



SAR EVALUATION REPORT

Applicant Name:
Samsung Electronics Co., Ltd.
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Gyeonggi-do, 16677, Korea

Date of Testing:
04/08/21 – 06/03/21
Test Site/Location:
PCTEST, Columbia, MD, USA
Document Serial No.:
1M2104070032-01.A3L (Rev2)

FCC ID: **A3LSMF711U**

APPLICANT: **SAMSUNG ELECTRONICS CO., LTD.**

DUT Type: Portable Handset
Application Type: Certification
FCC Rule Part(s): CFR §2.1093
Model: SM-F711U
Additional Models: SM-F711U1

Equipment Class	Band & Mode	Tx Frequency	SAR			
			1g Head (W/kg)	1g Body (W/kg)	1g Hotspot (W/kg)	1g Pdalet (W/kg)
PCE	Cell. CDMA/EVDO	824.70 - 848.31 MHz	0.24	0.47	1.08	N/A
PCE	PCS CDMA/EVDO	1851.25 - 1908.75 MHz	0.10	1.02	1.04	1.27
PCE	GSM/GPRS/EDGE 850	824.20 - 848.80 MHz	0.13	0.34	0.65	N/A
PCE	GSM/GPRS/EDGE 1900	1850.20 - 1909.80 MHz	< 0.1	0.33	1.13	1.91
PCE	UMTS 850	826.40 - 846.60 MHz	0.21	0.42	1.03	N/A
PCE	UMTS 1700	1712.4 - 1752.6 MHz	< 0.1	0.56	1.16	2.41
PCE	UMTS 1900	1852.4 - 1907.6 MHz	< 0.1	0.46	1.01	2.93
PCE	LTE Band 71	665.5 - 695.5 MHz	0.22	0.37	0.65	N/A
PCE	LTE Band 12	699.7 - 715.3 MHz	0.26	0.33	0.74	N/A
PCE	LTE Band 13	779.5 - 784.5 MHz	0.29	0.28	0.73	N/A
PCE	LTE Band 14	790.5 - 795.5 MHz	0.28	0.28	0.86	N/A
PCE	LTE Band 28 (Cell)	814.7 - 848.3 MHz	0.31	0.45	0.74	N/A
PCE	LTE Band 5 (Cell)	824.7 - 848.3 MHz	0.27	0.44	0.89	N/A
PCE	LTE Band 68 (MWS)	1710.7 - 1775.3 MHz	0.15	0.88	1.16	3.35
PCE	LTE Band 4 (MWS)	1710.7 - 1754.3 MHz	N/A	N/A	N/A	N/A
PCE	LTE Band 25 (PCS)	1850.7 - 1914.3 MHz	0.12	1.02	1.16	2.98
PCE	LTE Band 2 (PCS)	1850.7 - 1909.3 MHz	N/A	N/A	N/A	N/A
PCE	LTE Band 30	2307.5 - 2312.5 MHz	< 0.1	0.47	0.98	1.81
PCE	LTE Band 7	2502.5 - 2567.5 MHz	< 0.1	0.57	1.11	1.90
CBS	LTE Band 40	2352.5 - 2697.5 MHz	0.81	0.19	0.60	N/A
PCE	LTE Band 41	2498.5 - 2697.5 MHz	0.12	0.45	1.11	2.60
PCE	LTE Band 38	2672.5 - 2817.5 MHz	N/A	N/A	N/A	N/A
PCE	NR Band n71	665.5 - 695.5 MHz	0.28	0.37	0.68	N/A
PCE	NR Band n12	701.5 - 713.5 MHz	0.34	0.43	0.75	N/A
PCE	NR Band n5 (Cell)	826.5 - 846.5 MHz	0.32	0.50	0.99	N/A
PCE	NR Band n68 (MWS)	1712.5 - 1777.5 MHz	1.02	0.86	1.24	2.98
PCE	NR Band n28 (PCS)	1852.5 - 1912.5 MHz	0.98	0.72	0.84	2.97
PCE	NR Band n2 (PCS)	1852.5 - 1907.5 MHz	N/A	N/A	N/A	N/A
PCE	NR Band n30	2307.5 - 2312.5 MHz	< 0.1	0.58	1.20	1.92
PCE	NR Band n41	2506.02 - 2679.99 MHz	0.86	0.23	1.19	2.24
PCE	NR Band n77 DSD	3480.02 - 3540 MHz	0.86	0.21	0.60	2.75
PCE	NR Band n77	3710.01 - 3869.99 MHz	0.75	0.26	0.89	2.74
DTB	2.4 GHz WLAN	2412 - 2482 MHz	0.51	< 0.1	0.51	N/A
NI	U-NB-1	5180 - 5240 MHz	N/A	N/A	N/A	N/A
NI	U-NB-2A	5280 - 6320 MHz	0.15	< 0.1	N/A	0.76
NI	U-NB-2C	5500 - 6720 MHz	0.10	0.13	N/A	0.36
NI	U-NB-3	6740 - 6825 MHz	0.11	0.12	0.23	N/A
DSS/DTB	Bluetooth	2402 - 2480 MHz	0.21	< 0.1	0.29	N/A
Simultaneous SAR per KDB 690783 D01v51r03:			1.59	1.48	1.59	3.97

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
Cell. CDMA/EVDO	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 - 2462 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
Bluetooth	Data	2402 - 2480 MHz
NR Band n260	Data	37000 - 40000 MHz
NR Band n261	Data	27500 - 28350 MHz
NFC	Data	13.56 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 could 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*, below the predefined time-averaged power limit (i.e., P_{limit} for sub-6 radio), for each characterized technology and band (see RF Exposure Part 0 Test Report, report SN could 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	Phablet	Head	Hotspot	Earjack	Maximum Tune-up Output Power*
Averaging Volume:		1g	10g	10g	1g	1g	10g	
Spacing:		15 mm	8, 6, 11 mm	0 mm	0 mm	10 mm, 5 mm	0 mm	
DSI:		0	0	1	2	3	4	
Technology/Band								Pmax
CDMA BC0	A	28.3	27.9	31.2	23.0	27.9		24.0
EVDO BC0	A	28.3	27.9	31.2	23.0	27.9		23.5
CDMA/EVDO BC1	A	23.9	21.0	34.1	18.0	21.0		23.0
GSM/GPRS/EDGE 850 MHz	A	28.5	27.9	32.6	21.8	27.9		24.3
GSM/GPRS/EDGE 1900 MHz	A	25.6	18.8	34.0	18.8	18.8		21.3
UMTS B5	A	28.8	27.7	31.8	23.0	27.7		24.0
UMTS B4	A	26.5	20.0	34.3	18.0	20.0		23.0
UMTS B2	A	27.4	21.0	34.3	18.0	21.0		23.0
LTE FDD B71	A	29.7	28.1	32.0	23.0	28.1		24.5
LTE FDD B12	A	29.7	28.7	31.4	23.0	28.7		24.5
LTE FDD B13	A	30.6	28.0	30.9	23.0	28.0		24.5
LTE FDD B14	A	30.5	27.5	31.0	23.0	27.5		24.5
LTE FDD B26	A	28.8	26.8	30.4	23.0	26.8		24.3
LTE FDD B5	A	28.7	26.3	30.8	23.0	26.3		24.3
LTE FDD B66/4	A	25.2	20.4	33.0	18.0	20.4		24.0
LTE FDD B25/2	A	24.9	21.0	34.1	18.0	21.0		24.0
LTE FDD B30	A	27.3	21.0	37.7	17.5	21.0		23.0
LTE FDD B7	B	27.4	21.0	37.5	17.5	21.0		24.0
LTE TDD B48	F	19.5	19.5	15.0	15.0	19.5		21.5
LTE TDD B41/38	B	26.5	21.0	32.8	17.5	21.0		22.5
LTE TDD B41 (PC2)	B	26.5	21.0	32.8	17.5	21.0		23.4
NR FDD n71	A	28.6	28.6	31.0	23.0	28.6		24.5
NR FDD n12	A	29.1	27.8	30.2	23.0	27.8		24.5
NR FDD n5	A	28.3	28.3	30.2	23.0	28.3		24.3
NR FDD n66 Ant A	A	25.1	19.5	33.0	17.5	19.5		23.5
NR FDD n25/2 Ant A	A	25.4	21.0	34.2	17.5	21.0		23.5
NR FDD n30	A	25.9	21.0	34.3	17.5	21.0		22.5
NR TDD n41	I	21.0	21.0	15.0	19.0	21.0		24.3
NR TDD n41 (PC2)	I	21.0	21.0	15.0	19.0	21.0		26.8
NR TDD n77 Ant F	F	18.5	18.5	15.0	17.5	18.5		24.0
NR TDD n77 (PC2) Ant F	F	18.5	18.5	15.0	17.5	18.5		25.5
NR FDD n66 Ant I	I	21.0	21.0	17.0	18.0	21.0		23.5
NR FDD n25/2 Ant I	I	24.2	24.2	18.0	18.0	24.2		23.5
NR TDD n77 Ant I	I	16.5	16.5	13.0	15.5	16.5		20.0
NR TDD n77 (PC2) Ant I	I	16.5	16.5	13.0	15.5	16.5		21.5
NR TDD n77 Ant E	E	16.5	16.5	13.0	15.5	16.5		20.0
NR TDD n77 (PC2) Ant E	E	16.5	16.5	13.0	15.5	16.5		21.5
NR TDD n77 Ant C	C	12.5	12.5	9.0	11.0	12.5		16.0
NR TDD n77 (PC2) Ant C	C	12.5	12.5	9.0	11.0	12.5		17.5

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Notes:

*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 (e.g. GSM and 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.

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 used an independent fixed level power reduction mechanism for WLAN when 5G NR is active and also for WLAN/BT during all voice or VoIP held to ear scenarios. 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.

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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 BC0 (835 MHz)					
Power Level		Modulated Average Output Power (in dBm)			
		1x-RTT	EVDO Rev 0	EVDO Rev A	
DSI = 0 (Body-Worn or Phablet Max)	Max allowed power	25.0	24.5	24.5	
	Nominal	24.0	23.5	23.5	
DSI = 1 (Phablet Reduced)	Max allowed power	25.0	24.5	24.5	
	Nominal	24.0	23.5	23.5	
DSI = 2 (Head)	Max allowed power	25.0	24.5	24.5	
	Nominal	24.0	23.5	23.5	
DSI = 3 (Hotspot)	Max allowed power	24.0	24.0	24.0	
	Nominal	23.0	23.0	23.0	
DSI = 4 (Earjack)	Max allowed power	25.0	24.5	24.5	
	Nominal	24.0	23.5	23.5	
CDMA BC1 (1900 MHz)					
Power Level		Modulated Average Output Power (in dBm)			
		1x-RTT	EVDO Rev 0	EVDO Rev A	
DSI = 0 (Body-Worn or Phablet Max)	Max allowed power	24.0	24.0	24.0	
	Nominal	23.0	23.0	23.0	
DSI = 1 (Phablet Reduced)	Max allowed power	22.0	22.0	22.0	
	Nominal	21.0	21.0	21.0	
DSI = 2 (Head)	Max allowed power	24.0	24.0	24.0	
	Nominal	23.0	23.0	23.0	
DSI = 3 (Hotspot)	Max allowed power	19.0	19.0	19.0	
	Nominal	18.0	18.0	18.0	
DSI = 4 (Earjack)	Max allowed power	22.0	22.0	22.0	
	Nominal	21.0	21.0	21.0	

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
DSI = 0 (Body-Worn or Phablet Max)	Max allowed power	33.0	33.0	31.5	29.5	27.5	27.0	25.0	23.0	22.0
	Nominal	32.0	32.0	30.5	28.5	26.5	26.0	24.0	22.0	21.0
DSI = 1 (Phablet Reduced)	Max allowed power	33.0	33.0	31.5	29.5	27.5	27.0	25.0	23.0	22.0
	Nominal	32.0	32.0	30.5	28.5	26.5	26.0	24.0	22.0	21.0
DSI = 2 (Head)	Max allowed power	33.0	33.0	31.5	29.5	27.5	27.0	25.0	23.0	22.0
	Nominal	32.0	32.0	30.5	28.5	26.5	26.0	24.0	22.0	21.0
DSI = 3 (Hotspot)	Max allowed power	N/A	32.0	29.0	27.2	26.0	27.0	25.0	23.0	22.0
	Nominal	N/A	31.0	28.0	26.2	25.0	26.0	24.0	22.0	21.0
DSI = 4 (Earjack)	Max allowed power	33.0	33.0	31.5	29.5	27.5	27.0	25.0	23.0	22.0
	Nominal	32.0	32.0	30.5	28.5	26.5	26.0	24.0	22.0	21.0

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
DSI = 0 (Body-Worn or Phablet Max)	Max allowed power	30.0	30.0	28.5	26.5	24.5	26.5	24.0	22.0	21.0
	Nominal	29.0	29.0	27.5	25.5	23.5	25.5	23.0	21.0	20.0
DSI = 1 (Phablet Reduced)	Max allowed power	29.0	29.0	26.0	24.2	23.0	26.5	24.0	22.0	21.0
	Nominal	28.0	28.0	25.0	23.2	22.0	25.5	23.0	21.0	20.0
DSI = 2 (Head)	Max allowed power	30.0	30.0	28.5	26.5	24.5	26.5	24.0	22.0	21.0
	Nominal	29.0	29.0	27.5	25.5	23.5	25.5	23.0	21.0	20.0
DSI = 3 (Hotspot)	Max allowed power	N/A	29.0	26.0	24.2	23.0	26.5	24.0	22.0	21.0
	Nominal	N/A	28.0	25.0	23.2	22.0	25.5	23.0	21.0	20.0
DSI = 4 (Earjack)	Max allowed power	29.0	29.0	26.0	24.2	23.0	26.5	24.0	22.0	21.0
	Nominal	28.0	28.0	25.0	23.2	22.0	25.5	23.0	21.0	20.0

