)

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	6 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
Head SAR	CDMA/EVDO BC10 (§90S) Ant A	0.165	0.250	0.415
	CDMA/EVDO BC10 (§90S) Ant A + B	0.113	0.250	0.363
	CDMA/EVDO BC0 (§22H) Ant A	0.184	0.250	0.434
	CDMA/EVDO BC0 (§22H) Ant A + B	0.122	0.250	0.372
	PCS CDMA/EVDO	0.104	0.250	0.354
	GSM 850 Ant A	0.119	0.250	0.369
	GSM 850 Ant A + B	0.098	0.250	0.348
	GSM/GPRS 1900	0.054	0.250	0.304
	UMTS 850 Ant A	0.153	0.250	0.403
	UMTS 850 Ant A + B	0.108	0.250	0.358
	UMTS 1750	0.075	0.250	0.325
	UMTS 1900	0.106	0.250	0.356
	LTE Band 71 Ant A + B	0.098	0.250	0.348
	LTE Band 71 Ant A	0.069	0.250	0.319
	LTE Band 12 Ant A + B	0.148	0.250	0.398
	LTE Band 12 Ant A	0.125	0.250	0.375
	LTE Band 13 Ant A + B	0.107	0.250	0.357
	LTE Band 13 Ant A	0.108	0.250	0.358
	LTE Band 14 Ant A + B	0.110	0.250	0.360
	LTE Band 14 Ant A	0.102	0.250	0.352
	LTE Band 26 (Cell) Ant A	0.132	0.250	0.382
	LTE Band 26 (Cell) Ant A + B	0.137	0.250	0.387
	LTE Band 5 (Cell) Ant A	0.117	0.250	0.367
	LTE Band 5 (Cell) Ant A + B	0.150	0.250	0.400
	LTE Band 66 (AWS) Ant B	0.068	0.250	0.318
	LTE Band 66 (AWS) Ant E	0.404	0.250	0.654
	LTE Band 25 (PCS)	0.117	0.250	0.367
	LTE Band 30	0.068	0.250	0.318
	LTE Band 7	0.045	0.250	0.295
	LTE Band 48	0.258	0.250	0.508
	LTE Band 41	0.030	0.250	0.280
	NR Band n71 Antenna A + B	0.114	0.250	0.364
	NR Band n71 Antenna A	0.081	0.250	0.331
	NR Band n12 Antenna A + B	0.146	0.250	0.396
	NR Band n12 Antenna A	0.129	0.250	0.379
	NR Band n5 (Cell) Antenna A	0.108	0.250	0.358
	NR Band n5 (Cell) Antenna A + B	0.106	0.250	0.356
	NR Band n66 (AWS) Antenna B	0.082	0.250	0.332
	NR Band n66 (AWS) Antenna E	0.360	0.250	0.610
	NR Band n25 (PCS) Antenna B	0.098	0.250	0.348
	NR Band n25 (PCS) Antenna E	0.347	0.250	0.597
	NR Band n30	0.047	0.250	0.297
	NR Band n41	0.270	0.250	0.520
	NR Band n77 DoD Antenna E	0.135	0.250	0.385
	NR Band n77 DoD Antenna G	0.054	0.250	0.304
	NR Band n77 DoD Antenna F	0.502	0.250	0.752
	NR Band n77 DoD Antenna B	0.012	0.250	0.262
	NR Band n77 Antenna E	0.733	0.250	0.983
	NR Band n77 Antenna G	0.040	0.250	0.290
	NR Band n77 Antenna F	0.440	0.250	0.690
	NR Band n77 Antenna B	0.010	0.250	0.260

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Table 12-4
Simultaneous Transmission Scenario with 2.4 GHz WLAN MIMO and 5 GHz WLAN MIMO (Held to Ear)

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	2.4 GHz WLAN MIMO SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Head SAR	CDMA/EVDO BC10 (§90S) Ant A	0.165	0.463	0.299	0.927
	CDMA/EVDO BC10 (§90S) Ant A + B	0.113	0.463	0.299	0.875
	CDMA/EVDO BC0 (§22H) Ant A	0.184	0.463	0.299	0.946
	CDMA/EVDO BC0 (§22H) Ant A + B	0.122	0.463	0.299	0.884
	PCS CDMA/EVDO	0.104	0.463	0.299	0.866
	GSM 850 Ant A	0.119	0.463	0.299	0.881
	GSM 850 Ant A + B	0.098	0.463	0.299	0.860
	GSM/GPRS 1900	0.054	0.463	0.299	0.816
	UMTS 850 Ant A	0.153	0.463	0.299	0.915
	UMTS 850 Ant A + B	0.108	0.463	0.299	0.870
	UMTS 1750	0.075	0.463	0.299	0.837
	UMTS 1900	0.106	0.463	0.299	0.868
	LTE Band 71 Ant A + B	0.098	0.463	0.299	0.860
	LTE Band 71 Ant A	0.069	0.463	0.299	0.831
	LTE Band 12 Ant A + B	0.148	0.463	0.299	0.910
	LTE Band 12 Ant A	0.125	0.463	0.299	0.887
	LTE Band 13 Ant A + B	0.107	0.463	0.299	0.869
	LTE Band 13 Ant A	0.108	0.463	0.299	0.870
	LTE Band 14 Ant A + B	0.110	0.463	0.299	0.872
	LTE Band 14 Ant A	0.102	0.463	0.299	0.864
	LTE Band 26 (Cell) Ant A	0.132	0.463	0.299	0.894
	LTE Band 26 (Cell) Ant A + B	0.137	0.463	0.299	0.899
	LTE Band 5 (Cell) Ant A	0.117	0.463	0.299	0.879
	LTE Band 5 (Cell) Ant A + B	0.150	0.463	0.299	0.912
	LTE Band 66 (AWS) Ant B	0.068	0.463	0.299	0.830
	LTE Band 66 (AWS) Ant E	0.404	0.463	0.299	1.166
	LTE Band 25 (PCS)	0.117	0.463	0.299	0.879
	LTE Band 30	0.068	0.463	0.299	0.830
	LTE Band 7	0.045	0.463	0.299	0.807
	LTE Band 48	0.258	0.463	0.299	1.020
	LTE Band 41	0.030	0.463	0.299	0.792
	NR Band n71 Antenna A + B	0.114	0.463	0.299	0.876
	NR Band n71 Antenna A	0.081	0.463	0.299	0.843
	NR Band n12 Antenna A + B	0.146	0.463	0.299	0.908
	NR Band n12 Antenna A	0.129	0.463	0.299	0.891
	NR Band n5 (Cell) Antenna A	0.108	0.463	0.299	0.870
	NR Band n5 (Cell) Antenna A + B	0.106	0.463	0.299	0.868
	NR Band n66 (AWS) Antenna B	0.082	0.463	0.299	0.844
	NR Band n66 (AWS) Antenna E	0.360	0.463	0.299	1.122
	NR Band n25 (PCS) Antenna B	0.098	0.463	0.299	0.860
	NR Band n25 (PCS) Antenna E	0.347	0.463	0.299	1.109
	NR Band n30	0.047	0.463	0.299	0.809
	NR Band n41	0.270	0.463	0.299	1.032
	NR Band n77 DoD Antenna E	0.135	0.463	0.299	0.897
	NR Band n77 DoD Antenna G	0.054	0.463	0.299	0.816
	NR Band n77 DoD Antenna F	0.502	0.463	0.299	1.264
	NR Band n77 DoD Antenna B	0.012	0.463	0.299	0.774
	NR Band n77 Antenna E	0.733	0.463	0.299	1.495
	NR Band n77 Antenna G	0.040	0.463	0.299	0.802
	NR Band n77 Antenna F	0.440	0.463	0.299	1.202
	NR Band n77 Antenna B	0.010	0.463	0.299	0.772

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Table 12-5
Simultaneous Transmission Scenario with 2.4 GHz WLAN MIMO and 6 GHz WLAN MIMO (Held to Ear)

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	2.4 GHz WLAN MIMO SAR (W/kg)	6 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Head SAR	CDMA/EVDO BC10 (§90S) Ant A	0.165	0.463	0.250	0.878
	CDMA/EVDO BC10 (§90S) Ant A + B	0.113	0.463	0.250	0.826
	CDMA/EVDO BC0 (§22H) Ant A	0.184	0.463	0.250	0.897
	CDMA/EVDO BC0 (§22H) Ant A + B	0.122	0.463	0.250	0.835
	PCS CDMA/EVDO	0.104	0.463	0.250	0.817
	GSM 850 Ant A	0.119	0.463	0.250	0.832
	GSM 850 Ant A + B	0.098	0.463	0.250	0.811
	GSM/GPRS 1900	0.054	0.463	0.250	0.767
	UMTS 850 Ant A	0.153	0.463	0.250	0.866
	UMTS 850 Ant A + B	0.108	0.463	0.250	0.821
	UMTS 1750	0.075	0.463	0.250	0.788
	UMTS 1900	0.106	0.463	0.250	0.819
	LTE Band 71 Ant A + B	0.098	0.463	0.250	0.811
	LTE Band 71 Ant A	0.069	0.463	0.250	0.782
	LTE Band 12 Ant A + B	0.148	0.463	0.250	0.861
	LTE Band 12 Ant A	0.125	0.463	0.250	0.838
	LTE Band 13 Ant A + B	0.107	0.463	0.250	0.820
	LTE Band 13 Ant A	0.108	0.463	0.250	0.821
	LTE Band 14 Ant A + B	0.110	0.463	0.250	0.823
	LTE Band 14 Ant A	0.102	0.463	0.250	0.815
	LTE Band 26 (Cell) Ant A	0.132	0.463	0.250	0.845
	LTE Band 26 (Cell) Ant A + B	0.137	0.463	0.250	0.850
	LTE Band 5 (Cell) Ant A	0.117	0.463	0.250	0.830
	LTE Band 5 (Cell) Ant A + B	0.150	0.463	0.250	0.863
	LTE Band 66 (AWS) Ant B	0.068	0.463	0.250	0.781
	LTE Band 66 (AWS) Ant E	0.404	0.463	0.250	1.117
	LTE Band 25 (PCS)	0.117	0.463	0.250	0.830
	LTE Band 30	0.068	0.463	0.250	0.781
	LTE Band 7	0.045	0.463	0.250	0.758
	LTE Band 48	0.258	0.463	0.250	0.971
	LTE Band 41	0.030	0.463	0.250	0.743
	NR Band n71 Antenna A + B	0.114	0.463	0.250	0.827
	NR Band n71 Antenna A	0.081	0.463	0.250	0.794
	NR Band n12 Antenna A + B	0.146	0.463	0.250	0.859
	NR Band n12 Antenna A	0.129	0.463	0.250	0.842
	NR Band n5 (Cell) Antenna A	0.108	0.463	0.250	0.821
	NR Band n5 (Cell) Antenna A + B	0.106	0.463	0.250	0.819
	NR Band n66 (AWS) Antenna B	0.082	0.463	0.250	0.795
	NR Band n66 (AWS) Antenna E	0.360	0.463	0.250	1.073
	NR Band n25 (PCS) Antenna B	0.098	0.463	0.250	0.811
	NR Band n25 (PCS) Antenna E	0.347	0.463	0.250	1.060
	NR Band n30	0.047	0.463	0.250	0.760
	NR Band n41	0.270	0.463	0.250	0.983
	NR Band n77 DoD Antenna E	0.135	0.463	0.250	0.848
	NR Band n77 DoD Antenna G	0.054	0.463	0.250	0.767
	NR Band n77 DoD Antenna F	0.502	0.463	0.250	1.215
	NR Band n77 DoD Antenna B	0.012	0.463	0.250	0.725
	NR Band n77 Antenna E	0.733	0.463	0.250	1.446
	NR Band n77 Antenna G	0.040	0.463	0.250	0.753
	NR Band n77 Antenna F	0.440	0.463	0.250	1.153
	NR Band n77 Antenna B	0.010	0.463	0.250	0.723

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Table 12-6
Simultaneous Transmission Scenario with Bluetooth (Held to Ear)

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	Σ SAR (W/kg)	
		1	2	3	1+2	1+3
Head SAR	CDMA/EVDO BC10 (\$90S) Ant A	0.165	0.339	0.007	0.504	0.172
	CDMA/EVDO BC10 (\$90S) Ant A + B	0.113	0.339	0.007	0.452	0.120
	CDMA/EVDO BC0 (\$22H) Ant A	0.184	0.339	0.007	0.523	0.191
	CDMA/EVDO BC0 (\$22H) Ant A + B	0.122	0.339	0.007	0.461	0.129
	PCS CDMA/EVDO	0.104	0.339	0.007	0.443	0.111
	GSM 850 Ant A	0.119	0.339	0.007	0.458	0.126
	GSM 850 Ant A + B	0.098	0.339	0.007	0.437	0.105
	GSM/GPRS 1900	0.054	0.339	0.007	0.393	0.061
	UMTS 850 Ant A	0.153	0.339	0.007	0.492	0.160
	UMTS 850 Ant A + B	0.108	0.339	0.007	0.447	0.115
	UMTS 1750	0.075	0.339	0.007	0.414	0.082
	UMTS 1900	0.106	0.339	0.007	0.445	0.113
	LTE Band 71 Ant A + B	0.098	0.339	0.007	0.437	0.105
	LTE Band 71 Ant A	0.069	0.339	0.007	0.408	0.076
	LTE Band 12 Ant A + B	0.148	0.339	0.007	0.487	0.155
	LTE Band 12 Ant A	0.125	0.339	0.007	0.464	0.132
	LTE Band 13 Ant A + B	0.107	0.339	0.007	0.446	0.114
	LTE Band 13 Ant A	0.108	0.339	0.007	0.447	0.115
	LTE Band 14 Ant A + B	0.110	0.339	0.007	0.449	0.117
	LTE Band 14 Ant A	0.102	0.339	0.007	0.441	0.109
	LTE Band 26 (Cell) Ant A	0.132	0.339	0.007	0.471	0.139
	LTE Band 26 (Cell) Ant A + B	0.137	0.339	0.007	0.476	0.144
	LTE Band 5 (Cell) Ant A	0.117	0.339	0.007	0.456	0.124
	LTE Band 5 (Cell) Ant A + B	0.150	0.339	0.007	0.489	0.157
	LTE Band 66 (AWS) Ant B	0.068	0.339	0.007	0.407	0.075
	LTE Band 66 (AWS) Ant E	0.404	0.339	0.007	0.743	0.411
	LTE Band 25 (PCS)	0.117	0.339	0.007	0.456	0.124
	LTE Band 30	0.068	0.339	0.007	0.407	0.075
	LTE Band 7	0.045	0.339	0.007	0.384	0.052
	LTE Band 48	0.258	0.339	0.007	0.597	0.265
	LTE Band 41	0.030	0.339	0.007	0.369	0.037
	NR Band n71 Antenna A + B	0.114	0.339	0.007	0.453	0.121
	NR Band n71 Antenna A	0.081	0.339	0.007	0.420	0.088
	NR Band n12 Antenna A + B	0.146	0.339	0.007	0.485	0.153
	NR Band n12 Antenna A	0.129	0.339	0.007	0.468	0.136
	NR Band n5 (Cell) Antenna A	0.108	0.339	0.007	0.447	0.115
	NR Band n5 (Cell) Antenna A + B	0.106	0.339	0.007	0.445	0.113
	NR Band n66 (AWS) Antenna B	0.082	0.339	0.007	0.421	0.089
	NR Band n66 (AWS) Antenna E	0.360	0.339	0.007	0.699	0.367
	NR Band n25 (PCS) Antenna B	0.098	0.339	0.007	0.437	0.105
	NR Band n25 (PCS) Antenna E	0.347	0.339	0.007	0.686	0.354
	NR Band n30	0.047	0.339	0.007	0.386	0.054
	NR Band n41	0.270	0.339	0.007	0.609	0.277
	NR Band n77 DoD Antenna E	0.135	0.339	0.007	0.474	0.142
	NR Band n77 DoD Antenna G	0.054	0.339	0.007	0.393	0.061
	NR Band n77 DoD Antenna F	0.502	0.339	0.007	0.841	0.509
	NR Band n77 DoD Antenna B	0.012	0.339	0.007	0.351	0.019
	NR Band n77 Antenna E	0.733	0.339	0.007	1.072	0.740
	NR Band n77 Antenna G	0.040	0.339	0.007	0.379	0.047
	NR Band n77 Antenna F	0.440	0.339	0.007	0.779	0.447
	NR Band n77 Antenna B	0.010	0.339	0.007	0.349	0.017

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Table 12-7
Simultaneous Transmission Scenario with 2.4 GHz WLAN Antenna 2 and Bluetooth Antenna 1 (Held to Ear)

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Head SAR	CDMA/EVDO BC10 (S90S) Ant A	0.165	0.001	0.339	0.505
	CDMA/EVDO BC10 (S90S) Ant A + B	0.113	0.001	0.339	0.453
	CDMA/EVDO BC0 (S22H) Ant A	0.184	0.001	0.339	0.524
	CDMA/EVDO BC0 (S22H) Ant A + B	0.122	0.001	0.339	0.462
	PCS CDMA/EVDO	0.104	0.001	0.339	0.444
	GSM 850 Ant A	0.119	0.001	0.339	0.459
	GSM 850 Ant A + B	0.098	0.001	0.339	0.438
	GSM/GPRS 1900	0.054	0.001	0.339	0.394
	UMTS 850 Ant A	0.153	0.001	0.339	0.493
	UMTS 850 Ant A + B	0.108	0.001	0.339	0.448
	UMTS 1750	0.075	0.001	0.339	0.415
	UMTS 1900	0.106	0.001	0.339	0.446
	LTE Band 71 Ant A + B	0.098	0.001	0.339	0.438
	LTE Band 71 Ant A	0.069	0.001	0.339	0.409
	LTE Band 12 Ant A + B	0.148	0.001	0.339	0.488
	LTE Band 12 Ant A	0.125	0.001	0.339	0.465
	LTE Band 13 Ant A + B	0.107	0.001	0.339	0.447
	LTE Band 13 Ant A	0.108	0.001	0.339	0.448
	LTE Band 14 Ant A + B	0.110	0.001	0.339	0.450
	LTE Band 14 Ant A	0.102	0.001	0.339	0.442
	LTE Band 26 (Cell) Ant A	0.132	0.001	0.339	0.472
	LTE Band 26 (Cell) Ant A + B	0.137	0.001	0.339	0.477
	LTE Band 5 (Cell) Ant A	0.117	0.001	0.339	0.457
	LTE Band 5 (Cell) Ant A + B	0.150	0.001	0.339	0.490
	LTE Band 66 (AWS) Ant B	0.068	0.001	0.339	0.408
	LTE Band 66 (AWS) Ant E	0.404	0.001	0.339	0.744
	LTE Band 25 (PCS)	0.117	0.001	0.339	0.457
	LTE Band 30	0.068	0.001	0.339	0.408
	LTE Band 7	0.045	0.001	0.339	0.385
	LTE Band 48	0.258	0.001	0.339	0.598
	LTE Band 41	0.030	0.001	0.339	0.370
	NR Band n71 Antenna A + B	0.114	0.001	0.339	0.454
	NR Band n71 Antenna A	0.081	0.001	0.339	0.421
	NR Band n12 Antenna A + B	0.146	0.001	0.339	0.486
	NR Band n12 Antenna A	0.129	0.001	0.339	0.469
	NR Band n5 (Cell) Antenna A	0.108	0.001	0.339	0.448
	NR Band n5 (Cell) Antenna A + B	0.106	0.001	0.339	0.446
	NR Band n66 (AWS) Antenna B	0.082	0.001	0.339	0.422
	NR Band n66 (AWS) Antenna E	0.360	0.001	0.339	0.700
	NR Band n25 (PCS) Antenna B	0.098	0.001	0.339	0.438
	NR Band n25 (PCS) Antenna E	0.347	0.001	0.339	0.687
	NR Band n30	0.047	0.001	0.339	0.387
	NR Band n41	0.270	0.001	0.339	0.610
	NR Band n77 DoD Antenna E	0.135	0.001	0.339	0.475
	NR Band n77 DoD Antenna G	0.054	0.001	0.339	0.394
	NR Band n77 DoD Antenna F	0.502	0.001	0.339	0.842
	NR Band n77 DoD Antenna B	0.012	0.001	0.339	0.352
	NR Band n77 Antenna E	0.733	0.001	0.339	1.073
	NR Band n77 Antenna G	0.040	0.001	0.339	0.380
	NR Band n77 Antenna F	0.440	0.001	0.339	0.780
	NR Band n77 Antenna B	0.010	0.001	0.339	0.350

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Table 12-8
Simultaneous Transmission Scenario with 5 GHz WLAN MIMO and Bluetooth (Held to Ear)

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	Σ SAR (W/kg)	
		1	2	3	4	1+2+3	1+2+4
Head SAR	CDMA/EVDO BC10 (\$90S) Ant A	0.165	0.299	0.339	0.007	0.803	0.471
	CDMA/EVDO BC10 (\$90S) Ant A + B	0.113	0.299	0.339	0.007	0.751	0.419
	CDMA/EVDO BC0 (\$22H) Ant A	0.184	0.299	0.339	0.007	0.822	0.490
	CDMA/EVDO BC0 (\$22H) Ant A + B	0.122	0.299	0.339	0.007	0.760	0.428
	PCS CDMA/EVDO	0.104	0.299	0.339	0.007	0.742	0.410
	GSM 850 Ant A	0.119	0.299	0.339	0.007	0.757	0.425
	GSM 850 Ant A + B	0.098	0.299	0.339	0.007	0.736	0.404
	GSM/GPRS 1900	0.054	0.299	0.339	0.007	0.692	0.360
	UMTS 850 Ant A	0.153	0.299	0.339	0.007	0.791	0.459
	UMTS 850 Ant A + B	0.108	0.299	0.339	0.007	0.746	0.414
	UMTS 1750	0.075	0.299	0.339	0.007	0.713	0.381
	UMTS 1900	0.106	0.299	0.339	0.007	0.744	0.412
	LTE Band 71 Ant A + B	0.098	0.299	0.339	0.007	0.736	0.404
	LTE Band 71 Ant A	0.069	0.299	0.339	0.007	0.707	0.375
	LTE Band 12 Ant A + B	0.148	0.299	0.339	0.007	0.786	0.454
	LTE Band 12 Ant A	0.125	0.299	0.339	0.007	0.763	0.431
	LTE Band 13 Ant A + B	0.107	0.299	0.339	0.007	0.745	0.413
	LTE Band 13 Ant A	0.108	0.299	0.339	0.007	0.746	0.414
	LTE Band 14 Ant A + B	0.110	0.299	0.339	0.007	0.748	0.416
	LTE Band 14 Ant A	0.102	0.299	0.339	0.007	0.740	0.408
	LTE Band 26 (Cell) Ant A	0.132	0.299	0.339	0.007	0.770	0.438
	LTE Band 26 (Cell) Ant A + B	0.137	0.299	0.339	0.007	0.775	0.443
	LTE Band 5 (Cell) Ant A	0.117	0.299	0.339	0.007	0.755	0.423
	LTE Band 5 (Cell) Ant A + B	0.150	0.299	0.339	0.007	0.788	0.456
	LTE Band 66 (AWS) Ant B	0.068	0.299	0.339	0.007	0.706	0.374
	LTE Band 66 (AWS) Ant E	0.404	0.299	0.339	0.007	1.042	0.710
	LTE Band 25 (PCS)	0.117	0.299	0.339	0.007	0.755	0.423
	LTE Band 30	0.068	0.299	0.339	0.007	0.706	0.374
	LTE Band 7	0.045	0.299	0.339	0.007	0.683	0.351
	LTE Band 48	0.258	0.299	0.339	0.007	0.896	0.564
	LTE Band 41	0.030	0.299	0.339	0.007	0.668	0.336
	NR Band n71 Antenna A + B	0.114	0.299	0.339	0.007	0.752	0.420
	NR Band n71 Antenna A	0.081	0.299	0.339	0.007	0.719	0.387
	NR Band n12 Antenna A + B	0.146	0.299	0.339	0.007	0.784	0.452
	NR Band n12 Antenna A	0.129	0.299	0.339	0.007	0.767	0.435
	NR Band n5 (Cell) Antenna A	0.108	0.299	0.339	0.007	0.746	0.414
	NR Band n5 (Cell) Antenna A + B	0.106	0.299	0.339	0.007	0.744	0.412
	NR Band n66 (AWS) Antenna B	0.082	0.299	0.339	0.007	0.720	0.388
	NR Band n66 (AWS) Antenna E	0.360	0.299	0.339	0.007	0.998	0.666
	NR Band n25 (PCS) Antenna B	0.098	0.299	0.339	0.007	0.736	0.404
	NR Band n25 (PCS) Antenna E	0.347	0.299	0.339	0.007	0.985	0.653
	NR Band n30	0.047	0.299	0.339	0.007	0.685	0.353
	NR Band n41	0.270	0.299	0.339	0.007	0.908	0.576
	NR Band n77 DoD Antenna E	0.135	0.299	0.339	0.007	0.773	0.441
	NR Band n77 DoD Antenna G	0.054	0.299	0.339	0.007	0.692	0.360
	NR Band n77 DoD Antenna F	0.502	0.299	0.339	0.007	1.140	0.808
	NR Band n77 DoD Antenna B	0.012	0.299	0.339	0.007	0.650	0.318
	NR Band n77 Antenna E	0.733	0.299	0.339	0.007	1.371	1.039
	NR Band n77 Antenna G	0.040	0.299	0.339	0.007	0.678	0.346
	NR Band n77 Antenna F	0.440	0.299	0.339	0.007	1.078	0.746
	NR Band n77 Antenna B	0.010	0.299	0.339	0.007	0.648	0.316

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Table 12-9
Simultaneous Transmission Scenario with 6 GHz WLAN MIMO and Bluetooth (Held to Ear)

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	6 GHz WLAN MIMO SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	Σ SAR (W/kg)	
		1	2	3	4	1+2+3	1+2+4
Head SAR	CDMA/EVDO BC10 (\$90S) Ant A	0.165	0.250	0.339	0.007	0.754	0.422
	CDMA/EVDO BC10 (\$90S) Ant A + B	0.113	0.250	0.339	0.007	0.702	0.370
	CDMA/EVDO BC0 (\$22H) Ant A	0.184	0.250	0.339	0.007	0.773	0.441
	CDMA/EVDO BC0 (\$22H) Ant A + B	0.122	0.250	0.339	0.007	0.711	0.379
	PCS CDMA/EVDO	0.104	0.250	0.339	0.007	0.693	0.361
	GSM 850 Ant A	0.119	0.250	0.339	0.007	0.708	0.376
	GSM 850 Ant A + B	0.098	0.250	0.339	0.007	0.687	0.355
	GSM/GPRS 1900	0.054	0.250	0.339	0.007	0.643	0.311
	UMTS 850 Ant A	0.153	0.250	0.339	0.007	0.742	0.410
	UMTS 850 Ant A + B	0.108	0.250	0.339	0.007	0.697	0.365
	UMTS 1750	0.075	0.250	0.339	0.007	0.664	0.332
	UMTS 1900	0.106	0.250	0.339	0.007	0.695	0.363
	LTE Band 71 Ant A + B	0.098	0.250	0.339	0.007	0.687	0.355
	LTE Band 71 Ant A	0.069	0.250	0.339	0.007	0.658	0.326
	LTE Band 12 Ant A + B	0.148	0.250	0.339	0.007	0.737	0.405
	LTE Band 12 Ant A	0.125	0.250	0.339	0.007	0.714	0.382
	LTE Band 13 Ant A + B	0.107	0.250	0.339	0.007	0.696	0.364
	LTE Band 13 Ant A	0.108	0.250	0.339	0.007	0.697	0.365
	LTE Band 14 Ant A + B	0.110	0.250	0.339	0.007	0.699	0.367
	LTE Band 14 Ant A	0.102	0.250	0.339	0.007	0.691	0.359
	LTE Band 26 (Cell) Ant A	0.132	0.250	0.339	0.007	0.721	0.389
	LTE Band 26 (Cell) Ant A + B	0.137	0.250	0.339	0.007	0.726	0.394
	LTE Band 5 (Cell) Ant A	0.117	0.250	0.339	0.007	0.706	0.374
	LTE Band 5 (Cell) Ant A + B	0.150	0.250	0.339	0.007	0.739	0.407
	LTE Band 66 (AWS) Ant B	0.068	0.250	0.339	0.007	0.657	0.325
	LTE Band 66 (AWS) Ant E	0.404	0.250	0.339	0.007	0.993	0.661
	LTE Band 25 (PCS)	0.117	0.250	0.339	0.007	0.706	0.374
	LTE Band 30	0.068	0.250	0.339	0.007	0.657	0.325
	LTE Band 7	0.045	0.250	0.339	0.007	0.634	0.302
	LTE Band 48	0.258	0.250	0.339	0.007	0.847	0.515
	LTE Band 41	0.030	0.250	0.339	0.007	0.619	0.287
	NR Band n71 Antenna A + B	0.114	0.250	0.339	0.007	0.703	0.371
	NR Band n71 Antenna A	0.081	0.250	0.339	0.007	0.670	0.338
	NR Band n12 Antenna A + B	0.146	0.250	0.339	0.007	0.735	0.403
	NR Band n12 Antenna A	0.129	0.250	0.339	0.007	0.718	0.386
	NR Band n5 (Cell) Antenna A	0.108	0.250	0.339	0.007	0.697	0.365
	NR Band n5 (Cell) Antenna A + B	0.106	0.250	0.339	0.007	0.695	0.363
	NR Band n66 (AWS) Antenna B	0.082	0.250	0.339	0.007	0.671	0.339
	NR Band n66 (AWS) Antenna E	0.360	0.250	0.339	0.007	0.949	0.617
	NR Band n25 (PCS) Antenna B	0.098	0.250	0.339	0.007	0.687	0.355
	NR Band n25 (PCS) Antenna E	0.347	0.250	0.339	0.007	0.936	0.604
	NR Band n30	0.047	0.250	0.339	0.007	0.636	0.304
	NR Band n41	0.270	0.250	0.339	0.007	0.859	0.527
	NR Band n77 DoD Antenna E	0.135	0.250	0.339	0.007	0.724	0.392
	NR Band n77 DoD Antenna G	0.054	0.250	0.339	0.007	0.643	0.311
	NR Band n77 DoD Antenna F	0.502	0.250	0.339	0.007	1.091	0.759
	NR Band n77 DoD Antenna B	0.012	0.250	0.339	0.007	0.601	0.269
	NR Band n77 Antenna E	0.733	0.250	0.339	0.007	1.322	0.990
	NR Band n77 Antenna G	0.040	0.250	0.339	0.007	0.629	0.297
	NR Band n77 Antenna F	0.440	0.250	0.339	0.007	1.029	0.697
	NR Band n77 Antenna B	0.010	0.250	0.339	0.007	0.599	0.267

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Table 12-10
Simultaneous Transmission Scenario with 2.4 GHz WLAN Antenna 2, 5 GHz WLAN MIMO, and Bluetooth
Antenna 1, (Held to Ear)

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Head SAR	CDMA/EVDO BC10 (\$90S) Ant A	0.165	0.001	0.299	0.339	0.804
	CDMA/EVDO BC10 (\$90S) Ant A + B	0.113	0.001	0.299	0.339	0.752
	CDMA/EVDO BC0 (\$22H) Ant A	0.184	0.001	0.299	0.339	0.823
	CDMA/EVDO BC0 (\$22H) Ant A + B	0.122	0.001	0.299	0.339	0.761
	PCS CDMA/EVDO	0.104	0.001	0.299	0.339	0.743
	GSM 850 Ant A	0.119	0.001	0.299	0.339	0.758
	GSM 850 Ant A + B	0.098	0.001	0.299	0.339	0.737
	GSM/GPRS 1900	0.054	0.001	0.299	0.339	0.693
	UMTS 850 Ant A	0.153	0.001	0.299	0.339	0.792
	UMTS 850 Ant A + B	0.108	0.001	0.299	0.339	0.747
	UMTS 1750	0.075	0.001	0.299	0.339	0.714
	UMTS 1900	0.106	0.001	0.299	0.339	0.745
	LTE Band 71 Ant A + B	0.098	0.001	0.299	0.339	0.737
	LTE Band 71 Ant A	0.069	0.001	0.299	0.339	0.708
	LTE Band 12 Ant A + B	0.148	0.001	0.299	0.339	0.787
	LTE Band 12 Ant A	0.125	0.001	0.299	0.339	0.764
	LTE Band 13 Ant A + B	0.107	0.001	0.299	0.339	0.746
	LTE Band 13 Ant A	0.108	0.001	0.299	0.339	0.747
	LTE Band 14 Ant A + B	0.110	0.001	0.299	0.339	0.749
	LTE Band 14 Ant A	0.102	0.001	0.299	0.339	0.741
	LTE Band 26 (Cell) Ant A	0.132	0.001	0.299	0.339	0.771
	LTE Band 26 (Cell) Ant A + B	0.137	0.001	0.299	0.339	0.776
	LTE Band 5 (Cell) Ant A	0.117	0.001	0.299	0.339	0.756
	LTE Band 5 (Cell) Ant A + B	0.150	0.001	0.299	0.339	0.789
	LTE Band 66 (AWS) Ant B	0.068	0.001	0.299	0.339	0.707
	LTE Band 66 (AWS) Ant E	0.404	0.001	0.299	0.339	1.043
	LTE Band 25 (PCS)	0.117	0.001	0.299	0.339	0.756
	LTE Band 30	0.068	0.001	0.299	0.339	0.707
	LTE Band 7	0.045	0.001	0.299	0.339	0.684
	LTE Band 48	0.258	0.001	0.299	0.339	0.897
	LTE Band 41	0.030	0.001	0.299	0.339	0.669
	NR Band n71 Antenna A + B	0.114	0.001	0.299	0.339	0.753
	NR Band n71 Antenna A	0.081	0.001	0.299	0.339	0.720
	NR Band n12 Antenna A + B	0.146	0.001	0.299	0.339	0.785
	NR Band n12 Antenna A	0.129	0.001	0.299	0.339	0.768
	NR Band n5 (Cell) Antenna A	0.108	0.001	0.299	0.339	0.747
	NR Band n5 (Cell) Antenna A + B	0.106	0.001	0.299	0.339	0.745
	NR Band n66 (AWS) Antenna B	0.082	0.001	0.299	0.339	0.721
	NR Band n66 (AWS) Antenna E	0.360	0.001	0.299	0.339	0.999
	NR Band n25 (PCS) Antenna B	0.098	0.001	0.299	0.339	0.737
	NR Band n25 (PCS) Antenna E	0.347	0.001	0.299	0.339	0.986
	NR Band n30	0.047	0.001	0.299	0.339	0.686
	NR Band n41	0.270	0.001	0.299	0.339	0.909
	NR Band n77 DoD Antenna E	0.135	0.001	0.299	0.339	0.774
	NR Band n77 DoD Antenna G	0.054	0.001	0.299	0.339	0.693
	NR Band n77 DoD Antenna F	0.502	0.001	0.299	0.339	1.141
	NR Band n77 DoD Antenna B	0.012	0.001	0.299	0.339	0.651
	NR Band n77 Antenna E	0.733	0.001	0.299	0.339	1.372
	NR Band n77 Antenna G	0.040	0.001	0.299	0.339	0.679
	NR Band n77 Antenna F	0.440	0.001	0.299	0.339	1.079
	NR Band n77 Antenna B	0.010	0.001	0.299	0.339	0.649