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UMTS Band 5 (850 MHz)					
Power Level		Modulated Average Output Power (in dBm)			
		3GPP WCDMA Rel 99	3GPP HSDPA Rel 5	3GPP HSUPA Rel 6	3GPP DC-HSDPA Rel 8
DSI = 0 (Body-Worn or Phablet Max)	Max allowed power	25.0	24.0	24.0	24.0
	Nominal	24.0	23.0	23.0	23.0
DSI = 1 (Phablet Reduced)	Max allowed power	25.0	24.0	24.0	24.0
	Nominal	24.0	23.0	23.0	23.0
DSI = 2 (Head)	Max allowed power	25.0	24.0	24.0	24.0
	Nominal	24.0	23.0	23.0	23.0
DSI = 3 (Hotspot)	Max allowed power	24.0	23.0	23.0	23.0
	Nominal	23.0	22.0	22.0	22.0
DSI = 4 (Earjack)	Max allowed power	25.0	24.0	24.0	24.0
	Nominal	24.0	23.0	23.0	23.0
UMTS Band 4 (1750 MHz)					
Power Level		Modulated Average Output Power (in dBm)			
		3GPP WCDMA Rel 99	3GPP HSDPA Rel 5	3GPP HSUPA Rel 6	3GPP DC-HSDPA Rel 8
DSI = 0 (Body-Worn or Phablet Max)	Max allowed power	24.0	23.0	23.0	23.0
	Nominal	23.0	22.0	22.0	22.0
DSI = 1 (Phablet Reduced)	Max allowed power	21.0	20.0	20.0	20.0
	Nominal	20.0	19.0	19.0	19.0
DSI = 2 (Head)	Max allowed power	24.0	23.0	23.0	23.0
	Nominal	23.0	22.0	22.0	22.0
DSI = 3 (Hotspot)	Max allowed power	19.0	18.0	18.0	18.0
	Nominal	18.0	17.0	17.0	17.0
DSI = 4 (Earjack)	Max allowed power	21.0	20.0	20.0	20.0
	Nominal	20.0	19.0	19.0	19.0
UMTS Band 2 (1900 MHz)					
Power Level		Modulated Average Output Power (in dBm)			
		3GPP WCDMA Rel 99	3GPP HSDPA Rel 5	3GPP HSUPA Rel 6	3GPP DC-HSDPA Rel 8
DSI = 0 (Body-Worn or Phablet Max)	Max allowed power	24.0	23.0	23.0	23.0
	Nominal	23.0	22.0	22.0	22.0
DSI = 1 (Phablet Reduced)	Max allowed power	22.0	21.0	21.0	21.0
	Nominal	21.0	20.0	20.0	20.0
DSI = 2 (Head)	Max allowed power	24.0	23.0	23.0	23.0
	Nominal	23.0	22.0	22.0	22.0
DSI = 3 (Hotspot)	Max allowed power	19.0	18.0	18.0	18.0
	Nominal	18.0	17.0	17.0	17.0
DSI = 4 (Earjack)	Max allowed power	22.0	21.0	21.0	21.0
	Nominal	21.0	20.0	20.0	20.0

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Mode / Band		Modulated Average Output Power (in dBm)				
		DSI = 0 (Body-Worn or Phablet Max)	DSI = 1 (Phablet Reduced)	DSI = 2 (Head)	DSI = 3 (Hotspot)	DSI = 4 (Earjack)
LTE FDD Band 71	Max allowed	25.5	25.5	25.5	24.0	25.5
	Nominal	24.5	24.5	24.5	23.0	24.5
LTE FDD Band 12	Max allowed	25.5	25.5	25.5	24.0	25.5
	Nominal	24.5	24.5	24.5	23.0	24.5
LTE FDD Band 13	Max allowed	25.5	25.5	25.5	24.0	25.5
	Nominal	24.5	24.5	24.5	23.0	24.5
LTE FDD Band 14	Max allowed	25.5	25.5	25.5	24.0	25.5
	Nominal	24.5	24.5	24.5	23.0	24.5
LTE FDD Band 26	Max allowed	25.3	25.3	25.3	24.0	25.3
	Nominal	24.3	24.3	24.3	23.0	24.3
LTE FDD Band 5	Max allowed	25.3	25.3	25.3	24.0	25.3
	Nominal	24.3	24.3	24.3	23.0	24.3
LTE FDD Band 66	Max allowed	25.0	21.4	25.0	19.0	21.4
	Nominal	24.0	20.4	24.0	18.0	20.4
LTE FDD Band 4	Max allowed	25.0	21.4	25.0	19.0	21.4
	Nominal	24.0	20.4	24.0	18.0	20.4
LTE FDD Band 25	Max allowed	25.0	22.0	25.0	19.0	22.0
	Nominal	24.0	21.0	24.0	18.0	21.0
LTE FDD Band 2	Max allowed	25.0	22.0	25.0	19.0	22.0
	Nominal	24.0	21.0	24.0	18.0	21.0
LTE FDD Band 30	Max allowed	24.0	22.0	24.0	18.5	22.0
	Nominal	23.0	21.0	23.0	17.5	21.0
LTE FDD Band 7	Max allowed	25.0	22.0	25.0	18.5	22.0
	Nominal	24.0	21.0	24.0	17.5	21.0
LTE TDD Band 48	Max allowed	22.5	22.5	18.0	18.0	22.5
	Nominal	21.5	21.5	17.0	17.0	21.5
LTE TDD Band 41	Max allowed	25.5	24.0	25.5	20.5	24.0
	Nominal	24.5	23.0	24.5	19.5	23.0
LTE TDD Band 41 (PC2)	Max allowed	28.0	25.6	28.0	22.1	25.6
	Nominal	27.0	24.6	27.0	21.1	24.6
LTE TDD Band 38	Max allowed	25.5	24.0	25.5	20.5	24.0
	Nominal	24.5	23.0	24.5	19.5	23.0

Mode / Band		Modulated Average Output Power (in dBm)				
		DSI = 0 (Body-Worn or Phablet Max)	DSI = 1 (Phablet Reduced)	DSI = 2 (Head)	DSI = 3 (Hotspot)	DSI = 4 (Earjack)
NR FDD Band 71	Max allowed	25.5	25.5	25.5	24.0	25.5
	Nominal	24.5	24.5	24.5	23.0	24.5
NR FDD Band 12	Max allowed	25.5	25.5	25.5	24.0	25.5
	Nominal	24.5	24.5	24.5	23.0	24.5
NR FDD Band 5	Max allowed	25.3	25.3	25.3	24.0	25.3
	Nominal	24.3	24.3	24.3	23.0	24.3
NR FDD Band 66 Ant A	Max allowed	24.5	20.5	24.5	18.5	20.5
	Nominal	23.5	19.5	23.5	17.5	19.5
NR FDD Band 66 Ant I	Max allowed	22.0	22.0	18.0	19.0	22.0
	Nominal	21.0	21.0	17.0	18.0	21.0
NR FDD Band 25 Ant A	Max allowed	24.5	22.0	24.5	18.5	22.0
	Nominal	23.5	21.0	23.5	17.5	21.0
NR FDD Band 25 Ant I	Max allowed	24.5	24.5	19.0	19.0	24.5
	Nominal	23.5	23.5	18.0	18.0	23.5
NR FDD Band 2 Ant A	Max allowed	24.5	22.0	24.5	18.5	22.0
	Nominal	23.5	21.0	23.5	17.5	21.0
NR FDD Band 2 Ant I	Max allowed	24.5	24.5	19.0	19.0	24.5
	Nominal	23.5	23.5	18.0	18.0	23.5
NR FDD Band 30	Max allowed	23.5	22.0	23.5	18.5	22.0
	Nominal	22.5	21.0	22.5	17.5	21.0
NR TDD Band 41 (PC3)	Max allowed	22.0	22.0	16.0	20.0	22.0
	Nominal	21.0	21.0	15.0	19.0	21.0
NR TDD Band 41 (PC2)	Max allowed	22.0	22.0	16.0	20.0	22.0
	Nominal	21.0	21.0	15.0	19.0	21.0

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Mode / Band		Modulated Average Output Power (in dBm)				
		DSI = 0 (Body-Worn or Phablet Max)	DSI = 1 (Phablet Reduced)	DSI = 2 (Head)	DSI = 3 (Hotspot)	DSI = 4 (Earjack)
NR TDD Band 77 Ant F	Max allowed	19.5	19.5	16.0	18.5	19.5
	Nominal	18.5	18.5	15.0	17.5	18.5
NR TDD Band 77 (PC2) Ant F	Max allowed	19.5	19.5	16.0	18.5	19.5
	Nominal	18.5	18.5	15.0	17.5	18.5
NR TDD Band 77 Ant I	Max allowed	17.5	17.5	14.0	16.5	17.5
	Nominal	16.5	16.5	13.0	15.5	16.5
NR TDD Band 77 (PC2) Ant I	Max allowed	17.5	17.5	14.0	16.5	17.5
	Nominal	16.5	16.5	13.0	15.5	16.5
NR TDD Band 77 Ant E	Max allowed	17.5	17.5	14.0	16.5	17.5
	Nominal	16.5	16.5	13.0	15.5	16.5
NR TDD Band 77 (PC2) Ant E	Max allowed	17.5	17.5	14.0	16.5	17.5
	Nominal	16.5	16.5	13.0	15.5	16.5
NR TDD Band 77 Ant C	Max allowed	13.5	13.5	10.0	12.0	13.5
	Nominal	12.5	12.5	9.0	11.0	12.5
NR TDD Band 77 (PC2) Ant C	Max allowed	13.5	13.5	10.0	12.0	13.5
	Nominal	12.5	12.5	9.0	11.0	12.5

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								MIMO							
		Antenna 1/2															
		b		g		n		ax (SU)		b (CDD + STBC)		g (CDD + STBC)		n (CDD+STBC, SDM)		ax (SU) (CDD+STBC, SDM)	
Maximum / Nominal Power		Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.
2.4 GHz WIFI	2.45 GHz	19.0	18.0	18.0	17.0	18.0	17.0	18.0	17.0	22.0	21.0	21.0	20.0	21.0	20.0	21.0	20.0

(Upper tolerance: Target + 1.0 dB)

Mode		Single Antenna	
		Antenna 1	Antenna 2
Bluetooth (in dBm)	Maximun	16.0	17.0
	Nominal	15.0	16.0
Bluetooth EDR (in dBm)	Maximun	13.5	14.0
	Nominal	12.5	13.5
Bluetooth LE 2Mbps (in dBm)	Maximun	6.0	
	Nominal	5.0	
Bluetooth LE 1Mbps, 125/500 kbps (in dBm)	Maximun	6.0	
	Nominal	5.0	

(Upper tolerance: Target + 1.0 dB)

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1.4.3 2.4 GHz Reduced Bluetooth and 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 GHz WLAN
- Simultaneous conditions with 5G NR

Mode	Band	IEEE 802.11 (in dBm)															
		SISO								MIMO							
		Antenna 1/2															
		b		g		n		ax (SU)		^b (CDD + STBC)		^g (CDD + STBC)		ⁿ (CDD+STBC, SDM)		^{ax (SU)} (CDD+STBC, SDM)	
Maximum / Nominal Power		Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.
2.4 GHz WIFI	2.45 GHz	15.0	14.0	15.0	14.0	15.0	14.0	15.0	14.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0

(Upper tolerance: Target + 1.0 dB)

The below table is applicable in the following conditions:

- RCV Active
- RCV active during simultaneous conditions with 5G NR (FR1) and/or 5 GHz WLAN

Mode	Band	IEEE 802.11 (in dBm)															
		SISO								MIMO							
		Antenna 1/2															
		b		g		n		ax (SU)		^b (CDD + STBC)		^g (CDD + STBC)		ⁿ (CDD+STBC, SDM)		^{ax (SU)} (CDD+STBC, SDM)	
Maximum / Nominal Power		Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.
2.4 GHz WIFI	2.45 GHz	13.0	12.0	13.0	12.0	13.0	12.0	13.0	12.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0

(Upper tolerance: Target + 1.0 dB)

The below table is applicable in the following conditions:

- RCV active during simultaneous conditions with 5G NR (FR2) and/or 5 GHz WLAN

Mode	Band	IEEE 802.11 (in dBm)															
		SISO								MIMO							
		Antenna 1/2															
		b		g		n		ax (SU)		^b (CDD + STBC)		^g (CDD + STBC)		ⁿ (CDD+STBC, SDM)		^{ax (SU)} (CDD+STBC, SDM)	
Maximum / Nominal Power		Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.
2.4 GHz WIFI	2.45 GHz	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0

(Upper tolerance: Target + 1.0 dB)

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The below table is applicable to the following conditions:

- Simultaneous conditions with 5G NR

Mode		Single Antenna	
		Antenna 1	Antenna 2
Bluetooth (in dBm)	Maximun	14	
	Nominal	13.0	
Bluetooth EDR (in dBm)	Maximun	13.5	14.0
	Nominal	12.5	13.0
Bluetooth LE 2Mbps (in dBm)	Maximun	5.0	
	Nominal	5.0	
Bluetooth LE 1Mbps, 125/500 kbps (in dBm)	Maximun	6.0	
	Nominal	5.0	

(Upper tolerance: Target + 1.0 dB)

The below table is applicable I the following conditions:

- RCV Active

Mode		Single Antenna	
		Antenna 1	Antenna 2
Bluetooth (in dBm)	Maximun	10.0	
	Nominal	9.0	
Bluetooth EDR (in dBm)	Maximun	10.0	
	Nominal	9.0	
Bluetooth LE 2Mbps (in dBm)	Maximun	6.0	
	Nominal	5.0	
Bluetooth LE 1Mbps, 125/500 kbps (in dBm)	Maximun	6.0	
	Nominal	5.0	

(Upper tolerance: Target + 1.0 dB)

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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								MIMO							
		Antenna 1/2															
		a		n		ac		ax (SU)		^a (CDD + STBC)		ⁿ (CDD+STBC, SDM)		^{ac} (CDD+STBC, SDM)		^{ax (SU)} (CDD+STBC, SDM)	
Maximum / Nominal Power		Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.
5 GHz WIFI (20MHz BW)	5200 MHz	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	21.0	20.0	21.0	20.0	21.0	20.0	21.0	20.0
		ch. 36: 16.5	15.5	ch. 36: 15.5	14.5	ch. 36: 15.5	14.5	ch. 36: 15.5	14.5	ch. 36: 19.5	18.5	ch. 36: 18.5	17.5	ch. 36: 18.5	17.5	ch. 36: 18.5	17.5
	5300 MHz	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	21.0	20.0	21.0	20.0	21.0	20.0	21.0	20.0
				ch. 64: 17.0	16.0	ch. 64: 17.0	16.0	ch. 64: 17.0	16.0			ch. 64: 20.0	19.0	ch. 64: 20.0	19.0	ch. 64: 20.0	19.0
5 GHz WIFI (20MHz BW)	5500 MHz	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	21.0	20.0	21.0	20.0	21.0	20.0	21.0	20.0
				ch. 100: 17.0	16.0	ch. 100: 17.0	16.0	ch. 100: 17.0	16.0			ch. 100: 20.0	19.0	ch. 100: 20.0	19.0	ch. 100: 20.0	19.0
	5800 MHz	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	21.0	20.0	21.0	20.0	21.0	20.0	21.0	20.0
5 GHz WIFI (40MHz BW)	5200 MHz			17.0	16.0	17.0	16.0	17.0	16.0			20.0	19.0	20.0	19.0	20.0	19.0
				ch. 38: 14.0	13.0	ch. 38: 14.0	13.0	ch. 38: 14.0	13.0			ch. 38: 17.0	16.0	ch. 38: 17.0	16.0	ch. 38: 17.0	16.0
	5300 MHz			17.0	16.0	17.0	16.0	17.0	16.0			20.0	19.0	20.0	19.0	20.0	19.0
				ch. 62: 15.0	14.0	ch. 62: 15.0	14.0	ch. 62: 15.0	14.0			ch. 62: 18.0	17.0	ch. 62: 18.0	17.0	ch. 62: 18.0	17.0
5 GHz WIFI (40MHz BW)	5500 MHz			17.0	16.0	17.0	16.0	17.0	16.0			20.0	19.0	20.0	19.0	20.0	19.0
				ch. 102: 15.5	14.5	ch. 102: 15.5	14.5	ch. 102: 15.5	14.5			ch. 102: 18.5	17.5	ch. 102: 18.5	17.5	ch. 102: 18.5	17.5
	5800 MHz			17.0	16.0	17.0	16.0	17.0	16.0			20.0	19.0	20.0	19.0	20.0	19.0
5 GHz WIFI (80MHz BW)	5200 MHz					12.5	11.5	12.5	11.5					15.5	14.5	15.5	14.5
	5300 MHz					13.0	12.0	13.0	12.0					16.0	15.0	16.0	15.0
5 GHz WIFI (80MHz BW)	5500 MHz					16.0	15.0	16.0	15.0					19.0	18.0	19.0	18.0
						ch. 106: 15.0	14.0	ch. 106: 15.0	14.0					ch. 106: 18.0	17.0	ch. 106: 18.0	17.0
	5800 MHz					16.0	15.0	16.0	15.0					19.0	18.0	19.0	18.0

(Upper tolerance: Target + 1.0 dB)

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1.4.5 5 GHz Reduced 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 2.4 GHz WLAN
- Simultaneous conditions with 5G NR

Mode	Band	IEEE 802.11 (in dBm)															
		SISO								MIMO							
		Antenna 1/2															
		a		n		ac		ax (SU)		a (CDD + STBC)		n (CDD+STBC, SDM)		ac (CDD+STBC, SDM)		ax (SU) (CDD+STBC, SDM)	
Maximum / Nominal Power		Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.
5 GHz WIFI (20MHz BW)	5200 MHz	15.0	14.0	15.0	14.0	15.0	14.0	15.0	14.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0
	5300 MHz	15.0	14.0	15.0	14.0	15.0	14.0	15.0	14.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0
	5500 MHz	15.0	14.0	15.0	14.0	15.0	14.0	15.0	14.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0
	5800 MHz	15.0	14.0	15.0	14.0	15.0	14.0	15.0	14.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0
5 GHz WIFI (40MHz BW)	5200 MHz			15.0	14.0	15.0	14.0	15.0	14.0			18.0	17.0	18.0	17.0	18.0	17.0
				ch. 38: 14.0	13.0	ch. 38: 14.0	13.0	ch. 38: 14.0	13.0			ch. 38: 17.0	16.0	ch. 38: 17.0	16.0	ch. 38: 17.0	16.0
	5300 MHz			15.0	14.0	15.0	14.0	15.0	14.0			18.0	17.0	18.0	17.0	18.0	17.0
	5500 MHz			15.0	14.0	15.0	14.0	15.0	14.0			18.0	17.0	18.0	17.0	18.0	17.0
5 GHz WIFI (80MHz BW)	5800 MHz			15.0	14.0	15.0	14.0	15.0	14.0			18.0	17.0	18.0	17.0	18.0	17.0
	5200 MHz					12.5	11.5	12.5	11.5					15.5	14.5	15.5	14.5
	5300 MHz					13.0	12.0	13.0	12.0					16.0	15.0	16.0	15.0
	5500 MHz					15.0	14.0	15.0	14.0					18.0	17.0	18.0	17.0
5 GHz WIFI (80MHz BW)	5800 MHz					15.0	14.0	15.0	14.0					18.0	17.0	18.0	17.0

(Upper tolerance: Target + 1.0 dB)

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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								MIMO							
		Antenna 1/2															
		a		n		ac		ax (SU)		a (CDD + STBC)		n (CDD+STBC, SDM)		ac (CDD+STBC, SDM)		ax (SU) (CDD+STBC, SDM)	
Maximum / Nominal Power		Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.
5 GHz WIFI (20MHz BW)	5200 MHz	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0
	5300 MHz	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0
	5500 MHz	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0
	5800 MHz	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0
5 GHz WIFI (40MHz BW)	5200 MHz			11.0	10.0	11.0	10.0	11.0	10.0			14.0	13.0	14.0	13.0	14.0	13.0
	5300 MHz			11.0	10.0	11.0	10.0	11.0	10.0			14.0	13.0	14.0	13.0	14.0	13.0
	5500 MHz			11.0	10.0	11.0	10.0	11.0	10.0			14.0	13.0	14.0	13.0	14.0	13.0
	5800 MHz			11.0	10.0	11.0	10.0	11.0	10.0			14.0	13.0	14.0	13.0	14.0	13.0
5 GHz WIFI (80MHz BW)	5200 MHz					11.0	10.0	11.0	10.0					14.0	13.0	14.0	13.0
	5300 MHz					11.0	10.0	11.0	10.0					14.0	13.0	14.0	13.0
	5500 MHz					11.0	10.0	11.0	10.0					14.0	13.0	14.0	13.0
	5800 MHz					11.0	10.0	11.0	10.0					14.0	13.0	14.0	13.0

(Upper tolerance: Target + 1.0 dB)

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1.5 DUT Antenna Locations

A diagram showing the location of the device antennas for both open and closed configurations can be found in Appendix E. When the device is open, the overall dimensions of this device are > 9 x 5 cm. Since the diagonal dimension of this device when open is > 160 mm and <200 mm, it is considered a “phablet.” and operates similar to a traditional portable handset. In the closed configuration, only a simple display/interaction of notifications occurs and overall dimensions are < 9 x5 cm. Therefore, when the device is closed, the only testing considered is for body-worn and hotspot.

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

Mode	Back	Front	Top	Bottom	Right	Left
Cell. EVDO	Yes	Yes	No	Yes	Yes	Yes
PCS EVDO	Yes	Yes	No	Yes	Yes	Yes
GPRS 850	Yes	Yes	No	Yes	Yes	Yes
GPRS 1900	Yes	Yes	No	Yes	Yes	Yes
UMTS 850	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	Yes	Yes	No	Yes	Yes	Yes
LTE Band 12	Yes	Yes	No	Yes	Yes	Yes
LTE Band 13	Yes	Yes	No	Yes	Yes	Yes
LTE Band 14	Yes	Yes	No	Yes	Yes	Yes
LTE Band 26 (Cell)	Yes	Yes	No	Yes	Yes	Yes
LTE Band 5 (Cell)	Yes	Yes	No	Yes	Yes	Yes
LTE Band 66 (AWS)	Yes	Yes	No	Yes	Yes	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	No	Yes
LTE Band 48	Yes	Yes	Yes	No	No	Yes
LTE Band 41	Yes	Yes	No	Yes	No	Yes
NR Band n71	Yes	Yes	No	Yes	Yes	Yes
NR Band n12	Yes	Yes	No	Yes	Yes	Yes
NR Band n5 (Cell)	Yes	Yes	No	Yes	Yes	Yes
NR Band n66 (AWS) Antenna A	Yes	Yes	No	Yes	Yes	Yes
NR Band n66 (AWS) Antenna I	Yes	Yes	Yes	No	Yes	No
NR Band n25 (PCS) Antenna A	Yes	Yes	No	Yes	Yes	Yes
NR Band n25 (PCS) Antenna I	Yes	Yes	Yes	No	Yes	No
NR Band n30	Yes	Yes	No	Yes	Yes	Yes
NR Band n41	Yes	Yes	Yes	No	Yes	No
NR Band n77 Antenna F	Yes	Yes	Yes	No	No	Yes
NR Band n77 Antenna I	Yes	Yes	Yes	No	Yes	No
NR Band n77 Antenna E	Yes	Yes	Yes	No	No	Yes
NR Band n77 Antenna C	Yes	Yes	No	Yes	No	Yes
2.4 GHz WLAN Ant 2	Yes	Yes	Yes	No	No	Yes
2.4 GHz WLAN MIMO	Yes	Yes	Yes	No	Yes	Yes
5 GHz WLAN Ant 1	Yes	Yes	Yes	No	Yes	No
5 GHz WLAN MIMO	Yes	Yes	Yes	No	Yes	Yes
Bluetooth Ant 1	Yes	Yes	Yes	No	Yes	No
Bluetooth Ant 2	Yes	Yes	Yes	No	No	Yes

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**Table 1-2
Device Edges/Sides for SAR Testing Closed**

Mode	Back	Front	Top	Bottom	Right	Left
Cell. EVDO	Yes	Yes	No	Yes	Yes	Yes
PCS EVDO	Yes	Yes	No	Yes	Yes	Yes
GPRS 850	Yes	Yes	No	Yes	Yes	Yes
GPRS 1900	Yes	Yes	No	Yes	Yes	Yes
UMTS 850	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	Yes	Yes	No	Yes	Yes	Yes
LTE Band 12	Yes	Yes	No	Yes	Yes	Yes
LTE Band 13	Yes	Yes	No	Yes	Yes	Yes
LTE Band 14	Yes	Yes	No	Yes	Yes	Yes
LTE Band 26 (Cell)	Yes	Yes	No	Yes	Yes	Yes
LTE Band 5 (Cell)	Yes	Yes	No	Yes	Yes	Yes
LTE Band 66 (AWS)	Yes	Yes	No	Yes	Yes	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	No	Yes
LTE Band 48	Yes	Yes	No	Yes	No	Yes
LTE Band 41	Yes	Yes	No	Yes	No	Yes
NR Band n71	Yes	Yes	No	Yes	Yes	Yes
NR Band n12	Yes	Yes	No	Yes	Yes	Yes
NR Band n5 (Cell)	Yes	Yes	No	Yes	Yes	Yes
NR Band n66 (AWS) Antenna A	Yes	Yes	No	Yes	Yes	Yes
NR Band n66 (AWS) Antenna I	Yes	Yes	Yes	Yes	Yes	No
NR Band n25 (PCS) Antenna A	Yes	Yes	No	Yes	Yes	Yes
NR Band n25 (PCS) Antenna I	Yes	Yes	Yes	Yes	Yes	No
NR Band n30	Yes	Yes	No	Yes	Yes	Yes
NR Band n41	Yes	Yes	Yes	Yes	Yes	No
NR Band n77 Antenna F	Yes	Yes	No	Yes	No	Yes
NR Band n77 Antenna I	Yes	Yes	Yes	Yes	Yes	No
NR Band n77 Antenna E	Yes	Yes	Yes	Yes	No	Yes
NR Band n77 Antenna C	Yes	Yes	Yes	Yes	No	Yes
2.4 GHz WLAN Ant 2	Yes	Yes	No	Yes	No	Yes
2.4 GHz WLAN MIMO	Yes	Yes	No	Yes	Yes	Yes
5 GHz WLAN Ant 1	Yes	Yes	No	Yes	Yes	No
5 GHz WLAN MIMO	Yes	Yes	No	Yes	Yes	Yes
Bluetooth Ant 1	Yes	Yes	No	Yes	Yes	No
Bluetooth Ant 2	Yes	Yes	No	Yes	No	Yes

Note: Particular DUT edges were not required to be evaluated for wireless router SAR or phablet SAR if the edges were greater than 2.5 cm from the transmitting antenna according to FCC KDB Publication 941225 D06v02r01 Section III 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.

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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.