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Table 12-11
Simultaneous Transmission Scenario with 2.4 GHz WLAN Antenna 2, 6 GHz WLAN MIMO, and Bluetooth
Antenna 1, (Held to Ear)

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	6 GHz WLAN MIMO SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Head SAR	CDMA/EVDO BC10 (\$90S) Ant A	0.165	0.001	0.250	0.339	0.755
	CDMA/EVDO BC10 (\$90S) Ant A + B	0.113	0.001	0.250	0.339	0.703
	CDMA/EVDO BC0 (\$22H) Ant A	0.184	0.001	0.250	0.339	0.774
	CDMA/EVDO BC0 (\$22H) Ant A + B	0.122	0.001	0.250	0.339	0.712
	PCS CDMA/EVDO	0.104	0.001	0.250	0.339	0.694
	GSM 850 Ant A	0.119	0.001	0.250	0.339	0.709
	GSM 850 Ant A + B	0.098	0.001	0.250	0.339	0.688
	GSM/GPRS 1900	0.054	0.001	0.250	0.339	0.644
	UMTS 850 Ant A	0.153	0.001	0.250	0.339	0.743
	UMTS 850 Ant A + B	0.108	0.001	0.250	0.339	0.698
	UMTS 1750	0.075	0.001	0.250	0.339	0.665
	UMTS 1900	0.106	0.001	0.250	0.339	0.696
	LTE Band 71 Ant A + B	0.098	0.001	0.250	0.339	0.688
	LTE Band 71 Ant A	0.069	0.001	0.250	0.339	0.659
	LTE Band 12 Ant A + B	0.148	0.001	0.250	0.339	0.738
	LTE Band 12 Ant A	0.125	0.001	0.250	0.339	0.715
	LTE Band 13 Ant A + B	0.107	0.001	0.250	0.339	0.697
	LTE Band 13 Ant A	0.108	0.001	0.250	0.339	0.698
	LTE Band 14 Ant A + B	0.110	0.001	0.250	0.339	0.700
	LTE Band 14 Ant A	0.102	0.001	0.250	0.339	0.692
	LTE Band 26 (Cell) Ant A	0.132	0.001	0.250	0.339	0.722
	LTE Band 26 (Cell) Ant A + B	0.137	0.001	0.250	0.339	0.727
	LTE Band 5 (Cell) Ant A	0.117	0.001	0.250	0.339	0.707
	LTE Band 5 (Cell) Ant A + B	0.150	0.001	0.250	0.339	0.740
	LTE Band 66 (AWS) Ant B	0.068	0.001	0.250	0.339	0.658
	LTE Band 66 (AWS) Ant E	0.404	0.001	0.250	0.339	0.994
	LTE Band 25 (PCS)	0.117	0.001	0.250	0.339	0.707
	LTE Band 30	0.068	0.001	0.250	0.339	0.658
	LTE Band 7	0.045	0.001	0.250	0.339	0.635
	LTE Band 48	0.258	0.001	0.250	0.339	0.848
	LTE Band 41	0.030	0.001	0.250	0.339	0.620
	NR Band n71 Antenna A + B	0.114	0.001	0.250	0.339	0.704
	NR Band n71 Antenna A	0.081	0.001	0.250	0.339	0.671
	NR Band n12 Antenna A + B	0.146	0.001	0.250	0.339	0.736
	NR Band n12 Antenna A	0.129	0.001	0.250	0.339	0.719
	NR Band n5 (Cell) Antenna A	0.108	0.001	0.250	0.339	0.698
	NR Band n5 (Cell) Antenna A + B	0.106	0.001	0.250	0.339	0.696
	NR Band n66 (AWS) Antenna B	0.082	0.001	0.250	0.339	0.672
	NR Band n66 (AWS) Antenna E	0.360	0.001	0.250	0.339	0.950
	NR Band n25 (PCS) Antenna B	0.098	0.001	0.250	0.339	0.688
	NR Band n25 (PCS) Antenna E	0.347	0.001	0.250	0.339	0.937
	NR Band n30	0.047	0.001	0.250	0.339	0.637
	NR Band n41	0.270	0.001	0.250	0.339	0.860
	NR Band n77 DoD Antenna E	0.135	0.001	0.250	0.339	0.725
	NR Band n77 DoD Antenna G	0.054	0.001	0.250	0.339	0.644
	NR Band n77 DoD Antenna F	0.502	0.001	0.250	0.339	1.092
	NR Band n77 DoD Antenna B	0.012	0.001	0.250	0.339	0.602
	NR Band n77 Antenna E	0.733	0.001	0.250	0.339	1.323
	NR Band n77 Antenna G	0.040	0.001	0.250	0.339	0.630
	NR Band n77 Antenna F	0.440	0.001	0.250	0.339	1.030
	NR Band n77 Antenna B	0.010	0.001	0.250	0.339	0.600

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12.4 Body-Worn Simultaneous Transmission Analysis

Table 12-12
Simultaneous Transmission Scenario with 2.4 GHz WLAN (Body-Worn at 1.5 cm)

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body - Worn SAR	CDMA BC10 (\$90S) Ant A	0.128	0.045	0.026	0.199
	CDMA BC10 (\$90S) Ant A + B	0.128	0.045	0.026	0.199
	CDMA BC0 (\$22H) Ant A	0.140	0.045	0.026	0.211
	CDMA BC0 (\$22H) Ant A + B	0.124	0.045	0.026	0.195
	PCS CDMA	0.624	0.045	0.026	0.695
	GSM 850 Ant A	0.158	0.045	0.026	0.229
	GSM 850 Ant A + B	0.086	0.045	0.026	0.157
	GSM 1900	0.334	0.045	0.026	0.405
	UMTS 850 Ant A	0.176	0.045	0.026	0.247
	UMTS 850 Ant A + B	0.102	0.045	0.026	0.173
	UMTS 1750	0.864	0.045	0.026	0.935
	UMTS 1900	0.753	0.045	0.026	0.824
	LTE Band 71 Ant A + B	0.195	0.045	0.026	0.266
	LTE Band 71 Ant A	0.132	0.045	0.026	0.203
	LTE Band 12 Ant A + B	0.210	0.045	0.026	0.281
	LTE Band 12 Ant A	0.136	0.045	0.026	0.207
	LTE Band 13 Ant A + B	0.127	0.045	0.026	0.198
	LTE Band 13 Ant A	0.143	0.045	0.026	0.214
	LTE Band 14 Ant A + B	0.127	0.045	0.026	0.198
	LTE Band 14 Ant A	0.140	0.045	0.026	0.211
	LTE Band 26 (Cell) Ant A	0.179	0.045	0.026	0.250
	LTE Band 26 (Cell) Ant A + B	0.127	0.045	0.026	0.198
	LTE Band 5 (Cell) Ant A	0.169	0.045	0.026	0.240
	LTE Band 5 (Cell) Ant A + B	0.154	0.045	0.026	0.225
	LTE Band 66 (AWS) Ant B	0.731	0.045	0.026	0.802
	LTE Band 66 (AWS) Ant E	0.142	0.045	0.026	0.213
	LTE Band 25 (PCS)	0.569	0.045	0.026	0.640
	LTE Band 30	0.528	0.045	0.026	0.599
	LTE Band 7	0.426	0.045	0.026	0.497
	LTE Band 48	0.093	0.045	0.026	0.164
	LTE Band 41	0.213	0.045	0.026	0.284
	NR Band n71 Antenna A + B	0.185	0.045	0.026	0.256
	NR Band n71 Antenna A	0.131	0.045	0.026	0.202
	NR Band n12 Antenna A + B	0.201	0.045	0.026	0.272
	NR Band n12 Antenna A	0.160	0.045	0.026	0.231
	NR Band n5 (Cell) Antenna A	0.142	0.045	0.026	0.213
	NR Band n5 (Cell) Antenna A + B	0.114	0.045	0.026	0.185
	NR Band n66 (AWS) Antenna B	0.719	0.045	0.026	0.790
	NR Band n66 (AWS) Antenna E	0.137	0.045	0.026	0.208
	NR Band n25 (PCS) Antenna B	0.666	0.045	0.026	0.737
	NR Band n25 (PCS) Antenna E	0.145	0.045	0.026	0.216
	NR Band n30	0.500	0.045	0.026	0.571
	NR Band n41	0.068	0.045	0.026	0.139
	NR Band n77 DoD Antenna E	0.076	0.045	0.026	0.147
	NR Band n77 DoD Antenna G	0.036	0.045	0.026	0.107
	NR Band n77 DoD Antenna F	0.177	0.045	0.026	0.248
	NR Band n77 DoD Antenna B	0.031	0.045	0.026	0.102
	NR Band n77 Antenna E	0.260	0.045	0.026	0.331
	NR Band n77 Antenna G	0.054	0.045	0.026	0.125
	NR Band n77 Antenna F	0.176	0.045	0.026	0.247
	NR Band n77 Antenna B	0.048	0.045	0.026	0.119

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Table 12-13
Simultaneous Transmission Scenario with 5 GHz WLAN (Body-Worn at 1.5 cm)

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	
		1	2	3	1+2	1+3
Body - Worn SAR	CDMA BC10 (\$90S) Ant A	0.128	0.000	0.004	0.128	0.132
	CDMA BC10 (\$90S) Ant A + B	0.128	0.000	0.004	0.128	0.132
	CDMA BC0 (\$22H) Ant A	0.140	0.000	0.004	0.140	0.144
	CDMA BC0 (\$22H) Ant A + B	0.124	0.000	0.004	0.124	0.128
	PCS CDMA	0.624	0.000	0.004	0.624	0.628
	GSM 850 Ant A	0.158	0.000	0.004	0.158	0.162
	GSM 850 Ant A + B	0.086	0.000	0.004	0.086	0.090
	GSM 1900	0.334	0.000	0.004	0.334	0.338
	UMTS 850 Ant A	0.176	0.000	0.004	0.176	0.180
	UMTS 850 Ant A + B	0.102	0.000	0.004	0.102	0.106
	UMTS 1750	0.864	0.000	0.004	0.864	0.868
	UMTS 1900	0.753	0.000	0.004	0.753	0.757
	LTE Band 71 Ant A + B	0.195	0.000	0.004	0.195	0.199
	LTE Band 71 Ant A	0.132	0.000	0.004	0.132	0.136
	LTE Band 12 Ant A + B	0.210	0.000	0.004	0.210	0.214
	LTE Band 12 Ant A	0.136	0.000	0.004	0.136	0.140
	LTE Band 13 Ant A + B	0.127	0.000	0.004	0.127	0.131
	LTE Band 13 Ant A	0.143	0.000	0.004	0.143	0.147
	LTE Band 14 Ant A + B	0.127	0.000	0.004	0.127	0.131
	LTE Band 14 Ant A	0.140	0.000	0.004	0.140	0.144
	LTE Band 26 (Cell) Ant A	0.179	0.000	0.004	0.179	0.183
	LTE Band 26 (Cell) Ant A + B	0.127	0.000	0.004	0.127	0.131
	LTE Band 5 (Cell) Ant A	0.169	0.000	0.004	0.169	0.173
	LTE Band 5 (Cell) Ant A + B	0.154	0.000	0.004	0.154	0.158
	LTE Band 66 (AWS) Ant B	0.731	0.000	0.004	0.731	0.735
	LTE Band 66 (AWS) Ant E	0.142	0.000	0.004	0.142	0.146
	LTE Band 25 (PCS)	0.569	0.000	0.004	0.569	0.573
	LTE Band 30	0.528	0.000	0.004	0.528	0.532
	LTE Band 7	0.426	0.000	0.004	0.426	0.430
	LTE Band 48	0.093	0.000	0.004	0.093	0.097
	LTE Band 41	0.213	0.000	0.004	0.213	0.217
	NR Band n71 Antenna A + B	0.185	0.000	0.004	0.185	0.189
	NR Band n71 Antenna A	0.131	0.000	0.004	0.131	0.135
	NR Band n12 Antenna A + B	0.201	0.000	0.004	0.201	0.205
	NR Band n12 Antenna A	0.160	0.000	0.004	0.160	0.164
	NR Band n5 (Cell) Antenna A	0.142	0.000	0.004	0.142	0.146
	NR Band n5 (Cell) Antenna A + B	0.114	0.000	0.004	0.114	0.118
	NR Band n66 (AWS) Antenna B	0.719	0.000	0.004	0.719	0.723
	NR Band n66 (AWS) Antenna E	0.137	0.000	0.004	0.137	0.141
	NR Band n25 (PCS) Antenna B	0.666	0.000	0.004	0.666	0.670
	NR Band n25 (PCS) Antenna E	0.145	0.000	0.004	0.145	0.149
	NR Band n30	0.500	0.000	0.004	0.500	0.504
	NR Band n41	0.068	0.000	0.004	0.068	0.072
	NR Band n77 DoD Antenna E	0.076	0.000	0.004	0.076	0.080
	NR Band n77 DoD Antenna G	0.036	0.000	0.004	0.036	0.040
	NR Band n77 DoD Antenna F	0.177	0.000	0.004	0.177	0.181
	NR Band n77 DoD Antenna B	0.031	0.000	0.004	0.031	0.035
	NR Band n77 Antenna E	0.260	0.000	0.004	0.260	0.264
	NR Band n77 Antenna G	0.054	0.000	0.004	0.054	0.058
	NR Band n77 Antenna F	0.176	0.000	0.004	0.176	0.180
	NR Band n77 Antenna B	0.048	0.000	0.004	0.048	0.052

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Table 12-14
Simultaneous Transmission Scenario with 6 GHz WLAN (Body-Worn at 1.5 cm)

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	6 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
Body - Worn SAR	CDMA BC10 (\$90S) Ant A	0.128	0.007	0.135
	CDMA BC10 (\$90S) Ant A + B	0.128	0.007	0.135
	CDMA BC0 (\$22H) Ant A	0.140	0.007	0.147
	CDMA BC0 (\$22H) Ant A + B	0.124	0.007	0.131
	PCS CDMA	0.624	0.007	0.631
	GSM 850 Ant A	0.158	0.007	0.165
	GSM 850 Ant A + B	0.086	0.007	0.093
	GSM 1900	0.334	0.007	0.341
	UMTS 850 Ant A	0.176	0.007	0.183
	UMTS 850 Ant A + B	0.102	0.007	0.109
	UMTS 1750	0.864	0.007	0.871
	UMTS 1900	0.753	0.007	0.760
	LTE Band 71 Ant A + B	0.195	0.007	0.202
	LTE Band 71 Ant A	0.132	0.007	0.139
	LTE Band 12 Ant A + B	0.210	0.007	0.217
	LTE Band 12 Ant A	0.136	0.007	0.143
	LTE Band 13 Ant A + B	0.127	0.007	0.134
	LTE Band 13 Ant A	0.143	0.007	0.150
	LTE Band 14 Ant A + B	0.127	0.007	0.134
	LTE Band 14 Ant A	0.140	0.007	0.147
	LTE Band 26 (Cell) Ant A	0.179	0.007	0.186
	LTE Band 26 (Cell) Ant A + B	0.127	0.007	0.134
	LTE Band 5 (Cell) Ant A	0.169	0.007	0.176
	LTE Band 5 (Cell) Ant A + B	0.154	0.007	0.161
	LTE Band 66 (AWS) Ant B	0.731	0.007	0.738
	LTE Band 66 (AWS) Ant E	0.142	0.007	0.149
	LTE Band 25 (PCS)	0.569	0.007	0.576
	LTE Band 30	0.528	0.007	0.535
	LTE Band 7	0.426	0.007	0.433
	LTE Band 48	0.093	0.007	0.100
	LTE Band 41	0.213	0.007	0.220
	NR Band n71 Antenna A + B	0.185	0.007	0.192
	NR Band n71 Antenna A	0.131	0.007	0.138
	NR Band n12 Antenna A + B	0.201	0.007	0.208
	NR Band n12 Antenna A	0.160	0.007	0.167
	NR Band n5 (Cell) Antenna A	0.142	0.007	0.149
	NR Band n5 (Cell) Antenna A + B	0.114	0.007	0.121
	NR Band n66 (AWS) Antenna B	0.719	0.007	0.726
	NR Band n66 (AWS) Antenna E	0.137	0.007	0.144
	NR Band n25 (PCS) Antenna B	0.666	0.007	0.673
	NR Band n25 (PCS) Antenna E	0.145	0.007	0.152
	NR Band n30	0.500	0.007	0.507
	NR Band n41	0.068	0.007	0.075
	NR Band n77 DoD Antenna E	0.076	0.007	0.083
	NR Band n77 DoD Antenna G	0.036	0.007	0.043
	NR Band n77 DoD Antenna F	0.177	0.007	0.184
	NR Band n77 DoD Antenna B	0.031	0.007	0.038
	NR Band n77 Antenna E	0.260	0.007	0.267
	NR Band n77 Antenna G	0.054	0.007	0.061
	NR Band n77 Antenna F	0.176	0.007	0.183
	NR Band n77 Antenna B	0.048	0.007	0.055

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Table 12-15
Simultaneous Transmission Scenario with 2.4 GHz WLAN MIMO and 5 GHz WLAN MIMO (Body-Worn at 1.5 cm)

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body - Worn SAR	CDMA BC10 (\$90S) Ant A	0.128	0.045	0.026	0.004	0.203
	CDMA BC10 (\$90S) Ant A + B	0.128	0.045	0.026	0.004	0.203
	CDMA BC0 (\$22H) Ant A	0.140	0.045	0.026	0.004	0.215
	CDMA BC0 (\$22H) Ant A + B	0.124	0.045	0.026	0.004	0.199
	PCS CDMA	0.624	0.045	0.026	0.004	0.699
	GSM 850 Ant A	0.158	0.045	0.026	0.004	0.233
	GSM 850 Ant A + B	0.086	0.045	0.026	0.004	0.161
	GSM 1900	0.334	0.045	0.026	0.004	0.409
	UMTS 850 Ant A	0.176	0.045	0.026	0.004	0.251
	UMTS 850 Ant A + B	0.102	0.045	0.026	0.004	0.177
	UMTS 1750	0.864	0.045	0.026	0.004	0.939
	UMTS 1900	0.753	0.045	0.026	0.004	0.828
	LTE Band 71 Ant A + B	0.195	0.045	0.026	0.004	0.270
	LTE Band 71 Ant A	0.132	0.045	0.026	0.004	0.207
	LTE Band 12 Ant A + B	0.210	0.045	0.026	0.004	0.285
	LTE Band 12 Ant A	0.136	0.045	0.026	0.004	0.211
	LTE Band 13 Ant A + B	0.127	0.045	0.026	0.004	0.202
	LTE Band 13 Ant A	0.143	0.045	0.026	0.004	0.218
	LTE Band 14 Ant A + B	0.127	0.045	0.026	0.004	0.202
	LTE Band 14 Ant A	0.140	0.045	0.026	0.004	0.215
	LTE Band 26 (Cell) Ant A	0.179	0.045	0.026	0.004	0.254
	LTE Band 26 (Cell) Ant A + B	0.127	0.045	0.026	0.004	0.202
	LTE Band 5 (Cell) Ant A	0.169	0.045	0.026	0.004	0.244
	LTE Band 5 (Cell) Ant A + B	0.154	0.045	0.026	0.004	0.229
	LTE Band 66 (AWS) Ant B	0.731	0.045	0.026	0.004	0.806
	LTE Band 66 (AWS) Ant E	0.142	0.045	0.026	0.004	0.217
	LTE Band 25 (PCS)	0.569	0.045	0.026	0.004	0.644
	LTE Band 30	0.528	0.045	0.026	0.004	0.603
	LTE Band 7	0.426	0.045	0.026	0.004	0.501
	LTE Band 48	0.093	0.045	0.026	0.004	0.168
	LTE Band 41	0.213	0.045	0.026	0.004	0.288
	NR Band n71 Antenna A + B	0.185	0.045	0.026	0.004	0.260
	NR Band n71 Antenna A	0.131	0.045	0.026	0.004	0.206
	NR Band n12 Antenna A + B	0.201	0.045	0.026	0.004	0.276
	NR Band n12 Antenna A	0.160	0.045	0.026	0.004	0.235
	NR Band n5 (Cell) Antenna A	0.142	0.045	0.026	0.004	0.217
	NR Band n5 (Cell) Antenna A + B	0.114	0.045	0.026	0.004	0.189
	NR Band n66 (AWS) Antenna B	0.719	0.045	0.026	0.004	0.794
	NR Band n66 (AWS) Antenna E	0.137	0.045	0.026	0.004	0.212
	NR Band n25 (PCS) Antenna B	0.666	0.045	0.026	0.004	0.741
	NR Band n25 (PCS) Antenna E	0.145	0.045	0.026	0.004	0.220
	NR Band n30	0.500	0.045	0.026	0.004	0.575
	NR Band n41	0.068	0.045	0.026	0.004	0.143
	NR Band n77 DoD Antenna E	0.076	0.045	0.026	0.004	0.151
	NR Band n77 DoD Antenna G	0.036	0.045	0.026	0.004	0.111
	NR Band n77 DoD Antenna F	0.177	0.045	0.026	0.004	0.252
	NR Band n77 DoD Antenna B	0.031	0.045	0.026	0.004	0.106
	NR Band n77 Antenna E	0.260	0.045	0.026	0.004	0.335
	NR Band n77 Antenna G	0.054	0.045	0.026	0.004	0.129
	NR Band n77 Antenna F	0.176	0.045	0.026	0.004	0.251
	NR Band n77 Antenna B	0.048	0.045	0.026	0.004	0.123

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Table 12-16
Simultaneous Transmission Scenario with 2.4 GHz WLAN MIMO and 6 GHz WLAN MIMO (Body-Worn at 1.5 cm)

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	6 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body - Worn SAR	CDMA BC10 (\$90S) Ant A	0.128	0.045	0.026	0.007	0.206
	CDMA BC10 (\$90S) Ant A + B	0.128	0.045	0.026	0.007	0.206
	CDMA BC0 (\$22H) Ant A	0.140	0.045	0.026	0.007	0.218
	CDMA BC0 (\$22H) Ant A + B	0.124	0.045	0.026	0.007	0.202
	PCS CDMA	0.624	0.045	0.026	0.007	0.702
	GSM 850 Ant A	0.158	0.045	0.026	0.007	0.236
	GSM 850 Ant A + B	0.086	0.045	0.026	0.007	0.164
	GSM 1900	0.334	0.045	0.026	0.007	0.412
	UMTS 850 Ant A	0.176	0.045	0.026	0.007	0.254
	UMTS 850 Ant A + B	0.102	0.045	0.026	0.007	0.180
	UMTS 1750	0.864	0.045	0.026	0.007	0.942
	UMTS 1900	0.753	0.045	0.026	0.007	0.831
	LTE Band 71 Ant A + B	0.195	0.045	0.026	0.007	0.273
	LTE Band 71 Ant A	0.132	0.045	0.026	0.007	0.210
	LTE Band 12 Ant A + B	0.210	0.045	0.026	0.007	0.288
	LTE Band 12 Ant A	0.136	0.045	0.026	0.007	0.214
	LTE Band 13 Ant A + B	0.127	0.045	0.026	0.007	0.205
	LTE Band 13 Ant A	0.143	0.045	0.026	0.007	0.221
	LTE Band 14 Ant A + B	0.127	0.045	0.026	0.007	0.205
	LTE Band 14 Ant A	0.140	0.045	0.026	0.007	0.218
	LTE Band 26 (Cell) Ant A	0.179	0.045	0.026	0.007	0.257
	LTE Band 26 (Cell) Ant A + B	0.127	0.045	0.026	0.007	0.205
	LTE Band 5 (Cell) Ant A	0.169	0.045	0.026	0.007	0.247
	LTE Band 5 (Cell) Ant A + B	0.154	0.045	0.026	0.007	0.232
	LTE Band 66 (AWS) Ant B	0.731	0.045	0.026	0.007	0.809
	LTE Band 66 (AWS) Ant E	0.142	0.045	0.026	0.007	0.220
	LTE Band 25 (PCS)	0.569	0.045	0.026	0.007	0.647
	LTE Band 30	0.528	0.045	0.026	0.007	0.606
	LTE Band 7	0.426	0.045	0.026	0.007	0.504
	LTE Band 48	0.093	0.045	0.026	0.007	0.171
	LTE Band 41	0.213	0.045	0.026	0.007	0.291
	NR Band n71 Antenna A + B	0.185	0.045	0.026	0.007	0.263
	NR Band n71 Antenna A	0.131	0.045	0.026	0.007	0.209
	NR Band n12 Antenna A + B	0.201	0.045	0.026	0.007	0.279
	NR Band n12 Antenna A	0.160	0.045	0.026	0.007	0.238
	NR Band n5 (Cell) Antenna A	0.142	0.045	0.026	0.007	0.220
	NR Band n5 (Cell) Antenna A + B	0.114	0.045	0.026	0.007	0.192
	NR Band n66 (AWS) Antenna B	0.719	0.045	0.026	0.007	0.797
	NR Band n66 (AWS) Antenna E	0.137	0.045	0.026	0.007	0.215
	NR Band n25 (PCS) Antenna B	0.666	0.045	0.026	0.007	0.744
	NR Band n25 (PCS) Antenna E	0.145	0.045	0.026	0.007	0.223
	NR Band n30	0.500	0.045	0.026	0.007	0.578
	NR Band n41	0.068	0.045	0.026	0.007	0.146
	NR Band n77 DoD Antenna E	0.076	0.045	0.026	0.007	0.154
	NR Band n77 DoD Antenna G	0.036	0.045	0.026	0.007	0.114
	NR Band n77 DoD Antenna F	0.177	0.045	0.026	0.007	0.255
	NR Band n77 DoD Antenna B	0.031	0.045	0.026	0.007	0.109
	NR Band n77 Antenna E	0.260	0.045	0.026	0.007	0.338
	NR Band n77 Antenna G	0.054	0.045	0.026	0.007	0.132
	NR Band n77 Antenna F	0.176	0.045	0.026	0.007	0.254
	NR Band n77 Antenna B	0.048	0.045	0.026	0.007	0.126

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Table 12-17
Simultaneous Transmission Scenario with Bluetooth (Body-Worn at 1.5 cm)

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	Σ SAR (W/kg)	
		1	2	3	1+2	1+3
Body - Worn SAR	CDMA BC10 (\$90S) Ant A	0.128	0.019	0.013	0.147	0.141
	CDMA BC10 (\$90S) Ant A + B	0.128	0.019	0.013	0.147	0.141
	CDMA BC0 (\$22H) Ant A	0.140	0.019	0.013	0.159	0.153
	CDMA BC0 (\$22H) Ant A + B	0.124	0.019	0.013	0.143	0.137
	PCS CDMA	0.624	0.019	0.013	0.643	0.637
	GSM 850 Ant A	0.158	0.019	0.013	0.177	0.171
	GSM 850 Ant A + B	0.086	0.019	0.013	0.105	0.099
	GSM 1900	0.334	0.019	0.013	0.353	0.347
	UMTS 850 Ant A	0.176	0.019	0.013	0.195	0.189
	UMTS 850 Ant A + B	0.102	0.019	0.013	0.121	0.115
	UMTS 1750	0.864	0.019	0.013	0.883	0.877
	UMTS 1900	0.753	0.019	0.013	0.772	0.766
	LTE Band 71 Ant A + B	0.195	0.019	0.013	0.214	0.208
	LTE Band 71 Ant A	0.132	0.019	0.013	0.151	0.145
	LTE Band 12 Ant A + B	0.210	0.019	0.013	0.229	0.223
	LTE Band 12 Ant A	0.136	0.019	0.013	0.155	0.149
	LTE Band 13 Ant A + B	0.127	0.019	0.013	0.146	0.140
	LTE Band 13 Ant A	0.143	0.019	0.013	0.162	0.156
	LTE Band 14 Ant A + B	0.127	0.019	0.013	0.146	0.140
	LTE Band 14 Ant A	0.140	0.019	0.013	0.159	0.153
	LTE Band 26 (Cell) Ant A	0.179	0.019	0.013	0.198	0.192
	LTE Band 26 (Cell) Ant A + B	0.127	0.019	0.013	0.146	0.140
	LTE Band 5 (Cell) Ant A	0.169	0.019	0.013	0.188	0.182
	LTE Band 5 (Cell) Ant A + B	0.154	0.019	0.013	0.173	0.167
	LTE Band 66 (AWS) Ant B	0.731	0.019	0.013	0.750	0.744
	LTE Band 66 (AWS) Ant E	0.142	0.019	0.013	0.161	0.155
	LTE Band 25 (PCS)	0.569	0.019	0.013	0.588	0.582
	LTE Band 30	0.528	0.019	0.013	0.547	0.541
	LTE Band 7	0.426	0.019	0.013	0.445	0.439
	LTE Band 48	0.093	0.019	0.013	0.112	0.106
	LTE Band 41	0.213	0.019	0.013	0.232	0.226
	NR Band n71 Antenna A + B	0.185	0.019	0.013	0.204	0.198
	NR Band n71 Antenna A	0.131	0.019	0.013	0.150	0.144
	NR Band n12 Antenna A + B	0.201	0.019	0.013	0.220	0.214
	NR Band n12 Antenna A	0.160	0.019	0.013	0.179	0.173
	NR Band n5 (Cell) Antenna A	0.142	0.019	0.013	0.161	0.155
	NR Band n5 (Cell) Antenna A + B	0.114	0.019	0.013	0.133	0.127
	NR Band n66 (AWS) Antenna B	0.719	0.019	0.013	0.738	0.732
	NR Band n66 (AWS) Antenna E	0.137	0.019	0.013	0.156	0.150
	NR Band n25 (PCS) Antenna B	0.666	0.019	0.013	0.685	0.679
	NR Band n25 (PCS) Antenna E	0.145	0.019	0.013	0.164	0.158
	NR Band n30	0.500	0.019	0.013	0.519	0.513
	NR Band n41	0.068	0.019	0.013	0.087	0.081
	NR Band n77 DoD Antenna E	0.076	0.019	0.013	0.095	0.089
	NR Band n77 DoD Antenna G	0.036	0.019	0.013	0.055	0.049
	NR Band n77 DoD Antenna F	0.177	0.019	0.013	0.196	0.190
	NR Band n77 DoD Antenna B	0.031	0.019	0.013	0.050	0.044
	NR Band n77 Antenna E	0.260	0.019	0.013	0.279	0.273
	NR Band n77 Antenna G	0.054	0.019	0.013	0.073	0.067
	NR Band n77 Antenna F	0.176	0.019	0.013	0.195	0.189
	NR Band n77 Antenna B	0.048	0.019	0.013	0.067	0.061

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Table 12-18
Simultaneous Transmission Scenario with 2.4 GHz WLAN Antenna 2 and Bluetooth Antenna 1 (Body-Worn at 1.5 cm)

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body - Worn SAR	CDMA BC10 (\$90S) Ant A	0.128	0.026	0.019	0.173
	CDMA BC10 (\$90S) Ant A + B	0.128	0.026	0.019	0.173
	CDMA BC0 (\$22H) Ant A	0.140	0.026	0.019	0.185
	CDMA BC0 (\$22H) Ant A + B	0.124	0.026	0.019	0.169
	PCS CDMA	0.624	0.026	0.019	0.669
	GSM 850 Ant A	0.158	0.026	0.019	0.203
	GSM 850 Ant A + B	0.086	0.026	0.019	0.131
	GSM 1900	0.334	0.026	0.019	0.379
	UMTS 850 Ant A	0.176	0.026	0.019	0.221
	UMTS 850 Ant A + B	0.102	0.026	0.019	0.147
	UMTS 1750	0.864	0.026	0.019	0.909
	UMTS 1900	0.753	0.026	0.019	0.798
	LTE Band 71 Ant A + B	0.195	0.026	0.019	0.240
	LTE Band 71 Ant A	0.132	0.026	0.019	0.177
	LTE Band 12 Ant A + B	0.210	0.026	0.019	0.255
	LTE Band 12 Ant A	0.136	0.026	0.019	0.181
	LTE Band 13 Ant A + B	0.127	0.026	0.019	0.172
	LTE Band 13 Ant A	0.143	0.026	0.019	0.188
	LTE Band 14 Ant A + B	0.127	0.026	0.019	0.172
	LTE Band 14 Ant A	0.140	0.026	0.019	0.185
	LTE Band 26 (Cell) Ant A	0.179	0.026	0.019	0.224
	LTE Band 26 (Cell) Ant A + B	0.127	0.026	0.019	0.172
	LTE Band 5 (Cell) Ant A	0.169	0.026	0.019	0.214
	LTE Band 5 (Cell) Ant A + B	0.154	0.026	0.019	0.199
	LTE Band 66 (AWS) Ant B	0.731	0.026	0.019	0.776
	LTE Band 66 (AWS) Ant E	0.142	0.026	0.019	0.187
	LTE Band 25 (PCS)	0.569	0.026	0.019	0.614
	LTE Band 30	0.528	0.026	0.019	0.573
	LTE Band 7	0.426	0.026	0.019	0.471
	LTE Band 48	0.093	0.026	0.019	0.138
	LTE Band 41	0.213	0.026	0.019	0.258
	NR Band n71 Antenna A + B	0.185	0.026	0.019	0.230
	NR Band n71 Antenna A	0.131	0.026	0.019	0.176
	NR Band n12 Antenna A + B	0.201	0.026	0.019	0.246
	NR Band n12 Antenna A	0.160	0.026	0.019	0.205
	NR Band n5 (Cell) Antenna A	0.142	0.026	0.019	0.187
	NR Band n5 (Cell) Antenna A + B	0.114	0.026	0.019	0.159
	NR Band n66 (AWS) Antenna B	0.719	0.026	0.019	0.764
	NR Band n66 (AWS) Antenna E	0.137	0.026	0.019	0.182
	NR Band n25 (PCS) Antenna B	0.666	0.026	0.019	0.711
	NR Band n25 (PCS) Antenna E	0.145	0.026	0.019	0.190
	NR Band n30	0.500	0.026	0.019	0.545
	NR Band n41	0.068	0.026	0.019	0.113
	NR Band n77 DoD Antenna E	0.076	0.026	0.019	0.121
	NR Band n77 DoD Antenna G	0.036	0.026	0.019	0.081
	NR Band n77 DoD Antenna F	0.177	0.026	0.019	0.222
	NR Band n77 DoD Antenna B	0.031	0.026	0.019	0.076
	NR Band n77 Antenna E	0.260	0.026	0.019	0.305
	NR Band n77 Antenna G	0.054	0.026	0.019	0.099
	NR Band n77 Antenna F	0.176	0.026	0.019	0.221
	NR Band n77 Antenna B	0.048	0.026	0.019	0.093

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Table 12-19
Simultaneous Transmission Scenario with 5 GHz WLAN MIMO and Bluetooth (Body-Worn at 1.5 cm)

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	Σ SAR (W/kg)	
		1	2	3	4	1+2+3	1+2+4
Body - Worn SAR	CDMA BC10 (\$90S) Ant A	0.128	0.004	0.019	0.013	0.151	0.145
	CDMA BC10 (\$90S) Ant A + B	0.128	0.004	0.019	0.013	0.151	0.145
	CDMA BC0 (\$22H) Ant A	0.140	0.004	0.019	0.013	0.163	0.157
	CDMA BC0 (\$22H) Ant A + B	0.124	0.004	0.019	0.013	0.147	0.141
	PCS CDMA	0.624	0.004	0.019	0.013	0.647	0.641
	GSM 850 Ant A	0.158	0.004	0.019	0.013	0.181	0.175
	GSM 850 Ant A + B	0.086	0.004	0.019	0.013	0.109	0.103
	GSM 1900	0.334	0.004	0.019	0.013	0.357	0.351
	UMTS 850 Ant A	0.176	0.004	0.019	0.013	0.199	0.193
	UMTS 850 Ant A + B	0.102	0.004	0.019	0.013	0.125	0.119
	UMTS 1750	0.864	0.004	0.019	0.013	0.887	0.881
	UMTS 1900	0.753	0.004	0.019	0.013	0.776	0.770
	LTE Band 71 Ant A + B	0.195	0.004	0.019	0.013	0.218	0.212
	LTE Band 71 Ant A	0.132	0.004	0.019	0.013	0.155	0.149
	LTE Band 12 Ant A + B	0.210	0.004	0.019	0.013	0.233	0.227
	LTE Band 12 Ant A	0.136	0.004	0.019	0.013	0.159	0.153
	LTE Band 13 Ant A + B	0.127	0.004	0.019	0.013	0.150	0.144
	LTE Band 13 Ant A	0.143	0.004	0.019	0.013	0.166	0.160
	LTE Band 14 Ant A + B	0.127	0.004	0.019	0.013	0.150	0.144
	LTE Band 14 Ant A	0.140	0.004	0.019	0.013	0.163	0.157
	LTE Band 26 (Cell) Ant A	0.179	0.004	0.019	0.013	0.202	0.196
	LTE Band 26 (Cell) Ant A + B	0.127	0.004	0.019	0.013	0.150	0.144
	LTE Band 5 (Cell) Ant A	0.169	0.004	0.019	0.013	0.192	0.186
	LTE Band 5 (Cell) Ant A + B	0.154	0.004	0.019	0.013	0.177	0.171
	LTE Band 66 (AWS) Ant B	0.731	0.004	0.019	0.013	0.754	0.748
	LTE Band 66 (AWS) Ant E	0.142	0.004	0.019	0.013	0.165	0.159
	LTE Band 25 (PCS)	0.569	0.004	0.019	0.013	0.592	0.586
	LTE Band 30	0.528	0.004	0.019	0.013	0.551	0.545
	LTE Band 7	0.426	0.004	0.019	0.013	0.449	0.443
	LTE Band 48	0.093	0.004	0.019	0.013	0.116	0.110
	LTE Band 41	0.213	0.004	0.019	0.013	0.236	0.230
	NR Band n71 Antenna A + B	0.185	0.004	0.019	0.013	0.208	0.202
	NR Band n71 Antenna A	0.131	0.004	0.019	0.013	0.154	0.148
	NR Band n12 Antenna A + B	0.201	0.004	0.019	0.013	0.224	0.218
	NR Band n12 Antenna A	0.160	0.004	0.019	0.013	0.183	0.177
	NR Band n5 (Cell) Antenna A	0.142	0.004	0.019	0.013	0.165	0.159
	NR Band n5 (Cell) Antenna A + B	0.114	0.004	0.019	0.013	0.137	0.131
	NR Band n66 (AWS) Antenna B	0.719	0.004	0.019	0.013	0.742	0.736
	NR Band n66 (AWS) Antenna E	0.137	0.004	0.019	0.013	0.160	0.154
	NR Band n25 (PCS) Antenna B	0.666	0.004	0.019	0.013	0.689	0.683
	NR Band n25 (PCS) Antenna E	0.145	0.004	0.019	0.013	0.168	0.162
	NR Band n30	0.500	0.004	0.019	0.013	0.523	0.517
	NR Band n41	0.068	0.004	0.019	0.013	0.091	0.085
	NR Band n77 DoD Antenna E	0.076	0.004	0.019	0.013	0.099	0.093
	NR Band n77 DoD Antenna G	0.036	0.004	0.019	0.013	0.059	0.053
	NR Band n77 DoD Antenna F	0.177	0.004	0.019	0.013	0.200	0.194
	NR Band n77 DoD Antenna B	0.031	0.004	0.019	0.013	0.054	0.048
	NR Band n77 Antenna E	0.260	0.004	0.019	0.013	0.283	0.277
	NR Band n77 Antenna G	0.054	0.004	0.019	0.013	0.077	0.071
	NR Band n77 Antenna F	0.176	0.004	0.019	0.013	0.199	0.193
	NR Band n77 Antenna B	0.048	0.004	0.019	0.013	0.071	0.065

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Table 12-20
Simultaneous Transmission Scenario with 6 GHz WLAN MIMO and Bluetooth (Body-Worn at 1.5 cm)

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	6 GHz WLAN MIMO SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	Σ SAR (W/kg)	
		1	2	3	4	1+2+3	1+2+4
Body - Worn SAR	CDMA BC10 (\$90S) Ant A	0.128	0.007	0.019	0.013	0.154	0.148
	CDMA BC10 (\$90S) Ant A + B	0.128	0.007	0.019	0.013	0.154	0.148
	CDMA BC0 (\$22H) Ant A	0.140	0.007	0.019	0.013	0.166	0.160
	CDMA BC0 (\$22H) Ant A + B	0.124	0.007	0.019	0.013	0.150	0.144
	PCS CDMA	0.624	0.007	0.019	0.013	0.650	0.644
	GSM 850 Ant A	0.158	0.007	0.019	0.013	0.184	0.178
	GSM 850 Ant A + B	0.086	0.007	0.019	0.013	0.112	0.106
	GSM 1900	0.334	0.007	0.019	0.013	0.360	0.354
	UMTS 850 Ant A	0.176	0.007	0.019	0.013	0.202	0.196
	UMTS 850 Ant A + B	0.102	0.007	0.019	0.013	0.128	0.122
	UMTS 1750	0.864	0.007	0.019	0.013	0.890	0.884
	UMTS 1900	0.753	0.007	0.019	0.013	0.779	0.773
	LTE Band 71 Ant A + B	0.195	0.007	0.019	0.013	0.221	0.215
	LTE Band 71 Ant A	0.132	0.007	0.019	0.013	0.158	0.152
	LTE Band 12 Ant A + B	0.210	0.007	0.019	0.013	0.236	0.230
	LTE Band 12 Ant A	0.136	0.007	0.019	0.013	0.162	0.156
	LTE Band 13 Ant A + B	0.127	0.007	0.019	0.013	0.153	0.147
	LTE Band 13 Ant A	0.143	0.007	0.019	0.013	0.169	0.163
	LTE Band 14 Ant A + B	0.127	0.007	0.019	0.013	0.153	0.147
	LTE Band 14 Ant A	0.140	0.007	0.019	0.013	0.166	0.160
	LTE Band 26 (Cell) Ant A	0.179	0.007	0.019	0.013	0.205	0.199
	LTE Band 26 (Cell) Ant A + B	0.127	0.007	0.019	0.013	0.153	0.147
	LTE Band 5 (Cell) Ant A	0.169	0.007	0.019	0.013	0.195	0.189
	LTE Band 5 (Cell) Ant A + B	0.154	0.007	0.019	0.013	0.180	0.174
	LTE Band 66 (AWS) Ant B	0.731	0.007	0.019	0.013	0.757	0.751
	LTE Band 66 (AWS) Ant E	0.142	0.007	0.019	0.013	0.168	0.162
	LTE Band 25 (PCS)	0.569	0.007	0.019	0.013	0.595	0.589
	LTE Band 30	0.528	0.007	0.019	0.013	0.554	0.548
	LTE Band 7	0.426	0.007	0.019	0.013	0.452	0.446
	LTE Band 48	0.093	0.007	0.019	0.013	0.119	0.113
	LTE Band 41	0.213	0.007	0.019	0.013	0.239	0.233
	NR Band n71 Antenna A + B	0.185	0.007	0.019	0.013	0.211	0.205
	NR Band n71 Antenna A	0.131	0.007	0.019	0.013	0.157	0.151
	NR Band n12 Antenna A + B	0.201	0.007	0.019	0.013	0.227	0.221
	NR Band n12 Antenna A	0.160	0.007	0.019	0.013	0.186	0.180
	NR Band n5 (Cell) Antenna A	0.142	0.007	0.019	0.013	0.168	0.162
	NR Band n5 (Cell) Antenna A + B	0.114	0.007	0.019	0.013	0.140	0.134
	NR Band n66 (AWS) Antenna B	0.719	0.007	0.019	0.013	0.745	0.739
	NR Band n66 (AWS) Antenna E	0.137	0.007	0.019	0.013	0.163	0.157
	NR Band n25 (PCS) Antenna B	0.666	0.007	0.019	0.013	0.692	0.686
	NR Band n25 (PCS) Antenna E	0.145	0.007	0.019	0.013	0.171	0.165
	NR Band n30	0.500	0.007	0.019	0.013	0.526	0.520
	NR Band n41	0.068	0.007	0.019	0.013	0.094	0.088
	NR Band n77 DoD Antenna E	0.076	0.007	0.019	0.013	0.102	0.096
	NR Band n77 DoD Antenna G	0.036	0.007	0.019	0.013	0.062	0.056
	NR Band n77 DoD Antenna F	0.177	0.007	0.019	0.013	0.203	0.197
	NR Band n77 DoD Antenna B	0.031	0.007	0.019	0.013	0.057	0.051
	NR Band n77 Antenna E	0.260	0.007	0.019	0.013	0.286	0.280
	NR Band n77 Antenna G	0.054	0.007	0.019	0.013	0.080	0.074
	NR Band n77 Antenna F	0.176	0.007	0.019	0.013	0.202	0.196
	NR Band n77 Antenna B	0.048	0.007	0.019	0.013	0.074	0.068

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Table 12-21
Simultaneous Transmission Scenario with 2.4 GHz WLAN Antenna 2, 5 GHz WLAN MIMO, and Bluetooth
Antenna 1, (Body-Worn at 1.5 cm)

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body - Worn SAR	CDMA BC10 (\$90S) Ant A	0.128	0.026	0.004	0.019	0.177
	CDMA BC10 (\$90S) Ant A + B	0.128	0.026	0.004	0.019	0.177
	CDMA BC0 (\$22H) Ant A	0.140	0.026	0.004	0.019	0.189
	CDMA BC0 (\$22H) Ant A + B	0.124	0.026	0.004	0.019	0.173
	PCS CDMA	0.624	0.026	0.004	0.019	0.673
	GSM 850 Ant A	0.158	0.026	0.004	0.019	0.207
	GSM 850 Ant A + B	0.086	0.026	0.004	0.019	0.135
	GSM 1900	0.334	0.026	0.004	0.019	0.383
	UMTS 850 Ant A	0.176	0.026	0.004	0.019	0.225
	UMTS 850 Ant A + B	0.102	0.026	0.004	0.019	0.151
	UMTS 1750	0.864	0.026	0.004	0.019	0.913
	UMTS 1900	0.753	0.026	0.004	0.019	0.802
	LTE Band 71 Ant A + B	0.195	0.026	0.004	0.019	0.244
	LTE Band 71 Ant A	0.132	0.026	0.004	0.019	0.181
	LTE Band 12 Ant A + B	0.210	0.026	0.004	0.019	0.259
	LTE Band 12 Ant A	0.136	0.026	0.004	0.019	0.185
	LTE Band 13 Ant A + B	0.127	0.026	0.004	0.019	0.176
	LTE Band 13 Ant A	0.143	0.026	0.004	0.019	0.192
	LTE Band 14 Ant A + B	0.127	0.026	0.004	0.019	0.176
	LTE Band 14 Ant A	0.140	0.026	0.004	0.019	0.189
	LTE Band 26 (Cell) Ant A	0.179	0.026	0.004	0.019	0.228
	LTE Band 26 (Cell) Ant A + B	0.127	0.026	0.004	0.019	0.176
	LTE Band 5 (Cell) Ant A	0.169	0.026	0.004	0.019	0.218
	LTE Band 5 (Cell) Ant A + B	0.154	0.026	0.004	0.019	0.203
	LTE Band 66 (AWS) Ant B	0.731	0.026	0.004	0.019	0.780
	LTE Band 66 (AWS) Ant E	0.142	0.026	0.004	0.019	0.191
	LTE Band 25 (PCS)	0.569	0.026	0.004	0.019	0.618
	LTE Band 30	0.528	0.026	0.004	0.019	0.577
	LTE Band 7	0.426	0.026	0.004	0.019	0.475
	LTE Band 48	0.093	0.026	0.004	0.019	0.142
	LTE Band 41	0.213	0.026	0.004	0.019	0.262
	NR Band n71 Antenna A + B	0.185	0.026	0.004	0.019	0.234
	NR Band n71 Antenna A	0.131	0.026	0.004	0.019	0.180
	NR Band n12 Antenna A + B	0.201	0.026	0.004	0.019	0.250
	NR Band n12 Antenna A	0.160	0.026	0.004	0.019	0.209
	NR Band n5 (Cell) Antenna A	0.142	0.026	0.004	0.019	0.191
	NR Band n5 (Cell) Antenna A + B	0.114	0.026	0.004	0.019	0.163
	NR Band n66 (AWS) Antenna B	0.719	0.026	0.004	0.019	0.768
	NR Band n66 (AWS) Antenna E	0.137	0.026	0.004	0.019	0.186
	NR Band n25 (PCS) Antenna B	0.666	0.026	0.004	0.019	0.715
	NR Band n25 (PCS) Antenna E	0.145	0.026	0.004	0.019	0.194
	NR Band n30	0.500	0.026	0.004	0.019	0.549
	NR Band n41	0.068	0.026	0.004	0.019	0.117
	NR Band n77 DoD Antenna E	0.076	0.026	0.004	0.019	0.125
	NR Band n77 DoD Antenna G	0.036	0.026	0.004	0.019	0.085
	NR Band n77 DoD Antenna F	0.177	0.026	0.004	0.019	0.226
	NR Band n77 DoD Antenna B	0.031	0.026	0.004	0.019	0.080
	NR Band n77 Antenna E	0.260	0.026	0.004	0.019	0.309
	NR Band n77 Antenna G	0.054	0.026	0.004	0.019	0.103
	NR Band n77 Antenna F	0.176	0.026	0.004	0.019	0.225
	NR Band n77 Antenna B	0.048	0.026	0.004	0.019	0.097

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Table 12-22
Simultaneous Transmission Scenario with 2.4 GHz WLAN Antenna 2, 6 GHz WLAN MIMO, and Bluetooth
Antenna 1, (Body-Worn at 1.5 cm)

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	6 GHz WLAN MIMO SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body - Worn SAR	CDMA BC10 (\$90S) Ant A	0.128	0.026	0.007	0.019	0.180
	CDMA BC10 (\$90S) Ant A + B	0.128	0.026	0.007	0.019	0.180
	CDMA BC0 (\$22H) Ant A	0.140	0.026	0.007	0.019	0.192
	CDMA BC0 (\$22H) Ant A + B	0.124	0.026	0.007	0.019	0.176
	PCS CDMA	0.624	0.026	0.007	0.019	0.676
	GSM 850 Ant A	0.158	0.026	0.007	0.019	0.210
	GSM 850 Ant A + B	0.086	0.026	0.007	0.019	0.138
	GSM 1900	0.334	0.026	0.007	0.019	0.386
	UMTS 850 Ant A	0.176	0.026	0.007	0.019	0.228
	UMTS 850 Ant A + B	0.102	0.026	0.007	0.019	0.154
	UMTS 1750	0.864	0.026	0.007	0.019	0.916
	UMTS 1900	0.753	0.026	0.007	0.019	0.805
	LTE Band 71 Ant A + B	0.195	0.026	0.007	0.019	0.247
	LTE Band 71 Ant A	0.132	0.026	0.007	0.019	0.184
	LTE Band 12 Ant A + B	0.210	0.026	0.007	0.019	0.262
	LTE Band 12 Ant A	0.136	0.026	0.007	0.019	0.188
	LTE Band 13 Ant A + B	0.127	0.026	0.007	0.019	0.179
	LTE Band 13 Ant A	0.143	0.026	0.007	0.019	0.195
	LTE Band 14 Ant A + B	0.127	0.026	0.007	0.019	0.179
	LTE Band 14 Ant A	0.140	0.026	0.007	0.019	0.192
	LTE Band 26 (Cell) Ant A	0.179	0.026	0.007	0.019	0.231
	LTE Band 26 (Cell) Ant A + B	0.127	0.026	0.007	0.019	0.179
	LTE Band 5 (Cell) Ant A	0.169	0.026	0.007	0.019	0.221
	LTE Band 5 (Cell) Ant A + B	0.154	0.026	0.007	0.019	0.206
	LTE Band 66 (AWS) Ant B	0.731	0.026	0.007	0.019	0.783
	LTE Band 66 (AWS) Ant E	0.142	0.026	0.007	0.019	0.194
	LTE Band 25 (PCS)	0.569	0.026	0.007	0.019	0.621
	LTE Band 30	0.528	0.026	0.007	0.019	0.580
	LTE Band 7	0.426	0.026	0.007	0.019	0.478
	LTE Band 48	0.093	0.026	0.007	0.019	0.145
	LTE Band 41	0.213	0.026	0.007	0.019	0.265
	NR Band n71 Antenna A + B	0.185	0.026	0.007	0.019	0.237
	NR Band n71 Antenna A	0.131	0.026	0.007	0.019	0.183
	NR Band n12 Antenna A + B	0.201	0.026	0.007	0.019	0.253
	NR Band n12 Antenna A	0.160	0.026	0.007	0.019	0.212
	NR Band n5 (Cell) Antenna A	0.142	0.026	0.007	0.019	0.194
	NR Band n5 (Cell) Antenna A + B	0.114	0.026	0.007	0.019	0.166
	NR Band n66 (AWS) Antenna B	0.719	0.026	0.007	0.019	0.771
	NR Band n66 (AWS) Antenna E	0.137	0.026	0.007	0.019	0.189
	NR Band n25 (PCS) Antenna B	0.666	0.026	0.007	0.019	0.718
	NR Band n25 (PCS) Antenna E	0.145	0.026	0.007	0.019	0.197
	NR Band n30	0.500	0.026	0.007	0.019	0.552
	NR Band n41	0.068	0.026	0.007	0.019	0.120
	NR Band n77 DoD Antenna E	0.076	0.026	0.007	0.019	0.128
	NR Band n77 DoD Antenna G	0.036	0.026	0.007	0.019	0.088
	NR Band n77 DoD Antenna F	0.177	0.026	0.007	0.019	0.229
	NR Band n77 DoD Antenna B	0.031	0.026	0.007	0.019	0.083
	NR Band n77 Antenna E	0.260	0.026	0.007	0.019	0.312
	NR Band n77 Antenna G	0.054	0.026	0.007	0.019	0.106
	NR Band n77 Antenna F	0.176	0.026	0.007	0.019	0.228
	NR Band n77 Antenna B	0.048	0.026	0.007	0.019	0.100

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12.5 Hotspot SAR Simultaneous Transmission Analysis

Table 12-23
Simultaneous Transmission Scenario with 2.4 GHz WLAN (Hotspot at 1.0 cm)

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Hotspot SAR	EVDO BC10 (\$90S) Ant A	0.344	0.471	0.204	1.019
	EVDO BC10 (\$90S) Ant A + B	0.333	0.471	0.204	1.008
	EVDO BC0 (\$22H) Ant A	0.364	0.471	0.204	1.039
	EVDO BC0 (\$22H) Ant A + B	0.312	0.471	0.204	0.987
	PCS EVDO	0.480	0.471	0.204	1.155
	GPRS 850 Ant A	0.390	0.471	0.204	1.065
	GPRS 850 Ant A + B	0.287	0.471	0.204	0.962
	GPRS 1900	0.542	0.471	0.204	1.217
	UMTS 850 Ant A	0.351	0.471	0.204	1.026
	UMTS 850 Ant A + B	0.243	0.471	0.204	0.918
	UMTS 1750	0.610	0.471	0.204	1.285
	UMTS 1900	0.468	0.471	0.204	1.143
	LTE Band 71 Ant A + B	0.305	0.471	0.204	0.980
	LTE Band 71 Ant A	0.300	0.471	0.204	0.975
	LTE Band 12 Ant A + B	0.411	0.471	0.204	1.086
	LTE Band 12 Ant A	0.347	0.471	0.204	1.022
	LTE Band 13 Ant A + B	0.296	0.471	0.204	0.971
	LTE Band 13 Ant A	0.284	0.471	0.204	0.959
	LTE Band 14 Ant A + B	0.312	0.471	0.204	0.987
	LTE Band 14 Ant A	0.299	0.471	0.204	0.974
	LTE Band 26 (Cell) Ant A	0.287	0.471	0.204	0.962
	LTE Band 26 (Cell) Ant A + B	0.295	0.471	0.204	0.970
	LTE Band 5 (Cell) Ant A	0.353	0.471	0.204	1.028
	LTE Band 5 (Cell) Ant A + B	0.349	0.471	0.204	1.024
	LTE Band 66 (AWS) Ant B	0.522	0.471	0.204	1.197
	LTE Band 66 (AWS) Ant E	0.510	0.471	0.204	1.185
	LTE Band 25 (PCS)	0.401	0.471	0.204	1.076
	LTE Band 30	0.620	0.471	0.204	1.295
	LTE Band 7	0.646	0.471	0.204	1.321
	LTE Band 48	0.219	0.471	0.204	0.894
	LTE Band 41	0.456	0.471	0.204	1.131
	NR Band n71 Antenna A + B	0.342	0.471	0.204	1.017
	NR Band n71 Antenna A	0.293	0.471	0.204	0.968
	NR Band n12 Antenna A + B	0.366	0.471	0.204	1.041
	NR Band n12 Antenna A	0.298	0.471	0.204	0.973
	NR Band n5 (Cell) Antenna A	0.262	0.471	0.204	0.937
	NR Band n5 (Cell) Antenna A + B	0.274	0.471	0.204	0.949
	NR Band n66 (AWS) Antenna B	0.594	0.471	0.204	1.269
	NR Band n66 (AWS) Antenna E	0.517	0.471	0.204	1.192
	NR Band n25 (PCS) Antenna B	0.495	0.471	0.204	1.170
	NR Band n25 (PCS) Antenna E	0.578	0.471	0.204	1.253
	NR Band n30	0.413	0.471	0.204	1.088
	NR Band n41	0.291	0.471	0.204	0.966
	NR Band n77 DoD Antenna E	0.131	0.471	0.204	0.806
	NR Band n77 DoD Antenna G	0.073	0.471	0.204	0.748
	NR Band n77 DoD Antenna F	0.385	0.471	0.204	1.060
	NR Band n77 DoD Antenna B	0.097	0.471	0.204	0.772
	NR Band n77 Antenna E	0.786	0.471	0.204	1.461
	NR Band n77 Antenna G	0.118	0.471	0.204	0.793
	NR Band n77 Antenna F	0.661	0.471	0.204	1.336
	NR Band n77 Antenna B	0.101	0.471	0.204	0.776

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Table 12-24
Simultaneous Transmission Scenario with 5 GHz WLAN (Hotspot at 1.0 cm)

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	
		1	2	3	1+2	1+3
Hotspot SAR	EVDO BC10 (\$90S) Ant A	0.344	0.070	0.063	0.414	0.407
	EVDO BC10 (\$90S) Ant A + B	0.333	0.070	0.063	0.403	0.396
	EVDO BC0 (\$22H) Ant A	0.364	0.070	0.063	0.434	0.427
	EVDO BC0 (\$22H) Ant A + B	0.312	0.070	0.063	0.382	0.375
	PCS EVDO	0.480	0.070	0.063	0.550	0.543
	GPRS 850 Ant A	0.390	0.070	0.063	0.460	0.453
	GPRS 850 Ant A + B	0.287	0.070	0.063	0.357	0.350
	GPRS 1900	0.542	0.070	0.063	0.612	0.605
	UMTS 850 Ant A	0.351	0.070	0.063	0.421	0.414
	UMTS 850 Ant A + B	0.243	0.070	0.063	0.313	0.306
	UMTS 1750	0.610	0.070	0.063	0.680	0.673
	UMTS 1900	0.468	0.070	0.063	0.538	0.531
	LTE Band 71 Ant A + B	0.305	0.070	0.063	0.375	0.368
	LTE Band 71 Ant A	0.300	0.070	0.063	0.370	0.363
	LTE Band 12 Ant A + B	0.411	0.070	0.063	0.481	0.474
	LTE Band 12 Ant A	0.347	0.070	0.063	0.417	0.410
	LTE Band 13 Ant A + B	0.296	0.070	0.063	0.366	0.359
	LTE Band 13 Ant A	0.284	0.070	0.063	0.354	0.347
	LTE Band 14 Ant A + B	0.312	0.070	0.063	0.382	0.375
	LTE Band 14 Ant A	0.299	0.070	0.063	0.369	0.362
	LTE Band 26 (Cell) Ant A	0.287	0.070	0.063	0.357	0.350
	LTE Band 26 (Cell) Ant A + B	0.295	0.070	0.063	0.365	0.358
	LTE Band 5 (Cell) Ant A	0.353	0.070	0.063	0.423	0.416
	LTE Band 5 (Cell) Ant A + B	0.349	0.070	0.063	0.419	0.412
	LTE Band 66 (AWS) Ant B	0.522	0.070	0.063	0.592	0.585
	LTE Band 66 (AWS) Ant E	0.510	0.070	0.063	0.580	0.573
	LTE Band 25 (PCS)	0.401	0.070	0.063	0.471	0.464
	LTE Band 30	0.620	0.070	0.063	0.690	0.683
	LTE Band 7	0.646	0.070	0.063	0.716	0.709
	LTE Band 48	0.219	0.070	0.063	0.289	0.282
	LTE Band 41	0.456	0.070	0.063	0.526	0.519
	NR Band n71 Antenna A + B	0.342	0.070	0.063	0.412	0.405
	NR Band n71 Antenna A	0.293	0.070	0.063	0.363	0.356
	NR Band n12 Antenna A + B	0.366	0.070	0.063	0.436	0.429
	NR Band n12 Antenna A	0.298	0.070	0.063	0.368	0.361
	NR Band n5 (Cell) Antenna A	0.262	0.070	0.063	0.332	0.325
	NR Band n5 (Cell) Antenna A + B	0.274	0.070	0.063	0.344	0.337
	NR Band n66 (AWS) Antenna B	0.594	0.070	0.063	0.664	0.657
	NR Band n66 (AWS) Antenna E	0.517	0.070	0.063	0.587	0.580
	NR Band n25 (PCS) Antenna B	0.495	0.070	0.063	0.565	0.558
	NR Band n25 (PCS) Antenna E	0.578	0.070	0.063	0.648	0.641
	NR Band n30	0.413	0.070	0.063	0.483	0.476
	NR Band n41	0.291	0.070	0.063	0.361	0.354
	NR Band n77 DoD Antenna E	0.131	0.070	0.063	0.201	0.194
	NR Band n77 DoD Antenna G	0.073	0.070	0.063	0.143	0.136
	NR Band n77 DoD Antenna F	0.385	0.070	0.063	0.455	0.448
	NR Band n77 DoD Antenna B	0.097	0.070	0.063	0.167	0.160
	NR Band n77 Antenna E	0.786	0.070	0.063	0.856	0.849
	NR Band n77 Antenna G	0.118	0.070	0.063	0.188	0.181
	NR Band n77 Antenna F	0.661	0.070	0.063	0.731	0.724
	NR Band n77 Antenna B	0.101	0.070	0.063	0.171	0.164

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Table 12-25
Simultaneous Transmission Scenario with 2.4 GHz WLAN MIMO and 5 GHz WLAN MIMO (Hotspot at 1.0 cm)

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	2.4 GHz WLAN Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Hotspot SAR	EVDO BC10 (\$90S) Ant A	0.344	0.471	0.204	0.063	1.082
	EVDO BC10 (\$90S) Ant A + B	0.333	0.471	0.204	0.063	1.071
	EVDO BC0 (\$22H) Ant A	0.364	0.471	0.204	0.063	1.102
	EVDO BC0 (\$22H) Ant A + B	0.312	0.471	0.204	0.063	1.050
	PCS EVDO	0.480	0.471	0.204	0.063	1.218
	GPRS 850 Ant A	0.390	0.471	0.204	0.063	1.128
	GPRS 850 Ant A + B	0.287	0.471	0.204	0.063	1.025
	GPRS 1900	0.542	0.471	0.204	0.063	1.280
	UMTS 850 Ant A	0.351	0.471	0.204	0.063	1.089
	UMTS 850 Ant A + B	0.243	0.471	0.204	0.063	0.981
	UMTS 1750	0.610	0.471	0.204	0.063	1.348
	UMTS 1900	0.468	0.471	0.204	0.063	1.206
	LTE Band 71 Ant A + B	0.305	0.471	0.204	0.063	1.043
	LTE Band 71 Ant A	0.300	0.471	0.204	0.063	1.038
	LTE Band 12 Ant A + B	0.411	0.471	0.204	0.063	1.149
	LTE Band 12 Ant A	0.347	0.471	0.204	0.063	1.085
	LTE Band 13 Ant A + B	0.296	0.471	0.204	0.063	1.034
	LTE Band 13 Ant A	0.284	0.471	0.204	0.063	1.022
	LTE Band 14 Ant A + B	0.312	0.471	0.204	0.063	1.050
	LTE Band 14 Ant A	0.299	0.471	0.204	0.063	1.037
	LTE Band 26 (Cell) Ant A	0.287	0.471	0.204	0.063	1.025
	LTE Band 26 (Cell) Ant A + B	0.295	0.471	0.204	0.063	1.033
	LTE Band 5 (Cell) Ant A	0.353	0.471	0.204	0.063	1.091
	LTE Band 5 (Cell) Ant A + B	0.349	0.471	0.204	0.063	1.087
	LTE Band 66 (AWS) Ant B	0.522	0.471	0.204	0.063	1.260
	LTE Band 66 (AWS) Ant E	0.510	0.471	0.204	0.063	1.248
	LTE Band 25 (PCS)	0.401	0.471	0.204	0.063	1.139
	LTE Band 30	0.620	0.471	0.204	0.063	1.358
	LTE Band 7	0.646	0.471	0.204	0.063	1.384
	LTE Band 48	0.219	0.471	0.204	0.063	0.957
	LTE Band 41	0.456	0.471	0.204	0.063	1.194
	NR Band n71 Antenna A + B	0.342	0.471	0.204	0.063	1.080
	NR Band n71 Antenna A	0.293	0.471	0.204	0.063	1.031
	NR Band n12 Antenna A + B	0.366	0.471	0.204	0.063	1.104
	NR Band n12 Antenna A	0.298	0.471	0.204	0.063	1.036
	NR Band n5 (Cell) Antenna A	0.262	0.471	0.204	0.063	1.000
	NR Band n5 (Cell) Antenna A + B	0.274	0.471	0.204	0.063	1.012
	NR Band n66 (AWS) Antenna B	0.594	0.471	0.204	0.063	1.332
	NR Band n66 (AWS) Antenna E	0.517	0.471	0.204	0.063	1.255
	NR Band n25 (PCS) Antenna B	0.495	0.471	0.204	0.063	1.233
	NR Band n25 (PCS) Antenna E	0.578	0.471	0.204	0.063	1.316
	NR Band n30	0.413	0.471	0.204	0.063	1.151
	NR Band n41	0.291	0.471	0.204	0.063	1.029
	NR Band n77 DoD Antenna E	0.131	0.471	0.204	0.063	0.869
	NR Band n77 DoD Antenna G	0.073	0.471	0.204	0.063	0.811
	NR Band n77 DoD Antenna F	0.385	0.471	0.204	0.063	1.123
	NR Band n77 DoD Antenna B	0.097	0.471	0.204	0.063	0.835
	NR Band n77 Antenna E	0.786	0.471	0.204	0.063	1.524
	NR Band n77 Antenna G	0.118	0.471	0.204	0.063	0.856
	NR Band n77 Antenna F	0.661	0.471	0.204	0.063	1.399
	NR Band n77 Antenna B	0.101	0.471	0.204	0.063	0.839

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Table 12-26
Simultaneous Transmission Scenario with Bluetooth (Hotspot at 1.0 cm)

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	Σ SAR (W/kg)	
		1	2	3	1+2	1+3
Hotspot SAR	EVDO BC10 (\$90S) Ant A	0.344	0.211	0.148	0.555	0.492
	EVDO BC10 (\$90S) Ant A + B	0.333	0.211	0.148	0.544	0.481
	EVDO BC0 (\$22H) Ant A	0.364	0.211	0.148	0.575	0.512
	EVDO BC0 (\$22H) Ant A + B	0.312	0.211	0.148	0.523	0.460
	PCS EVDO	0.480	0.211	0.148	0.691	0.628
	GPRS 850 Ant A	0.390	0.211	0.148	0.601	0.538
	GPRS 850 Ant A + B	0.287	0.211	0.148	0.498	0.435
	GPRS 1900	0.542	0.211	0.148	0.753	0.690
	UMTS 850 Ant A	0.351	0.211	0.148	0.562	0.499
	UMTS 850 Ant A + B	0.243	0.211	0.148	0.454	0.391
	UMTS 1750	0.610	0.211	0.148	0.821	0.758
	UMTS 1900	0.468	0.211	0.148	0.679	0.616
	LTE Band 71 Ant A + B	0.305	0.211	0.148	0.516	0.453
	LTE Band 71 Ant A	0.300	0.211	0.148	0.511	0.448
	LTE Band 12 Ant A + B	0.411	0.211	0.148	0.622	0.559
	LTE Band 12 Ant A	0.347	0.211	0.148	0.558	0.495
	LTE Band 13 Ant A + B	0.296	0.211	0.148	0.507	0.444
	LTE Band 13 Ant A	0.284	0.211	0.148	0.495	0.432
	LTE Band 14 Ant A + B	0.312	0.211	0.148	0.523	0.460
	LTE Band 14 Ant A	0.299	0.211	0.148	0.510	0.447
	LTE Band 26 (Cell) Ant A	0.287	0.211	0.148	0.498	0.435
	LTE Band 26 (Cell) Ant A + B	0.295	0.211	0.148	0.506	0.443
	LTE Band 5 (Cell) Ant A	0.353	0.211	0.148	0.564	0.501
	LTE Band 5 (Cell) Ant A + B	0.349	0.211	0.148	0.560	0.497
	LTE Band 66 (AWS) Ant B	0.522	0.211	0.148	0.733	0.670
	LTE Band 66 (AWS) Ant E	0.510	0.211	0.148	0.721	0.658
	LTE Band 25 (PCS)	0.401	0.211	0.148	0.612	0.549
	LTE Band 30	0.620	0.211	0.148	0.831	0.768
	LTE Band 7	0.646	0.211	0.148	0.857	0.794
	LTE Band 48	0.219	0.211	0.148	0.430	0.367
	LTE Band 41	0.456	0.211	0.148	0.667	0.604
	NR Band n71 Antenna A + B	0.342	0.211	0.148	0.553	0.490
	NR Band n71 Antenna A	0.293	0.211	0.148	0.504	0.441
	NR Band n12 Antenna A + B	0.366	0.211	0.148	0.577	0.514
	NR Band n12 Antenna A	0.298	0.211	0.148	0.509	0.446
	NR Band n5 (Cell) Antenna A	0.262	0.211	0.148	0.473	0.410
	NR Band n5 (Cell) Antenna A + B	0.274	0.211	0.148	0.485	0.422
	NR Band n66 (AWS) Antenna B	0.594	0.211	0.148	0.805	0.742
	NR Band n66 (AWS) Antenna E	0.517	0.211	0.148	0.728	0.665
	NR Band n25 (PCS) Antenna B	0.495	0.211	0.148	0.706	0.643
	NR Band n25 (PCS) Antenna E	0.578	0.211	0.148	0.789	0.726
	NR Band n30	0.413	0.211	0.148	0.624	0.561
	NR Band n41	0.291	0.211	0.148	0.502	0.439
	NR Band n77 DoD Antenna E	0.131	0.211	0.148	0.342	0.279
	NR Band n77 DoD Antenna G	0.073	0.211	0.148	0.284	0.221
	NR Band n77 DoD Antenna F	0.385	0.211	0.148	0.596	0.533
	NR Band n77 DoD Antenna B	0.097	0.211	0.148	0.308	0.245
	NR Band n77 Antenna E	0.786	0.211	0.148	0.997	0.934
	NR Band n77 Antenna G	0.118	0.211	0.148	0.329	0.266
	NR Band n77 Antenna F	0.661	0.211	0.148	0.872	0.809
	NR Band n77 Antenna B	0.101	0.211	0.148	0.312	0.249