**Table 1-3
Simultaneous Transmission Scenarios**

No.	Capable Transmit Configuration	Head	Body-Worn Accessory	Wireless Router	Phablet	Notes
1	1x CDMA voice + 2.4 GHz WLAN MIMO + 5 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
2	1x CDMA voice + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 2 + 5 GHz WLAN MIMO	Yes^	Yes	N/A	Yes	^ Bluetooth Tethering is considered
3	1x CDMA voice + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 2	Yes^	Yes	N/A	Yes	^ Bluetooth Tethering is considered
4	1x CDMA voice + 2.4 GHz Bluetooth Ant 1 + 5 GHz WLAN MIMO	Yes^	Yes	N/A	Yes	^ Bluetooth Tethering is considered
5	1x CDMA voice + 2.4 GHz Bluetooth Ant 2 + 5 GHz WLAN MIMO	Yes^	Yes	N/A	Yes	^ Bluetooth Tethering is considered
6	1x CDMA voice + 5 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
7	1x CDMA voice + 2.4 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
8	1x CDMA voice + 2.4 GHz Bluetooth Ant 1	Yes^	Yes	N/A	Yes	^ Bluetooth Tethering is considered
9	1x CDMA voice + 2.4 GHz Bluetooth Ant 2	Yes^	Yes	N/A	Yes	^ Bluetooth Tethering is considered
10	1x CDMA voice + 5 GHz WLAN Ant 1	Yes	Yes	N/A	Yes	
11	1x CDMA voice + 2.4 GHz Bluetooth Ant 1 + 5 GHz WLAN Ant 1	Yes^	Yes	N/A	Yes	^ Bluetooth Tethering is considered
12	1x CDMA voice + 2.4 GHz Bluetooth Ant 2 + 5 GHz WLAN Ant 1	Yes^	Yes	N/A	Yes	^ Bluetooth Tethering is considered
13	1x CDMA voice + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 2 + 5 GHz WLAN Ant 1	Yes^	Yes	N/A	Yes	^ Bluetooth Tethering is considered
14	GSM voice + 2.4 GHz WLAN MIMO + 5 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
15	GSM voice + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 2 + 5 GHz WLAN MIMO	Yes^	Yes	N/A	Yes	^ Bluetooth Tethering is considered
16	GSM voice + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 2	Yes^	Yes	N/A	Yes	^ Bluetooth Tethering is considered
17	GSM voice + 2.4 GHz Bluetooth Ant 1 + 5 GHz WLAN MIMO	Yes^	Yes	N/A	Yes	^ Bluetooth Tethering is considered
18	GSM voice + 2.4 GHz Bluetooth Ant 2 + 5 GHz WLAN MIMO	Yes^	Yes	N/A	Yes	^ Bluetooth Tethering is considered
19	GSM voice + 5 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
20	GSM voice + 2.4 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
21	GSM voice + 2.4 GHz Bluetooth Ant 1	Yes^	Yes	N/A	Yes	^ Bluetooth Tethering is considered
22	GSM voice + 2.4 GHz Bluetooth Ant 2	Yes^	Yes	N/A	Yes	^ Bluetooth Tethering is considered
23	GSM voice + 5 GHz WLAN Ant 1	Yes	Yes	N/A	Yes	
24	GSM voice + 2.4 GHz Bluetooth Ant 1 + 5 GHz WLAN Ant 1	Yes^	Yes	N/A	Yes	^ Bluetooth Tethering is considered
25	GSM voice + 2.4 GHz Bluetooth Ant 2 + 5 GHz WLAN Ant 1	Yes^	Yes	N/A	Yes	^ Bluetooth Tethering is considered
26	GSM voice + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 2 + 5 GHz WLAN Ant 1	Yes^	Yes	N/A	Yes	^ Bluetooth Tethering is considered
27	UMTS + 2.4 GHz WLAN MIMO + 5 GHz WLAN MIMO	Yes	Yes	Yes	Yes	
28	UMTS + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 2 + 5 GHz WLAN MIMO	Yes^	Yes	Yes^	Yes	^ Bluetooth Tethering is considered
29	UMTS + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 2	Yes^	Yes	Yes^	Yes	^ Bluetooth Tethering is considered
30	UMTS + 2.4 GHz Bluetooth Ant 1 + 5 GHz WLAN MIMO	Yes^	Yes	Yes^	Yes	^ Bluetooth Tethering is considered
31	UMTS + 2.4 GHz Bluetooth Ant 2 + 5 GHz WLAN MIMO	Yes^	Yes	Yes^	Yes	^ Bluetooth Tethering is considered
32	UMTS + 5 GHz WLAN MIMO	Yes	Yes	Yes	Yes	
33	UMTS + 2.4 GHz WLAN MIMO	Yes	Yes	Yes	Yes	
34	UMTS + 2.4 GHz Bluetooth Ant 1	Yes^	Yes	Yes^	Yes	^ Bluetooth Tethering is considered
35	UMTS + 2.4 GHz Bluetooth Ant 2	Yes^	Yes	Yes^	Yes	^ Bluetooth Tethering is considered
36	UMTS + 5 GHz WLAN Ant 1	Yes	Yes	Yes	Yes	
37	UMTS + 2.4 GHz Bluetooth Ant 1 + 5 GHz WLAN Ant 1	Yes^	Yes	Yes^	Yes	^ Bluetooth Tethering is considered
38	UMTS + 2.4 GHz Bluetooth Ant 2 + 5 GHz WLAN Ant 1	Yes^	Yes	Yes^	Yes	^ Bluetooth Tethering is considered
39	UMTS + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 2 + 5 GHz WLAN Ant 1	Yes^	Yes	Yes^	Yes	^ Bluetooth Tethering is considered
40	LTE + 2.4 GHz WLAN MIMO + 5 GHz WLAN MIMO	Yes	Yes	Yes	Yes	
41	LTE + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 2 + 5 GHz WLAN MIMO	Yes^	Yes	Yes^	Yes	^ Bluetooth Tethering is considered
42	LTE + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 2	Yes^	Yes	Yes^	Yes	^ Bluetooth Tethering is considered
43	LTE + 2.4 GHz Bluetooth Ant 1 + 5 GHz WLAN MIMO	Yes^	Yes	Yes^	Yes	^ Bluetooth Tethering is considered
44	LTE + 2.4 GHz Bluetooth Ant 2 + 5 GHz WLAN MIMO	Yes^	Yes	Yes^	Yes	^ Bluetooth Tethering is considered
45	LTE + 5 GHz WLAN MIMO	Yes	Yes	Yes	Yes	
46	LTE + 2.4 GHz WLAN MIMO	Yes	Yes	Yes	Yes	
47	LTE + 2.4 GHz Bluetooth Ant 1	Yes^	Yes	Yes^	Yes	^ Bluetooth Tethering is considered
48	LTE + 2.4 GHz Bluetooth Ant 2	Yes^	Yes	Yes^	Yes	^ Bluetooth Tethering is considered
49	LTE + 5 GHz WLAN Ant 1	Yes	Yes	Yes	Yes	
50	LTE + 2.4 GHz Bluetooth Ant 1 + 5 GHz WLAN Ant 1	Yes^	Yes	Yes^	Yes	^ Bluetooth Tethering is considered
51	LTE + 2.4 GHz Bluetooth Ant 2 + 5 GHz WLAN Ant 1	Yes^	Yes	Yes^	Yes	^ Bluetooth Tethering is considered
52	LTE + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 2 + 5 GHz WLAN Ant 1	Yes^	Yes	Yes^	Yes	^ Bluetooth Tethering is considered

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No.	Capable Transmit Configuration	Head	Body-Worn Accessory	Wireless Router	Phablet	Notes
53	LTE + NR	Yes	Yes	N/A	Yes	
54	LTE + NR + 2.4 GHz WLAN MIMO + 5 GHz WLAN MIMO	Yes	Yes	Yes	Yes	
55	LTE + NR + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 2 + 5 GHz WLAN MIMO	Yes^	Yes	Yes^	Yes	^ Bluetooth Tethering is considered
56	LTE + NR + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 2	Yes^	Yes	Yes^	Yes	^ Bluetooth Tethering is considered
57	LTE + NR + 2.4 GHz Bluetooth Ant 1 + 5 GHz WLAN MIMO	Yes^	Yes	Yes^	Yes	^ Bluetooth Tethering is considered
58	LTE + NR + 2.4 GHz Bluetooth Ant 2 + 5 GHz WLAN MIMO	Yes^	Yes	Yes^	Yes	^ Bluetooth Tethering is considered
59	LTE + NR + 5 GHz WLAN MIMO	Yes	Yes	Yes	Yes	
60	LTE + NR + 2.4 GHz WLAN MIMO	Yes	Yes	Yes	Yes	
61	LTE + NR + 2.4 GHz Bluetooth Ant 1	Yes^	Yes	Yes^	Yes	^ Bluetooth Tethering is considered
62	LTE + NR + 2.4 GHz Bluetooth Ant 2	Yes^	Yes	Yes^	Yes	^ Bluetooth Tethering is considered
63	LTE + NR + 5 GHz WLAN Ant 1	Yes	Yes	Yes	Yes	
64	LTE + NR + 2.4 GHz Bluetooth Ant 1 + 5 GHz WLAN Ant 1	Yes^	Yes	Yes^	Yes	^ Bluetooth Tethering is considered
65	LTE + NR + 2.4 GHz Bluetooth Ant 2 + 5 GHz WLAN Ant 1	Yes^	Yes	Yes^	Yes	^ Bluetooth Tethering is considered
66	LTE + NR + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 2 + 5 GHz WLAN Ant 1	Yes^	Yes	Yes^	Yes	^ Bluetooth Tethering is considered
67	NR + 2.4 GHz WLAN MIMO + 5 GHz WLAN MIMO	Yes*	Yes*	Yes	Yes	* Pre-installed VOIP applications are considered.
68	NR + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 2 + 5 GHz WLAN MIMO	Yes^*	Yes*	Yes^	Yes	* Pre-installed VOIP applications are considered. ^ Bluetooth Tethering is considered
69	NR + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 2	Yes^*	Yes*	Yes^	Yes	* Pre-installed VOIP applications are considered. ^ Bluetooth Tethering is considered
70	NR + 2.4 GHz Bluetooth Ant 1 + 5 GHz WLAN MIMO	Yes^*	Yes*	Yes^	Yes	* Pre-installed VOIP applications are considered. ^ Bluetooth Tethering is considered
71	NR + 2.4 GHz Bluetooth Ant 2 + 5 GHz WLAN MIMO	Yes^*	Yes*	Yes^	Yes	* Pre-installed VOIP applications are considered. ^ Bluetooth Tethering is considered
72	NR + 5 GHz WLAN MIMO	Yes*	Yes*	Yes	Yes	* Pre-installed VOIP applications are considered.
73	NR + 2.4 GHz WLAN MIMO	Yes*	Yes*	Yes	Yes	* Pre-installed VOIP applications are considered.
74	NR + 2.4 GHz Bluetooth Ant 1	Yes^*	Yes*	Yes^	Yes	* Pre-installed VOIP applications are considered. ^ Bluetooth Tethering is considered
75	NR + 2.4 GHz Bluetooth Ant 2	Yes^*	Yes*	Yes^	Yes	* Pre-installed VOIP applications are considered. ^ Bluetooth Tethering is considered
76	NR + 5 GHz WLAN Ant 1	Yes*	Yes*	Yes	Yes	* Pre-installed VOIP applications are considered.
77	NR + 2.4 GHz Bluetooth Ant 1 + 5 GHz WLAN Ant 1	Yes^*	Yes*	Yes^	Yes	* Pre-installed VOIP applications are considered. ^ Bluetooth Tethering is considered
78	NR + 2.4 GHz Bluetooth Ant 2 + 5 GHz WLAN Ant 1	Yes^*	Yes*	Yes^	Yes	* Pre-installed VOIP applications are considered. ^ Bluetooth Tethering is considered
79	NR + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 2 + 5 GHz WLAN Ant 1	Yes^*	Yes*	Yes^	Yes	* Pre-installed VOIP applications are considered.
80	CDMA/EVDO data + 2.4 GHz WLAN MIMO + 5 GHz WLAN MIMO	Yes*	Yes*	Yes	Yes	* Pre-installed VOIP applications are considered.
81	CDMA/EVDO data + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 2 + 5 GHz WLAN MIMO	Yes^*	Yes*	Yes^	Yes	* Pre-installed VOIP applications are considered. ^ Bluetooth Tethering is considered
82	CDMA/EVDO data + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 2	Yes^*	Yes*	Yes^	Yes	* Pre-installed VOIP applications are considered. ^ Bluetooth Tethering is considered
83	CDMA/EVDO data + 2.4 GHz Bluetooth Ant 1 + 5 GHz WLAN MIMO	Yes^*	Yes*	Yes^	Yes	* Pre-installed VOIP applications are considered. ^ Bluetooth Tethering is considered
84	CDMA/EVDO data + 2.4 GHz Bluetooth Ant 2 + 5 GHz WLAN MIMO	Yes^*	Yes*	Yes^	Yes	* Pre-installed VOIP applications are considered. ^ Bluetooth Tethering is considered
85	CDMA/EVDO data + 5 GHz WLAN MIMO	Yes*	Yes*	Yes	Yes	* Pre-installed VOIP applications are considered.
86	CDMA/EVDO data + 2.4 GHz WLAN MIMO	Yes*	Yes*	Yes	Yes	* Pre-installed VOIP applications are considered.
87	CDMA/EVDO data + 2.4 GHz Bluetooth Ant 1	Yes^*	Yes*	Yes^	Yes	* Pre-installed VOIP applications are considered. ^ Bluetooth Tethering is considered
88	CDMA/EVDO data + 2.4 GHz Bluetooth Ant 2	Yes^*	Yes*	Yes^	Yes	* Pre-installed VOIP applications are considered. ^ Bluetooth Tethering is considered
89	CDMA/EVDO data + 5 GHz WLAN Ant 1	Yes*	Yes*	Yes	Yes	* Pre-installed VOIP applications are considered.
90	CDMA/EVDO data + 2.4 GHz Bluetooth Ant 1 + 5 GHz WLAN Ant 1	Yes^*	Yes*	Yes^	Yes	* Pre-installed VOIP applications are considered. ^ Bluetooth Tethering is considered
91	CDMA/EVDO data + 2.4 GHz Bluetooth Ant 2 + 5 GHz WLAN Ant 1	Yes^*	Yes*	Yes^	Yes	* Pre-installed VOIP applications are considered. ^ Bluetooth Tethering is considered
92	CDMA/EVDO data + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 2 + 5 GHz WLAN Ant 1	Yes^*	Yes*	Yes^	Yes	* Pre-installed VOIP applications are considered. ^ Bluetooth Tethering is considered
93	GPRS/EDGE + 2.4 GHz WLAN MIMO + 5 GHz WLAN MIMO	N/A	N/A	Yes	Yes	
94	GPRS/EDGE + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 2 + 5 GHz WLAN MIMO	N/A	N/A	Yes^	Yes	^ Bluetooth Tethering is considered
95	GPRS/EDGE + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 2	N/A	N/A	Yes^	Yes	^ Bluetooth Tethering is considered
96	GPRS/EDGE + 2.4 GHz Bluetooth Ant 1 + 5 GHz WLAN MIMO	N/A	N/A	Yes^	Yes	^ Bluetooth Tethering is considered
97	GPRS/EDGE + 2.4 GHz Bluetooth Ant 2 + 5 GHz WLAN MIMO	N/A	N/A	Yes^	Yes	^ Bluetooth Tethering is considered
98	GPRS/EDGE + 5 GHz WLAN MIMO	N/A	N/A	Yes	Yes	
99	GPRS/EDGE + 2.4 GHz WLAN MIMO	N/A	N/A	Yes	Yes	
100	GPRS/EDGE + 2.4 GHz Bluetooth Ant 1	N/A	N/A	Yes^	Yes	^ Bluetooth Tethering is considered
101	GPRS/EDGE + 2.4 GHz Bluetooth Ant 2	N/A	N/A	Yes^	Yes	^ Bluetooth Tethering is considered
102	GPRS/EDGE + 5 GHz WLAN Ant 1	N/A	N/A	Yes	Yes	
103	GPRS/EDGE + 2.4 GHz Bluetooth Ant 1 + 5 GHz WLAN Ant 1	N/A	N/A	Yes^	Yes	^ Bluetooth Tethering is considered
104	GPRS/EDGE + 2.4 GHz Bluetooth Ant 2 + 5 GHz WLAN Ant 1	N/A	N/A	Yes^	Yes	^ Bluetooth Tethering is considered
105	GPRS/EDGE + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 2 + 5 GHz WLAN Ant 1	N/A	N/A	Yes^	Yes	^ Bluetooth Tethering is considered

- 2.4 GHz WLAN and 2.4 GHz Bluetooth 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.