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Table 12-27

Simultaneous Transmission Scenario with 2.4 GHz WLAN Antenna 2 and Bluetooth Antenna 1 (Hotspot at 1.0 cm)

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	2	1+2+3
Hotspot SAR	EVDO BC10 (\$90S) Ant A	0.344	0.204	0.211	0.759
	EVDO BC10 (\$90S) Ant A + B	0.333	0.204	0.211	0.748
	EVDO BC0 (\$22H) Ant A	0.364	0.204	0.211	0.779
	EVDO BC0 (\$22H) Ant A + B	0.312	0.204	0.211	0.727
	PCS EVDO	0.480	0.204	0.211	0.895
	GPRS 850 Ant A	0.390	0.204	0.211	0.805
	GPRS 850 Ant A + B	0.287	0.204	0.211	0.702
	GPRS 1900	0.542	0.204	0.211	0.957
	UMTS 850 Ant A	0.351	0.204	0.211	0.766
	UMTS 850 Ant A + B	0.243	0.204	0.211	0.658
	UMTS 1750	0.610	0.204	0.211	1.025
	UMTS 1900	0.468	0.204	0.211	0.883
	LTE Band 71 Ant A + B	0.305	0.204	0.211	0.720
	LTE Band 71 Ant A	0.300	0.204	0.211	0.715
	LTE Band 12 Ant A + B	0.411	0.204	0.211	0.826
	LTE Band 12 Ant A	0.347	0.204	0.211	0.762
	LTE Band 13 Ant A + B	0.296	0.204	0.211	0.711
	LTE Band 13 Ant A	0.284	0.204	0.211	0.699
	LTE Band 14 Ant A + B	0.312	0.204	0.211	0.727
	LTE Band 14 Ant A	0.299	0.204	0.211	0.714
	LTE Band 26 (Cell) Ant A	0.287	0.204	0.211	0.702
	LTE Band 26 (Cell) Ant A + B	0.295	0.204	0.211	0.710
	LTE Band 5 (Cell) Ant A	0.353	0.204	0.211	0.768
	LTE Band 5 (Cell) Ant A + B	0.349	0.204	0.211	0.764
	LTE Band 66 (AWS) Ant B	0.522	0.204	0.211	0.937
	LTE Band 66 (AWS) Ant E	0.510	0.204	0.211	0.925
	LTE Band 25 (PCS)	0.401	0.204	0.211	0.816
	LTE Band 30	0.620	0.204	0.211	1.035
	LTE Band 7	0.646	0.204	0.211	1.061
	LTE Band 48	0.219	0.204	0.211	0.634
	LTE Band 41	0.456	0.204	0.211	0.871
	NR Band n71 Antenna A + B	0.342	0.204	0.211	0.757
	NR Band n71 Antenna A	0.293	0.204	0.211	0.708
	NR Band n12 Antenna A + B	0.366	0.204	0.211	0.781
	NR Band n12 Antenna A	0.298	0.204	0.211	0.713
	NR Band n5 (Cell) Antenna A	0.262	0.204	0.211	0.677
	NR Band n5 (Cell) Antenna A + B	0.274	0.204	0.211	0.689
	NR Band n66 (AWS) Antenna B	0.594	0.204	0.211	1.009
	NR Band n66 (AWS) Antenna E	0.517	0.204	0.211	0.932
	NR Band n25 (PCS) Antenna B	0.495	0.204	0.211	0.910
	NR Band n25 (PCS) Antenna E	0.578	0.204	0.211	0.993
	NR Band n30	0.413	0.204	0.211	0.828
	NR Band n41	0.291	0.204	0.211	0.706
	NR Band n77 DoD Antenna E	0.131	0.204	0.211	0.546
	NR Band n77 DoD Antenna G	0.073	0.204	0.211	0.488
	NR Band n77 DoD Antenna F	0.385	0.204	0.211	0.800
	NR Band n77 DoD Antenna B	0.097	0.204	0.211	0.512
	NR Band n77 Antenna E	0.786	0.204	0.211	1.201
	NR Band n77 Antenna G	0.118	0.204	0.211	0.533
	NR Band n77 Antenna F	0.661	0.204	0.211	1.076
	NR Band n77 Antenna B	0.101	0.204	0.211	0.516

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Table 12-28
Simultaneous Transmission Scenario with 5 GHz WLAN MIMO and Bluetooth (Hotspot at 1.0 cm)

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	Σ SAR (W/kg)	
		1	2	3	4	1+2+3	1+2+4
Hotspot SAR	EVDO BC10 (\$90S) Ant A	0.344	0.063	0.211	0.148	0.618	0.555
	EVDO BC10 (\$90S) Ant A + B	0.333	0.063	0.211	0.148	0.607	0.544
	EVDO BC0 (\$22H) Ant A	0.364	0.063	0.211	0.148	0.638	0.575
	EVDO BC0 (\$22H) Ant A + B	0.312	0.063	0.211	0.148	0.586	0.523
	PCS EVDO	0.480	0.063	0.211	0.148	0.754	0.691
	GPRS 850 Ant A	0.390	0.063	0.211	0.148	0.664	0.601
	GPRS 850 Ant A + B	0.287	0.063	0.211	0.148	0.561	0.498
	GPRS 1900	0.542	0.063	0.211	0.148	0.816	0.753
	UMTS 850 Ant A	0.351	0.063	0.211	0.148	0.625	0.562
	UMTS 850 Ant A + B	0.243	0.063	0.211	0.148	0.517	0.454
	UMTS 1750	0.610	0.063	0.211	0.148	0.884	0.821
	UMTS 1900	0.468	0.063	0.211	0.148	0.742	0.679
	LTE Band 71 Ant A + B	0.305	0.063	0.211	0.148	0.579	0.516
	LTE Band 71 Ant A	0.300	0.063	0.211	0.148	0.574	0.511
	LTE Band 12 Ant A + B	0.411	0.063	0.211	0.148	0.685	0.622
	LTE Band 12 Ant A	0.347	0.063	0.211	0.148	0.621	0.558
	LTE Band 13 Ant A + B	0.296	0.063	0.211	0.148	0.570	0.507
	LTE Band 13 Ant A	0.284	0.063	0.211	0.148	0.558	0.495
	LTE Band 14 Ant A + B	0.312	0.063	0.211	0.148	0.586	0.523
	LTE Band 14 Ant A	0.299	0.063	0.211	0.148	0.573	0.510
	LTE Band 26 (Cell) Ant A	0.287	0.063	0.211	0.148	0.561	0.498
	LTE Band 26 (Cell) Ant A + B	0.295	0.063	0.211	0.148	0.569	0.506
	LTE Band 5 (Cell) Ant A	0.353	0.063	0.211	0.148	0.627	0.564
	LTE Band 5 (Cell) Ant A + B	0.349	0.063	0.211	0.148	0.623	0.560
	LTE Band 66 (AWS) Ant B	0.522	0.063	0.211	0.148	0.796	0.733
	LTE Band 66 (AWS) Ant E	0.510	0.063	0.211	0.148	0.784	0.721
	LTE Band 25 (PCS)	0.401	0.063	0.211	0.148	0.675	0.612
	LTE Band 30	0.620	0.063	0.211	0.148	0.894	0.831
	LTE Band 7	0.646	0.063	0.211	0.148	0.920	0.857
	LTE Band 48	0.219	0.063	0.211	0.148	0.493	0.430
	LTE Band 41	0.456	0.063	0.211	0.148	0.730	0.667
	NR Band n71 Antenna A + B	0.342	0.063	0.211	0.148	0.616	0.553
	NR Band n71 Antenna A	0.293	0.063	0.211	0.148	0.567	0.504
	NR Band n12 Antenna A + B	0.366	0.063	0.211	0.148	0.640	0.577
	NR Band n12 Antenna A	0.298	0.063	0.211	0.148	0.572	0.509
	NR Band n5 (Cell) Antenna A	0.262	0.063	0.211	0.148	0.536	0.473
	NR Band n5 (Cell) Antenna A + B	0.274	0.063	0.211	0.148	0.548	0.485
	NR Band n66 (AWS) Antenna B	0.594	0.063	0.211	0.148	0.868	0.805
	NR Band n66 (AWS) Antenna E	0.517	0.063	0.211	0.148	0.791	0.728
	NR Band n25 (PCS) Antenna B	0.495	0.063	0.211	0.148	0.769	0.706
	NR Band n25 (PCS) Antenna E	0.578	0.063	0.211	0.148	0.852	0.789
	NR Band n30	0.413	0.063	0.211	0.148	0.687	0.624
	NR Band n41	0.291	0.063	0.211	0.148	0.565	0.502
	NR Band n77 DoD Antenna E	0.131	0.063	0.211	0.148	0.405	0.342
	NR Band n77 DoD Antenna G	0.073	0.063	0.211	0.148	0.347	0.284
	NR Band n77 DoD Antenna F	0.385	0.063	0.211	0.148	0.659	0.596
	NR Band n77 DoD Antenna B	0.097	0.063	0.211	0.148	0.371	0.308
	NR Band n77 Antenna E	0.786	0.063	0.211	0.148	1.060	0.997
	NR Band n77 Antenna G	0.118	0.063	0.211	0.148	0.392	0.329
	NR Band n77 Antenna F	0.661	0.063	0.211	0.148	0.935	0.872
	NR Band n77 Antenna B	0.101	0.063	0.211	0.148	0.375	0.312

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Table 12-29
Simultaneous Transmission Scenario with 2.4 GHz WLAN Antenna 2, 5 GHz WLAN MIMO, and Bluetooth
Antenna 1, (Hotspot at 1.0 cm)

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Hotspot SAR	EVDO BC10 (\$90S) Ant A	0.344	0.204	0.063	0.211	0.822
	EVDO BC10 (\$90S) Ant A + B	0.333	0.204	0.063	0.211	0.811
	EVDO BC0 (\$22H) Ant A	0.364	0.204	0.063	0.211	0.842
	EVDO BC0 (\$22H) Ant A + B	0.312	0.204	0.063	0.211	0.790
	PCS EVDO	0.480	0.204	0.063	0.211	0.958
	GPRS 850 Ant A	0.390	0.204	0.063	0.211	0.868
	GPRS 850 Ant A + B	0.287	0.204	0.063	0.211	0.765
	GPRS 1900	0.542	0.204	0.063	0.211	1.020
	UMTS 850 Ant A	0.351	0.204	0.063	0.211	0.829
	UMTS 850 Ant A + B	0.243	0.204	0.063	0.211	0.721
	UMTS 1750	0.610	0.204	0.063	0.211	1.088
	UMTS 1900	0.468	0.204	0.063	0.211	0.946
	LTE Band 71 Ant A + B	0.305	0.204	0.063	0.211	0.783
	LTE Band 71 Ant A	0.300	0.204	0.063	0.211	0.778
	LTE Band 12 Ant A + B	0.411	0.204	0.063	0.211	0.889
	LTE Band 12 Ant A	0.347	0.204	0.063	0.211	0.825
	LTE Band 13 Ant A + B	0.296	0.204	0.063	0.211	0.774
	LTE Band 13 Ant A	0.284	0.204	0.063	0.211	0.762
	LTE Band 14 Ant A + B	0.312	0.204	0.063	0.211	0.790
	LTE Band 14 Ant A	0.299	0.204	0.063	0.211	0.777
	LTE Band 26 (Cell) Ant A	0.287	0.204	0.063	0.211	0.765
	LTE Band 26 (Cell) Ant A + B	0.295	0.204	0.063	0.211	0.773
	LTE Band 5 (Cell) Ant A	0.353	0.204	0.063	0.211	0.831
	LTE Band 5 (Cell) Ant A + B	0.349	0.204	0.063	0.211	0.827
	LTE Band 66 (AWS) Ant B	0.522	0.204	0.063	0.211	1.000
	LTE Band 66 (AWS) Ant E	0.510	0.204	0.063	0.211	0.988
	LTE Band 25 (PCS)	0.401	0.204	0.063	0.211	0.879
	LTE Band 30	0.620	0.204	0.063	0.211	1.098
	LTE Band 7	0.646	0.204	0.063	0.211	1.124
	LTE Band 48	0.219	0.204	0.063	0.211	0.697
	LTE Band 41	0.456	0.204	0.063	0.211	0.934
	NR Band n71 Antenna A + B	0.342	0.204	0.063	0.211	0.820
	NR Band n71 Antenna A	0.293	0.204	0.063	0.211	0.771
	NR Band n12 Antenna A + B	0.366	0.204	0.063	0.211	0.844
	NR Band n12 Antenna A	0.298	0.204	0.063	0.211	0.776
	NR Band n5 (Cell) Antenna A	0.262	0.204	0.063	0.211	0.740
	NR Band n5 (Cell) Antenna A + B	0.274	0.204	0.063	0.211	0.752
	NR Band n66 (AWS) Antenna B	0.594	0.204	0.063	0.211	1.072
	NR Band n66 (AWS) Antenna E	0.517	0.204	0.063	0.211	0.995
	NR Band n25 (PCS) Antenna B	0.495	0.204	0.063	0.211	0.973
	NR Band n25 (PCS) Antenna E	0.578	0.204	0.063	0.211	1.056
	NR Band n30	0.413	0.204	0.063	0.211	0.891
	NR Band n41	0.291	0.204	0.063	0.211	0.769
	NR Band n77 DoD Antenna E	0.131	0.204	0.063	0.211	0.609
	NR Band n77 DoD Antenna G	0.073	0.204	0.063	0.211	0.551
	NR Band n77 DoD Antenna F	0.385	0.204	0.063	0.211	0.863
	NR Band n77 DoD Antenna B	0.097	0.204	0.063	0.211	0.575
	NR Band n77 Antenna E	0.786	0.204	0.063	0.211	1.264
	NR Band n77 Antenna G	0.118	0.204	0.063	0.211	0.596
	NR Band n77 Antenna F	0.661	0.204	0.063	0.211	1.139
	NR Band n77 Antenna B	0.101	0.204	0.063	0.211	0.579

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12.6 Phablet Simultaneous Transmission Analysis

For SAR summation, the highest reported SAR across all test distances was used as the most conservative evaluation for simultaneous transmission analysis for each device edge.

Per FCC KDB Publication 648474 D04 Handset SAR, Phablet SAR tests were not required if wireless router 1g SAR (scaled to the maximum output power, including tolerance) < 1.2 W/kg. Therefore no further analysis beyond the tables included in this section was required to determine that possible simultaneous transmission scenarios would not exceed the SAR limit.

Table 12-30
Simultaneous Transmission Scenario with 5 GHz WLAN (Phablet)

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	
		1	2	3	1+2	1+3
Phablet SAR	PCS EVDO	2.006	0.733	1.306	2.739	3.312
	GPRS 1900	1.512	0.733	1.306	2.245	2.818
	UMTS 1750	1.812	0.733	1.306	2.545	3.118
	UMTS 1900	1.290	0.733	1.306	2.023	2.596
	LTE Band 66 (AWS) Ant B	1.902	0.733	1.306	2.635	3.208
	LTE Band 66 (AWS) Ant E	2.371	0.733	1.306	3.104	3.677
	LTE Band 25 (PCS)	1.410	0.733	1.306	2.143	2.716
	LTE Band 30	2.075	0.733	1.306	2.808	3.381
	LTE Band 7	2.122	0.733	1.306	2.855	3.428
	LTE Band 41	1.383	0.733	1.306	2.116	2.689
	NR Band n66 (AWS) Antenna B	2.260	0.733	1.306	2.993	3.566
	NR Band n66 (AWS) Antenna E	2.513	0.733	1.306	3.246	3.819
	NR Band n25 (PCS) Antenna B	1.730	0.733	1.306	2.463	3.036
	NR Band n25 (PCS) Antenna E	2.156	0.733	1.306	2.889	3.462
	NR Band n30	1.511	0.733	1.306	2.244	2.817
	NR Band n41	2.128	0.733	1.306	2.861	3.434
	NR Band n77 DoD Antenna F	2.466	0.733	1.306	3.199	3.772
	NR Band n77 Antenna E	2.863	0.733	1.306	3.596	See Table Below
	NR Band n77 Antenna F	2.712	0.733	1.306	3.445	See Table Below

Simult Tx	Configuration	NR Band n77 Antenna E SAR (W/kg)	5 GHz WLAN MIMO at 18 dBm SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	NR Band n77 Antenna F SAR (W/kg)	5 GHz WLAN MIMO at 18 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2			1	2	1+2
Phablet SAR	Back	1.303	0.332*	1.635	Phablet SAR	Back	0.468	0.332*	0.800
	Top	2.863	0.292	3.155		Top	2.712	0.292	3.004

Table 12-31
Simultaneous Transmission Scenario with 6 GHz WLAN (Phablet)

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	6 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
Phablet SAR	PCS EVDO	2.006	0.166	2.172
	GPRS 1900	1.512	0.166	1.678
	UMTS 1750	1.812	0.166	1.978
	UMTS 1900	1.290	0.166	1.456
	LTE Band 66 (AWS) Ant B	1.902	0.166	2.068
	LTE Band 66 (AWS) Ant E	2.371	0.166	2.537
	LTE Band 25 (PCS)	1.410	0.166	1.576
	LTE Band 30	2.075	0.166	2.241
	LTE Band 7	2.122	0.166	2.288
	LTE Band 41	1.383	0.166	1.549
	NR Band n66 (AWS) Antenna B	2.260	0.166	2.426
	NR Band n66 (AWS) Antenna E	2.513	0.166	2.679
	NR Band n25 (PCS) Antenna B	1.730	0.166	1.896
	NR Band n25 (PCS) Antenna E	2.156	0.166	2.322
	NR Band n30	1.511	0.166	1.677
	NR Band n41	2.128	0.166	2.294
	NR Band n77 DoD Antenna F	2.466	0.166	2.632
	NR Band n77 Antenna E	2.863	0.166	3.029
	NR Band n77 Antenna F	2.712	0.166	2.878

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12.7 UMPC Body Simultaneous Transmission Analysis

For SAR summation, the highest reported SAR across all test distances was used as the most conservative evaluation for simultaneous transmission analysis for each device edge.

Table 12-32
Simultaneous Transmission Scenario with 2.4 GHz WLAN (UMPC Body)

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	2.4 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
UMPC Body SAR	EVDO BC10 (\$90S) Ant A + B	0.437	0.412	0.849
	EVDO BC0 (\$22H) Ant A + B	0.414	0.412	0.826
	PCS EVDO	1.112	0.412	1.524
	GPRS 850 Ant A + B	0.364	0.412	0.776
	GPRS 1900	1.118	0.412	1.530
	UMTS 850 Ant A + B	0.477	0.412	0.889
	UMTS 1750	1.034	0.412	1.446
	UMTS 1900	1.178	0.412	1.590
	LTE Band 71 Ant A + B	0.405	0.412	0.817
	LTE Band 12 Ant A + B	0.450	0.412	0.862
	LTE Band 13 Ant A + B	0.522	0.412	0.934
	LTE Band 14 Ant A + B	0.520	0.412	0.932
	LTE Band 26 (Cell) Ant A + B	0.567	0.412	0.979
	LTE Band 5 (Cell) Ant A + B	0.561	0.412	0.973
	LTE Band 66 (AWS) Ant B	1.017	0.412	1.429
	LTE Band 66 (AWS) Ant E	0.368	0.412	0.780
	LTE Band 25 (PCS)	1.141	0.412	1.553
	LTE Band 30	1.057	0.412	1.469
	LTE Band 7	0.867	0.412	1.279
	LTE Band 48	0.259	0.412	0.671
	LTE Band 41	0.361	0.412	0.773
	NR Band n71 Antenna A + B	0.418	0.412	0.830
	NR Band n12 Antenna A + B	0.503	0.412	0.915
	NR Band n5 (Cell) Antenna A + B	0.470	0.412	0.882
	NR Band n66 (AWS) Antenna B	1.058	0.412	1.470
	NR Band n66 (AWS) Antenna E	0.515	0.412	0.927
	NR Band n25 (PCS) Antenna B	1.215	0.412	See Table Below
	NR Band n25 (PCS) Antenna E	0.488	0.412	0.900
	NR Band n30	0.933	0.412	1.345
	NR Band n41	0.337	0.412	0.749
	NR Band n77 DoD Antenna E	0.156	0.412	0.568
	NR Band n77 DoD Antenna G	0.053	0.412	0.465
	NR Band n77 DoD Antenna F	0.798	0.412	1.210
	NR Band n77 DoD Antenna B	0.121	0.412	0.533
	NR Band n77 Antenna E	0.565	0.412	0.977
	NR Band n77 Antenna G	0.061	0.412	0.473
	NR Band n77 Antenna F	0.881	0.412	1.293
	NR Band n77 Antenna B	0.086	0.412	0.498

Simult Tx	Configuration	NR Band n25 (PCS) Antenna B SAR (W/kg)	2.4 GHz WLAN MIMO at 18 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
UMPC Body SAR	Back	1.205	0.080	1.285
	Front	1.215	0.095	1.310
	Top	-	0.111	0.111
	Bottom	1.197	0.123	1.320
	Right	0.328	-	0.328

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Table 12-33
Simultaneous Transmission Scenario with 5 GHz WLAN (UMPC Body)

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	
		1	2	3	1+2	1+3
UMPC Body SAR	EVDO BC10 (\$90S) Ant A + B	0.437	0.179	0.220	0.616	0.657
	EVDO BC0 (\$22H) Ant A + B	0.414	0.179	0.220	0.593	0.634
	PCS EVDO	1.112	0.179	0.220	1.291	1.332
	GPRS 850 Ant A + B	0.364	0.179	0.220	0.543	0.584
	GPRS 1900	1.118	0.179	0.220	1.297	1.338
	UMTS 850 Ant A + B	0.477	0.179	0.220	0.656	0.697
	UMTS 1750	1.034	0.179	0.220	1.213	1.254
	UMTS 1900	1.178	0.179	0.220	1.357	1.398
	LTE Band 71 Ant A + B	0.405	0.179	0.220	0.584	0.625
	LTE Band 12 Ant A + B	0.450	0.179	0.220	0.629	0.670
	LTE Band 13 Ant A + B	0.522	0.179	0.220	0.701	0.742
	LTE Band 14 Ant A + B	0.520	0.179	0.220	0.699	0.740
	LTE Band 26 (Cell) Ant A + B	0.567	0.179	0.220	0.746	0.787
	LTE Band 5 (Cell) Ant A + B	0.561	0.179	0.220	0.740	0.781
	LTE Band 66 (AWS) Ant B	1.017	0.179	0.220	1.196	1.237
	LTE Band 66 (AWS) Ant E	0.368	0.179	0.220	0.547	0.588
	LTE Band 25 (PCS)	1.141	0.179	0.220	1.320	1.361
	LTE Band 30	1.057	0.179	0.220	1.236	1.277
	LTE Band 7	0.867	0.179	0.220	1.046	1.087
	LTE Band 48	0.259	0.179	0.220	0.438	0.479
	LTE Band 41	0.361	0.179	0.220	0.540	0.581
	NR Band n71 Antenna A + B	0.418	0.179	0.220	0.597	0.638
	NR Band n12 Antenna A + B	0.503	0.179	0.220	0.682	0.723
	NR Band n5 (Cell) Antenna A + B	0.470	0.179	0.220	0.649	0.690
	NR Band n66 (AWS) Antenna B	1.058	0.179	0.220	1.237	1.278
	NR Band n66 (AWS) Antenna E	0.515	0.179	0.220	0.694	0.735
	NR Band n25 (PCS) Antenna B	1.215	0.179	0.220	1.394	1.435
	NR Band n25 (PCS) Antenna E	0.488	0.179	0.220	0.667	0.708
	NR Band n30	0.933	0.179	0.220	1.112	1.153
	NR Band n41	0.337	0.179	0.220	0.516	0.557
	NR Band n77 DoD Antenna E	0.156	0.179	0.220	0.335	0.376
	NR Band n77 DoD Antenna G	0.053	0.179	0.220	0.232	0.273
	NR Band n77 DoD Antenna F	0.798	0.179	0.220	0.977	1.018
	NR Band n77 DoD Antenna B	0.121	0.179	0.220	0.300	0.341
	NR Band n77 Antenna E	0.565	0.179	0.220	0.744	0.785
	NR Band n77 Antenna G	0.061	0.179	0.220	0.240	0.281
	NR Band n77 Antenna F	0.881	0.179	0.220	1.060	1.101
	NR Band n77 Antenna B	0.086	0.179	0.220	0.265	0.306

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Table 12-34
Simultaneous Transmission Scenario with 6 GHz WLAN (UMPC Body)

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	6 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
UMPC Body SAR	EVDO BC10 (\$90S) Ant A + B	0.437	0.020	0.457
	EVDO BC0 (\$22H) Ant A + B	0.414	0.020	0.434
	PCS EVDO	1.112	0.020	1.132
	GPRS 850 Ant A + B	0.364	0.020	0.384
	GPRS 1900	1.118	0.020	1.138
	UMTS 850 Ant A + B	0.477	0.020	0.497
	UMTS 1750	1.034	0.020	1.054
	UMTS 1900	1.178	0.020	1.198
	LTE Band 71 Ant A + B	0.405	0.020	0.425
	LTE Band 12 Ant A + B	0.450	0.020	0.470
	LTE Band 13 Ant A + B	0.522	0.020	0.542
	LTE Band 14 Ant A + B	0.520	0.020	0.540
	LTE Band 26 (Cell) Ant A + B	0.567	0.020	0.587
	LTE Band 5 (Cell) Ant A + B	0.561	0.020	0.581
	LTE Band 66 (AWS) Ant B	1.017	0.020	1.037
	LTE Band 66 (AWS) Ant E	0.368	0.020	0.388
	LTE Band 25 (PCS)	1.141	0.020	1.161
	LTE Band 30	1.057	0.020	1.077
	LTE Band 7	0.867	0.020	0.887
	LTE Band 48	0.259	0.020	0.279
	LTE Band 41	0.361	0.020	0.381
	NR Band n71 Antenna A + B	0.418	0.020	0.438
	NR Band n12 Antenna A + B	0.503	0.020	0.523
	NR Band n5 (Cell) Antenna A + B	0.470	0.020	0.490
	NR Band n66 (AWS) Antenna B	1.058	0.020	1.078
	NR Band n66 (AWS) Antenna E	0.515	0.020	0.535
	NR Band n25 (PCS) Antenna B	1.215	0.020	1.235
	NR Band n25 (PCS) Antenna E	0.488	0.020	0.508
	NR Band n30	0.933	0.020	0.953
	NR Band n41	0.337	0.020	0.357
	NR Band n77 DoD Antenna E	0.156	0.020	0.176
	NR Band n77 DoD Antenna G	0.053	0.020	0.073
	NR Band n77 DoD Antenna F	0.798	0.020	0.818
	NR Band n77 DoD Antenna B	0.121	0.020	0.141
	NR Band n77 Antenna E	0.565	0.020	0.585
	NR Band n77 Antenna G	0.061	0.020	0.081
	NR Band n77 Antenna F	0.881	0.020	0.901
	NR Band n77 Antenna B	0.086	0.020	0.106

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Table 12-35
Simultaneous Transmission Scenario with 2.4 GHz WLAN MIMO and 5 GHz WLAN MIMO (UMPC Body)

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	2.4 GHz WLAN MIMO at 18 dBm SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
UMPC Body SAR	EVDO BC10 (§90S) Ant A + B	0.437	0.123	0.220	0.780
	EVDO BC0 (§22H) Ant A + B	0.414	0.123	0.220	0.757
	PCS EVDO	1.112	0.123	0.220	1.455
	GPRS 850 Ant A + B	0.364	0.123	0.220	0.707
	GPRS 1900	1.118	0.123	0.220	1.461
	UMTS 850 Ant A + B	0.477	0.123	0.220	0.820
	UMTS 1750	1.034	0.123	0.220	1.377
	UMTS 1900	1.178	0.123	0.220	1.521
	LTE Band 71 Ant A + B	0.405	0.123	0.220	0.748
	LTE Band 12 Ant A + B	0.450	0.123	0.220	0.793
	LTE Band 13 Ant A + B	0.522	0.123	0.220	0.865
	LTE Band 14 Ant A + B	0.520	0.123	0.220	0.863
	LTE Band 26 (Cell) Ant A + B	0.567	0.123	0.220	0.910
	LTE Band 5 (Cell) Ant A + B	0.561	0.123	0.220	0.904
	LTE Band 66 (AWS) Ant B	1.017	0.123	0.220	1.360
	LTE Band 66 (AWS) Ant E	0.368	0.123	0.220	0.711
	LTE Band 25 (PCS)	1.141	0.123	0.220	1.484
	LTE Band 30	1.057	0.123	0.220	1.400
	LTE Band 7	0.867	0.123	0.220	1.210
	LTE Band 48	0.259	0.123	0.220	0.602
	LTE Band 41	0.361	0.123	0.220	0.704
	NR Band n71 Antenna A + B	0.418	0.123	0.220	0.761
	NR Band n12 Antenna A + B	0.503	0.123	0.220	0.846
	NR Band n5 (Cell) Antenna A + B	0.470	0.123	0.220	0.813
	NR Band n66 (AWS) Antenna B	1.058	0.123	0.220	1.401
	NR Band n66 (AWS) Antenna E	0.515	0.123	0.220	0.858
	NR Band n25 (PCS) Antenna B	1.215	0.123	0.220	1.558
	NR Band n25 (PCS) Antenna E	0.488	0.123	0.220	0.831
	NR Band n30	0.933	0.123	0.220	1.276
	NR Band n41	0.337	0.123	0.220	0.680
	NR Band n77 DoD Antenna E	0.156	0.123	0.220	0.499
	NR Band n77 DoD Antenna G	0.053	0.123	0.220	0.396
	NR Band n77 DoD Antenna F	0.798	0.123	0.220	1.141
	NR Band n77 DoD Antenna B	0.121	0.123	0.220	0.464
	NR Band n77 Antenna E	0.565	0.123	0.220	0.908
	NR Band n77 Antenna G	0.061	0.123	0.220	0.404
	NR Band n77 Antenna F	0.881	0.123	0.220	1.224
	NR Band n77 Antenna B	0.086	0.123	0.220	0.429

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Table 12-36

Simultaneous Transmission Scenario with 2.4 GHz WLAN MIMO and 6 GHz WLAN MIMO (UMPC Body)

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	2.4 GHz WLAN MIMO at 18 dBm SAR (W/kg)	6 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
UMPC Body SAR	EVDO BC10 (§90S) Ant A + B	0.437	0.123	0.020	0.580
	EVDO BC0 (§22H) Ant A + B	0.414	0.123	0.020	0.557
	PCS EVDO	1.112	0.123	0.020	1.255
	GPRS 850 Ant A + B	0.364	0.123	0.020	0.507
	GPRS 1900	1.118	0.123	0.020	1.261
	UMTS 850 Ant A + B	0.477	0.123	0.020	0.620
	UMTS 1750	1.034	0.123	0.020	1.177
	UMTS 1900	1.178	0.123	0.020	1.321
	LTE Band 71 Ant A + B	0.405	0.123	0.020	0.548
	LTE Band 12 Ant A + B	0.450	0.123	0.020	0.593
	LTE Band 13 Ant A + B	0.522	0.123	0.020	0.665
	LTE Band 14 Ant A + B	0.520	0.123	0.020	0.663
	LTE Band 26 (Cell) Ant A + B	0.567	0.123	0.020	0.710
	LTE Band 5 (Cell) Ant A + B	0.561	0.123	0.020	0.704
	LTE Band 66 (AWS) Ant B	1.017	0.123	0.020	1.160
	LTE Band 66 (AWS) Ant E	0.368	0.123	0.020	0.511
	LTE Band 25 (PCS)	1.141	0.123	0.020	1.284
	LTE Band 30	1.057	0.123	0.020	1.200
	LTE Band 7	0.867	0.123	0.020	1.010
	LTE Band 48	0.259	0.123	0.020	0.402
	LTE Band 41	0.361	0.123	0.020	0.504
	NR Band n71 Antenna A + B	0.418	0.123	0.020	0.561
	NR Band n12 Antenna A + B	0.503	0.123	0.020	0.646
	NR Band n5 (Cell) Antenna A + B	0.470	0.123	0.020	0.613
	NR Band n66 (AWS) Antenna B	1.058	0.123	0.020	1.201
	NR Band n66 (AWS) Antenna E	0.515	0.123	0.020	0.658
	NR Band n25 (PCS) Antenna B	1.215	0.123	0.020	1.358
	NR Band n25 (PCS) Antenna E	0.488	0.123	0.020	0.631
	NR Band n30	0.933	0.123	0.020	1.076
	NR Band n41	0.337	0.123	0.020	0.480
	NR Band n77 DoD Antenna E	0.156	0.123	0.020	0.299
	NR Band n77 DoD Antenna G	0.053	0.123	0.020	0.196
	NR Band n77 DoD Antenna F	0.798	0.123	0.020	0.941
	NR Band n77 DoD Antenna B	0.121	0.123	0.020	0.264
	NR Band n77 Antenna E	0.565	0.123	0.020	0.708
	NR Band n77 Antenna G	0.061	0.123	0.020	0.204
	NR Band n77 Antenna F	0.881	0.123	0.020	1.024
	NR Band n77 Antenna B	0.086	0.123	0.020	0.229

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Table 12-37
Simultaneous Transmission Scenario with Bluetooth (UMPC Body)

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	Σ SAR (W/kg)	
		1	2	3	1+2	1+3
UMPC Body SAR	EVDO BC10 (\$90S) Ant A + B	0.437	0.254	0.092	0.691	0.529
	EVDO BC0 (\$22H) Ant A + B	0.414	0.254	0.092	0.668	0.506
	PCS EVDO	1.112	0.254	0.092	1.366	1.204
	GPRS 850 Ant A + B	0.364	0.254	0.092	0.618	0.456
	GPRS 1900	1.118	0.254	0.092	1.372	1.210
	UMTS 850 Ant A + B	0.477	0.254	0.092	0.731	0.569
	UMTS 1750	1.034	0.254	0.092	1.288	1.126
	UMTS 1900	1.178	0.254	0.092	1.432	1.270
	LTE Band 71 Ant A + B	0.405	0.254	0.092	0.659	0.497
	LTE Band 12 Ant A + B	0.450	0.254	0.092	0.704	0.542
	LTE Band 13 Ant A + B	0.522	0.254	0.092	0.776	0.614
	LTE Band 14 Ant A + B	0.520	0.254	0.092	0.774	0.612
	LTE Band 26 (Cell) Ant A + B	0.567	0.254	0.092	0.821	0.659
	LTE Band 5 (Cell) Ant A + B	0.561	0.254	0.092	0.815	0.653
	LTE Band 66 (AWS) Ant B	1.017	0.254	0.092	1.271	1.109
	LTE Band 66 (AWS) Ant E	0.368	0.254	0.092	0.622	0.460
	LTE Band 25 (PCS)	1.141	0.254	0.092	1.395	1.233
	LTE Band 30	1.057	0.254	0.092	1.311	1.149
	LTE Band 7	0.867	0.254	0.092	1.121	0.959
	LTE Band 48	0.259	0.254	0.092	0.513	0.351
	LTE Band 41	0.361	0.254	0.092	0.615	0.453
	NR Band n71 Antenna A + B	0.418	0.254	0.092	0.672	0.510
	NR Band n12 Antenna A + B	0.503	0.254	0.092	0.757	0.595
	NR Band n5 (Cell) Antenna A + B	0.470	0.254	0.092	0.724	0.562
	NR Band n66 (AWS) Antenna B	1.058	0.254	0.092	1.312	1.150
	NR Band n66 (AWS) Antenna E	0.515	0.254	0.092	0.769	0.607
	NR Band n25 (PCS) Antenna B	1.215	0.254	0.092	1.469	1.307
	NR Band n25 (PCS) Antenna E	0.488	0.254	0.092	0.742	0.580
	NR Band n30	0.933	0.254	0.092	1.187	1.025
	NR Band n41	0.337	0.254	0.092	0.591	0.429
	NR Band n77 DoD Antenna E	0.156	0.254	0.092	0.410	0.248
	NR Band n77 DoD Antenna G	0.053	0.254	0.092	0.307	0.145
	NR Band n77 DoD Antenna F	0.798	0.254	0.092	1.052	0.890
	NR Band n77 DoD Antenna B	0.121	0.254	0.092	0.375	0.213
	NR Band n77 Antenna E	0.565	0.254	0.092	0.819	0.657
	NR Band n77 Antenna G	0.061	0.254	0.092	0.315	0.153
	NR Band n77 Antenna F	0.881	0.254	0.092	1.135	0.973
	NR Band n77 Antenna B	0.086	0.254	0.092	0.340	0.178

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Table 12-38
Simultaneous Transmission Scenario with 2.4 GHz WLAN Antenna 2 and Bluetooth Antenna 1 (UMPC Body)

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	2	1+2+3
UMPC Body SAR	EVDO BC10 (§90S) Ant A + B	0.437	0.168	0.254	0.859
	EVDO BC0 (§22H) Ant A + B	0.414	0.168	0.254	0.836
	PCS EVDO	1.112	0.168	0.254	1.534
	GPRS 850 Ant A + B	0.364	0.168	0.254	0.786
	GPRS 1900	1.118	0.168	0.254	1.540
	UMTS 850 Ant A + B	0.477	0.168	0.254	0.899
	UMTS 1750	1.034	0.168	0.254	1.456
	UMTS 1900	1.178	0.168	0.254	See Table Below
	LTE Band 71 Ant A + B	0.405	0.168	0.254	0.827
	LTE Band 12 Ant A + B	0.450	0.168	0.254	0.872
	LTE Band 13 Ant A + B	0.522	0.168	0.254	0.944
	LTE Band 14 Ant A + B	0.520	0.168	0.254	0.942
	LTE Band 26 (Cell) Ant A + B	0.567	0.168	0.254	0.989
	LTE Band 5 (Cell) Ant A + B	0.561	0.168	0.254	0.983
	LTE Band 66 (AWS) Ant B	1.017	0.168	0.254	1.439
	LTE Band 66 (AWS) Ant E	0.368	0.168	0.254	0.790
	LTE Band 25 (PCS)	1.141	0.168	0.254	1.563
	LTE Band 30	1.057	0.168	0.254	1.479
	LTE Band 7	0.867	0.168	0.254	1.289
	LTE Band 48	0.259	0.168	0.254	0.681
	LTE Band 41	0.361	0.168	0.254	0.783
	NR Band n71 Antenna A + B	0.418	0.168	0.254	0.840
	NR Band n12 Antenna A + B	0.503	0.168	0.254	0.925
	NR Band n5 (Cell) Antenna A + B	0.470	0.168	0.254	0.892
	NR Band n66 (AWS) Antenna B	1.058	0.168	0.254	1.480
	NR Band n66 (AWS) Antenna E	0.515	0.168	0.254	0.937
	NR Band n25 (PCS) Antenna B	1.215	0.168	0.254	See Table Below
	NR Band n25 (PCS) Antenna E	0.488	0.168	0.254	0.910
	NR Band n30	0.933	0.168	0.254	1.355
	NR Band n41	0.337	0.168	0.254	0.759
	NR Band n77 DoD Antenna E	0.156	0.168	0.254	0.578
	NR Band n77 DoD Antenna G	0.053	0.168	0.254	0.475
	NR Band n77 DoD Antenna F	0.798	0.168	0.254	1.220
	NR Band n77 DoD Antenna B	0.121	0.168	0.254	0.543
	NR Band n77 Antenna E	0.565	0.168	0.254	0.987
	NR Band n77 Antenna G	0.061	0.168	0.254	0.483
	NR Band n77 Antenna F	0.881	0.168	0.254	1.303
	NR Band n77 Antenna B	0.086	0.168	0.254	0.508

Simult Tx	Configuration	UMTS 1900 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	NR Band n25 (PCS) Antenna B SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3			1	2	3	1+2+3
UMPC Body SAR	Back	1.147	0.080	0.161	1.388	UMPC Body SAR	Back	1.205	0.080	0.161	1.446
	Front	1.178	0.114	0.124	1.416		Front	1.215	0.114	0.124	1.453
	Top	-	-	0.254	0.254		Top	-	-	0.254	0.254
	Bottom	1.030	0.168	-	1.198		Bottom	1.197	0.168	-	1.365
	Right	0.249	-	-	0.249		Right	0.328	-	-	0.328

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Table 12-39
Simultaneous Transmission Scenario with 5 GHz WLAN MIMO and Bluetooth (UMPC Body)

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	Σ SAR (W/kg)	
		1	2	3	4	1+2+3	1+2+4
UMPC Body SAR	EVDO BC10 (\$90S) Ant A + B	0.437	0.220	0.254	0.092	0.911	0.749
	EVDO BC0 (\$22H) Ant A + B	0.414	0.220	0.254	0.092	0.888	0.726
	PCS EVDO	1.112	0.220	0.254	0.092	1.586	1.424
	GPRS 850 Ant A + B	0.364	0.220	0.254	0.092	0.838	0.676
	GPRS 1900	1.118	0.220	0.254	0.092	1.592	1.430
	UMTS 850 Ant A + B	0.477	0.220	0.254	0.092	0.951	0.789
	UMTS 1750	1.034	0.220	0.254	0.092	1.508	1.346
	UMTS 1900	1.178	0.220	0.254	0.092	See Table Below	1.490
	LTE Band 71 Ant A + B	0.405	0.220	0.254	0.092	0.879	0.717
	LTE Band 12 Ant A + B	0.450	0.220	0.254	0.092	0.924	0.762
	LTE Band 13 Ant A + B	0.522	0.220	0.254	0.092	0.996	0.834
	LTE Band 14 Ant A + B	0.520	0.220	0.254	0.092	0.994	0.832
	LTE Band 26 (Cell) Ant A + B	0.567	0.220	0.254	0.092	1.041	0.879
	LTE Band 5 (Cell) Ant A + B	0.561	0.220	0.254	0.092	1.035	0.873
	LTE Band 66 (AWS) Ant B	1.017	0.220	0.254	0.092	1.491	1.329
	LTE Band 66 (AWS) Ant E	0.368	0.220	0.254	0.092	0.842	0.680
	LTE Band 25 (PCS)	1.141	0.220	0.254	0.092	See Table Below	1.453
	LTE Band 30	1.057	0.220	0.254	0.092	1.531	1.369
	LTE Band 7	0.867	0.220	0.254	0.092	1.341	1.179
	LTE Band 48	0.259	0.220	0.254	0.092	0.733	0.571
	LTE Band 41	0.361	0.220	0.254	0.092	0.835	0.673
	NR Band n71 Antenna A + B	0.418	0.220	0.254	0.092	0.892	0.730
	NR Band n12 Antenna A + B	0.503	0.220	0.254	0.092	0.977	0.815
	NR Band n5 (Cell) Antenna A + B	0.470	0.220	0.254	0.092	0.944	0.782
	NR Band n66 (AWS) Antenna B	1.058	0.220	0.254	0.092	1.532	1.370
	NR Band n66 (AWS) Antenna E	0.515	0.220	0.254	0.092	0.989	0.827
	NR Band n25 (PCS) Antenna B	1.215	0.220	0.254	0.092	See Table Below	1.527
	NR Band n25 (PCS) Antenna E	0.488	0.220	0.254	0.092	0.962	0.800
	NR Band n30	0.933	0.220	0.254	0.092	1.407	1.245
	NR Band n41	0.337	0.220	0.254	0.092	0.811	0.649
	NR Band n77 DoD Antenna E	0.156	0.220	0.254	0.092	0.630	0.468
	NR Band n77 DoD Antenna G	0.053	0.220	0.254	0.092	0.527	0.365
	NR Band n77 DoD Antenna F	0.798	0.220	0.254	0.092	1.272	1.110
	NR Band n77 DoD Antenna B	0.121	0.220	0.254	0.092	0.595	0.433
	NR Band n77 Antenna E	0.565	0.220	0.254	0.092	1.039	0.877
	NR Band n77 Antenna G	0.061	0.220	0.254	0.092	0.535	0.373
	NR Band n77 Antenna F	0.881	0.220	0.254	0.092	1.355	1.193
	NR Band n77 Antenna B	0.086	0.220	0.254	0.092	0.560	0.398

Simult Tx	Configuration	UMTS 1900 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 25 (PCS) SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3			1	2	3	1+2+3
UMPC Body SAR	Back	1.147	0.127	0.161	1.435	UMPC Body SAR	Back	1.022	0.127	0.161	1.310
	Front	1.178	0.130	0.124	1.432		Front	1.141	0.130	0.124	1.395
	Top	-	0.214	0.254	0.468		Top	-	0.214	0.254	0.468
	Bottom	1.030	0.220	-	1.250		Bottom	0.799	0.220	-	1.019
	Right	0.249	-	-	0.249		Right	0.659	-	-	0.659

Simult Tx	Configuration	NR Band n25 (PCS) Antenna B SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
UMPC Body SAR	Back	1.205	0.127	0.161	1.493
	Front	1.215	0.130	0.124	1.469
	Top	-	0.214	0.254	0.468
	Bottom	1.197	0.220	-	1.417
	Right	0.328	-	-	0.328

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Table 12-40
Simultaneous Transmission Scenario with 6 GHz WLAN MIMO and Bluetooth (UMPC Body)

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	6 GHz WLAN MIMO SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	Σ SAR (W/kg)	
		1	2	3	4	1+2+3	1+2+4
UMPC Body SAR	EVDO BC10 (\$90S) Ant A + B	0.437	0.020	0.254	0.092	0.711	0.549
	EVDO BC0 (\$22H) Ant A + B	0.414	0.020	0.254	0.092	0.688	0.526
	PCS EVDO	1.112	0.020	0.254	0.092	1.386	1.224
	GPRS 850 Ant A + B	0.364	0.020	0.254	0.092	0.638	0.476
	GPRS 1900	1.118	0.020	0.254	0.092	1.392	1.230
	UMTS 850 Ant A + B	0.477	0.020	0.254	0.092	0.751	0.589
	UMTS 1750	1.034	0.020	0.254	0.092	1.308	1.146
	UMTS 1900	1.178	0.020	0.254	0.092	1.452	1.290
	LTE Band 71 Ant A + B	0.405	0.020	0.254	0.092	0.679	0.517
	LTE Band 12 Ant A + B	0.450	0.020	0.254	0.092	0.724	0.562
	LTE Band 13 Ant A + B	0.522	0.020	0.254	0.092	0.796	0.634
	LTE Band 14 Ant A + B	0.520	0.020	0.254	0.092	0.794	0.632
	LTE Band 26 (Cell) Ant A + B	0.567	0.020	0.254	0.092	0.841	0.679
	LTE Band 5 (Cell) Ant A + B	0.561	0.020	0.254	0.092	0.835	0.673
	LTE Band 66 (AWS) Ant B	1.017	0.020	0.254	0.092	1.291	1.129
	LTE Band 66 (AWS) Ant E	0.368	0.020	0.254	0.092	0.642	0.480
	LTE Band 25 (PCS)	1.141	0.020	0.254	0.092	1.415	1.253
	LTE Band 30	1.057	0.020	0.254	0.092	1.331	1.169
	LTE Band 7	0.867	0.020	0.254	0.092	1.141	0.979
	LTE Band 48	0.259	0.020	0.254	0.092	0.533	0.371
	LTE Band 41	0.361	0.020	0.254	0.092	0.635	0.473
	NR Band n71 Antenna A + B	0.418	0.020	0.254	0.092	0.692	0.530
	NR Band n12 Antenna A + B	0.503	0.020	0.254	0.092	0.777	0.615
	NR Band n5 (Cell) Antenna A + B	0.470	0.020	0.254	0.092	0.744	0.582
	NR Band n66 (AWS) Antenna B	1.058	0.020	0.254	0.092	1.332	1.170
	NR Band n66 (AWS) Antenna E	0.515	0.020	0.254	0.092	0.789	0.627
	NR Band n25 (PCS) Antenna B	1.215	0.020	0.254	0.092	1.489	1.327
	NR Band n25 (PCS) Antenna E	0.488	0.020	0.254	0.092	0.762	0.600
	NR Band n30	0.933	0.020	0.254	0.092	1.207	1.045
	NR Band n41	0.337	0.020	0.254	0.092	0.611	0.449
	NR Band n77 DoD Antenna E	0.156	0.020	0.254	0.092	0.430	0.268
	NR Band n77 DoD Antenna G	0.053	0.020	0.254	0.092	0.327	0.165
	NR Band n77 DoD Antenna F	0.798	0.020	0.254	0.092	1.072	0.910
	NR Band n77 DoD Antenna B	0.121	0.020	0.254	0.092	0.395	0.233
	NR Band n77 Antenna E	0.565	0.020	0.254	0.092	0.839	0.677
	NR Band n77 Antenna G	0.061	0.020	0.254	0.092	0.335	0.173
	NR Band n77 Antenna F	0.881	0.020	0.254	0.092	1.155	0.993
	NR Band n77 Antenna B	0.086	0.020	0.254	0.092	0.360	0.198

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Table 12-41
Simultaneous Transmission Scenario with 2.4 GHz WLAN Antenna 2, 5 GHz WLAN MIMO, and Bluetooth
Antenna 1, (UMPC Body)

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
UMPC Body SAR	EVDO BC10 (\$90S) Ant A + B	0.437	0.168	0.220	0.254	1.079
	EVDO BC0 (\$22H) Ant A + B	0.414	0.168	0.220	0.254	1.056
	PCS EVDO	1.112	0.168	0.220	0.254	See Table Below
	GPRS 850 Ant A + B	0.364	0.168	0.220	0.254	1.006
	GPRS 1900	1.118	0.168	0.220	0.254	See Table Below
	UMTS 850 Ant A + B	0.477	0.168	0.220	0.254	1.119
	UMTS 1750	1.034	0.168	0.220	0.254	See Table Below
	UMTS 1900	1.178	0.168	0.220	0.254	See Table Below
	LTE Band 71 Ant A + B	0.405	0.168	0.220	0.254	1.047
	LTE Band 12 Ant A + B	0.450	0.168	0.220	0.254	1.092
	LTE Band 13 Ant A + B	0.522	0.168	0.220	0.254	1.164
	LTE Band 14 Ant A + B	0.520	0.168	0.220	0.254	1.162
	LTE Band 26 (Cell) Ant A + B	0.567	0.168	0.220	0.254	1.209
	LTE Band 5 (Cell) Ant A + B	0.561	0.168	0.220	0.254	1.203
	LTE Band 66 (AWS) Ant B	1.017	0.168	0.220	0.254	See Table Below
	LTE Band 66 (AWS) Ant E	0.368	0.168	0.220	0.254	1.010
	LTE Band 25 (PCS)	1.141	0.168	0.220	0.254	See Table Below
	LTE Band 30	1.057	0.168	0.220	0.254	See Table Below
	LTE Band 7	0.867	0.168	0.220	0.254	1.509
	LTE Band 48	0.259	0.168	0.220	0.254	0.901
	LTE Band 41	0.361	0.168	0.220	0.254	1.003
	NR Band n71 Antenna A + B	0.418	0.168	0.220	0.254	1.060
	NR Band n12 Antenna A + B	0.503	0.168	0.220	0.254	1.145
	NR Band n5 (Cell) Antenna A + B	0.470	0.168	0.220	0.254	1.112
	NR Band n66 (AWS) Antenna B	1.058	0.168	0.220	0.254	See Table Below
	NR Band n66 (AWS) Antenna E	0.515	0.168	0.220	0.254	1.157
	NR Band n25 (PCS) Antenna B	1.215	0.168	0.220	0.254	See Table Below
	NR Band n25 (PCS) Antenna E	0.488	0.168	0.220	0.254	1.130
	NR Band n30	0.933	0.168	0.220	0.254	1.575
	NR Band n41	0.337	0.168	0.220	0.254	0.979
	NR Band n77 DoD Antenna E	0.156	0.168	0.220	0.254	0.798
	NR Band n77 DoD Antenna G	0.053	0.168	0.220	0.254	0.695
	NR Band n77 DoD Antenna F	0.798	0.168	0.220	0.254	1.440
	NR Band n77 DoD Antenna B	0.121	0.168	0.220	0.254	0.763
	NR Band n77 Antenna E	0.565	0.168	0.220	0.254	1.207
	NR Band n77 Antenna G	0.061	0.168	0.220	0.254	0.703
	NR Band n77 Antenna F	0.881	0.168	0.220	0.254	1.523
	NR Band n77 Antenna B	0.086	0.168	0.220	0.254	0.728

Simult Tx	Configuration	PCS EVDO SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
UMPC Body SAR	Back	1.112	0.080	0.127	0.161	1.480
	Front	1.086	0.114	0.130	0.124	1.454
	Top	-	-	0.214	0.254	0.468
	Bottom	1.076	0.168	0.220	-	1.464
	Right	0.200	-	-	-	0.200
Simult Tx	Configuration	GPRS 1900 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
UMPC Body SAR	Back	0.920	0.080	0.127	0.161	1.288
	Front	1.118	0.114	0.130	0.124	1.486
	Top	-	-	0.214	0.254	0.468
	Bottom	0.864	0.168	0.220	-	1.252
	Right	0.211	-	-	-	0.211

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Simult Tx	Configuration	UMTS 1750 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	UMTS 1900 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4			1	2	3	4	1+2+3+4
UMPC Body SAR	Back	0.926	0.080	0.127	0.161	1.294	UMPC Body SAR	Back	1.147	0.080	0.127	0.161	1.515
	Front	1.034	0.114	0.130	0.124	1.402		Front	1.178	0.114	0.130	0.124	1.546
	Top	-	-	0.214	0.254	0.468		Top	-	-	0.214	0.254	0.468
	Bottom	0.604	0.168	0.220	-	0.992		Bottom	1.030	0.168	0.220	-	1.418
	Right	0.401	-	-	-	0.401		Right	0.249	-	-	-	0.249
Simult Tx	Configuration	LTE Band 66 (AWS) Ant B SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 25 (PCS) SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4			1	2	3	4	1+2+3+4
UMPC Body SAR	Back	0.832	0.080	0.127	0.161	1.200	UMPC Body SAR	Back	1.022	0.080	0.127	0.161	1.390
	Front	1.017	0.114	0.130	0.124	1.385		Front	1.141	0.114	0.130	0.124	1.509
	Top	-	-	0.214	0.254	0.468		Top	-	-	0.214	0.254	0.468
	Bottom	0.721	0.168	0.220	-	1.109		Bottom	0.799	0.168	0.220	-	1.187
	Right	0.397	-	-	-	0.397		Right	0.659	-	-	-	0.659
Simult Tx	Configuration	LTE Band 30 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	NR Band n66 (AWS) Antenna B SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4			1	2	3	4	1+2+3+4
UMPC Body SAR	Back	0.939	0.080	0.127	0.161	1.307	UMPC Body SAR	Back	0.836	0.080	0.127	0.161	1.204
	Front	1.057	0.114	0.130	0.124	1.425		Front	1.058	0.114	0.130	0.124	1.426
	Top	-	-	0.214	0.254	0.468		Top	-	-	0.214	0.254	0.468
	Bottom	1.055	0.168	0.220	-	1.443		Bottom	0.800	0.168	0.220	-	1.188
	Right	0.326	-	-	-	0.326		Right	0.493	-	-	-	0.493
			Simult Tx	Configuration	NR Band n25 (PCS) Antenna B SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)				
					1	2	3	4	1+2+3+4				
			UMPC Body SAR	Back	1.205	0.080	0.127	0.161	1.573				
				Front	1.215	0.114	0.130	0.124	1.583				
				Top	-	-	0.214	0.254	0.468				
				Bottom	1.197	0.168	0.220	-	1.585				
				Right	0.328	-	-	-	0.328				

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Table 12-42
Simultaneous Transmission Scenario with 2.4 GHz WLAN Antenna 2, 6 GHz WLAN MIMO, and Bluetooth
Antenna 1, (UMPC Body)

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	6 GHz WLAN MIMO SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
UMPC Body SAR	EVDO BC10 (\$90S) Ant A + B	0.437	0.168	0.020	0.254	0.879
	EVDO BC0 (\$22H) Ant A + B	0.414	0.168	0.020	0.254	0.856
	PCS EVDO	1.112	0.168	0.020	0.254	1.554
	GPRS 850 Ant A + B	0.364	0.168	0.020	0.254	0.806
	GPRS 1900	1.118	0.168	0.020	0.254	1.560
	UMTS 850 Ant A + B	0.477	0.168	0.020	0.254	0.919
	UMTS 1750	1.034	0.168	0.020	0.254	1.476
	UMTS 1900	1.178	0.168	0.020	0.254	See Table Below
	LTE Band 71 Ant A + B	0.405	0.168	0.020	0.254	0.847
	LTE Band 12 Ant A + B	0.450	0.168	0.020	0.254	0.892
	LTE Band 13 Ant A + B	0.522	0.168	0.020	0.254	0.964
	LTE Band 14 Ant A + B	0.520	0.168	0.020	0.254	0.962
	LTE Band 26 (Cell) Ant A + B	0.567	0.168	0.020	0.254	1.009
	LTE Band 5 (Cell) Ant A + B	0.561	0.168	0.020	0.254	1.003
	LTE Band 66 (AWS) Ant B	1.017	0.168	0.020	0.254	1.459
	LTE Band 66 (AWS) Ant E	0.368	0.168	0.020	0.254	0.810
	LTE Band 25 (PCS)	1.141	0.168	0.020	0.254	1.583
	LTE Band 30	1.057	0.168	0.020	0.254	1.499
	LTE Band 7	0.867	0.168	0.020	0.254	1.309
	LTE Band 48	0.259	0.168	0.020	0.254	0.701
	LTE Band 41	0.361	0.168	0.020	0.254	0.803
	NR Band n71 Antenna A + B	0.418	0.168	0.020	0.254	0.860
	NR Band n12 Antenna A + B	0.503	0.168	0.020	0.254	0.945
	NR Band n5 (Cell) Antenna A + B	0.470	0.168	0.020	0.254	0.912
	NR Band n66 (AWS) Antenna B	1.058	0.168	0.020	0.254	1.500
	NR Band n66 (AWS) Antenna E	0.515	0.168	0.020	0.254	0.957
	NR Band n25 (PCS) Antenna B	1.215	0.168	0.020	0.254	See Table Below
	NR Band n25 (PCS) Antenna E	0.488	0.168	0.020	0.254	0.930
	NR Band n30	0.933	0.168	0.020	0.254	1.375
	NR Band n41	0.337	0.168	0.020	0.254	0.779
	NR Band n77 DoD Antenna E	0.156	0.168	0.020	0.254	0.598
	NR Band n77 DoD Antenna G	0.053	0.168	0.020	0.254	0.495
	NR Band n77 DoD Antenna F	0.798	0.168	0.020	0.254	1.240
	NR Band n77 DoD Antenna B	0.121	0.168	0.020	0.254	0.563
	NR Band n77 Antenna E	0.565	0.168	0.020	0.254	1.007
	NR Band n77 Antenna G	0.061	0.168	0.020	0.254	0.503
	NR Band n77 Antenna F	0.881	0.168	0.020	0.254	1.323
	NR Band n77 Antenna B	0.086	0.168	0.020	0.254	0.528
Simult Tx	Configuration	UMTS 1900 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	6 GHz WLAN MIMO SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
UMPC Body SAR	Back	1.147	0.080	0.013	0.161	1.401
	Front	1.178	0.114	0.020	0.124	1.436
	Top	-	-	0.019	0.254	0.273
	Bottom	1.030	0.168	0.015	-	1.213
	Right	0.249	-	-	-	0.249
Simult Tx	Configuration	NR Band n25 (PCS) Antenna B SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	6 GHz WLAN MIMO SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
		Back	1.205	0.080	0.013	1.459
		Front	1.215	0.114	0.020	1.473
		Top	-	-	0.019	0.254
UMPC Body SAR	Bottom	1.197	0.168	0.015	-	1.380
	Right	0.328	-	-	-	0.328

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12.8 UMPC Extremity Simultaneous Transmission Analysis

For SAR summation, the highest reported SAR across all test distances was used as the most conservative evaluation for simultaneous transmission analysis for each device edge.

Table 12-43

Simultaneous Transmission Scenario with 2.4 GHz WLAN (UMPC Extremity)

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	2.4 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
UMPC Extremity SAR	EVDO BC10 (\$90S) Ant A + B	1.216	1.571	2.787
	EVDO BC0 (\$22H) Ant A + B	1.184	1.571	2.755
	PCS EVDO	2.781	1.571	See Table Below
	GPRS 850 Ant A + B	0.880	1.571	2.451
	GPRS 1900	2.688	1.571	See Table Below
	UMTS 850 Ant A + B	1.347	1.571	2.918
	UMTS 1750	2.854	1.571	See Table Below
	UMTS 1900	2.511	1.571	See Table Below
	LTE Band 71 Ant A + B	1.578	1.571	3.149
	LTE Band 12 Ant A + B	1.518	1.571	3.089
	LTE Band 13 Ant A + B	1.440	1.571	3.011
	LTE Band 14 Ant A + B	1.426	1.571	2.997
	LTE Band 26 (Cell) Ant A + B	1.255	1.571	2.826
	LTE Band 5 (Cell) Ant A + B	1.483	1.571	3.054
	LTE Band 66 (AWS) Ant B	2.157	1.571	3.728
	LTE Band 66 (AWS) Ant E	2.271	1.571	3.842
	LTE Band 25 (PCS)	2.265	1.571	3.836
	LTE Band 30	2.440	1.571	See Table Below
	LTE Band 7	2.302	1.571	3.873
	LTE Band 48	2.291	1.571	3.862
	LTE Band 41	1.662	1.571	3.233
	NR Band n71 Antenna A + B	1.294	1.571	2.865
	NR Band n12 Antenna A + B	1.705	1.571	3.276
	NR Band n5 (Cell) Antenna A + B	1.070	1.571	2.641
	NR Band n66 (AWS) Antenna B	2.469	1.571	See Table Below
	NR Band n66 (AWS) Antenna E	2.711	1.571	See Table Below
	NR Band n25 (PCS) Antenna B	2.562	1.571	See Table Below
	NR Band n25 (PCS) Antenna E	2.525	1.571	See Table Below
	NR Band n30	1.768	1.571	3.339
	NR Band n41	1.995	1.571	3.566
	NR Band n77 DoD Antenna E	1.372	1.571	2.943
	NR Band n77 DoD Antenna G	0.267	1.571	1.838
	NR Band n77 DoD Antenna F	3.000	1.571	See Table Below
	NR Band n77 DoD Antenna B	0.383	1.571	1.954
	NR Band n77 Antenna E	2.980	1.571	See Table Below
	NR Band n77 Antenna G	0.251	1.571	1.822
	NR Band n77 Antenna F	2.419	1.571	3.990
	NR Band n77 Antenna B	0.168	1.571	1.739

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Simult Tx	Configuration	PCS EVDO SAR (W/kg)	2.4 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	GPRS 1900 SAR (W/kg)	2.4 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	UMTS 1750 SAR (W/kg)	2.4 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2			1	2	1+2			1	2	1+2
UMPC Extremity SAR	Back	0.989	0.757	1.746	UMPC Extremity SAR	Back	1.544	0.757	2.301	UMPC Extremity SAR	Back	1.366	0.757	2.123
	Front	0.930	0.842	1.772		Front	1.323	0.842	2.165		Front	1.214	0.842	2.056
	Top	-	1.571	1.571		Top	-	1.571	1.571		Top	-	1.571	1.571
	Bottom	2.781	0.463	3.244		Bottom	2.688	0.463	3.151		Bottom	2.854	0.463	3.317
	Right	0.745	-	0.745		Right	0.739	-	0.739		Right	1.003	-	1.003
Simult Tx	Configuration	UMTS 1900 SAR (W/kg)	2.4 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 30 SAR (W/kg)	2.4 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	NR Band n66 (AWS) Antenna B SAR (W/kg)	2.4 GHz WLAN MIMO at 18 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2			1	2	1+2			1	2	1+2
UMPC Extremity SAR	Back	0.953	0.757	1.710	UMPC Extremity SAR	Back	1.137	0.757	1.894	UMPC Extremity SAR	Back	1.059	0.456	1.515
	Front	0.883	0.842	1.725		Front	1.137	0.842	1.979		Front	1.090	0.421	1.511
	Top	-	1.571	1.571		Top	-	1.571	1.571		Top	-	0.577	0.577
	Bottom	2.511	0.463	2.974		Bottom	2.440	0.463	2.903		Bottom	2.469	0.461	2.930
	Right	0.793	-	0.793		Right	0.616	-	0.616		Right	1.277	-	1.277
Simult Tx	Configuration	NR Band n66 (AWS) Antenna E SAR (W/kg)	2.4 GHz WLAN MIMO at 18 dBm SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	NR Band n25 (PCS) Antenna B SAR (W/kg)	2.4 GHz WLAN MIMO at 18 dBm SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	NR Band n25 (PCS) Antenna E SAR (W/kg)	2.4 GHz WLAN MIMO at 18 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2			1	2	1+2			1	2	1+2
UMPC Extremity SAR	Back	1.064	0.456	1.520	UMPC Extremity SAR	Back	1.153	0.456	1.609	UMPC Extremity SAR	Back	0.981	0.456	1.437
	Front	1.010	0.421	1.431		Front	1.092	0.421	1.513		Front	1.245	0.421	1.666
	Top	2.711	0.577	3.288		Top	-	0.577	0.577		Top	2.525	0.577	3.102
	Bottom	-	0.461	0.461		Bottom	2.562	0.461	3.023		Bottom	-	0.461	0.461
	Right	-	-	-		Right	1.124	-	1.124		Right	-	-	-
Simult Tx	Configuration	NR Band n77 DoD Antenna F SAR (W/kg)	2.4 GHz WLAN MIMO at 18 dBm SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	NR Band n77 Antenna E SAR (W/kg)	2.4 GHz WLAN MIMO at 18 dBm SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	NR Band n77 Antenna E SAR (W/kg)	2.4 GHz WLAN MIMO at 18 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2			1	2	1+2			1	2	1+2
UMPC Extremity SAR	Back	1.013	0.456	1.469	UMPC Extremity SAR	Back	1.334	0.456	1.790	UMPC Extremity SAR	Back	1.479	0.421	1.900
	Front	1.005	0.421	1.426		Front	2.980	0.577	3.557		Front	-	0.461	0.461
	Top	3.000	0.577	3.577		Top	-	-	-		Bottom	-	-	-
	Bottom	-	0.461	0.461		Bottom	-	-	-		Right	-	-	-
	Right	0.250	-	0.250		Right	-	-	-		Right	-	-	-

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Table 12-44
Simultaneous Transmission Scenario with 5 GHz WLAN (UMPC Extremity)