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4. 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. 5 GHz Wireless Router is only supported for the U-NII-3 by S/W, therefore U-NII-1, U-NII2A, and U-NII2C were not evaluated for wireless router conditions.
6. 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. 2.4 GHz WLAN antenna can transmit independently or together when operating with MIMO.
7. This device supports VoWIFI.
8. This device supports Bluetooth Tethering.
9. This device supports VoLTE.
10. LTE + 5G NR FR1 Scenarios are limited to EN-DC combinations with anchor bands as shown in the NR FR1 checklist.
11. 5G NR FR2 n260 and n261 cannot transmit simultaneously.
12. LTE + 5G NR FR2 Scenarios are limited to EN-DC combinations with anchor bands as shown in the NR FR2 checklist.

1.8 Miscellaneous SAR Test Considerations

When on the device dimensions when closed, hotspot SAR in the closed configuration was performed at 5mm per KDB Publication 941225 D06v02r01.

There are two WIFI Variants for this model referenced as Variant N and Variant P in this report. Both variants were fully tested for BT/WLAN SAR conditions.

(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.

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 IEEE 802.11ax with the following features:

- a) Up to 80 MHz Bandwidth only for 5 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 GHz
- g) MU-MIMO UL Operations are not supported

Per FCC KDB Publication 648474 D04v01r03, this device is considered a "phablet" 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" 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 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)

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.

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

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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 (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)

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	Revision A
Near Field PD Report (Part 1)	1M2104070032-23.A3L
RF Exposure Part 0 Test Report	1M2104070032-25.A3L
RF Exposure Part 2 Test Report	1M2104070031-21.A3L
RF Exposure Compliance Summary Report	1M2104070032-24.A3L

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LTE Information				
Form Factor	Portable Handset			
Frequency Range of each LTE transmission band	LTE Band 71 (695.5 - 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 (3552.5 - 3697.5 MHz)			
	LTE Band 41 (2498.5 - 2687.5 MHz)			
	LTE Band 38 (2572.5 - 2617.5 MHz)			
	LTE Band 71: 5 MHz, 10 MHz, 15 MHz, 20 MHz			
Channel Bandwidths	LTE Band 12: 1.4 MHz, 3 MHz, 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, 15 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
LTE Band 71: 5 MHz	665.5 (133147)	660.5 (133297)	665.5 (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	N/A	782 (23230)	N/A	
LTE Band 14: 5 MHz	790.5 (23305)	793 (23330)	795.5 (23355)	
LTE Band 14: 10 MHz	N/A	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)	849.3 (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 (19807)	1880 (18900)	1909.3 (19193)	
LTE Band 2 (PCS): 3 MHz	1851.5 (19815)	1880 (18900)	1908.5 (19185)	
LTE Band 2 (PCS): 5 MHz	1852.5 (19825)	1880 (18900)	1907.5 (19175)	
LTE Band 2 (PCS): 10 MHz	1855 (19850)	1880 (18900)	1905 (19150)	
LTE Band 2 (PCS): 15 MHz	1857.5 (19875)	1880 (18900)	1902.5 (19125)	
LTE Band 2 (PCS): 20 MHz	1860 (18900)	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)
LTE Band 48: 10 MHz	3555 (55290)	3601.7 (55757)	N/A	3648.3 (56223)
LTE Band 48: 15 MHz	3557.5 (55315)	3602.5 (55765)	N/A	3647.5 (56215)
LTE Band 48: 20 MHz	3560 (55340)	3603.3 (55773)	N/A	3646.7 (56207)
LTE Band 41: 5 MHz	2508 (39750)	2549.5 (40185)	2593 (40620)	2636.5 (41055)
LTE Band 41: 10 MHz	2508 (39750)	2549.5 (40185)	2593 (40620)	2636.5 (41055)
LTE Band 41: 15 MHz	2506 (39750)	2549.5 (40185)	2593 (40620)	2636.5 (41055)
LTE Band 41: 20 MHz	2506 (39750)	2549.5 (40185)	2593 (40620)	2636.5 (41055)
LTE Band 38: 5 MHz	2572.5 (37775)	2596 (38000)	2617.5 (38225)	
LTE Band 38: 10 MHz	2575 (37800)	2596 (38000)	2615 (38200)	
LTE Band 38: 15 MHz	2577.5 (37825)	2596 (38000)	2612.5 (38175)	
LTE Band 38: 20 MHz	2580 (37850)	2596 (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 6.2.3-6.2.57 (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, eCIC, eMIMO, 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) (1852.5 - 1912.5 MHz)				
	NR Band n2 (PCS) (1852.5 - 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 - 3969.99 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, 25 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, 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 (133147)		680.5 (136100)		695.5 (133447)
NR Band n71: 10 MHz	668 (133600)		680.5 (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 (141500)		713.5 (142700)
NR Band n12: 10 MHz	704 (140800)		707.5 (141500)		711 (142200)
NR Band n12: 15 MHz	706.5 (141300)		707.5 (141500)		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	1730 (346000)		1745 (349000)		1760 (352000)
NR Band n25 (PCS): 5 MHz	1852.5 (370500)		1882.5 (376500)		1912.5 (382500)
NR Band n25 (PCS): 10 MHz	1855 (371000)		1882.5 (376500)		1910 (382000)
NR Band n25 (PCS): 15 MHz	1857.5 (371500)		1882.5 (376500)		1907.5 (381500)
NR Band n25 (PCS): 20 MHz	1860 (372000)		1882.5 (376500)		1905 (381000)
NR Band n25 (PCS): 25 MHz	1862.5 (372500)		1882.5 (376500)		1902.5 (380500)
NR Band n25 (PCS): 30 MHz	1865 (373000)		1882.5 (376500)		1900 (380000)
NR Band n25 (PCS): 40 MHz	1870 (374000)		1882.5 (376500)		1895 (379000)
NR Band n2 (PCS): 5 MHz	1852.5 (370500)		1880 (376000)		1907.5 (381500)
NR Band n2 (PCS): 10 MHz	1855 (371000)		1880 (376000)		1905 (381000)
NR Band n2 (PCS): 15 MHz	1857.5 (371500)		1880 (376000)		1902.5 (380500)
NR Band n2 (PCS): 20 MHz	1860 (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)	2679.99 (535998)
NR Band n41: 30 MHz	2511 (502200)	2552.01 (510402)	2592.99 (518598)	2634 (526800)	2674.98 (534996)
NR Band n41: 40 MHz	2516.01 (503202)	2567.34 (513468)	N/A	2618.67 (523734)	2670 (534000)
NR Band n41: 50 MHz	2521.02 (504204)		2592.99 (518598)		2664.99 (532998)
NR Band n41: 60 MHz	2526 (505200)		2592.99 (518598)		2659.98 (531996)
NR Band n41: 80 MHz	2536.02 (507204)		N/A		2649.99 (529998)
NR Band n41: 90 MHz	2541 (508200)		N/A		2644.98 (528996)
NR Band n41: 100 MHz	2546.01 (509202)		2592.99 (518598)		2640 (528000)
NR Band n77 DoD: 20 MHz	3460.02 (630668)		3500.01 (633334)		3540 (636000)
NR Band n77 DoD: 30 MHz	3465 (631000)		3500.01 (633334)		3534.99 (635666)
NR Band n77 DoD: 40 MHz	3470.01 (631334)		N/A		3529.98 (635332)
NR Band n77 DoD: 50 MHz	3475.02 (631668)		N/A		3525 (635000)
NR Band n77 DoD: 60 MHz	N/A		3500.01 (633334)		N/A
NR Band n77 DoD: 70 MHz	N/A		3500.01 (633334)		N/A
NR Band n77 DoD: 80 MHz	N/A		3500.01 (633334)		N/A
NR Band n77 DoD: 90 MHz	N/A		3500.01 (633334)		N/A
NR Band n77 DoD: 100 MHz	N/A		3500.01 (633334)		N/A
NR Band n77: 20 MHz	3710.01 (647334)	3762 (650800)	3813.99 (654266)	3866.01 (657734)	3918 (661200)
NR Band n77: 30 MHz	3715.02 (647668)	3765 (651000)	3815.01 (654334)	3864.99 (657666)	3915 (661000)
NR Band n77: 40 MHz	3720 (648000)	3768 (651200)	3816 (654400)	3864 (657600)	3912 (660800)
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 (653556)	N/A		3876.66 (658444)
NR Band n77: 70 MHz	3735 (649000)	3804.99 (653666)	N/A		3875.01 (658334)
NR Band n77: 80 MHz	3740.01 (649334)	N/A	3840 (656000)		3939.99 (662666)
NR Band n77: 90 MHz	3745.02 (649668)	N/A	3840 (656000)		3934.98 (662332)
NR Band n77: 100 MHz	3750 (650000)	N/A	N/A		3930 (662000)
SCS for NR Band n71/n12/n5/n66/n25/n2/n30	15 kHz				
SCS for NR Band n41/n77	30 kHz				
Modulations Supported in UL	DFT-s-OFDM: $\pi/2$ BPSK, QPSK, 16QAM, 64QAM, 256QAM				
	CP-OFDM: QPSK, 16QAM, 64QAM, 256QAM				
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 2/5/12/13/14/30/48				
LTE Anchor Bands for NR Band n25 (PCS)	LTE Band 12/66				
LTE Anchor Bands for NR Band n2 (PCS)	LTE Band 5/12/13/14/30/48/66				
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 2/5/12/13/14/30/66				

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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.

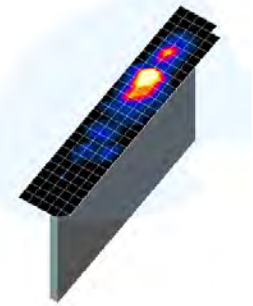


Figure 4-1
Sample SAR Area
Scan

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		
			$\Delta z_{\text{zoom}}(n)$	$\Delta z_{\text{zoom}}(1)^*$	$\Delta z_{\text{zoom}}(n>1)^*$	
≤ 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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5.1 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 ear reference point. 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].

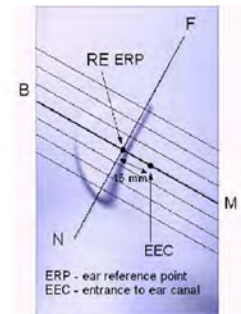


Figure 5-1
Close-Up Side view
of ERP

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 then 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

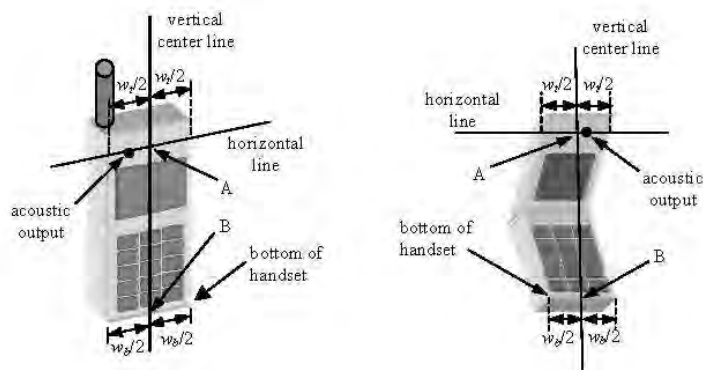


Figure 5-3
Handset Vertical Center & Horizontal Line Reference Points

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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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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.

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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 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 nonreduced 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.

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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.

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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 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

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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 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 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. 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.

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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.

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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9.1 CDMA Conducted Powers

Table 9-1
Measured P_{Max}

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	1013	22H	824.7	24.46	24.39	24.01	24.38	24.08	23.54	23.05
	384	22H	836.52	24.59	24.59	24.02	24.55	24.09	23.61	23.07
	777	22H	848.31	24.60	24.60	24.03	24.58	24.10	23.56	23.08
PCS	25	24E	1851.25	23.74	23.70	23.11	23.30	23.29	23.34	23.16
	600	24E	1880	23.64	23.71	22.86	23.24	23.25	23.13	23.26
	1175	24E	1908.75	23.21	23.26	22.53	23.03	23.08	23.17	23.08

Table 9-2
Measured P_{limit} for DSI = 3 (Hotspot Mode)

Band	Channel	Rule Part	Frequency	TDSO SO32 [dBm]	TDSO SO32 [dBm]	1x EvDO Rev. 0 [dBm]	1x EvDO Rev. A [dBm]
	F-RC		MHz	FCH+SCH	FCH	(RTAP)	(RETAP)
Cellular	1013	22H	824.7	22.91	22.95	23.01	23.00
	384	22H	836.52	22.97	23.01	22.96	22.98
	777	22H	848.31	22.86	22.88	22.95	22.97
PCS	25	24E	1851.25	18.06	18.08	18.28	18.30
	600	24E	1880	18.00	18.01	18.29	18.15
	1175	24E	1908.75	18.11	18.13	18.15	18.08

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Table 9-3
Measured P_{limit} for DSI = 1 (Phablet with grip sensor active), or and/or DSI = 4 (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	20.99	21.00	21.08	21.14	21.26	21.04	21.06
	600	24E	1880	21.00	21.02	20.91	21.18	21.35	21.10	21.08
	1175	24E	1908.75	20.97	20.95	20.99	21.10	21.22	21.12	21.00

Note: RC1 is only applicable for IS-95 compatibility.