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	
		1	2	3	1+2	1+3
UMPC Extremity SAR	EVDO BC10 (\$90S) Ant A + B	1.216	0.782	0.954	1.998	2.170
	EVDO BC0 (\$22H) Ant A + B	1.184	0.782	0.954	1.966	2.138
	PCS EVDO	2.781	0.782	0.954	3.563	3.735
	GPRS 850 Ant A + B	0.880	0.782	0.954	1.662	1.834
	GPRS 1900	2.688	0.782	0.954	3.470	3.642
	UMTS 850 Ant A + B	1.347	0.782	0.954	2.129	2.301
	UMTS 1750	2.854	0.782	0.954	3.636	3.808
	UMTS 1900	2.511	0.782	0.954	3.293	3.465
	LTE Band 71 Ant A + B	1.578	0.782	0.954	2.360	2.532
	LTE Band 12 Ant A + B	1.518	0.782	0.954	2.300	2.472
	LTE Band 13 Ant A + B	1.440	0.782	0.954	2.222	2.394
	LTE Band 14 Ant A + B	1.426	0.782	0.954	2.208	2.380
	LTE Band 26 (Cell) Ant A + B	1.255	0.782	0.954	2.037	2.209
	LTE Band 5 (Cell) Ant A + B	1.483	0.782	0.954	2.265	2.437
	LTE Band 66 (AWS) Ant B	2.157	0.782	0.954	2.939	3.111
	LTE Band 66 (AWS) Ant E	2.271	0.782	0.954	3.053	3.225
	LTE Band 25 (PCS)	2.265	0.782	0.954	3.047	3.219
	LTE Band 30	2.440	0.782	0.954	3.222	3.394
	LTE Band 7	2.302	0.782	0.954	3.084	3.256
	LTE Band 48	2.291	0.782	0.954	3.073	3.245
	LTE Band 41	1.662	0.782	0.954	2.444	2.616
	NR Band n71 Antenna A + B	1.294	0.782	0.954	2.076	2.248
	NR Band n12 Antenna A + B	1.705	0.782	0.954	2.487	2.659
	NR Band n5 (Cell) Antenna A + B	1.070	0.782	0.954	1.852	2.024
	NR Band n66 (AWS) Antenna B	2.469	0.782	0.954	3.251	3.423
	NR Band n66 (AWS) Antenna E	2.711	0.782	0.954	3.493	3.665
	NR Band n25 (PCS) Antenna B	2.562	0.782	0.954	3.344	3.516
	NR Band n25 (PCS) Antenna E	2.525	0.782	0.954	3.307	3.479
	NR Band n30	1.768	0.782	0.954	2.550	2.722
	NR Band n41	1.995	0.782	0.954	2.777	2.949
	NR Band n77 DoD Antenna E	1.372	0.782	0.954	2.154	2.326
	NR Band n77 DoD Antenna G	0.267	0.782	0.954	1.049	1.221
	NR Band n77 DoD Antenna F	3.000	0.782	0.954	3.782	3.954
	NR Band n77 DoD Antenna B	0.383	0.782	0.954	1.165	1.337
	NR Band n77 Antenna E	2.980	0.782	0.954	3.762	3.934
	NR Band n77 Antenna G	0.251	0.782	0.954	1.033	1.205
	NR Band n77 Antenna F	2.419	0.782	0.954	3.201	3.373
	NR Band n77 Antenna B	0.168	0.782	0.954	0.950	1.122

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Table 12-45
Simultaneous Transmission Scenario with 6 GHz WLAN (UMPC Extremity)

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	6 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
UMPC Extremity SAR	EVDO BC10 (\$90S) Ant A + B	1.216	0.142	1.358
	EVDO BC0 (\$22H) Ant A + B	1.184	0.142	1.326
	PCS EVDO	2.781	0.142	2.923
	GPRS 850 Ant A + B	0.880	0.142	1.022
	GPRS 1900	2.688	0.142	2.830
	UMTS 850 Ant A + B	1.347	0.142	1.489
	UMTS 1750	2.854	0.142	2.996
	UMTS 1900	2.511	0.142	2.653
	LTE Band 71 Ant A + B	1.578	0.142	1.720
	LTE Band 12 Ant A + B	1.518	0.142	1.660
	LTE Band 13 Ant A + B	1.440	0.142	1.582
	LTE Band 14 Ant A + B	1.426	0.142	1.568
	LTE Band 26 (Cell) Ant A + B	1.255	0.142	1.397
	LTE Band 5 (Cell) Ant A + B	1.483	0.142	1.625
	LTE Band 66 (AWS) Ant B	2.157	0.142	2.299
	LTE Band 66 (AWS) Ant E	2.271	0.142	2.413
	LTE Band 25 (PCS)	2.265	0.142	2.407
	LTE Band 30	2.440	0.142	2.582
	LTE Band 7	2.302	0.142	2.444
	LTE Band 48	2.291	0.142	2.433
	LTE Band 41	1.662	0.142	1.804
	NR Band n71 Antenna A + B	1.294	0.142	1.436
	NR Band n12 Antenna A + B	1.705	0.142	1.847
	NR Band n5 (Cell) Antenna A + B	1.070	0.142	1.212
	NR Band n66 (AWS) Antenna B	2.469	0.142	2.611
	NR Band n66 (AWS) Antenna E	2.711	0.142	2.853
	NR Band n25 (PCS) Antenna B	2.562	0.142	2.704
	NR Band n25 (PCS) Antenna E	2.525	0.142	2.667
	NR Band n30	1.768	0.142	1.910
	NR Band n41	1.995	0.142	2.137
	NR Band n77 DoD Antenna E	1.372	0.142	1.514
	NR Band n77 DoD Antenna G	0.267	0.142	0.409
	NR Band n77 DoD Antenna F	3.000	0.142	3.142
	NR Band n77 DoD Antenna B	0.383	0.142	0.525
	NR Band n77 Antenna E	2.980	0.142	3.122
	NR Band n77 Antenna G	0.251	0.142	0.393
	NR Band n77 Antenna F	2.419	0.142	2.561
	NR Band n77 Antenna B	0.168	0.142	0.310

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Table 12-46
Simultaneous Transmission Scenario with 2.4 GHz WLAN MIMO and 5 GHz WLAN MIMO (UMPC Extremity)

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	2.4 GHz WLAN MIMO at 18 dBm SAR (W/kg)	5 GHz WLAN MIMO at 18 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
UMPC Extremity SAR	EVDO BC10 (§90S) Ant A + B	1.216	0.577	0.402	2.195
	EVDO BC0 (§22H) Ant A + B	1.184	0.577	0.402	2.163
	PCS EVDO	2.781	0.577	0.402	3.760
	GPRS 850 Ant A + B	0.880	0.577	0.402	1.859
	GPRS 1900	2.688	0.577	0.402	3.667
	UMTS 850 Ant A + B	1.347	0.577	0.402	2.326
	UMTS 1750	2.854	0.577	0.402	3.833
	UMTS 1900	2.511	0.577	0.402	3.490
	LTE Band 71 Ant A + B	1.578	0.577	0.402	2.557
	LTE Band 12 Ant A + B	1.518	0.577	0.402	2.497
	LTE Band 13 Ant A + B	1.440	0.577	0.402	2.419
	LTE Band 14 Ant A + B	1.426	0.577	0.402	2.405
	LTE Band 26 (Cell) Ant A + B	1.255	0.577	0.402	2.234
	LTE Band 5 (Cell) Ant A + B	1.483	0.577	0.402	2.462
	LTE Band 66 (AWS) Ant B	2.157	0.577	0.402	3.136
	LTE Band 66 (AWS) Ant E	2.271	0.577	0.402	3.250
	LTE Band 25 (PCS)	2.265	0.577	0.402	3.244
	LTE Band 30	2.440	0.577	0.402	3.419
	LTE Band 7	2.302	0.577	0.402	3.281
	LTE Band 48	2.291	0.577	0.402	3.270
	LTE Band 41	1.662	0.577	0.402	2.641
	NR Band n71 Antenna A + B	1.294	0.577	0.402	2.273
	NR Band n12 Antenna A + B	1.705	0.577	0.402	2.684
	NR Band n5 (Cell) Antenna A + B	1.070	0.577	0.402	2.049
	NR Band n66 (AWS) Antenna B	2.469	0.577	0.402	3.448
	NR Band n66 (AWS) Antenna E	2.711	0.577	0.402	3.690
	NR Band n25 (PCS) Antenna B	2.562	0.577	0.402	3.541
	NR Band n25 (PCS) Antenna E	2.525	0.577	0.402	3.504
	NR Band n30	1.768	0.577	0.402	2.747
	NR Band n41	1.995	0.577	0.402	2.974
	NR Band n77 DoD Antenna E	1.372	0.577	0.402	2.351
	NR Band n77 DoD Antenna G	0.267	0.577	0.402	1.246
	NR Band n77 DoD Antenna F	3.000	0.577	0.402	3.979
	NR Band n77 DoD Antenna B	0.383	0.577	0.402	1.362
	NR Band n77 Antenna E	2.980	0.577	0.402	3.959
	NR Band n77 Antenna G	0.251	0.577	0.402	1.230
	NR Band n77 Antenna F	2.419	0.577	0.402	3.398
	NR Band n77 Antenna B	0.168	0.577	0.402	1.147

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Table 12-47
Simultaneous Transmission Scenario with 2.4 GHz WLAN MIMO and 6 GHz WLAN MIMO (UMPC Extremity)

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	2.4 GHz WLAN MIMO at 18 dBm SAR (W/kg)	6 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
UMPC Extremity SAR	EVDO BC10 (§90S) Ant A + B	1.216	0.577	0.142	1.935
	EVDO BC0 (§22H) Ant A + B	1.184	0.577	0.142	1.903
	PCS EVDO	2.781	0.577	0.142	3.500
	GPRS 850 Ant A + B	0.880	0.577	0.142	1.599
	GPRS 1900	2.688	0.577	0.142	3.407
	UMTS 850 Ant A + B	1.347	0.577	0.142	2.066
	UMTS 1750	2.854	0.577	0.142	3.573
	UMTS 1900	2.511	0.577	0.142	3.230
	LTE Band 71 Ant A + B	1.578	0.577	0.142	2.297
	LTE Band 12 Ant A + B	1.518	0.577	0.142	2.237
	LTE Band 13 Ant A + B	1.440	0.577	0.142	2.159
	LTE Band 14 Ant A + B	1.426	0.577	0.142	2.145
	LTE Band 26 (Cell) Ant A + B	1.255	0.577	0.142	1.974
	LTE Band 5 (Cell) Ant A + B	1.483	0.577	0.142	2.202
	LTE Band 66 (AWS) Ant B	2.157	0.577	0.142	2.876
	LTE Band 66 (AWS) Ant E	2.271	0.577	0.142	2.990
	LTE Band 25 (PCS)	2.265	0.577	0.142	2.984
	LTE Band 30	2.440	0.577	0.142	3.159
	LTE Band 7	2.302	0.577	0.142	3.021
	LTE Band 48	2.291	0.577	0.142	3.010
	LTE Band 41	1.662	0.577	0.142	2.381
	NR Band n71 Antenna A + B	1.294	0.577	0.142	2.013
	NR Band n12 Antenna A + B	1.705	0.577	0.142	2.424
	NR Band n5 (Cell) Antenna A + B	1.070	0.577	0.142	1.789
	NR Band n66 (AWS) Antenna B	2.469	0.577	0.142	3.188
	NR Band n66 (AWS) Antenna E	2.711	0.577	0.142	3.430
	NR Band n25 (PCS) Antenna B	2.562	0.577	0.142	3.281
	NR Band n25 (PCS) Antenna E	2.525	0.577	0.142	3.244
	NR Band n30	1.768	0.577	0.142	2.487
	NR Band n41	1.995	0.577	0.142	2.714
	NR Band n77 DoD Antenna E	1.372	0.577	0.142	2.091
	NR Band n77 DoD Antenna G	0.267	0.577	0.142	0.986
	NR Band n77 DoD Antenna F	3.000	0.577	0.142	3.719
	NR Band n77 DoD Antenna B	0.383	0.577	0.142	1.102
	NR Band n77 Antenna E	2.980	0.577	0.142	3.699
	NR Band n77 Antenna G	0.251	0.577	0.142	0.970
	NR Band n77 Antenna F	2.419	0.577	0.142	3.138
	NR Band n77 Antenna B	0.168	0.577	0.142	0.887

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Table 12-48
Simultaneous Transmission Scenario with Bluetooth (UMPC Extremity)

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	Σ SAR (W/kg)	
		1	2	3	1+2	1+3
UMPC Extremity SAR	EVDO BC10 (\$90S) Ant A + B	1.216	1.394	0.263	2.610	1.479
	EVDO BC0 (\$22H) Ant A + B	1.184	1.394	0.263	2.578	1.447
	PCS EVDO	2.781	1.394	0.263	See Table Below	3.044
	GPRS 850 Ant A + B	0.880	1.394	0.263	2.274	1.143
	GPRS 1900	2.688	1.394	0.263	See Table Below	2.951
	UMTS 850 Ant A + B	1.347	1.394	0.263	2.741	1.610
	UMTS 1750	2.854	1.394	0.263	See Table Below	3.117
	UMTS 1900	2.511	1.394	0.263	3.905	2.774
	LTE Band 71 Ant A + B	1.578	1.394	0.263	2.972	1.841
	LTE Band 12 Ant A + B	1.518	1.394	0.263	2.912	1.781
	LTE Band 13 Ant A + B	1.440	1.394	0.263	2.834	1.703
	LTE Band 14 Ant A + B	1.426	1.394	0.263	2.820	1.689
	LTE Band 26 (Cell) Ant A + B	1.255	1.394	0.263	2.649	1.518
	LTE Band 5 (Cell) Ant A + B	1.483	1.394	0.263	2.877	1.746
	LTE Band 66 (AWS) Ant B	2.157	1.394	0.263	3.551	2.420
	LTE Band 66 (AWS) Ant E	2.271	1.394	0.263	3.665	2.534
	LTE Band 25 (PCS)	2.265	1.394	0.263	3.659	2.528
	LTE Band 30	2.440	1.394	0.263	3.834	2.703
	LTE Band 7	2.302	1.394	0.263	3.696	2.565
	LTE Band 48	2.291	1.394	0.263	3.685	2.554
	LTE Band 41	1.662	1.394	0.263	3.056	1.925
	NR Band n71 Antenna A + B	1.294	1.394	0.263	2.688	1.557
	NR Band n12 Antenna A + B	1.705	1.394	0.263	3.099	1.968
	NR Band n5 (Cell) Antenna A + B	1.070	1.394	0.263	2.464	1.333
	NR Band n66 (AWS) Antenna B	2.469	1.394	0.263	3.863	2.732
	NR Band n66 (AWS) Antenna E	2.711	1.394	0.263	See Table Below	2.974
	NR Band n25 (PCS) Antenna B	2.562	1.394	0.263	3.956	2.825
	NR Band n25 (PCS) Antenna E	2.525	1.394	0.263	3.919	2.788
	NR Band n30	1.768	1.394	0.263	3.162	2.031
	NR Band n41	1.995	1.394	0.263	3.389	2.258
	NR Band n77 DoD Antenna E	1.372	1.394	0.263	2.766	1.635
	NR Band n77 DoD Antenna G	0.267	1.394	0.263	1.661	0.530
	NR Band n77 DoD Antenna F	3.000	1.394	0.263	See Table Below	3.263
	NR Band n77 DoD Antenna B	0.383	1.394	0.263	1.777	0.646
	NR Band n77 Antenna E	2.980	1.394	0.263	See Table Below	3.243
	NR Band n77 Antenna G	0.251	1.394	0.263	1.645	0.514
	NR Band n77 Antenna F	2.419	1.394	0.263	3.813	2.682
	NR Band n77 Antenna B	0.168	1.394	0.263	1.562	0.431

Simult Tx	Configuration	PCS EVDO SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	GPRS 1900 SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	UMTS 1750 SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2			1	2	1+2			1	2	1+2
UMPC Extremity SAR	Back	0.989	0.664	1.653	UMPC Extremity SAR	Back	1.544	0.664	2.208	UMPC Extremity SAR	Back	1.366	0.664	2.030
	Front	0.930	0.678	1.608		Front	1.323	0.678	2.001		Front	1.214	0.678	1.892
	Top	-	1.394	1.394		Top	-	1.394	1.394		Top	-	1.394	1.394
	Bottom	2.781	-	2.781		Bottom	2.688	-	2.688		Bottom	2.854	-	2.854
	Right	0.745	-	0.745		Right	0.739	-	0.739		Right	1.003	-	1.003
UMPC Extremity SAR	Back	1.064	0.215	1.279	UMPC Extremity SAR	Back	1.013	0.215	1.228	UMPC Extremity SAR	Back	1.334	0.215	1.549
	Front	1.010	0.341	1.351		Front	1.005	0.341	1.346		Front	1.479	0.341	1.820
	Top	2.711	0.582	3.293		Top	3.000	0.582	3.582		Top	2.980	0.582	3.562
	Bottom	-	-	-		Bottom	-	-	-		Bottom	-	-	-
	Right	-	-	-		Right	0.250	-	0.250		Right	-	-	-

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Table 12-49
Simultaneous Transmission Scenario with 2.4 GHz WLAN Antenna 2 and Bluetooth Antenna 1 (UMPC Extremity)

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
UMPC Extremity SAR	EVDO BC10 (§90S) Ant A + B	1.216	0.669	1.394	3.279
	EVDO BC0 (§22H) Ant A + B	1.184	0.669	1.394	3.247
	PCS EVDO	2.781	0.669	1.394	See Table Below
	GPRS 850 Ant A + B	0.880	0.669	1.394	2.943
	GPRS 1900	2.688	0.669	1.394	See Table Below
	UMTS 850 Ant A + B	1.347	0.669	1.394	3.410
	UMTS 1750	2.854	0.669	1.394	See Table Below
	UMTS 1900	2.511	0.669	1.394	See Table Below
	LTE Band 71 Ant A + B	1.578	0.669	1.394	3.641
	LTE Band 12 Ant A + B	1.518	0.669	1.394	3.581
	LTE Band 13 Ant A + B	1.440	0.669	1.394	3.503
	LTE Band 14 Ant A + B	1.426	0.669	1.394	3.489
	LTE Band 26 (Cell) Ant A + B	1.255	0.669	1.394	3.318
	LTE Band 5 (Cell) Ant A + B	1.483	0.669	1.394	3.546
	LTE Band 66 (AWS) Ant B	2.157	0.669	1.394	See Table Below
	LTE Band 66 (AWS) Ant E	2.271	0.669	1.394	See Table Below
	LTE Band 25 (PCS)	2.265	0.669	1.394	See Table Below
	LTE Band 30	2.440	0.669	1.394	See Table Below
	LTE Band 7	2.302	0.669	1.394	See Table Below
	LTE Band 48	2.291	0.669	1.394	See Table Below
	LTE Band 41	1.662	0.669	1.394	3.725
	NR Band n71 Antenna A + B	1.294	0.669	1.394	3.357
	NR Band n12 Antenna A + B	1.705	0.669	1.394	3.768
	NR Band n5 (Cell) Antenna A + B	1.070	0.669	1.394	3.133
	NR Band n66 (AWS) Antenna B	2.469	0.669	1.394	See Table Below
	NR Band n66 (AWS) Antenna E	2.711	0.669	1.394	See Table Below
	NR Band n25 (PCS) Antenna B	2.562	0.669	1.394	See Table Below
	NR Band n25 (PCS) Antenna E	2.525	0.669	1.394	See Table Below
	NR Band n30	1.768	0.669	1.394	3.831
	NR Band n41	1.995	0.669	1.394	See Table Below
	NR Band n77 DoD Antenna E	1.372	0.669	1.394	3.435
	NR Band n77 DoD Antenna G	0.267	0.669	1.394	2.330
	NR Band n77 DoD Antenna F	3.000	0.669	1.394	See Table Below
	NR Band n77 DoD Antenna B	0.383	0.669	1.394	2.446
	NR Band n77 Antenna E	2.980	0.669	1.394	See Table Below
	NR Band n77 Antenna G	0.251	0.669	1.394	2.314
	NR Band n77 Antenna F	2.419	0.669	1.394	See Table Below
	NR Band n77 Antenna B	0.168	0.669	1.394	2.231

Simult Tx	Configuration	PCS EVDO SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	GPRS 1900 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3			1	2	3	1+2+3
UMPC Extremity SAR	Back	0.989	0.342	0.664	1.995	UMPC Extremity SAR	Back	1.544	0.342	0.664	2.550
	Front	0.930	0.577	0.678	2.185		Front	1.323	0.577	0.678	2.578
	Top	-	-	1.394	1.394		Top	-	-	1.394	1.394
	Bottom	2.781	0.669	-	3.450		Bottom	2.688	0.669	-	3.357
	Right	0.745	-	-	0.745		Right	0.739	-	-	0.739

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Simult Tx	Configuration	UMTS 1750 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	UMTS 1900 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3			1	2	3	1+2+3
UMPC Extremity SAR	Back	1.366	0.342	0.664	2.372	UMPC Extremity SAR	Back	0.953	0.342	0.664	1.959
	Front	1.214	0.577	0.678	2.469		Front	0.883	0.577	0.678	2.138
	Top	-	-	1.394	1.394		Top	-	-	1.394	1.394
	Bottom	2.854	0.669	-	3.523		Bottom	2.511	0.669	-	3.180
	Right	1.003	-	-	1.003		Right	0.793	-	-	0.793
Simult Tx	Configuration	LTE Band 66 (AWS) Ant B SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 66 (AWS) Ant E SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3			1	2	3	1+2+3
UMPC Extremity SAR	Back	0.979	0.342	0.664	1.985	UMPC Extremity SAR	Back	1.423	0.342	0.664	2.429
	Front	0.953	0.577	0.678	2.208		Front	1.216	0.577	0.678	2.471
	Top	-	-	1.394	1.394		Top	2.271	-	1.394	3.665
	Bottom	2.157	0.669	-	2.826		Bottom	-	0.669	-	0.669
	Right	1.390	-	-	1.390		Right	-	-	-	-
Simult Tx	Configuration	LTE Band 25 (PCS) SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 30 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3			1	2	3	1+2+3
UMPC Extremity SAR	Back	0.857	0.342	0.664	1.863	UMPC Extremity SAR	Back	1.137	0.342	0.664	2.143
	Front	0.786	0.577	0.678	2.041		Front	1.137	0.577	0.678	2.392
	Top	-	-	1.394	1.394		Top	-	-	1.394	1.394
	Bottom	2.265	0.669	-	2.934		Bottom	2.440	0.669	-	3.109
	Right	1.423	-	-	1.423		Right	0.616	-	-	0.616
Simult Tx	Configuration	LTE Band 7 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 48 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3			1	2	3	1+2+3
UMPC Extremity SAR	Back	1.259	0.342	0.664	2.265	UMPC Extremity SAR	Back	0.799	0.342	0.664	1.805
	Front	1.131	0.577	0.678	2.386		Front	0.892	0.577	0.678	2.147
	Top	-	-	1.394	1.394		Top	2.291	-	1.394	3.685
	Bottom	2.302	0.669	-	2.971		Bottom	-	0.669	-	0.669
	Right	0.331	-	-	0.331		Right	-	-	-	-
Simult Tx	Configuration	NR Band n66 (AWS) Antenna B SAR (W/kg)	2.4 GHz WLAN Ant 2 at 15 dBm SAR (W/kg)	2.4 GHz Bluetooth Ant 1 at 15.5 dBm SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	NR Band n66 (AWS) Antenna E SAR (W/kg)	2.4 GHz WLAN Ant 2 at 15 dBm SAR (W/kg)	2.4 GHz Bluetooth Ant 1 at 15.5 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3			1	2	3	1+2+3
UMPC Extremity SAR	Back	1.059	0.157	0.215	1.431	UMPC Extremity SAR	Back	1.064	0.157	0.215	1.436
	Front	1.090	0.147	0.341	1.578		Front	1.010	0.147	0.341	1.498
	Top	-	-	0.582	0.582		Top	2.711	-	0.582	3.293
	Bottom	2.469	0.199	-	2.668		Bottom	-	0.199	-	0.199
	Right	1.277	-	-	1.277		Right	-	-	-	-
Simult Tx	Configuration	NR Band n25 (PCS) Antenna B SAR (W/kg)	2.4 GHz WLAN Ant 2 at 15 dBm SAR (W/kg)	2.4 GHz Bluetooth Ant 1 at 15.5 dBm SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	NR Band n25 (PCS) Antenna E SAR (W/kg)	2.4 GHz WLAN Ant 2 at 15 dBm SAR (W/kg)	2.4 GHz Bluetooth Ant 1 at 15.5 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3			1	2	3	1+2+3
UMPC Extremity SAR	Back	1.153	0.157	0.215	1.525	UMPC Extremity SAR	Back	0.981	0.157	0.215	1.353
	Front	1.092	0.147	0.341	1.580		Front	1.245	0.147	0.341	1.733
	Top	-	-	0.582	0.582		Top	2.525	-	0.582	3.107
	Bottom	2.562	0.199	-	2.761		Bottom	-	0.199	-	0.199
	Right	1.124	-	-	1.124		Right	-	-	-	-
Simult Tx	Configuration	NR Band n41 SAR (W/kg)	2.4 GHz WLAN Ant 2 at 15 dBm SAR (W/kg)	2.4 GHz Bluetooth Ant 1 at 15.5 dBm SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	NR Band n77 DoD Antenna F SAR (W/kg)	2.4 GHz WLAN Ant 2 at 15 dBm SAR (W/kg)	2.4 GHz Bluetooth Ant 1 at 15.5 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3			1	2	3	1+2+3
UMPC Extremity SAR	Back	0.681	0.157	0.215	1.053	UMPC Extremity SAR	Back	1.013	0.157	0.215	1.385
	Front	0.815	0.147	0.341	1.303		Front	1.005	0.147	0.341	1.493
	Top	1.995	-	0.582	2.577		Top	3.000	-	0.582	3.582
	Bottom	-	0.199	-	0.199		Bottom	-	0.199	-	0.199
	Right	-	-	-	-		Right	0.250	-	-	0.250
Simult Tx	Configuration	NR Band n77 Antenna E SAR (W/kg)	2.4 GHz WLAN Ant 2 at 15 dBm SAR (W/kg)	2.4 GHz Bluetooth Ant 1 at 15.5 dBm SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	NR Band n77 Antenna F SAR (W/kg)	2.4 GHz WLAN Ant 2 at 15 dBm SAR (W/kg)	2.4 GHz Bluetooth Ant 1 at 15.5 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3			1	2	3	1+2+3
UMPC Extremity SAR	Back	1.334	0.157	0.215	1.706	UMPC Extremity SAR	Back	0.516	0.157	0.215	0.888
	Front	1.479	0.147	0.341	1.967		Front	0.470	0.147	0.341	0.958
	Top	2.980	-	0.582	3.562		Top	2.419	-	0.582	3.001
	Bottom	-	0.199	-	0.199		Bottom	-	0.199	-	0.199
	Right	-	-	-	-		Right	0.219	-	-	0.219

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Table 12-50
Simultaneous Transmission Scenario with 5 GHz WLAN MIMO and Bluetooth (UMPC Extremity)

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	2.4 GHz Bluetooth Ant 1 at 12.0 dBm SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	Σ SAR (W/kg)	
		1	2	3	4	1+2+3	1+2+4
UMPC Extremity SAR	EVDO BC10 (\$90S) Ant A + B	1.216	0.954	0.287	0.263	2.457	2.433
	EVDO BC0 (\$22H) Ant A + B	1.184	0.954	0.287	0.263	2.425	2.401
	PCS EVDO	2.781	0.954	0.287	0.263	See Table Below	See Table Below
	GPRS 850 Ant A + B	0.880	0.954	0.287	0.263	2.121	2.097
	GPRS 1900	2.688	0.954	0.287	0.263	3.929	3.905
	UMTS 850 Ant A + B	1.347	0.954	0.287	0.263	2.588	2.564
	UMTS 1750	2.854	0.954	0.287	0.263	See Table Below	See Table Below
	UMTS 1900	2.511	0.954	0.287	0.263	3.752	3.728
	LTE Band 71 Ant A + B	1.578	0.954	0.287	0.263	2.819	2.795
	LTE Band 12 Ant A + B	1.518	0.954	0.287	0.263	2.759	2.735
	LTE Band 13 Ant A + B	1.440	0.954	0.287	0.263	2.681	2.657
	LTE Band 14 Ant A + B	1.426	0.954	0.287	0.263	2.667	2.643
	LTE Band 26 (Cell) Ant A + B	1.255	0.954	0.287	0.263	2.496	2.472
	LTE Band 5 (Cell) Ant A + B	1.483	0.954	0.287	0.263	2.724	2.700
	LTE Band 66 (AWS) Ant B	2.157	0.954	0.287	0.263	3.398	3.374
	LTE Band 66 (AWS) Ant E	2.271	0.954	0.287	0.263	3.512	3.488
	LTE Band 25 (PCS)	2.265	0.954	0.287	0.263	3.506	3.482
	LTE Band 30	2.440	0.954	0.287	0.263	3.681	3.657
	LTE Band 7	2.302	0.954	0.287	0.263	3.543	3.519
	LTE Band 48	2.291	0.954	0.287	0.263	3.532	3.508
	LTE Band 41	1.662	0.954	0.287	0.263	2.903	2.879
	NR Band n71 Antenna A + B	1.294	0.954	0.287	0.263	2.535	2.511
	NR Band n12 Antenna A + B	1.705	0.954	0.287	0.263	2.946	2.922
	NR Band n5 (Cell) Antenna A + B	1.070	0.954	0.287	0.263	2.311	2.287
	NR Band n66 (AWS) Antenna B	2.469	0.954	0.287	0.263	3.710	3.686
	NR Band n66 (AWS) Antenna E	2.711	0.954	0.287	0.263	3.952	3.928
	NR Band n25 (PCS) Antenna B	2.562	0.954	0.287	0.263	3.803	3.779
	NR Band n25 (PCS) Antenna E	2.525	0.954	0.287	0.263	3.766	3.742
	NR Band n30	1.768	0.954	0.287	0.263	3.009	2.985
	NR Band n41	1.995	0.954	0.287	0.263	3.236	3.212
	NR Band n77 DoD Antenna E	1.372	0.954	0.287	0.263	2.613	2.589
	NR Band n77 DoD Antenna G	0.267	0.954	0.287	0.263	1.508	1.484
	NR Band n77 DoD Antenna F	3.000	0.954	0.287	0.263	See Table Below	See Table Below
	NR Band n77 DoD Antenna B	0.383	0.954	0.287	0.263	1.624	1.600
	NR Band n77 Antenna E	2.980	0.954	0.287	0.263	See Table Below	See Table Below
	NR Band n77 Antenna G	0.251	0.954	0.287	0.263	1.492	1.468
	NR Band n77 Antenna F	2.419	0.954	0.287	0.263	3.660	3.636
	NR Band n77 Antenna B	0.168	0.954	0.287	0.263	1.409	1.385

Simult Tx	Configuration	PCS EVDO SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	2.4 GHz Bluetooth Ant 1 at 12.0 dBm SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	Σ SAR (W/kg)		Simult Tx	Configuration	UMTS 1750 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	2.4 GHz Bluetooth Ant 1 at 12.0 dBm SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	Σ SAR (W/kg)	
		1	2	3	4	1+2+3	1+2+4			1	2	3	4	1+2+3	1+2+4
UMPC Extremity SAR	Back	0.989	0.588	0.144	0.209	1.721	1.786	UMPC Extremity SAR	Back	1.366	0.588	0.144	0.209	2.098	2.163
	Front	0.930	0.785	0.142	0.261	1.857	1.976		Front	1.214	0.785	0.142	0.261	2.141	2.260
	Top	-	0.954	0.287	-	1.241	0.954		Top	-	0.954	0.287	-	1.241	0.954
	Bottom	2.781	0.786	-	0.263	3.567	3.830		Bottom	2.854	0.786	-	0.263	3.640	3.903
	Right	0.745	-	-	-	0.745	0.745		Right	1.003	-	-	-	1.003	1.003
Simult Tx	Configuration	NR Band n77 DoD Antenna F SAR (W/kg)	5 GHz WLAN MIMO at 18 dBm SAR (W/kg)	2.4 GHz Bluetooth Ant 1 at 12.0 dBm SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	Σ SAR (W/kg)		Simult Tx	Configuration	NR Band n77 Antenna E SAR (W/kg)	5 GHz WLAN MIMO at 18 dBm SAR (W/kg)	2.4 GHz Bluetooth Ant 1 at 12.0 dBm SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	Σ SAR (W/kg)	
		1	2	3	4	1+2+3	1+2+4			1	2	3	4	1+2+3	1+2+4
	Back	1.013	0.213	0.144	0.209	1.370	1.435	UMPC Extremity SAR	Back	1.334	0.213	0.144	0.209	1.691	1.756
	Front	1.005	0.201	0.142	0.261	1.348	1.467		Front	1.479	0.201	0.142	0.261	1.822	1.941
	Top	3.000	0.402	0.287	-	3.689	3.402		Top	2.980	0.402	0.287	-	3.669	3.382
	Bottom	-	0.261	-	0.263	0.261	0.524		Bottom	-	0.261	-	0.263	0.261	0.524
	Right	0.250	-	-	-	0.250	0.250		Right	-	-	-	-	-	-

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Table 12-51
Simultaneous Transmission Scenario with 6 GHz WLAN MIMO and Bluetooth (UMPC Extremity)

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	6 GHz WLAN MIMO SAR (W/kg)	2.4 GHz Bluetooth Ant 1 at 12.0 dBm SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	Σ SAR (W/kg)	
		1	2	3	4	1+2+3	1+2+4
UMPC Extremity SAR	EVDO BC10 (\$90S) Ant A + B	1.216	0.142	0.287	0.263	1.645	1.621
	EVDO BC0 (\$22H) Ant A + B	1.184	0.142	0.287	0.263	1.613	1.589
	PCS EVDO	2.781	0.142	0.287	0.263	3.210	3.186
	GPRS 850 Ant A + B	0.880	0.142	0.287	0.263	1.309	1.285
	GPRS 1900	2.688	0.142	0.287	0.263	3.117	3.093
	UMTS 850 Ant A + B	1.347	0.142	0.287	0.263	1.776	1.752
	UMTS 1750	2.854	0.142	0.287	0.263	3.283	3.259
	UMTS 1900	2.511	0.142	0.287	0.263	2.940	2.916
	LTE Band 71 Ant A + B	1.578	0.142	0.287	0.263	2.007	1.983
	LTE Band 12 Ant A + B	1.518	0.142	0.287	0.263	1.947	1.923
	LTE Band 13 Ant A + B	1.440	0.142	0.287	0.263	1.869	1.845
	LTE Band 14 Ant A + B	1.426	0.142	0.287	0.263	1.855	1.831
	LTE Band 26 (Cell) Ant A + B	1.255	0.142	0.287	0.263	1.684	1.660
	LTE Band 5 (Cell) Ant A + B	1.483	0.142	0.287	0.263	1.912	1.888
	LTE Band 66 (AWS) Ant B	2.157	0.142	0.287	0.263	2.586	2.562
	LTE Band 66 (AWS) Ant E	2.271	0.142	0.287	0.263	2.700	2.676
	LTE Band 25 (PCS)	2.265	0.142	0.287	0.263	2.694	2.670
	LTE Band 30	2.440	0.142	0.287	0.263	2.869	2.845
	LTE Band 7	2.302	0.142	0.287	0.263	2.731	2.707
	LTE Band 48	2.291	0.142	0.287	0.263	2.720	2.696
	LTE Band 41	1.662	0.142	0.287	0.263	2.091	2.067
	NR Band n71 Antenna A + B	1.294	0.142	0.287	0.263	1.723	1.699
	NR Band n12 Antenna A + B	1.705	0.142	0.287	0.263	2.134	2.110
	NR Band n5 (Cell) Antenna A + B	1.070	0.142	0.287	0.263	1.499	1.475
	NR Band n66 (AWS) Antenna B	2.469	0.142	0.287	0.263	2.898	2.874
	NR Band n66 (AWS) Antenna E	2.711	0.142	0.287	0.263	3.140	3.116
	NR Band n25 (PCS) Antenna B	2.562	0.142	0.287	0.263	2.991	2.967
	NR Band n25 (PCS) Antenna E	2.525	0.142	0.287	0.263	2.954	2.930
	NR Band n30	1.768	0.142	0.287	0.263	2.197	2.173
	NR Band n41	1.995	0.142	0.287	0.263	2.424	2.400
	NR Band n77 DoD Antenna E	1.372	0.142	0.287	0.263	1.801	1.777
	NR Band n77 DoD Antenna G	0.267	0.142	0.287	0.263	0.696	0.672
	NR Band n77 DoD Antenna F	3.000	0.142	0.287	0.263	3.429	3.405
	NR Band n77 DoD Antenna B	0.383	0.142	0.287	0.263	0.812	0.788
	NR Band n77 Antenna E	2.980	0.142	0.287	0.263	3.409	3.385
	NR Band n77 Antenna G	0.251	0.142	0.287	0.263	0.680	0.656
	NR Band n77 Antenna F	2.419	0.142	0.287	0.263	2.848	2.824
	NR Band n77 Antenna B	0.168	0.142	0.287	0.263	0.597	0.573