Figure 9-1
Power Measurement Setup

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9.2 GSM Conducted Powers

Table 9-4
Measured P_{max}

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	32.00	31.98	30.47	28.54	26.54	26.22	23.90	22.10	21.05
	190	31.90	32.11	30.25	28.32	26.44	26.49	23.73	21.62	20.50
	251	31.74	32.15	30.22	28.29	26.31	25.99	23.65	21.85	20.66
GSM 1900	512	29.25	29.08	27.48	25.36	23.24	25.46	23.05	20.72	19.36
	661	29.01	28.88	27.31	25.19	23.11	24.45	22.85	20.79	19.47
	810	29.04	28.95	27.40	25.34	23.10	25.16	22.85	20.81	19.65
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	22.80	22.78	24.28	24.11	23.36	17.02	17.71	17.67	17.87
	190	22.70	22.91	24.06	23.89	23.26	17.29	17.54	17.19	17.32
	251	22.54	22.95	24.03	23.86	23.13	16.79	17.46	17.42	17.48
GSM 1900	512	20.05	19.88	21.29	20.93	20.06	16.26	16.86	16.29	16.18
	661	19.81	19.28	21.12	20.76	19.93	15.68	16.66	16.36	16.29
	810	19.84	19.75	21.21	20.91	19.92	15.96	16.66	16.38	16.47
GSM 850	Frame Avg. Targets:	22.80	22.80	24.31	24.07	23.32	16.80	17.81	17.57	17.82
GSM 1900		19.80	19.80	21.31	21.07	20.32	16.30	16.81	16.57	16.82

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Table 9-5
Measured P_{limit} for DSI = 3 (Hotspot Mode) for GSM 850

Maximum Burst-Averaged Output Power									
		GPRS/EDGE Data (GMSK)				EDGE Data (8-PSK)			
Band	Channel	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	30.77	28.10	25.67	24.12	26.02	23.85	21.69	21.13
	190	30.67	27.84	25.75	24.24	25.88	23.70	21.55	20.85
	251	30.68	28.39	25.66	24.05	25.90	23.72	21.57	20.98
Calculated Maximum Frame-Averaged Output Power									
		GPRS/EDGE Data (GMSK)				EDGE Data (8-PSK)			
Band	Channel	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	21.57	21.91	21.24	20.94	16.82	17.66	17.26	17.95
	190	21.47	21.65	21.32	21.06	16.68	17.51	17.12	17.67
	251	21.48	22.20	21.23	20.87	16.70	17.53	17.14	17.80
GSM 850	Frame Avg. Targets:	21.80	21.81	21.77	21.82	16.80	17.81	17.57	17.82

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Table 9-6
Measured P_{limit} for DSI = 3 (Hotspot Mode), or
DSI = 1 (Phablet with grip sensor inactive), or and/or DSI = 4 (Earjack active) 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 1900	512	28.55	28.68	24.80	23.89	22.31	25.29	23.00	21.47	19.69
	661	28.14	28.28	25.19	23.13	22.00	24.69	22.79	20.11	19.25
	810	28.13	28.17	24.99	23.87	22.34	24.80	22.78	20.67	19.67

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	19.35	19.48	18.61	19.46	19.13	16.09	16.81	17.04	16.51
	661	18.94	19.08	19.00	18.70	18.82	15.49	16.60	15.68	16.07
	810	18.93	18.97	18.80	19.44	19.16	15.60	16.59	16.24	16.49
GSM 1900	Frame Avg.Targets:	18.80	18.80	18.81	18.77	18.82	16.30	16.81	16.57	16.82

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 9-7
Measured P_{max}

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	24.46	24.49	24.43	23.66	23.70	23.68	23.80	23.82	23.74	-
99		12.2 kbps AMR	24.54	24.53	24.47	23.83	23.78	23.64	23.99	23.95	23.92	-
6	HSDPA	Subtest 1	22.93	22.82	22.82	22.00	22.02	22.00	22.13	22.07	22.01	0
6		Subtest 2	22.90	22.86	22.78	22.05	22.01	22.01	22.04	22.06	22.05	0
6		Subtest 3	22.33	22.37	22.28	21.51	21.50	21.50	21.58	21.51	21.52	0.5
6		Subtest 4	22.33	22.37	22.29	21.50	21.52	21.52	21.58	21.57	21.53	0.5
6	HSUPA	Subtest 1	23.11	23.07	23.00	22.05	22.01	22.03	22.21	22.24	22.15	0
6		Subtest 2	21.00	20.98	20.95	20.04	20.02	20.01	20.17	20.18	20.02	2
6		Subtest 3	21.92	21.92	21.88	21.05	21.03	21.00	21.13	21.15	21.10	1
6		Subtest 4	21.04	20.88	20.73	20.01	20.00	20.00	20.08	20.00	20.03	2
6		Subtest 5	23.14	23.12	22.97	22.30	22.17	22.14	22.21	22.20	22.15	0
8	DC-HSDPA	Subtest 1	23.06	23.00	22.97	22.08	22.01	22.02	22.33	22.22	22.23	0
8		Subtest 2	23.00	23.01	22.98	22.04	22.00	22.03	22.30	22.24	22.17	0
8		Subtest 3	22.56	22.53	22.45	21.57	21.52	21.55	21.79	21.75	21.72	0.5
8		Subtest 4	22.55	22.56	22.43	21.55	21.52	21.54	21.77	21.76	21.66	0.5

Table 9-8
Measured P_{limit} for DSI = 3 (Hotspot Mode)

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	23.00	22.99	22.92	18.40	18.45	18.38	18.01	17.95	18.00	-
99		12.2 kbps AMR	23.06	23.03	22.99	18.11	18.24	18.24	18.08	18.00	18.05	-
6	HSDPA	Subtest 1	21.82	21.81	21.76	16.50	16.58	16.48	16.73	16.73	16.64	0
6		Subtest 2	21.76	21.83	21.76	16.53	16.63	16.56	16.72	16.71	16.66	0
6		Subtest 3	21.30	21.31	21.23	16.03	16.02	16.04	16.24	16.21	16.17	0.5
6		Subtest 4	21.34	21.26	21.23	16.07	16.08	16.07	16.21	16.25	16.19	0.5
6	HSUPA	Subtest 1	21.53	21.72	21.69	16.55	16.57	16.47	16.72	16.75	16.68	0
6		Subtest 2	19.79	19.75	19.78	14.70	14.71	14.65	14.84	14.80	14.77	2
6		Subtest 3	20.78	20.77	20.70	15.54	15.55	15.49	15.71	15.70	15.65	1
6		Subtest 4	19.80	19.77	19.72	14.51	14.56	14.49	14.73	14.75	14.66	2
6		Subtest 5	21.78	21.77	21.78	16.65	16.60	16.52	16.65	16.71	16.69	0
8	DC-HSDPA	Subtest 1	21.74	21.78	21.70	16.67	16.70	16.60	16.99	16.97	16.82	0
8		Subtest 2	21.79	21.79	21.71	16.66	16.66	16.59	16.77	16.71	16.79	0
8		Subtest 3	21.29	21.26	21.21	16.05	16.06	15.98	16.25	16.30	16.59	0.5
8		Subtest 4	21.28	21.25	21.20	16.00	16.08	16.03	16.25	16.11	16.17	0.5

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Table 9-9
Measured P_{limit} for DSI = 1 (Phablet with grip sensor active), or and/or DSI = 4 (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	20.03	20.00	19.87	21.38	21.42	21.40	-
99		12.2 kbps AMR	20.12	19.99	19.96	21.45	21.43	21.31	-
6	HSDPA	Subtest 1	19.01	19.03	19.01	20.10	20.16	20.16	0
6		Subtest 2	19.02	19.01	19.02	20.06	20.17	20.11	0
6		Subtest 3	18.53	18.50	18.53	19.57	19.60	19.61	0.5
6		Subtest 4	18.52	18.52	18.50	19.57	19.63	19.60	0.5
6	HSUPA	Subtest 1	19.04	19.02	19.01	20.20	20.19	20.15	0
6		Subtest 2	17.00	17.03	17.00	18.14	18.17	18.08	2
6		Subtest 3	18.02	18.03	18.02	19.12	19.04	19.05	1
6		Subtest 4	17.02	17.01	17.02	18.16	18.17	18.14	2
6		Subtest 5	19.96	19.96	19.91	21.00	20.98	20.99	0
8	DC-HSDPA	Subtest 1	19.23	19.18	19.09	20.51	20.53	20.39	0
8		Subtest 2	19.24	19.17	19.11	20.44	20.42	20.41	0
8		Subtest 3	18.75	18.77	18.65	19.98	19.95	19.94	0.5
8		Subtest 4	18.74	18.69	18.60	19.99	19.96	19.90	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 9-10

LTE Band 71 Measured P_{Max} for DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack Active) - 20 MHz Bandwidth

LTE Band 71 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	133297 (680.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]		
QPSK	1	0	24.08	0	0
	1	50	24.11		0
	1	99	24.07		0
	50	0	23.12	0-1	1
	50	25	23.26		1
	50	50	23.20		1
	100	0	23.19		1
16QAM	1	0	23.13	0-1	1
	1	50	23.14		1
	1	99	23.16		1
	50	0	22.19	0-2	2
	50	25	22.29		2
	50	50	22.23		2
	100	0	22.14		2
64QAM	1	0	22.63	0-2	2
	1	50	22.69		2
	1	99	22.66		2
	50	0	21.20	0-3	3
	50	25	21.31		3
	50	50	21.28		3
	100	0	21.20		3
256QAM	1	0	19.08	0-5	5
	1	50	19.47		5
	1	99	19.26		5
	50	0	19.14		5
	50	25	19.23		5
	50	50	19.18		5
	100	0	19.11		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.

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Table 9-11
LTE Band 71 Measured P_{limit} for DSI = 3 (Hotspot Mode) - 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	22.67	0	0
	1	50	22.73		0
	1	99	22.65		0
	50	0	22.63	0-1	0
	50	25	22.78		0
	50	50	22.66		0
	100	0	22.70		0
16QAM	1	0	23.09	0-1	0
	1	50	23.13		0
	1	99	23.06		0
	50	0	22.16	0-2	0.5
	50	25	22.28		0.5
	50	50	22.25		0.5
	100	0	22.20		0.5
64QAM	1	0	21.91	0-2	0.5
	1	50	22.04		0.5
	1	99	21.92		0.5
	50	0	21.20	0-3	1.5
	50	25	21.32		1.5
	50	50	21.28		1.5
	100	0	21.25		1.5
256QAM	1	0	19.08	0-5	3.5
	1	50	19.52		3.5
	1	99	19.24		3.5
	50	0	19.17		3.5
	50	25	19.28		3.5
	50	50	19.25		3.5
	100	0	19.16		3.5

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.

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9.4.2 LTE Band 12

Table 9-12

LTE Band 12 Measured P_{Max} for DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack Active) - 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	24.13	0	0
	1	25	24.25		0
	1	49	24.17		0
	25	0	23.26	0-1	1
	25	12	23.40		1
	25	25	23.30		1
	50	0	23.28		1
16QAM	1	0	23.55	0-1	1
	1	25	23.59		1
	1	49	23.57		1
	25	0	22.25	0-2	2
	25	12	22.41		2
	25	25	22.33		2
	50	0	22.28		2
64QAM	1	0	22.53	0-2	2
	1	25	22.59		2
	1	49	22.61		2
	25	0	21.30	0-3	3
	25	12	21.49		3
	25	25	21.37		3
	50	0	21.20		3
256QAM	1	0	18.92	0-5	5
	1	25	19.29		5
	1	49	19.05		5
	25	0	19.27		5
	25	12	19.44		5
	25	25	19.37		5
	50	0	19.32		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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Table 9-13
LTE Band 12 Measured P_{limit} for DSI = 3 (Hotspot Mode) - 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	22.67	0	0
	1	25	22.78		0
	1	49	22.67		0
	25	0	22.78	0-1	0
	25	12	22.85		0
	25	25	22.81		0
	50	0	22.69		0
16QAM	1	0	23.02	0-1	0
	1	25	23.04		0
	1	49	23.01		0
	25	0	22.36	0-2	0.5
	25	12	22.47		0.5
	25	25	22.50		0.5
	50	0	22.28		0.5
64QAM	1	0	22.51	0-2	0.5
	1	25	22.78		0.5
	1	49	22.66		0.5
	25	0	21.35	0-3	1.5
	25	12	21.51		1.5
	25	25	21.43		1.5
	50	0	21.30		1.5
256QAM	1	0	19.22	0-5	3.5
	1	25	19.32		3.5
	1	49	19.35		3.5
	25	0	19.33		3.5
	25	12	19.46		3.5
	25	25	19.45		3.5
	50	0	19.34		3.5

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 9-14

LTE Band 13 Measured P_{Max} for DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack Active) - 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	24.18	0	0
	1	25	24.23		0
	1	49	24.27		0
	25	0	23.33	0-1	1
	25	12	23.29		1
	25	25	23.32		1
	50	0	23.24		1
16QAM	1	0	23.63	0-1	1
	1	25	23.73		1
	1	49	23.79		1
	25	0	22.40	0-2	2
	25	12	22.32		2
	25	25	22.36		2
	50	0	22.37		2
64QAM	1	0	21.88	0-2	2
	1	25	22.48		2
	1	49	21.96		2
	25	0	21.03	0-3	3
	25	12	21.27		3
	25	25	21.30		3
	50	0	21.19		3
256QAM	1	0	18.91	0-5	5
	1	25	19.36		5
	1	49	19.26		5
	25	0	19.25		5
	25	12	19.33		5
	25	25	19.29		5
	50	0	19.26		5