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Table 12-52
Simultaneous Transmission Scenario with 2.4 GHz WLAN Antenna 2, 5 GHz WLAN MIMO, and Bluetooth
Antenna 1, (UMPC Extremity)

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	2.4 GHz WLAN Ant 2 at 15 dBm SAR (W/kg)	5 GHz WLAN MIMO at 18 dBm SAR (W/kg)	2.4 GHz Bluetooth Ant 1 at 12.0 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
UMPC Extremity SAR	EVDO BC10 (\$90S) Ant A + B	1.216	0.199	0.402	0.287	2.104
	EVDO BC0 (\$22H) Ant A + B	1.184	0.199	0.402	0.287	2.072
	PCS EVDO	2.781	0.199	0.402	0.287	3.669
	GPRS 850 Ant A + B	0.880	0.199	0.402	0.287	1.768
	GPRS 1900	2.688	0.199	0.402	0.287	3.576
	UMTS 850 Ant A + B	1.347	0.199	0.402	0.287	2.235
	UMTS 1750	2.854	0.199	0.402	0.287	3.742
	UMTS 1900	2.511	0.199	0.402	0.287	3.399
	LTE Band 71 Ant A + B	1.578	0.199	0.402	0.287	2.466
	LTE Band 12 Ant A + B	1.518	0.199	0.402	0.287	2.406
	LTE Band 13 Ant A + B	1.440	0.199	0.402	0.287	2.328
	LTE Band 14 Ant A + B	1.426	0.199	0.402	0.287	2.314
	LTE Band 26 (Cell) Ant A + B	1.255	0.199	0.402	0.287	2.143
	LTE Band 5 (Cell) Ant A + B	1.483	0.199	0.402	0.287	2.371
	LTE Band 66 (AWS) Ant B	2.157	0.199	0.402	0.287	3.045
	LTE Band 66 (AWS) Ant E	2.271	0.199	0.402	0.287	3.159
	LTE Band 25 (PCS)	2.265	0.199	0.402	0.287	3.153
	LTE Band 30	2.440	0.199	0.402	0.287	3.328
	LTE Band 7	2.302	0.199	0.402	0.287	3.190
	LTE Band 48	2.291	0.199	0.402	0.287	3.179
	LTE Band 41	1.662	0.199	0.402	0.287	2.550
	NR Band n71 Antenna A + B	1.294	0.199	0.402	0.287	2.182
	NR Band n12 Antenna A + B	1.705	0.199	0.402	0.287	2.593
	NR Band n5 (Cell) Antenna A + B	1.070	0.199	0.402	0.287	1.958
	NR Band n66 (AWS) Antenna B	2.469	0.199	0.402	0.287	3.357
	NR Band n66 (AWS) Antenna E	2.711	0.199	0.402	0.287	3.599
	NR Band n25 (PCS) Antenna B	2.562	0.199	0.402	0.287	3.450
	NR Band n25 (PCS) Antenna E	2.525	0.199	0.402	0.287	3.413
	NR Band n30	1.768	0.199	0.402	0.287	2.656
	NR Band n41	1.995	0.199	0.402	0.287	2.883
	NR Band n77 DoD Antenna E	1.372	0.199	0.402	0.287	2.260
	NR Band n77 DoD Antenna G	0.267	0.199	0.402	0.287	1.155
	NR Band n77 DoD Antenna F	3.000	0.199	0.402	0.287	3.888
	NR Band n77 DoD Antenna B	0.383	0.199	0.402	0.287	1.271
	NR Band n77 Antenna E	2.980	0.199	0.402	0.287	3.868
	NR Band n77 Antenna G	0.251	0.199	0.402	0.287	1.139
	NR Band n77 Antenna F	2.419	0.199	0.402	0.287	3.307
	NR Band n77 Antenna B	0.168	0.199	0.402	0.287	1.056

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Table 12-53
Simultaneous Transmission Scenario with 2.4 GHz WLAN Antenna 2, 6 GHz WLAN MIMO, and Bluetooth
Antenna 1, (UMPC Extremity)

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	2.4 GHz WLAN Ant 2 at 15 dBm SAR (W/kg)	6 GHz WLAN MIMO SAR (W/kg)	2.4 GHz Bluetooth Ant 1 at 12.0 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
UMPC Extremity SAR	EVDO BC10 (\$90S) Ant A + B	1.216	0.199	0.142	0.287	1.844
	EVDO BC0 (\$22H) Ant A + B	1.184	0.199	0.142	0.287	1.812
	PCS EVDO	2.781	0.199	0.142	0.287	3.409
	GPRS 850 Ant A + B	0.880	0.199	0.142	0.287	1.508
	GPRS 1900	2.688	0.199	0.142	0.287	3.316
	UMTS 850 Ant A + B	1.347	0.199	0.142	0.287	1.975
	UMTS 1750	2.854	0.199	0.142	0.287	3.482
	UMTS 1900	2.511	0.199	0.142	0.287	3.139
	LTE Band 71 Ant A + B	1.578	0.199	0.142	0.287	2.206
	LTE Band 12 Ant A + B	1.518	0.199	0.142	0.287	2.146
	LTE Band 13 Ant A + B	1.440	0.199	0.142	0.287	2.068
	LTE Band 14 Ant A + B	1.426	0.199	0.142	0.287	2.054
	LTE Band 26 (Cell) Ant A + B	1.255	0.199	0.142	0.287	1.883
	LTE Band 5 (Cell) Ant A + B	1.483	0.199	0.142	0.287	2.111
	LTE Band 66 (AWS) Ant B	2.157	0.199	0.142	0.287	2.785
	LTE Band 66 (AWS) Ant E	2.271	0.199	0.142	0.287	2.899
	LTE Band 25 (PCS)	2.265	0.199	0.142	0.287	2.893
	LTE Band 30	2.440	0.199	0.142	0.287	3.068
	LTE Band 7	2.302	0.199	0.142	0.287	2.930
	LTE Band 48	2.291	0.199	0.142	0.287	2.919
	LTE Band 41	1.662	0.199	0.142	0.287	2.290
	NR Band n71 Antenna A + B	1.294	0.199	0.142	0.287	1.922
	NR Band n12 Antenna A + B	1.705	0.199	0.142	0.287	2.333
	NR Band n5 (Cell) Antenna A + B	1.070	0.199	0.142	0.287	1.698
	NR Band n66 (AWS) Antenna B	2.469	0.199	0.142	0.287	3.097
	NR Band n66 (AWS) Antenna E	2.711	0.199	0.142	0.287	3.339
	NR Band n25 (PCS) Antenna B	2.562	0.199	0.142	0.287	3.190
	NR Band n25 (PCS) Antenna E	2.525	0.199	0.142	0.287	3.153
	NR Band n30	1.768	0.199	0.142	0.287	2.396
	NR Band n41	1.995	0.199	0.142	0.287	2.623
	NR Band n77 DoD Antenna E	1.372	0.199	0.142	0.287	2.000
	NR Band n77 DoD Antenna G	0.267	0.199	0.142	0.287	0.895
	NR Band n77 DoD Antenna F	3.000	0.199	0.142	0.287	3.628
	NR Band n77 DoD Antenna B	0.383	0.199	0.142	0.287	1.011
	NR Band n77 Antenna E	2.980	0.199	0.142	0.287	3.608
	NR Band n77 Antenna G	0.251	0.199	0.142	0.287	0.879
	NR Band n77 Antenna F	2.419	0.199	0.142	0.287	3.047
	NR Band n77 Antenna B	0.168	0.199	0.142	0.287	0.796

12.9 Simultaneous Transmission Conclusion

The above numerical summed SAR results are sufficient to determine that simultaneous transmission cases will not exceed the SAR limit and therefore no measured volumetric simultaneous SAR summation is required per FCC KDB Publication 447498 D01v06 and IEEE 1528- 2013 Section 6.3.4.1.

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13 SAR MEASUREMENT VARIABILITY

13.1 Measurement Variability

Per FCC KDB Publication 865664 D01v01r04, SAR measurement variability was assessed for each frequency band, which was determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. When both head and body tissue-equivalent media were required for SAR measurements in a frequency band, the variability measurement procedures were applied to the tissue medium with the highest measured SAR, using the highest measured SAR configuration for that tissue-equivalent medium. These additional measurements were repeated after the completion of all measurements requiring the same head or body tissue-equivalent medium in a frequency band. The test device was returned to ambient conditions (normal room temperature) with the battery fully charged before it was re-mounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results.

SAR Measurement Variability was assessed using the following procedures for each frequency band:

- 1) When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.
- 2) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg (~ 10% from the 1g SAR limit).
- 3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20 .
- 4) Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg
- 5) When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

Table 13-1
1g Body/UMPC SAR Measurement Variability Results

BODY/UMPC BODY VARIABILITY RESULTS													
Band	FREQUENCY		Mode	Service	Antenna	Configuration	Side	Spacing	Measured SAR (1g)	1st Repeated SAR (1g)	Ratio	2nd Repeated SAR (1g)	3rd Repeated SAR (1g)
	MHz	Ch.							(W/kg)	(W/kg)		(W/kg)	(W/kg)
1750	1752.60	1513	UMTS 1750	RMC	B	Folder Open	front	10 mm	0.843	0.719	1.17	N/A	N/A
1900	1880.00	9400	UMTS 1900	RMC	B	Folder Open	front	10 mm	0.945	0.942	1.00	N/A	N/A
2300	2310.00	27710	LTE Band 30, 10 MHz Bandwidth	QPSK, 25 RB, 12 RB Offset	B	Folder Open	front	10 mm	0.806	0.755	1.07	N/A	N/A
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population									Body/UMPC Body 1.6 W/kg (mW/g) averaged over 1 gram				

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Table 13-2
10g Phablet/UMPC SAR Measurement Variability Results

PHABLET/UMPC EXTREMITY VARIABILITY RESULTS																
Band	FREQUENCY		Mode	Service	Antenna	# of Time Slots	Configuration	Side	Spacing	Measured SAR (10g)	1st Repeated SAR (10g)	Ratio	2nd Repeated SAR (10g)	Ratio	3rd Repeated SAR (10g)	Ratio
	MHz	Ch.								(W/kg)	(W/kg)		(W/kg)		(W/kg)	
1750	1720.00	132072	LTE Band 66 (AWS), 20 MHz Bandwidth	QPSK, 50 RB, 25 RB Offset	E	N/A	Folder Closed	top	0 mm	2.280	2.240	1.02	N/A	N/A	N/A	N/A
1900	1880.00	661	GSM 1900	GPRS	B	4	Folder Open	bottom	0 mm	2.560	2.300	1.11	N/A	N/A	N/A	N/A
2300	2310.00	27710	LTE Band 30, 10 MHz Bandwidth	QPSK, 25 RB, 12 RB Offset	B	N/A	Folder Open	bottom	0 mm	2.180	2.150	1.01	N/A	N/A	N/A	N/A
3500	3500.01	633334	NR Band n77, 100 MHz Bandwidth	DFT-S-OFDM, QPSK, 1 RB, 137 RB Offset	F	N/A	Folder Open	top	0 mm	2.780	2.750	1.01	N/A	N/A	N/A	N/A
3700	3750.00	650000	NR Band n77, 100 MHz Bandwidth	DFT-S-OFDM, QPSK, 135 RB, 69 RB Offset	E	N/A	Folder Open	top	0 mm	2.390	2.300	1.04	N/A	N/A	N/A	N/A
3900	3930.00	662000	NR Band n77, 100 MHz Bandwidth	DFT-S-OFDM, QPSK, 1 RB, 137 RB Offset	E	N/A	Folder Closed	top	0 mm	2.360	2.200	1.07	N/A	N/A	N/A	N/A
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population										Phablet/UMPC Extremity 4.0 W/kg (mW/g) averaged over 10 grams						

13.2 Measurement Uncertainty

The measured SAR was <1.5 W/kg for 1g and <3.75 W/kg for 10g for all frequency bands. Therefore, per KDB Publication 865664 D01v01r04, the extended measurement uncertainty analysis per IEEE 1528-2013 was not required.

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14 ADDITIONAL TESTING PER FCC GUIDANCE

14.1 Tuner Testing

Per April 2019 TCB Workshop Notes, the following test procedures were followed to demonstrate that the SAR results in Section 11 represented the appropriate SAR test conditions. Per FCC Guidance, during NR testing the device was configured with the tuner state selected by the device in LTE mode with auto-tune active at the same frequency. For bands with dynamic tuning implemented, SAR was measured according to the required FCC SAR test procedures with the dynamic tuner active to allow the device to automatically tune to the antenna state for the respective RF exposure test configurations. Additional single point SAR time-sweep measurements were evaluated for other tuner states to determine that the other tuner configurations would result in equivalent or lower SAR values. The additional tuner hardware has no influence on the antenna characteristics, other than impedance matching.

To evaluate all the tuner states, the 152 tuner states were divided among the aggregate band, mode and exposure combinations. Single point time-sweep measurements were performed at the peak SAR location determined by the zoom scan of the configuration with the highest reported SAR for each combination. The tuner state was able to be established remotely so that the device was not moved for the entire series of single point SAR for the tuner states in each combination. The SAR probe remained stationary at the same position throughout the entire series of single point measurements for each combination. When the single point SAR or 1g SAR was > 1.2 W/kg for a particular band/mode/exposure condition, point SAR measurements were made for all 152 states.

The operational description contains more information about the design and implementation of the dynamic antenna tuning.

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Table 14-1
UMTS/CDMA Supplemental Head SAR Data

Supplemental Head SAR Data					
UMTS B5 Ant A		CDMA BC10 Ant A		CDMA BC0 Ant A	
RMC		CDMA		CDMA	
Test Position	Right Cheek	Test Position	Right Cheek	Test Position	Right Cheek
Frequency (MHz)	836.60	Frequency (MHz)	820.10	Frequency (MHz)	836.52
Channel	4183	Channel	564	Channel	384
Measured 1g SAR (W/kg)	0.113	Measured 1g SAR (W/kg)	0.111	Measured 1g SAR (W/kg)	0.124
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)	
Auto-tune (State 0)	0.156	Auto-tune (State 9)	0.137	Auto-tune (State 9)	0.161
Default (State 9)	0.163	Default (State 9)	0.136	Default (State 9)	0.172
State 0	0.156	State 1	0.115	State 2	0.147
State 23	0.105	State 9	0.136	State 9	0.172
State 48	0.133	State 25	0.026	State 19	0.160
State 55	0.148	State 49	0.113	State 26	0.018
State 60	0.049	State 73	0.105	State 50	0.108
State 62	0.013	State 97	0.022	State 74	0.123
State 72	0.144	State 102	0.096	State 98	0.016
State 96	0.044	State 115	0.016	State 105	0.035
State 104	0.070	State 121	0.099	State 113	0.067
State 120	0.119	State 126	0.140	State 122	0.089
State 144	0.160	State 145	0.136	State 146	0.160

Supplemental Head SAR Data					
UMTS B5 Ant A + B		CDMA BC10 Ant A + B		CDMA BC0 Ant A + B	
RMC		EVDO Rev.A		EVDO Rev.A	
Test Position	Right Cheek	Test Position	Right Cheek	Test Position	Right Cheek
Frequency (MHz)	836.60	Frequency (MHz)	820.10	Frequency (MHz)	836.52
Channel	4183	Channel	564	Channel	384
Measured 1g SAR (W/kg)	0.080	Measured 1g SAR (W/kg)	0.073	Measured 1g SAR (W/kg)	0.078
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)	
Auto-tune (State 108)	0.107	Auto-tune (State 108)	0.096	Auto-tune (State 108)	0.105
Default (State 9)	0.072	Default (State 9)	0.077	Default (State 9)	0.069
State 2	0.080	State 7	0.007	State 5	0.041
State 3	0.069	State 33	0.008	State 12	0.049
State 6	0.017	State 47	0.061	State 13	0.042
State 30	0.049	State 59	0.027	State 35	0.000
State 45	0.077	State 62	0.000	State 53	0.000
State 68	0.015	State 72	0.098	State 63	0.053
State 98	0.000	State 93	0.042	State 76	0.048
State 100	0.039	State 103	0.026	State 99	0.058
State 108	0.113	State 108	0.104	State 104	0.013
State 121	0.031	State 125	0.000	State 108	0.103
State 150	0.113	State 137	0.039	State 129	0.035

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Table 14-2
LTE Supplemental Head SAR Data

Supplemental Head SAR Data					
LTE B71 Ant A		LTE B12 Ant A		LTE B13 Ant A	
QPSK, 20 MHz Bandwidth, 1 RB, 0 RB Offset		QPSK, 10 MHz Bandwidth, 1 RB, 25 RB Offset		QPSK, 10 MHz Bandwidth, 1 RB, 49 RB Offset	
Test Position	Left Cheek	Test Position	Right Cheek	Test Position	Right Cheek
Frequency (MHz)	680.50	Frequency (MHz)	707.50	Frequency (MHz)	782.00
Channel	133297	Channel	23095	Channel	23230
Measured 1g SAR (W/kg)	0.062	Measured 1g SAR (W/kg)	0.092	Measured 1g SAR (W/kg)	0.085
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)	
Auto-tune (State 10)	0.074	Auto-tune (State 18)	0.123	Auto-tune (State 9)	0.109
Default (State 9)	0.067	Default (State 9)	0.119	Default (State 144)	0.080
State 2	0.038	State 18	0.121	State 3	0.075
State 5	0.021	State 20	0.107	State 7	0.017
State 10	0.068	State 42	0.015	State 9	0.111
State 40	0.027	State 54	0.120	State 32	0.057
State 61	0.014	State 69	0.028	State 37	0.082
State 88	0.016	State 83	0.093	State 61	0.022
State 94	0.057	State 89	0.013	State 78	0.024
State 107	0.004	State 110	0.044	State 85	0.086
State 119	0.061	State 131	0.057	State 105	0.022
State 128	0.062	State 142	0.011	State 111	0.056
State 140	0.021	State 147	0.115	State 130	0.082

Supplemental Head SAR Data					
LTE B71 Ant A + B		LTE B12 Ant A + B		LTE B13 Ant A + B	
QPSK, 20 MHz Bandwidth, 1 RB, 0 RB Offset		QPSK, 10 MHz Bandwidth, 1 RB, 25 RB Offset		QPSK, 10 MHz Bandwidth, 1 RB, 49 RB Offset	
Test Position	Right Cheek	Test Position	Right Cheek	Test Position	Left Cheek
Frequency (MHz)	680.50	Frequency (MHz)	707.50	Frequency (MHz)	782.00
Channel	133297	Channel	23095	Channel	23230
Measured 1g SAR (W/kg)	0.088	Measured 1g SAR (W/kg)	0.109	Measured 1g SAR (W/kg)	0.084
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)	
Auto-tune (State 117)	0.098	Auto-tune (State 0)	0.152	Auto-tune (State 36)	0.099
Default (State 9)	0.101	Default (State 9)	0.117	Default (State 144)	0.092
State 3	0.040	State 0	0.149	State 5	0.043
State 13	0.052	State 4	0.106	State 29	0.061
State 27	0.085	State 28	0.064	State 36	0.094
State 51	0.016	State 42	0.039	State 53	0.005
State 75	0.033	State 64	0.065	State 67	0.041
State 89	0.004	State 76	0.092	State 77	0.033
State 99	0.095	State 90	0.120	State 92	0.061
State 109	0.048	State 100	0.062	State 101	0.052
State 117	0.092	State 124	0.009	State 108	0.095
State 123	0.014	State 148	0.140	State 125	0.004
State 147	0.100	State 151	0.120	State 149	0.091

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Table 14-3
LTE Supplemental Head SAR Data Continued

Supplemental Head SAR Data					
LTE B14 Ant A		LTE B5 Ant A + B		LTE B26 Ant A + B	
QPSK, 10 MHz Bandwidth, 1 RB, 0 RB Offset		QPSK, 10 MHz Bandwidth, 1 RB, 0 RB Offset		QPSK, 15 MHz Bandwidth, 1 RB, 0 RB Offset	
Test Position	Right Cheek	Test Position	Right Cheek	Test Position	Right Cheek
Frequency (MHz)	793.00	Frequency (MHz)	836.50	Frequency (MHz)	831.50
Channel	23330	Channel	20525	Channel	26865
Measured 1g SAR (W/kg)	0.081	Measured 1g SAR (W/kg)	0.101	Measured 1g SAR (W/kg)	0.104
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)	
Auto-tune (State 9)	0.107	Auto-tune (State 108)	0.134	Auto-tune (State 108)	0.137
Default (State 144)	0.098	Default (State 9)	0.099	Default (State 9)	0.095
State 9	0.107	State 1	0.116	State 4	0.084
State 13	0.091	State 10	0.086	State 21	0.065
State 21	0.094	State 16	0.006	State 23	0.039
State 26	0.014	State 34	0.003	State 40	0.076
State 36	0.094	State 56	0.071	State 60	0.011
State 50	0.069	State 70	0.002	State 71	0.000
State 66	0.073	State 95	0.028	State 89	0.000
State 92	0.092	State 102	0.038	State 108	0.132
State 114	0.021	State 108	0.143	State 111	0.071
State 120	0.084	State 119	0.069	State 115	0.003
State 124	0.019	State 126	0.110	State 140	0.016

Supplemental Head SAR Data					
LTE B14 Ant A + B		LTE B5 Ant A		LTE B26 Ant A	
QPSK, 10 MHz Bandwidth, 1 RB, 0 RB Offset		QPSK, 10 MHz Bandwidth, 1 RB, 0 RB Offset		QPSK, 15 MHz Bandwidth, 1 RB, 0 RB Offset	
Test Position	Left Cheek	Test Position	Right Cheek	Test Position	Right Cheek
Frequency (MHz)	793.00	Frequency (MHz)	836.50	Frequency (MHz)	831.50
Channel	23330	Channel	20525	Channel	26865
Measured 1g SAR (W/kg)	0.087	Measured 1g SAR (W/kg)	0.079	Measured 1g SAR (W/kg)	0.100
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)	
Auto-tune (State 36)	0.109	Auto-tune (State 9)	0.101	Auto-tune (State 9)	0.135
Default (State 144)	0.099	Default (State 9)	0.111	Default (State 9)	0.142
State 2	0.089	State 7	0.015	State 8	0.008
State 6	0.022	State 9	0.111	State 9	0.142
State 14	0.044	State 25	0.019	State 32	0.066
State 20	0.078	State 31	0.072	State 36	0.132
State 30	0.058	State 38	0.075	State 56	0.114
State 36	0.110	State 55	0.096	State 80	0.006
State 54	0.097	State 61	0.016	State 96	0.029
State 78	0.017	State 79	0.009	State 99	0.124
State 102	0.048	State 103	0.063	State 104	0.053
State 126	0.100	State 127	0.091	State 128	0.103
State 150	0.110	State 134	0.005	State 136	0.102

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Table 14-4
NR Supplemental Head SAR Data

Supplemental Head SAR Data					
NR Band n71 Ant A + B		NR Band n12 Ant A + B		NR Band n5 Ant A	
DFT-s-OFDM QPSK, 20 MHz Bandwidth, 50 RB, 28 RB Offset		DFT-s-OFDM QPSK, 15 MHz Bandwidth, 1 RB, 40 RB Offset		CP-OFDM QPSK, 20 MHz Bandwidth, 1 RB, 53 RB Offset	
Test Position	Right Cheek	Test Position	Right Cheek	Test Position	Right Cheek
Frequency (MHz)	680.50	Frequency (MHz)	707.50	Frequency (MHz)	836.50
Channel	136100	Channel	141500	Channel	167300
Measured 1g SAR (W/kg)	0.087	Measured 1g SAR (W/kg)	0.104	Measured 1g SAR (W/kg)	0.105
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)	
Auto-tune (State 117)	0.115	Auto-tune (State 0)	0.125	Auto-tune (State 9)	0.143
Default (State 9)	0.124	Default (State 9)	0.095	Default (State 9)	0.143
State 9	0.124	State 0	0.125	State 9	0.143
State 33	0.024	State 10	0.099	State 11	0.135
State 39	0.042	State 24	0.018	State 35	0.007
State 57	0.075	State 28	0.050	State 48	0.113
State 81	0.114	State 34	0.005	State 59	0.067
State 85	0.058	State 44	0.014	State 80	0.005
State 88	0.010	State 58	0.062	State 83	0.113
State 91	0.087	State 82	0.103	State 95	0.054
State 117	0.115	State 106	0.004	State 107	0.003
State 129	0.064	State 110	0.106	State 131	0.048
State 140	0.043	State 130	0.056	State 145	0.137

Supplemental Head SAR Data					
NR Band n71 Ant A		NR Band n12 Ant A		NR Band n5 Ant A + B	
DFT-s-OFDM QPSK, 20 MHz Bandwidth, 1 RB, 1 RB Offset		DFT-s-OFDM QPSK, 15 MHz Bandwidth, 36 RB, 22 RB Offset		DFT-s-OFDM QPSK, 20 MHz Bandwidth, 50 RB, 28 RB Offset	
Test Position	Left Cheek	Test Position	Right Cheek	Test Position	Right Cheek
Frequency (MHz)	680.50	Frequency (MHz)	707.50	Frequency (MHz)	836.50
Channel	136100	Channel	141500	Channel	167300
Measured 1g SAR (W/kg)	0.064	Measured 1g SAR (W/kg)	0.089	Measured 1g SAR (W/kg)	0.098
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)	
Auto-tune (State 10)	0.077	Auto-tune (State 18)	0.117	Auto-tune (State 108)	0.132
Default (State 9)	0.068	Default (State 9)	0.118	Default (State 9)	0.090
State 4	0.025	State 10	0.109	State 14	0.037
State 10	0.077	State 18	0.117	State 26	0.000
State 14	0.049	State 34	0.012	State 44	0.002
State 31	0.022	State 52	0.025	State 65	0.048
State 47	0.059	State 70	0.011	State 69	0.004
State 71	0.002	State 80	0.004	State 78	0.011
State 83	0.057	State 99	0.103	State 106	0.000
State 90	0.049	State 112	0.032	State 108	0.132
State 98	0.006	State 126	0.106	State 113	0.031
State 127	0.055	State 139	0.077	State 128	0.057
State 148	0.035	State 150	0.077	State 143	0.057

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Table 14-5
UMTS/CDMA Supplemental Body SAR Data

Supplemental Body SAR Data					
UMTS B5 Ant A + B		CDMA BC10 Ant A + B		CDMA BC0 Ant A + B	
UMTS B5		CDMA BC10		CDMA BC0	
Test Position	Back (UMPC)	Test Position	Back (UMPC)	Test Position	Back (UMPC)
Spacing	10mm	Spacing	10 mm	Spacing	10 mm
Frequency (MHz)	836.60	Frequency (MHz)	820.10	Frequency (MHz)	836.52
Channel	4183	Channel	564	Channel	384
Measured 1g SAR (W/kg)	0.352	Measured 1g SAR (W/kg)	0.282	Measured 1g SAR (W/kg)	0.264
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)	
Auto-tune (State 108)	0.608	Auto-tune (State 108)	0.470	Auto-tune (State 108)	0.443
Default (State 9)	0.577	Default (State 9)	0.401	Default (State 9)	0.425
State 12	0.467	State 13	0.327	State 14	0.241
State 22	0.398	State 37	0.470	State 38	0.411
State 36	0.651	State 59	0.200	State 40	0.334
State 49	0.400	State 61	0.042	State 62	0.024
State 56	0.477	State 65	0.235	State 70	0.027
State 60	0.122	State 72	0.500	State 71	0.015
State 73	0.534	State 85	0.284	State 78	0.105
State 84	0.413	State 108	0.494	State 86	0.191
State 108	0.626	State 109	0.432	State 108	0.472
State 119	0.469	State 125	0.020	State 110	0.365
State 132	0.094	State 133	0.031	State 134	0.018

Supplemental Body SAR Data					
UMTS B5 Ant A		CDMA BC10 Ant A		CDMA BC0 Ant A	
RMC		EVDO Rev.0		EVDO Rev.0	
Test Position	Back	Test Position	Back	Test Position	Back
Spacing	10 mm	Spacing	10 mm	Spacing	10 mm
Frequency (MHz)	836.60	Frequency (MHz)	820.10	Frequency (MHz)	836.52
Channel	4183	Channel	564	Channel	384
Measured 1g SAR (W/kg)	0.259	Measured 1g SAR (W/kg)	0.222	Measured 1g SAR (W/kg)	0.232
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)	
Auto-tune (State 9)	0.501	Auto-tune (State 9)	0.361	Auto-tune (State 9)	0.382
Default (State 9)	0.492	Default (State 9)	0.389	Default (State 9)	0.362
State 9	0.492	State 8	0.036	State 9	0.362
State 18	0.482	State 9	0.389	State 17	0.038
State 29	0.390	State 28	0.316	State 25	0.058
State 46	0.440	State 32	0.206	State 37	0.291
State 61	0.074	State 50	0.225	State 42	0.088
State 67	0.307	State 75	0.212	State 58	0.250
State 82	0.418	State 81	0.378	State 80	0.027
State 110	0.307	State 92	0.319	State 107	0.024
State 116	0.033	State 117	0.372	State 122	0.164
State 130	0.289	State 120	0.269	State 124	0.046
State 147	0.479	State 144	0.360	State 127	0.299

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Table 14-6
LTE Supplemental Body SAR Data

Supplemental Body SAR Data					
LTE B71 Ant A + B		LTE B12 Ant A + B		LTE B13 Ant A + B	
QPSK, 20 MHz Bandwidth, 1 RB, 0 RB Offset		QPSK, 10 MHz Bandwidth, 1 RB, 25 RB Offset		QPSK, 10 MHz Bandwidth, 1 RB, 49 RB Offset	
Test Position	Back (UMPC)	Test Position	Back (UMPC)	Test Position	Back (UMPC)
Spacing	10 mm	Spacing	10 mm	Spacing	10 mm
Frequency (MHz)	680.50	Frequency (MHz)	707.50	Frequency (MHz)	782.00
Channel	133297	Channel	23095	Channel	23230
Measured 1g SAR (W/kg)	0.362	Measured 1g SAR (W/kg)	0.332	Measured 1g SAR (W/kg)	0.410
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)	
Auto-tune (State 18)	0.579	Auto-tune (State 18)	0.614	Auto-tune (State 0)	0.682
Default (State 9)	0.571	Default (State 9)	0.607	Default (State 144)	0.654
State 15	0.117	State 16	0.067	State 0	0.649
State 18	0.574	State 18	0.603	State 17	0.052
State 26	0.038	State 50	0.235	State 24	0.158
State 39	0.195	State 58	0.326	State 41	0.275
State 51	0.107	State 64	0.464	State 52	0.078
State 63	0.545	State 88	0.052	State 65	0.464
State 74	0.216	State 112	0.187	State 77	0.238
State 87	0.096	State 117	0.578	State 89	0.042
State 111	0.160	State 122	0.19	State 91	0.523
State 116	0.013	State 136	0.429	State 113	0.217
State 135	0.556	State 151	0.574	State 137	0.425

Supplemental Body SAR Data					
LTE B71 Ant A		LTE B12 Ant A		LTE B13 Ant A	
QPSK, 20 MHz Bandwidth, 1 RB, 0 RB Offset		QPSK, 10 MHz Bandwidth, 1 RB, 25 RB Offset		QPSK, 10 MHz Bandwidth, 1 RB, 49 RB Offset	
Test Position	Right	Test Position	Right	Test Position	Back
Spacing	10 mm	Spacing	10 mm	Spacing	10 mm
Frequency (MHz)	680.50	Frequency (MHz)	707.50	Frequency (MHz)	782.00
Channel	133297	Channel	23095	Channel	23230
Measured 1g SAR (W/kg)	0.268	Measured 1g SAR (W/kg)	0.256	Measured 1g SAR (W/kg)	0.223
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)	
Auto-tune (State 20)	0.409	Auto-tune (State 18)	0.396	Auto-tune (State 10)	0.385
Default (State 9)	0.418	Default (State 9)	0.399	Default (State 144)	0.372
State 8	0.033	State 9	0.399	State 1	0.317
State 20	0.408	State 18	0.395	State 10	0.391
State 24	0.144	State 33	0.094	State 22	0.340
State 28	0.265	State 41	0.109	State 30	0.283
State 36	0.336	State 56	0.340	State 44	0.040
State 48	0.389	State 65	0.315	State 52	0.088
State 60	0.132	State 82	0.321	State 72	0.331
State 74	0.217	State 97	0.064	State 77	0.157
State 87	0.148	State 115	0.026	State 93	0.327
State 105	0.044	State 132	0.102	State 102	0.262
State 138	0.195	State 141	0.071	State 117	0.379

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Table 14-7
LTE Supplemental Body SAR Data Continued

Supplemental Body SAR Data					
LTE B14 Ant A + B		LTE B5 Ant A + B		LTE B26 Ant A + B	
QPSK, 10 MHz Bandwidth, 1 RB, 0 RB Offset		QPSK, 10 MHz Bandwidth, 1 RB, 0 RB Offset		QPSK, 15 MHz Bandwidth, 1 RB, 0 RB Offset	
Test Position	Back (UMPC)	Test Position	Back (UMPC)	Test Position	Back (UMPC)
Spacing	10 mm	Spacing	10 mm	Spacing	10 mm
Frequency (MHz)	793.00	Frequency (MHz)	836.50	Frequency (MHz)	831.50
Channel	23330	Channel	20525	Channel	26865
Measured 1g SAR (W/kg)	0.412	Measured 1g SAR (W/kg)	0.378	Measured 1g SAR (W/kg)	0.430
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)	
Auto-tune (State 0)	0.655	Auto-tune (State 108)	0.611	Auto-tune (State 108)	0.677
Default (State 144)	0.649	Default (State 9)	0.523	Default (State 9)	0.560
State 0	0.653	State 19	0.481	State 7	0.128
State 18	0.617	State 37	0.576	State 20	0.503
State 29	0.476	State 43	0.091	State 44	0.067
State 42	0.130	State 67	0.253	State 68	0.184
State 66	0.395	State 86	0.255	State 92	0.481
State 68	0.248	State 100	0.345	State 108	0.683
State 97	0.064	State 105	0.064	State 116	0.047
State 101	0.437	State 108	0.613	State 118	0.545
State 114	0.100	State 115	0.064	State 137	0.330
State 128	0.461	State 129	0.361	State 140	0.148
State 138	0.349	State 139	0.213	State 149	0.588