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9.4.1 LTE Band 13

Table 9-15
LTE Band 13 Measured P_{limit} for DSI = 3 (Hotspot Mode) - 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	22.69	0	0
	1	25	22.70		0
	1	49	22.84		0
	25	0	22.88	0-1	0
	25	12	22.89		0
	25	25	22.83		0
	50	0	22.83		0
16QAM	1	0	22.79	0-1	0
	1	25	22.86		0
	1	49	22.91		0
	25	0	22.45	0-2	0.5
	25	12	22.48		0.5
	25	25	22.42		0.5
	50	0	22.36		0.5
64QAM	1	0	21.79	0-2	0.5
	1	25	22.33		0.5
	1	49	21.92		0.5
	25	0	21.37	0-3	1.5
	25	12	21.47		1.5
	25	25	21.54		1.5
	50	0	21.40		1.5
256QAM	1	0	19.39	0-5	3.5
	1	25	19.64		3.5
	1	49	19.69		3.5
	25	0	19.38		3.5
	25	12	19.49		3.5
	25	25	19.41		3.5
	50	0	19.32		3.5

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9.4.2 LTE Band 14

Table 9-16

LTE Band 14 Measured P_{Max} for DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack Active) - 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	24.20	0	0
	1	25	24.12		0
	1	49	24.14		0
	25	0	23.26	0-1	1
	25	12	23.34		1
	25	25	23.32		1
	50	0	23.30		1
16QAM	1	0	23.03	0-1	1
	1	25	22.99		1
	1	49	23.04		1
	25	0	22.28	0-2	2
	25	12	22.37		2
	25	25	22.42		2
	50	0	22.32		2
64QAM	1	0	22.60	0-2	2
	1	25	22.69		2
	1	49	22.72		2
	25	0	21.27	0-3	3
	25	12	21.40		3
	25	25	21.42		3
	50	0	21.26		3
256QAM	1	0	18.89	0-5	5
	1	25	19.06		5
	1	49	18.82		5
	25	0	19.30		5
	25	12	19.36		5
	25	25	19.40		5
	50	0	19.27		5

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Table 9-17
LTE Band 14 Measured P_{limit} for DSI = 3 (Hotspot Mode) - 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	22.69	0	0
	1	25	22.84		0
	1	49	22.81		0
	25	0	22.76	0-1	0
	25	12	22.89		0
	25	25	22.88		0
	50	0	22.80		0
16QAM	1	0	23.36	0-1	0
	1	25	23.41		0
	1	49	23.46		0
	25	0	22.33	0-2	0.5
	25	12	22.49		0.5
	25	25	22.51		0.5
	50	0	22.33		0.5
64QAM	1	0	22.27	0-2	0.5
	1	25	22.40		0.5
	1	49	22.36		0.5
	25	0	21.39	0-3	1.5
	25	12	21.50		1.5
	25	25	21.44		1.5
	50	0	21.35		1.5
256QAM	1	0	19.61	0-5	3.5
	1	25	19.90		3.5
	1	49	19.72		3.5
	25	0	19.38		3.5
	25	12	19.49		3.5
	25	25	19.54		3.5
	50	0	19.35		3.5

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9.4.3 LTE Band 26

Table 9-18

LTE Band 26 (Cell) Measured P_{Max} for DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack Active) - 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	23.97	0	0
	1	36	23.94		0
	1	74	24.00		0
	36	0	22.97	0-1	1
	36	18	23.03		1
	36	37	23.05		1
	75	0	22.96		1
16QAM	1	0	23.43	0-1	1
	1	36	23.39		1
	1	74	23.44		1
	36	0	21.98	0-2	2
	36	18	22.03		2
	36	37	22.04		2
	75	0	21.99		2
64QAM	1	0	22.31	0-2	2
	1	36	22.45		2
	1	74	22.51		2
	36	0	20.97	0-3	3
	36	18	21.01		3
	36	37	21.05		3
	75	0	20.99		3
256QAM	1	0	19.23	0-5	5
	1	36	19.47		5
	1	74	19.46		5
	36	0	19.01		5
	36	18	19.05		5
	36	37	19.06		5
	75	0	19.04		5

Note: LTE Band 26 (Cell) 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.

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9.4.1 LTE Band 26

Table 9-19
LTE Band 26 (Cell) Measured P_{limit} for DSI = 3 (Hotspot Mode) - 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	23.05	0	0
	1	36	22.97		0
	1	74	23.06		0
	36	0	22.99	0-1	0
	36	18	23.02		0
	36	37	23.04		0
	75	0	22.96		0
16QAM	1	0	23.04	0-1	0
	1	36	23.05		0
	1	74	22.95		0
	36	0	22.05	0-2	0.7
	36	18	22.02		0.7
	36	37	22.06		0.7
	75	0	21.98		0.7
64QAM	1	0	22.27	0-2	0.7
	1	36	22.25		0.7
	1	74	22.31		0.7
	36	0	21.03	0-3	1.7
	36	18	20.97		1.7
	36	37	21.01		1.7
	75	0	20.99		1.7
256QAM	1	0	19.35	0-5	3.7
	1	36	19.30		3.7
	1	74	19.50		3.7
	36	0	19.15		3.7
	36	18	18.97		3.7
	36	37	18.99		3.7
	75	0	18.93		3.7

Note: LTE Band 26 (Cell) 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.

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9.4.2 LTE Band 5

Table 9-20

LTE Band 5 (Cell) Measured P_{Max} for DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack Active) - 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	23.56	0	0
	1	25	23.53		0
	1	49	23.67		0
	25	0	22.55	0-1	1
	25	12	22.56		1
	25	25	22.62		1
	50	0	22.52		1
16QAM	1	0	22.62	0-1	1
	1	25	22.68		1
	1	49	22.65		1
	25	0	21.62	0-2	2
	25	12	21.61		2
	25	25	21.72		2
	50	0	21.51		2
64QAM	1	0	21.86	0-2	2
	1	25	21.98		2
	1	49	21.93		2
	25	0	20.77	0-3	3
	25	12	20.78		3
	25	25	20.87		3
	50	0	20.67		3
256QAM	1	0	18.23	0-5	5
	1	25	18.61		5
	1	49	18.39		5
	25	0	18.61		5
	25	12	18.72		5
	25	25	18.71		5
	50	0	18.59		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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Table 9-21
LTE Band 5 (Cell) Measured P_{limit} for DSI = 3 (Hotspot Mode) - 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	22.68	0	0
	1	25	22.77		0
	1	49	22.82		0
	25	0	22.83	0-1	0
	25	12	22.89		0
	25	25	23.00		0
	50	0	22.80		0
16QAM	1	0	23.20	0-1	0
	1	25	23.26		0
	1	49	23.24		0
	25	0	21.85	0-2	0.7
	25	12	21.88		0.7
	25	25	21.96		0.7
	50	0	21.82		0.7
64QAM	1	0	21.88	0-2	0.7
	1	25	21.98		0.7
	1	49	21.96		0.7
	25	0	20.91	0-3	1.7
	25	12	20.99		1.7
	25	25	21.03		1.7
	50	0	20.79		1.7
256QAM	1	0	19.07	0-5	3.7
	1	25	19.44		3.7
	1	49	19.20		3.7
	25	0	18.86		3.7
	25	12	18.94		3.7
	25	25	19.01		3.7
	50	0	18.85		3.7

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Table 9-22

LTE Band 66 (AWS) Measured P_{Max} for DSI = 0/1 (Body-worn, or Phablet with grip sensor inactive), or DSI = 2 (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	23.54	23.49	23.82	0	0
	1	50	23.69	23.73	23.79		0
	1	99	23.71	23.70	23.91		0
	50	0	22.77	22.82	22.86	0-1	1
	50	25	22.90	22.91	23.04		1
	50	50	22.86	22.89	22.97		1
	100	0	22.88	22.81	23.02		1
16QAM	1	0	22.83	22.86	23.18	0-1	1
	1	50	23.13	23.23	23.18		1
	1	99	22.90	23.04	23.24		1
	50	0	21.81	21.83	21.88	0-2	2
	50	25	21.97	21.90	22.01		2
	50	50	21.87	21.93	21.96		2
	100	0	21.92	21.88	21.94		2
64QAM	1	0	21.54	21.76	22.00	0-2	2
	1	50	22.03	21.41	22.14		2
	1	99	21.81	21.63	21.44		2
	50	0	20.84	20.58	20.88	0-3	3
	50	25	20.95	20.42	21.06		3
	50	50	20.88	20.40	20.92		3
	100	0	20.91	20.43	20.95		3
256QAM	1	0	18.65	18.71	18.70	0-5	5
	1	50	18.99	19.01	19.11		5
	1	99	18.83	18.85	18.91		5
	50	0	18.85	18.86	18.81		5
	50	25	19.00	18.96	19.02		5
	50	50	18.87	18.88	19.03		5
	100	0	18.91	18.86	18.95		5

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Table 9-23

LTE Band 66 (AWS) Measured P_{Max} for DSI = 0/1 (Body-worn, or Phablet with grip sensor inactive), or DSI = 2 (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	23.54	23.63	23.61	0	0
	1	25	23.80	23.87	23.95		0
	1	49	23.68	23.72	23.72		0
	25	0	22.91	22.88	22.94	0-1	1
	25	12	22.96	22.94	23.05		1
	25	25	22.88	22.89	22.99		1
	50	0	22.89	22.87	22.83		1
16QAM	1	0	23.30	22.95	23.18	0-1	1
	1	25	23.40	23.15	23.50		1
	1	49	23.32	23.06	22.88		1
	25	0	22.30	22.25	22.20	0-2	2
	25	12	22.33	22.29	22.45		2
	25	25	22.30	22.28	22.33		2
	50	0	22.26	22.17	22.23		2
64QAM	1	0	21.73	21.66	22.20	0-2	2
	1	25	22.20	21.71	22.03		2
	1	49	22.25	21.78	21.65		2
	25	0	20.77	20.69	21.22	0-3	3
	25	12	21.00	20.67	20.96		3
	25	25	21.18	20.69	20.65		3
	50	0	21.02	20.71	20.97		3
256QAM	1	0	19.09	19.05	19.16	0-5	5
	1	25	19.37	19.51	19.48		5
	1	49	19.29	19.30	19.32		5
	25	0	19.29	19.19	19.27		5
	25	12	19.25	19.25	19.38		5
	25	25	19.22	19.28	19.23		5
	50	0	19.24	19.29	19.28		5

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Table 9-24
LTE Band 66 (AWS) Measured P_{limit} for DSI = 3 (Hotspot Mode)- 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	17.90	18.08	18.32	0	0
	1	50	18.20	18.29	18.30		0
	1	99	18.02	18.25	18.43		0
	50	0	18.22	18.32	18.41	0-1	0
	50	25	18.39	18.37	18.57		0
	50	50	18.33	18.45	18.44		0
	100	0	18.31	18.30	18.40		0
16QAM	1	0	18.27	18.32	18.84	0-1	0
	1	50	18.54	18.74	18.83		0
	1	99	18.26	18.68	18.82		0
	50	0	18.20	18.34	18.39	0-2	0
	50	25	18.36	18.33	18.55		0
	50	50	18.33	18.43	18.45		0
	100	0	18.28	18.26	18.51		0
64QAM	1	0	18.18	18.23	18.69	0-2	0
	1	50	18.48	18.54	18.69		0
	1	99	18.25	18.50	18.68		0
	50	0	18.26	18.29	18.44	0-3	0
	50	25	18.41	18.44	18.59		0
	50	50	18.35	18.42	18.47		0
	100	0	18.37	18.36	18.48		0
256QAM	1	0	18.17	18.18	18.22	0-5	0
	1	50	18.44	18.55	18.60		0
	1	99	18.36	18.41	18.41		0
	50	0	18.24	18.40	18.44		0
	50	25	18.42	18.48	18.58		0
	50	50	18.35	18.48	18.56		0
	100	0	18.39	18.35	18.47		0

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Table 9-25
LTE Band 66 (AWS) Measured P_{limit} for DSI = 3 (Hotspot Mode)- 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	18.00	18.10	18.17	0	0
	1	25	18.22	18.37	18.30		0
	1	49	17.98	18.16	18.13		0
	25	0	18.26	18.34	18.31	0-1	0
	25	12	18.37	18.42	18.50		0
	25	25	18.21	18.35	18.37		0
	50	0	18.32	18.27	18.24		0
16QAM	1	0	18.71	18.47	18.68	0-1	0
	1	25	18.81	18.80	18.74		0
	1	49	18.67	18.55	18.69		0
	25	0	18.66	18.33	18.68	0-2	0
	25	12	18.73	18.52	18.62		0
	25	25	18.61	18.42	18.64		0
	50	0	18.53	18.46	18.59		0
64QAM	1	0	18.52	18.31	18.71	0-2	0
	1	25	18.42	18.54	18.63		0
	1	49	18.65	18.38	18.64		0
	25	0	18.62	18.50	18.67	0-3	0
	25	12	18.71	18.41	18.66		0
	25	25	18.64	18.52	18.68		0
	50	0	18.72	18.42	18.57		0
256QAM	1	0	18.49	18.25	18.53	0-5	0
	1	25	18.68	18.52	18.59		0
	1	49	18.57	18.57	18.52		0
	25	0	18.64	18.50	18.68		0
	25	12	18.74	18.54	18.72		0
	25	25	18.64	18.53	18.67		0
	50	0	18.63	18.49	18.69		0