Supplemental Body SAR Data					
LTE B14 Ant A		LTE B5 Ant A		LTE B26 Ant A	
QPSK, 10 MHz Bandwidth, 1 RB, 0 RB Offset		QPSK, 10 MHz Bandwidth, 1 RB, 0 RB Offset		QPSK, 15 MHz Bandwidth, 1 RB, 0 RB Offset	
Test Position	Back	Test Position	Back	Test Position	Back
Spacing	10 mm	Spacing	10 mm	Spacing	10 mm
Frequency (MHz)	793.00	Frequency (MHz)	836.50	Frequency (MHz)	831.50
Channel	23330	Channel	20525	Channel	26865
Measured 1g SAR (W/kg)	0.237	Measured 1g SAR (W/kg)	0.237	Measured 1g SAR (W/kg)	0.218
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)	
Auto-tune (State 10)	0.395	Auto-tune (State 9)	0.390	Auto-tune (State 9)	0.449
Default (State 144)	0.383	Default (State 9)	0.378	Default (State 9)	0.462
State 10	0.401	State 9	0.378	State 9	0.462
State 12	0.371	State 20	0.332	State 43	0.066
State 17	0.060	State 39	0.250	State 49	0.339
State 23	0.288	State 48	0.292	State 64	0.363
State 38	0.285	State 54	0.370	State 79	0.058
State 57	0.351	State 74	0.257	State 86	0.241
State 68	0.198	State 84	0.270	State 90	0.445
State 86	0.251	State 94	0.241	State 112	0.224
State 103	0.248	State 114	0.070	State 123	0.116
State 108	0.321	State 134	0.028	State 136	0.351
State 116	0.032	State 138	0.230	State 145	0.437

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Table 14-8
NR Supplemental Body SAR Data

Supplemental Body SAR Data					
NR Band n71 Ant A + B		NR Band n12 Ant A + B		NR Band n5 Ant A + B	
DFT-s-OFDM QPSK, 20 MHz Bandwidth, 50 RB, 28 RB Offset		DFT-s-OFDM QPSK, 15 MHz Bandwidth, 36 RB, 22 RB Offset		DFT-s-OFDM QPSK, 20 MHz Bandwidth, 50 RB, 28 RB Offset	
Test Position	Back (UMPC)	Test Position	Back (UMPC)	Test Position	Back (UMPC)
Spacing	10 mm	Spacing	10 mm	Spacing	10 mm
Frequency (MHz)	680.50	Frequency (MHz)	707.50	Frequency (MHz)	836.50
Channel	136100	Channel	141500	Channel	167300
Measured 1g SAR (W/kg)	0.320	Measured 1g SAR (W/kg)	0.348	Measured 1g SAR (W/kg)	0.434
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)	
Auto-tune (State 18)	0.521	Auto-tune (State 18)	0.631	Auto-tune (State 108)	0.736
Default (State 9)	0.513	Default (State 9)	0.641	Default (State 9)	0.643
State 8	0.016	State 1	0.400	State 22	0.425
State 18	0.521	State 18	0.631	State 51	0.129
State 21	0.346	State 22	0.402	State 66	0.347
State 32	0.253	State 46	0.524	State 88	0.052
State 45	0.499	State 70	0.048	State 97	0.048
State 69	0.105	State 94	0.343	State 108	0.736
State 90	0.484	State 98	0.035	State 118	0.561
State 93	0.291	State 107	0.026	State 131	0.203
State 117	0.455	State 118	0.472	State 135	0.574
State 133	0.046	State 121	0.319	State 141	0.063
State 141	0.084	State 142	0.040	State 142	0.031

Supplemental Body SAR Data					
NR Band n71 Ant A		NR Band n12 Ant A		NR Band n5 Ant A	
DFT-s-OFDM QPSK, 20 MHz Bandwidth, 50 RB, 28 RB Offset		DFT-s-OFDM QPSK, 15 MHz Bandwidth, 1 RB, 40 RB Offset		DFT-s-OFDM QPSK, 20 MHz Bandwidth, 50 RB, 28 RB Offset	
Test Position	Right	Test Position	Right	Test Position	Back
Spacing	10 mm	Spacing	10 mm	Spacing	10 mm
Frequency (MHz)	680.50	Frequency (MHz)	707.50	Frequency (MHz)	836.50
Channel	136100	Channel	141500	Channel	167300
Measured 1g SAR (W/kg)	0.224	Measured 1g SAR (W/kg)	0.212	Measured 1g SAR (W/kg)	0.242
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)	
Auto-tune (State 20)	0.316	Auto-tune (State 18)	0.288	Auto-tune (State 9)	0.375
Default (State 9)	0.314	Default (State 9)	0.298	Default (State 9)	0.375
State 6	0.069	State 11	0.259	State 9	0.375
State 16	0.083	State 18	0.288	State 12	0.306
State 39	0.165	State 25	0.059	State 23	0.197
State 46	0.340	State 35	0.018	State 47	0.329
State 77	0.102	State 58	0.226	State 63	0.322
State 91	0.321	State 67	0.182	State 71	0.019
State 109	0.162	State 85	0.197	State 95	0.150
State 129	0.287	State 104	0.118	State 119	0.279
State 134	0.029	State 121	0.185	State 143	0.016
State 144	0.273	State 137	0.225	State 146	0.360
State 146	0.251	State 149	0.227	State 148	0.342

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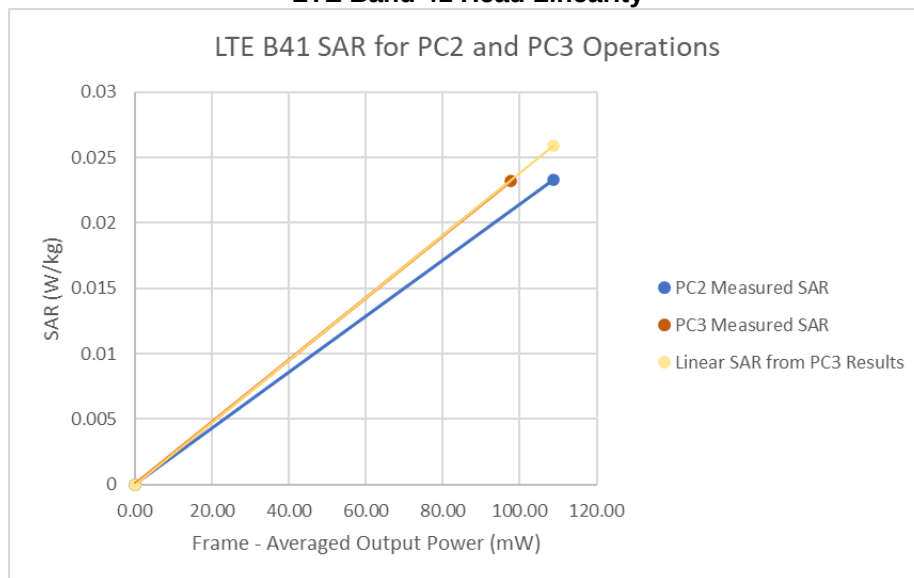
14.2 LTE Band 41 Power Class 2 and Power Class 3 Linearity

This device supports Power Class 2 and Power Class 3 operations for LTE Band 41. The highest available duty cycle for Power Class 2 operations is 43.3 % using UL-DL configuration 1. Per May 2017 TCB Workshop Notes based on the device behavior, all SAR tests were performed using Power Class 3. SAR with Power Class 2 at the highest power and available duty factor was additionally performed for the Power Class 3 configuration with the highest SAR for each exposure condition. The linearity between the Power Class 2 and Power Class 3 SAR results and the respective frame averaged powers was calculated to determine that the results were linear. When ULCA is active, the linearity between the Power Class 2 with ULCA active and Power Class 3 with ULCA active SAR results and the respective frame averaged powers was calculated to determine that the results were linear. Per May 2017 TCB Workshop, no additional SAR measurements were required since the linearity between power classes was < 10% and all reported SAR values were < 1.4 W/kg for 1g and < 3.5 W/kg for 10g.

Table 14-9
LTE Band 41 Head Linearity Data

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	23.00	24.60
Measured Output Power (dBm)	21.88	24.00
Measured SAR (W/kg)	0.023	0.023
Measured Power (mW)	154.17	251.19
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	97.59	108.76
% deviation from expected linearity		-9.89%

Figure 14-1
LTE Band 41 Head Linearity

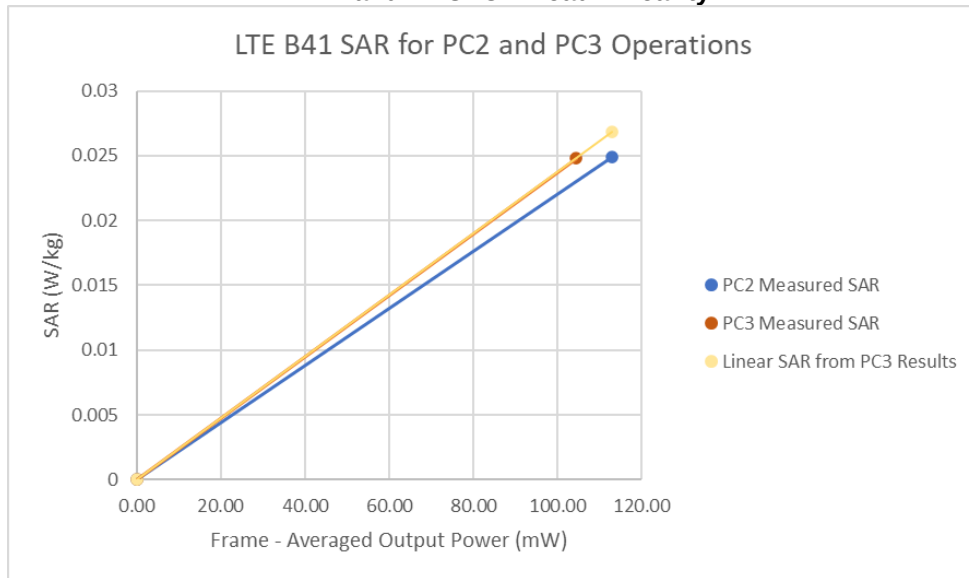


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Table 14-10
LTE Band 41 ULCA Head Linearity Data

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	23.0	24.6
Measured Output Power (dBm)	22.17	24.16
Measured SAR (W/kg)	0.025	0.025
Measured Power (mW)	164.82	260.62
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	104.33	112.85
% deviation from expected linearity		-7.18%

Figure 14-2
LTE Band 41 ULCA Head Linearity

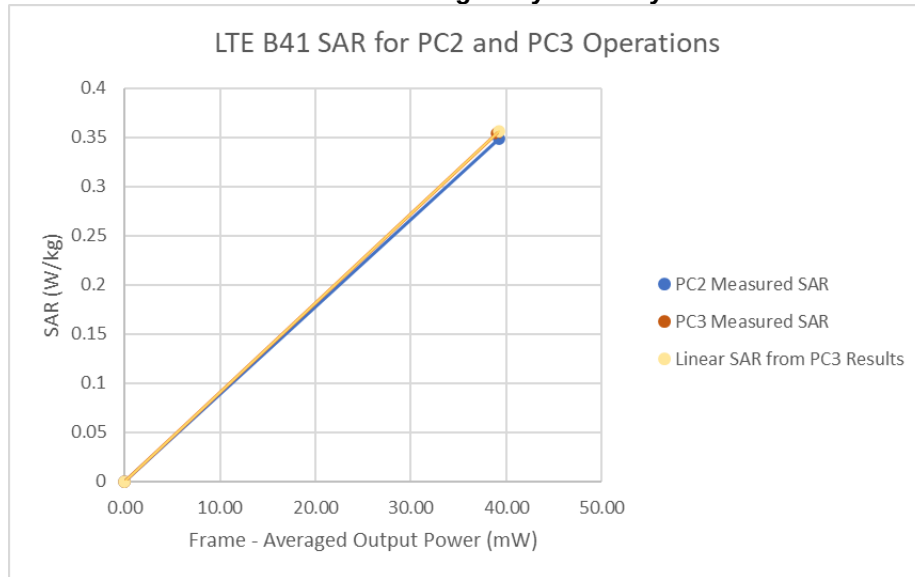


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Table 14-11
LTE Band 41 1g Body Linearity Data

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	19.00	20.60
Measured Output Power (dBm)	17.90	19.57
Measured SAR (W/kg)	0.354	0.348
Measured Power (mW)	61.66	90.57
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	39.03	39.22
% deviation from expected linearity		-2.17%

Figure 14-3
LTE Band 41 1g Body Linearity

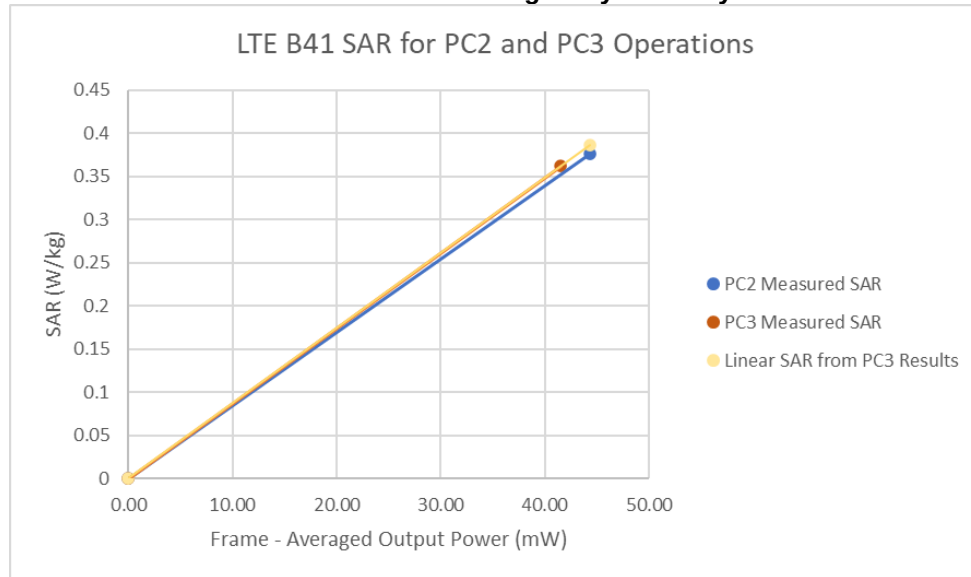


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Table 14-12
LTE Band 41 ULCA 1g Body Linearity Data

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	19.0	20.6
Measured Output Power (dBm)	18.17	20.10
Measured SAR (W/kg)	0.362	0.376
Measured Power (mW)	65.61	102.33
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	41.53	44.31
% deviation from expected linearity		-2.64%

Figure 14-4
LTE Band 41 ULCA 1g Body Linearity

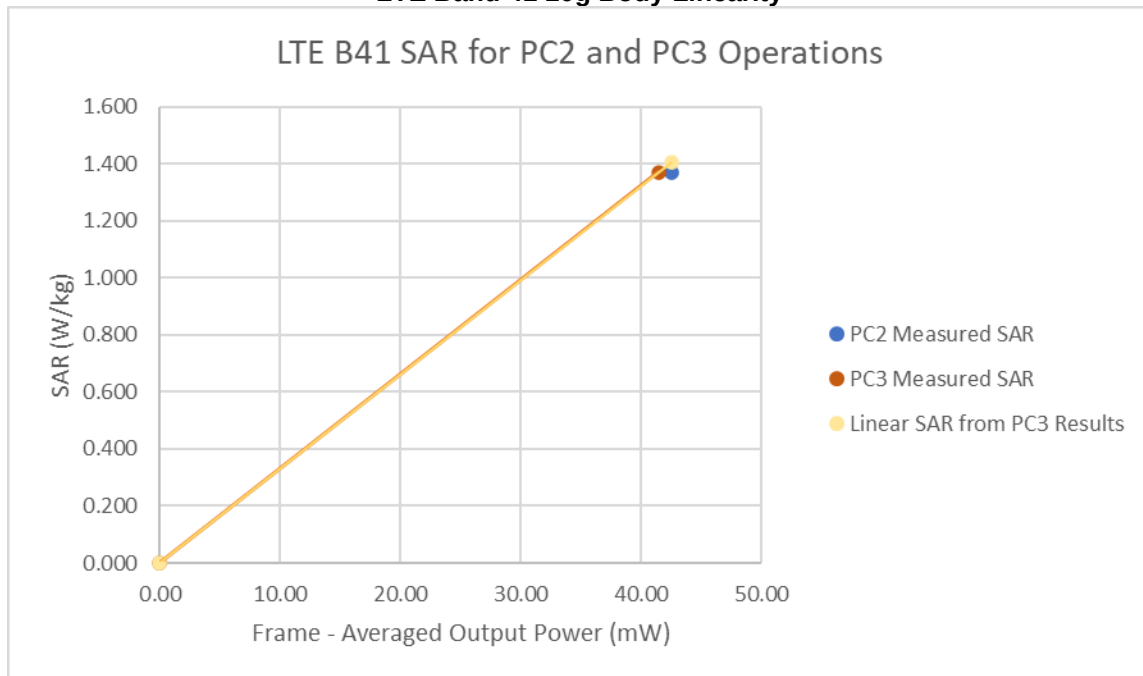


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Table 14-13
LTE Band 41 10g Body Linearity Data

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	19.0	20.6
Measured Output Power (dBm)	18.16	19.92
Measured SAR (W/kg)	1.370	1.370
Measured Power (mW)	65.46	98.17
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	41.44	42.51
% deviation from expected linearity		-2.52%

Figure 14-5
LTE Band 41 10g Body Linearity

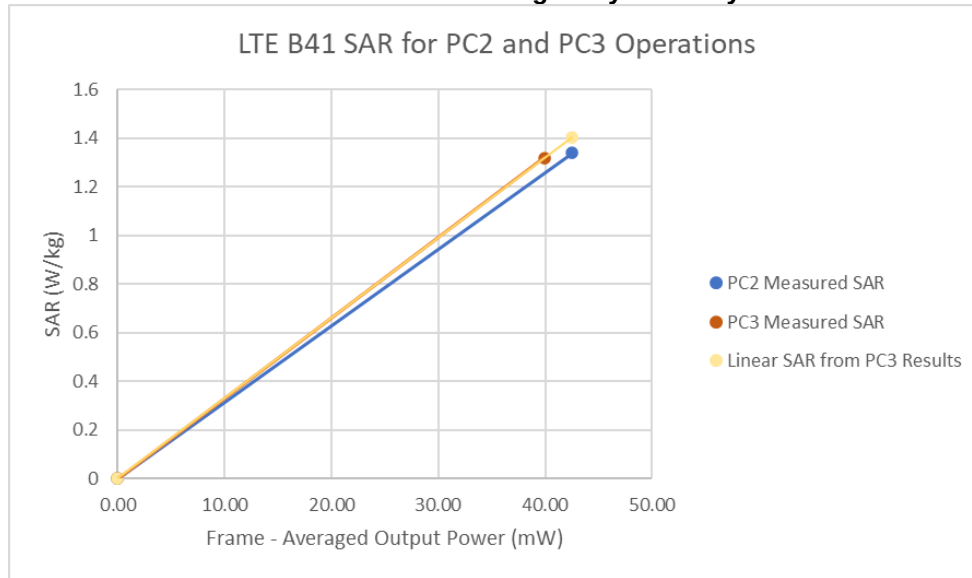


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Table 14-14
LTE Band 41 ULCA 10g Body Linearity Data

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	19.0	20.6
Measured Output Power (dBm)	18.00	19.92
Measured SAR (W/kg)	1.320	1.340
Measured Power (mW)	63.10	98.17
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	39.94	42.51
% deviation from expected linearity		-4.62%

Figure 14-6
LTE Band 41 ULCA 10g Body Linearity



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Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Agilent	8960A	(9kHz-2.9GHz) Spectrum Analyzer	CBT	N/A	CBT	8051A00187
Agilent	E4438C	ESG Vector Signal Generator	12/14/2020	Biennial	12/14/2022	MY4202385
Agilent	E4438C	ESG Vector Signal Generator	8/10/2020	Annual	8/10/2021	MY47270002
Agilent	E4432B	ESG-D Series Signal Generator	2/24/2021	Annual	2/24/2022	US40053896
Agilent	N5182A	MWG Vector Signal Generator	5/13/2020	Annual	5/13/2021	MY47420603
Agilent	8753ES	S-Parameter Network Analyzer	2/2/2021	Annual	2/2/2022	US39170122
Agilent	8753ES	S-Parameter Vector Network Analyzer	12/15/2020	Annual	12/15/2021	MY40003841
Agilent	E5515C	Wireless Communications Test Set	2/4/2021	Annual	2/4/2022	GB43193563
Agilent	E5515C	Wireless Communications Test Set	CBT	N/A	CBT	US41140256
Agilent	N4010A	Wireless Connectivity Test Set	CBT	N/A	CBT	GB4450273
Agilent	N4010A	Wireless Connectivity Test Set	CBT	N/A	CBT	GB46170464
Amplifier Research	1S51G6	Amplifier	CBT	N/A	CBT	353317
Amplifier Research	1S51G6	Amplifier	CBT	N/A	CBT	439978
Anritsu	MW8110B	I/O Adaptor	CBT	N/A	CBT	6261747881
Anritsu	NL2495A	Power Meter	1/18/2021	Annual	1/18/2022	941001
Anritsu	NL2496A	Power Meter	3/3/2021	Annual	3/3/2022	130609
Anritsu	MA2411B	Pulse Power Sensor	12/18/2020	Annual	12/18/2021	112666
Anritsu	MA2411B	Pulse Power Sensor	7/28/2020	Annual	7/28/2021	1339018
Anritsu	MT8821C	Radio Communication Analyzer	4/16/2021	Annual	4/16/2022	630901190
Anritsu	MT8821C	Radio Communication Analyzer	7/3/2020	Annual	7/3/2021	6262150047
Anritsu	MA24106A	USB Power Sensor	7/24/2020	Annual	7/24/2021	1231535
Anritsu	MA24106A	USB Power Sensor	6/15/2020	Annual	6/15/2021	1520504
Anritsu	MA24106A	USB Power Sensor	9/15/2020	Annual	9/15/2021	1520505
Anritsu	MT8862A	Wireless Connectivity Test Set	10/29/2020	Annual	10/29/2021	6261782395
COMTECH	AR85729-S	Solid State Amplifier	CBT	N/A	CBT	M155A00-009
COMTECH	AR85729-S/57598	Solid State Amplifier	CBT	N/A	CBT	M3V1A00-1002
Control Company	4352	Long Stem Thermometer	6/26/2019	Biennial	6/26/2021	192282739
Control Company	4352	Long Stem Thermometer	5/16/2020	Biennial	5/16/2022	200294567
Control Company	4040	Therm./Clock/Humidity Monitor	2/17/2020	Biennial	2/17/2022	200112369
Control Company	4040	Therm./Clock/Humidity Monitor	6/29/2019	Biennial	6/29/2021	192281470
Keysight	772D	Dual Directional Coupler	CBT	N/A	CBT	MY52180215
Keysight Technologies	N9020A	MKA Signal Analyzer	2/24/2021	Annual	2/24/2022	MY48010233
Keysight Technologies	N9020A	MKA Signal Analyzer	8/14/2020	Annual	8/14/2021	US46470561
Keysight Technologies	85033E	Standard Mechanical Calibration Kit (DC to 9GHz, 3.5mm)	9/1/2020	Annual	9/1/2021	MY53401181
MCL	BW-N6W5+	6dB Attenuator	CBT	N/A	CBT	1139
MiniCircuits	VLF-6000+	Low Pass Filter	CBT	N/A	CBT	N/A
MiniCircuits	VLF-6000+	Low Pass Filter	CBT	N/A	CBT	N/A
MiniCircuits	SIP-1200+	Low Pass Filter	CBT	N/A	CBT	8897950903
MiniCircuits	BW-N20W5+	DC to 18 GHz Precision Fixed 20 dB Attenuator	CBT	N/A	CBT	N/A
MiniCircuits	NLP-1200+	Low Pass Filter DC to 1000 MHz	CBT	N/A	CBT	N/A
MiniCircuits	NLP-2950+	Low Pass Filter DC to 2700 MHz	CBT	N/A	CBT	N/A
MiniCircuits	BW-N20W5	Power Attenuator	CBT	N/A	CBT	1226
Narda	4014C-6	4 - 8 GHz SMA 6 dB Directional Coupler	CBT	N/A	CBT	N/A
Narda	BW-53W2	Attenuator (3dB)	CBT	N/A	CBT	120
Narda	4772-3	Attenuator (3dB)	CBT	N/A	CBT	9406
Pasternack	PJ2208-6	BiDirectional Coupler	CBT	N/A	CBT	N/A
Pasternack	PJ2208-10	BiDirectional Coupler	CBT	N/A	CBT	N/A
Pasternack	NC-100	Torque Wrench	8/4/2020	Biennial	8/4/2022	1445
Pasternack	NC-100	Torque Wrench	8/4/2020	Biennial	8/4/2022	N/A
Rohde & Schwarz	CMW500	Radio Communication Tester	1/19/2021	Annual	1/19/2022	111427
Rohde & Schwarz	CMW500	Radio Communication Tester	5/2/2020	Annual	5/2/2021	167286
Rohde & Schwarz	ZNL66	Vector Network Analyzer	9/29/2020	Annual	9/29/2021	101307
SPEAG	D750V3	750 MHz SAR Dipole	3/16/2020	Biennial	3/16/2022	1003
SPEAG	D750V3	750 MHz SAR Dipole	10/19/2018	Triennial	10/19/2021	1161
SPEAG	D835V2	835 MHz SAR Dipole	3/13/2019	Triennial	3/13/2022	44047
SPEAG	D835V2	835 MHz SAR Dipole	1/21/2021	Annual	1/21/2022	44132
SPEAG	D835V2	835 MHz SAR Dipole	10/19/2018	Triennial	10/19/2021	44133
SPEAG	D1765V2	1765 MHz SAR Dipole	5/14/2021	Annual	5/14/2022	1008
SPEAG	D1750V2	1750 MHz SAR Dipole	5/12/2020	Biennial	5/12/2022	1148
SPEAG	D1750V2	1750 MHz SAR Dipole	10/22/2018	Triennial	10/22/2021	1150
SPEAG	D1900V2	1900 MHz SAR Dipole	10/23/2018	Triennial	10/23/2021	54080
SPEAG	D1900V2	1900 MHz SAR Dipole	10/23/2018	Triennial	10/23/2021	54149
SPEAG	D2300V2	2300 MHz SAR Dipole	8/13/2018	Triennial	8/13/2021	1073
SPEAG	D2450V2	2450 MHz SAR Dipole	8/14/2020	Annual	8/14/2021	719
SPEAG	D2450V2	2450 MHz SAR Dipole	8/9/2020	Annual	8/9/2021	797
SPEAG	D2450V2	2450 MHz SAR Dipole	1/19/2021	Annual	1/19/2022	781
SPEAG	D2600V2	2600 MHz SAR Dipole	6/14/2019	Biennial	6/14/2021	1064
SPEAG	D2600V2	2600 MHz SAR Dipole	11/12/2019	Biennial	11/12/2021	1071
SPEAG	D3500V2	3500 MHz SAR Dipole	1/19/2021	Annual	1/19/2022	1059
SPEAG	D3500V2	3500 MHz SAR Dipole	1/21/2020	Biennial	1/21/2022	1097
SPEAG	D3700V2	3700 MHz SAR Dipole	1/19/2021	Annual	1/19/2022	1018
SPEAG	D3700V2	3700 MHz SAR Dipole	1/21/2020	Biennial	1/21/2022	1067
SPEAG	D3900V2	3900 MHz SAR Dipole	10/9/2020	Annual	10/9/2021	1056
SPEAG	DSGHV2	5 GHz SAR Dipole	1/20/2021	Annual	1/20/2022	1057
SPEAG	DSGHV2	5 GHz SAR Dipole	9/10/2020	Annual	9/10/2021	1191
SPEAG	DAE4	Dasy Data Acquisition Electronics	3/18/2021	Annual	3/18/2022	1272
SPEAG	DAE4	Dasy Data Acquisition Electronics	7/15/2020	Annual	7/15/2021	1322
SPEAG	DAE4	Dasy Data Acquisition Electronics	10/16/2020	Annual	10/16/2021	1333
SPEAG	DAE4	Dasy Data Acquisition Electronics	4/7/2021	Annual	4/7/2022	1407
SPEAG	DAE4	Dasy Data Acquisition Electronics	3/10/2021	Annual	3/10/2022	1415
SPEAG	DAE4	Dasy Data Acquisition Electronics	9/10/2020	Annual	9/10/2021	1449
SPEAG	DAE4	Dasy Data Acquisition Electronics	8/11/2020	Annual	8/11/2021	1450
SPEAG	DAE4	Dasy Data Acquisition Electronics	12/7/2020	Annual	12/7/2021	1531
SPEAG	DAE4	Dasy Data Acquisition Electronics	1/13/2021	Annual	1/13/2022	1558
SPEAG	DAE4	Dasy Data Acquisition Electronics	5/14/2020	Annual	5/14/2021	1583
SPEAG	DAK-3.5	Dielectric Assessment Kit	10/14/2020	Annual	10/14/2021	1091
SPEAG	EX3DV4	SAR Probe	1/20/2021	Annual	1/20/2022	3589
SPEAG	EX3DV4	SAR Probe	7/31/2020	Annual	7/31/2021	7308
SPEAG	EX3DV4	SAR Probe	4/19/2021	Annual	4/19/2022	7357
SPEAG	EX3DV4	SAR Probe	6/23/2020	Annual	6/23/2021	7406
SPEAG	EX3DV4	SAR Probe	7/20/2020	Annual	7/20/2021	7410
SPEAG	EX3DV4	SAR Probe	3/16/2021	Annual	3/16/2022	7536
SPEAG	EX3DV4	SAR Probe	11/23/2020	Annual	11/23/2021	7538
SPEAG	EX3DV4	SAR Probe	10/20/2020	Annual	10/20/2021	7539
SPEAG	EX3DV4	SAR Probe	10/20/2020	Annual	10/20/2021	7551
SPEAG	EX3DV4	SAR Probe	12/11/2020	Annual	12/11/2021	7571

Note: 1. Each equipment item was used solely within its respective calibration period.

2. CBT (Calibrated Before Testing). Prior to testing, the measurement paths containing a cable, amplifier, attenuator, coupler or filter were connected to a calibrated source (i.e. a signal generator) to determine the losses of the measurement path. The power meter offset was then adjusted to compensate for the measurement system losses. This level offset is stored within the power meter before measurements are made. This calibration verification procedure applies to the system verification and output power measurements. The calibrated reading is then taken directly from the power meter after compensation of the losses for all final power measurements.

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16 MEASUREMENT UNCERTAINTIES

a	b	c	d	e= f(d,k)	f	g	h = c x f/e	i = c x g/e	k
Uncertainty Component	IEEE 1528 Sec.	Tol. (± %)	Prob. Dist.	Div.	c _i 1gm	c _i 10 gms	1gm u _i (± %)	10gms u _i (± %)	v _i
Measurement System									
Probe Calibration	E.2.1	6.55	N	1	1	1	6.6	6.6	∞
Axial Isotropy	E.2.2	0.25	N	1	0.7	0.7	0.2	0.2	∞
Hemishperical Isotropy	E.2.2	1.3	N	1	0.7	0.7	0.9	0.9	∞
Boundary Effect	E.2.3	2	R	1.73	1	1	1.2	1.2	∞
Linearity	E.2.4	0.3	N	1	1	1	0.3	0.3	∞
System Detection Limits	E.2.4	0.25	R	1.73	1	1	0.1	0.1	∞
Readout Electronics	E.2.6	0.3	N	1	1	1	0.3	0.3	∞
Response Time	E.2.7	0.8	R	1.73	1	1	0.5	0.5	∞
Integration Time	E.2.8	2.6	R	1.73	1	1	1.5	1.5	∞
RF Ambient Conditions - Noise	E.6.1	3	R	1.73	1	1	1.7	1.7	∞
RF Ambient Conditions - Reflections	E.6.1	3	R	1.73	1	1	1.7	1.7	∞
Probe Positioner Mechanical Tolerance	E.6.2	0.8	R	1.73	1	1	0.5	0.5	∞
Probe Positioning w/ respect to Phantom	E.6.3	6.7	R	1.73	1	1	3.9	3.9	∞
Extrapolation, Interpolation & Integration algorithms for Max. SAR Evaluation	E.5	4	R	1.73	1	1	2.3	2.3	∞
Test Sample Related									
Test Sample Positioning	E.4.2	3.12	N	1	1	1	3.1	3.1	35
Device Holder Uncertainty	E.4.1	1.67	N	1	1	1	1.7	1.7	5
Output Power Variation - SAR drift measurement	E.2.9	5	R	1.73	1	1	2.9	2.9	∞
SAR Scaling	E.6.5	0	R	1.73	1	1	0.0	0.0	∞
Phantom & Tissue Parameters									
Phantom Uncertainty (Shape & Thickness tolerances)	E.3.1	7.6	R	1.73	1.0	1.0	4.4	4.4	∞
Liquid Conductivity - measurement uncertainty	E.3.3	4.3	N	1	0.78	0.71	3.3	3.0	76
Liquid Permittivity - measurement uncertainty	E.3.3	4.2	N	1	0.23	0.26	1.0	1.1	75
Liquid Conductivity - Temperature Uncertainty	E.3.4	3.4	R	1.73	0.78	0.71	1.5	1.4	∞
Liquid Permittivity - Temperature Uncertainty	E.3.4	0.6	R	1.73	0.23	0.26	0.1	0.1	∞
Liquid Conductivity - deviation from target values	E.3.2	5.0	R	1.73	0.64	0.43	1.8	1.2	∞
Liquid Permittivity - deviation from target values	E.3.2	5.0	R	1.73	0.60	0.49	1.7	1.4	∞
Combined Standard Uncertainty (k=1)							RSS	11.6	11.4
Expanded Uncertainty (95% CONFIDENCE LEVEL)							k=2	23.2	22.8

The above measurement uncertainties are according to IEEE Std. 1528-2013

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17 CONCLUSION

17.1 Measurement Conclusion

The SAR evaluation indicates that the EUT complies with the RF radiation exposure limits of the FCC and Innovation, Science, and Economic Development Canada, with respect to all parameters subject to this test. These measurements were taken to simulate the RF effects of RF exposure under worst-case conditions. Precise laboratory measures were taken to assure repeatability of the tests. The results and statements relate only to the item(s) tested.

Please note that the absorption and distribution of electromagnetic energy in the body are very complex phenomena that depend on the mass, shape, and size of the body, the orientation of the body with respect to the field vectors, and the electrical properties of both the body and the environment. Other variables that may play a substantial role in possible biological effects are those that characterize the environment (e.g. ambient temperature, air velocity, relative humidity, and body insulation) and those that characterize the individual (e.g. age, gender, activity level, debilitation, or disease). Because various factors may interact with one another to vary the specific biological outcome of an exposure to electromagnetic fields, any protection guide should consider maximal amplification of biological effects as a result of field-body interactions, environmental conditions, and physiological variables. [3]

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