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Table 9-26
LTE Band 66 (AWS) Measured P_{limit} for DSI = 1 (Phablet with grip sensor active), or and/or DSI = 4 (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	20.69	20.66	21.04	0	0
	1	50	20.77	21.01	21.01		0
	1	99	20.75	20.84	21.11		0
	50	0	20.94	20.72	21.06	0-1	0
	50	25	21.08	21.08	21.25		0
	50	50	21.00	21.16	21.16		0
	100	0	20.99	21.05	21.10		0
16QAM	1	0	21.13	21.01	21.39	0-1	0
	1	50	21.20	21.22	21.37		0
	1	99	21.06	21.20	21.39		0
	50	0	20.94	21.07	21.11	0-2	0
	50	25	21.16	21.16	21.26		0
	50	50	21.05	21.17	21.21		0
	100	0	21.04	21.03	21.22		0
64QAM	1	0	20.89	20.97	21.37	0-2	0
	1	50	21.20	21.24	21.39		0
	1	99	21.19	21.13	21.38		0
	50	0	21.02	21.01	21.09	0-3	0
	50	25	21.11	21.15	21.30		0
	50	50	21.04	21.16	21.22		0
	100	0	21.03	21.08	21.14		0
256QAM	1	0	18.82	18.86	19.00	0-5	1.4
	1	50	19.12	19.28	19.32		1.4
	1	99	19.03	19.16	19.20		1.4
	50	0	18.97	19.08	19.08		1.4
	50	25	19.10	19.12	19.29		1.4
	50	50	19.07	19.13	19.22		1.4
	100	0	19.11	19.06	19.23		1.4

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Table 9-27

LTE Band 66 (AWS) Measured P_{limit} for DSI = 1 (Phablet with grip sensor active), or and/or DSI = 4 (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	20.50	20.60	20.61	0	0
	1	25	20.74	20.93	20.87		0
	1	49	20.56	20.77	20.78		0
	25	0	20.81	20.87	20.99	0-1	0
	25	12	20.92	20.90	21.04		0
	25	25	20.79	20.91	21.01		0
	50	0	20.83	20.86	20.84		0
16QAM	1	0	20.89	21.03	20.90	0-1	0
	1	25	21.15	21.21	20.97		0
	1	49	20.91	21.09	20.90		0
	25	0	20.89	20.99	20.70	0-2	0
	25	12	20.98	20.97	20.92		0
	25	25	21.03	20.95	20.78		0
	50	0	20.98	20.89	20.75		0
64QAM	1	0	20.75	20.77	20.87	0-2	0
	1	25	21.20	21.14	20.90		0
	1	49	20.98	20.89	21.07		0
	25	0	20.67	20.64	20.68	0-3	0
	25	12	20.68	20.66	20.93		0
	25	25	20.85	20.69	20.72		0
	50	0	20.68	20.60	20.82		0
256QAM	1	0	19.04	18.79	18.64	0-5	1.4
	1	25	18.93	18.88	18.83		1.4
	1	49	18.96	18.81	18.71		1.4
	25	0	18.97	18.95	18.73		1.4
	25	12	18.96	19.02	18.81		1.4
	25	25	18.98	19.06	18.77		1.4
	50	0	18.90	18.57	18.76		1.4

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Table 9-28
LTE Band 25 (PCS) Measured P_{Max} for DSI = 0/1 (Body-worn, or Phablet with grip sensor inactive), or DSI = 2 (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	24.02	24.37	24.03	0	0
	1	50	24.04	24.10	23.92		0
	1	99	24.14	24.22	23.91		0
	50	0	23.24	23.35	23.08	0-1	1
	50	25	23.35	23.40	23.00		1
	50	50	23.36	23.04	22.90		1
	100	0	23.25	23.20	22.99		1
16QAM	1	0	23.71	23.88	23.52	0-1	1
	1	50	23.89	23.70	23.38		1
	1	99	23.81	23.64	23.33		1
	50	0	22.28	22.47	22.11	0-2	2
	50	25	22.37	22.45	22.10		2
	50	50	22.36	22.10	21.98		2
	100	0	22.37	22.24	21.97		2
64QAM	1	0	22.85	22.50	22.32	0-2	2
	1	50	22.43	22.00	22.38		2
	1	99	22.59	21.88	22.28		2
	50	0	21.26	21.53	21.18	0-3	3
	50	25	21.18	20.98	21.16		3
	50	50	21.38	20.99	21.00		3
	100	0	21.25	21.03	21.02		3
256QAM	1	0	19.02	19.11	18.88	0-5	5
	1	50	19.43	19.53	19.01		5
	1	99	19.31	19.22	18.70		5
	50	0	19.15	19.28	18.97		5
	50	25	19.39	19.45	19.11		5
	50	50	19.35	19.31	19.00		5
	100	0	19.34	19.27	18.99		5

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Table 9-29
LTE Band 25 (PCS) Measured P_{limit} for DSI = 3 (Hotspot Mode)- 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	17.95	18.04	17.77	0	0
	1	50	17.81	18.02	17.63		0
	1	99	18.09	18.45	17.60		0
	50	0	17.95	18.16	17.95	0-1	0
	50	25	18.03	18.48	17.82		0
	50	50	18.07	18.05	17.77		0
	100	0	17.94	18.05	17.78		0
16QAM	1	0	18.18	18.35	18.30	0-1	0
	1	50	18.30	18.46	18.17		0
	1	99	18.25	18.41	18.11		0
	50	0	17.88	18.20	17.87	0-2	0
	50	25	18.02	18.18	17.83		0
	50	50	18.00	18.01	17.68		0
	100	0	17.95	18.02	17.74		0
64QAM	1	0	18.11	18.37	18.12	0-2	0
	1	50	18.17	18.43	17.98		0
	1	99	18.29	18.26	17.95		0
	50	0	17.93	18.22	17.88	0-3	0
	50	25	18.02	18.24	17.83		0
	50	50	18.09	18.10	17.75		0
	100	0	18.03	17.97	17.74		0
256QAM	1	0	17.73	17.87	17.63	0-5	0
	1	50	18.14	18.27	17.96		0
	1	99	18.12	17.83	17.58		0
	50	0	17.79	18.04	17.70		0
	50	25	18.02	18.23	17.92		0
	50	50	17.94	18.07	17.73		0
	100	0	18.05	18.04	17.78		0

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Table 9-30
LTE Band 25 (PCS) Measured P_{limit} for DSI = 1 (Phablet with grip sensor active), or and/or DSI = 4 (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	21.10	21.50	21.08	0	0
	1	50	21.07	21.40	21.00		0
	1	99	21.16	21.35	20.99		0
	50	0	21.24	21.46	21.09	0-1	0
	50	25	21.38	21.49	21.02		0
	50	50	21.36	21.34	21.01		0
	100	0	21.25	21.27	20.99		0
16QAM	1	0	21.71	21.88	21.45	0-1	0
	1	50	21.73	21.90	21.40		0
	1	99	21.90	21.88	21.32		0
	50	0	21.30	21.40	21.08	0-2	0
	50	25	21.41	21.46	21.10		0
	50	50	21.40	21.40	20.97		0
	100	0	21.33	21.36	21.01		0
64QAM	1	0	21.88	21.62	21.37	0-2	0
	1	50	21.89	21.65	21.22		0
	1	99	21.90	21.61	21.20		0
	50	0	21.16	21.54	21.13	0-3	0
	50	25	21.15	20.90	21.10		0
	50	50	21.40	20.92	21.00		0
	100	0	21.27	20.96	21.04		0
256QAM	1	0	19.25	19.14	18.90	0-5	2
	1	50	19.36	19.61	19.02		2
	1	99	19.34	19.29	18.79		2
	50	0	19.19	19.35	19.01		2
	50	25	19.41	19.47	19.18		2
	50	50	19.37	19.34	18.94		2
	100	0	19.31	19.31	19.02		2

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9.4.3 LTE Band 30

Table 9-31

LTE Band 30 Measured P_{Max} for DSI = 0/1 (Body-worn, or Phablet with grip sensor inactive), or DSI = 2 (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	23.40	0	0
	1	25	23.30		0
	1	49	23.37		0
	25	0	22.45	0-1	1
	25	12	22.37		1
	25	25	22.20		1
	50	0	22.31		1
16QAM	1	0	22.68	0-1	1
	1	25	22.71		1
	1	49	22.57		1
	25	0	21.42	0-2	2
	25	12	21.36		2
	25	25	21.22		2
	50	0	21.26		2
64QAM	1	0	21.13	0-2	2
	1	25	21.64		2
	1	49	21.38		2
	25	0	19.86	0-3	3
	25	12	20.33		3
	25	25	20.25		3
	50	0	20.34		3
256QAM	1	0	18.35	0-5	5
	1	25	18.52		5
	1	49	18.26		5
	25	0	18.43		5
	25	12	18.40		5
	25	25	18.21		5
	50	0	18.31		5

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Table 9-32
LTE Band 30 Measured P_{limit} for DSI = 3 (Hotspot Mode) - 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	17.95	0	0
	1	25	17.80		0
	1	49	17.78		0
	25	0	17.85	0-1	0
	25	12	18.00		0
	25	25	17.71		0
	50	0	17.82		0
16QAM	1	0	18.36	0-1	0
	1	25	18.20		0
	1	49	18.07		0
	25	0	17.88	0-2	0
	25	12	17.84		0
	25	25	17.73		0
	50	0	17.80		0
64QAM	1	0	18.35	0-2	0
	1	25	18.07		0
	1	49	17.92		0
	25	0	17.94	0-3	0
	25	12	17.90		0
	25	25	17.75		0
	50	0	17.88		0
256QAM	1	0	17.95	0-5	0
	1	25	18.06		0
	1	49	17.74		0
	25	0	17.97		0
	25	12	17.91		0
	25	25	17.76		0
	50	0	17.79		0

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Table 9-33
LTE Band 30 Measured P_{limit} for DSI = 1 (Phablet with grip sensor active), or and/or DSI = 4 (Earjack active) - 20 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	21.29	0	0
	1	25	21.22		0
	1	49	21.26		0
	25	0	21.28	0-1	0
	25	12	21.38		0
	25	25	21.27		0
	50	0	21.28		0
16QAM	1	0	21.27	0-1	0
	1	25	21.44		0
	1	49	21.32		0
	25	0	21.41	0-2	0
	25	12	21.48		0
	25	25	21.36		0
	50	0	21.31		0
64QAM	1	0	21.34	0-2	0
	1	25	21.48		0
	1	49	21.50		0
	25	0	20.11	0-3	1
	25	12	20.38		1
	25	25	20.34		1
	50	0	20.30		1
256QAM	1	0	18.09	0-5	3
	1	25	18.18		3
	1	49	18.14		3
	25	0	18.45		3
	25	12	18.44		3
	25	25	18.40		3
	50	0	18.34		3

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9.4.4 LTE Band 7

Table 9-34

LTE Band 7 Measured P_{Max} for DSI = 0/1 (Body-worn, or Phablet with grip sensor inactive), or DSI = 2 (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	23.83	24.02	24.01	0	0
	1	50	23.83	23.89	23.89		0
	1	99	23.88	23.88	23.82		0
	50	0	22.85	22.94	23.00	0-1	1
	50	25	23.04	23.08	22.99		1
	50	50	22.97	22.97	22.91		1
	100	0	22.94	23.00	22.91		1
16QAM	1	0	23.13	23.18	23.23	0-1	1
	1	50	23.07	23.17	23.20		1
	1	99	23.05	23.20	23.17		1
	50	0	21.83	21.93	22.02	0-2	2
	50	25	22.00	22.10	22.02		2
	50	50	21.95	21.96	21.97		2
	100	0	21.97	22.00	22.00		2
64QAM	1	0	22.10	22.11	22.23	0-2	2
	1	50	22.15	22.15	22.27		2
	1	99	22.14	22.15	22.11		2
	50	0	20.83	20.95	21.03	0-3	3
	50	25	21.00	21.06	21.03		3
	50	50	21.00	20.98	20.96		3
	100	0	20.97	21.01	21.00		3
256QAM	1	0	18.66	18.92	18.97	0-5	5
	1	50	19.10	19.12	19.14		5
	1	99	18.86	18.97	18.66		5
	50	0	18.80	18.92	18.96		5
	50	25	19.00	19.07	19.01		5
	50	50	18.92	18.96	18.92		5
	100	0	18.91	19.04	18.89		5

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Table 9-35
LTE Band 7 Measured P_{limit} for DSI = 3 (Hotspot Mode) - 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	18.07	17.98	18.34	0	0
	1	50	18.10	17.95	18.06		0
	1	99	18.23	17.94	18.04		0
	50	0	18.02	17.97	18.10	0-1	0
	50	25	18.34	18.10	18.35		0
	50	50	18.14	18.00	18.07		0
	100	0	18.13	18.02	18.07		0
16QAM	1	0	18.47	18.35	18.50	0-1	0
	1	50	18.36	18.40	18.50		0
	1	99	18.33	18.45	18.49		0
	50	0	18.09	17.99	18.13	0-2	0
	50	25	18.27	18.14	18.18		0
	50	50	18.20	18.02	18.12		0
	100	0	18.17	18.10	18.09		0
64QAM	1	0	18.38	18.16	18.22	0-2	0
	1	50	18.42	18.16	18.19		0
	1	99	18.41	18.20	18.12		0
	50	0	18.12	18.20	18.21	0-3	0
	50	25	18.27	18.33	18.23		0
	50	50	18.23	18.23	18.17		0
	100	0	18.17	18.23	18.14		0
256QAM	1	0	17.98	18.14	18.04	0-5	0
	1	50	18.38	18.39	18.26		0
	1	99	18.13	18.20	17.92		0
	50	0	18.14	18.18	18.19		0
	50	25	18.33	18.34	18.21		0
	50	50	18.27	18.20	18.18		0
	100	0	18.25	18.19	18.15		0

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Table 9-36

LTE Band 7 Measured P_{limit} for DSI = 1 (Phablet with grip sensor active), or and/or DSI = 4 (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	20.78	21.01	20.93	0	0
	1	50	20.75	20.89	20.86		0
	1	99	20.73	20.91	20.79		0
	50	0	20.77	20.90	20.94	0-1	0
	50	25	20.95	21.05	20.95		0
	50	50	20.85	20.95	20.86		0
	100	0	20.86	21.00	20.89		0
16QAM	1	0	21.11	21.14	21.16	0-1	0
	1	50	21.00	21.10	21.16		0
	1	99	21.01	21.20	21.05		0
	50	0	20.74	20.87	20.97	0-2	0
	50	25	20.96	21.05	20.94		0
	50	50	20.85	20.96	20.86		0
	100	0	20.87	20.92	20.87		0
64QAM	1	0	21.05	21.11	21.21	0-2	0
	1	50	21.08	21.11	21.16		0
	1	99	21.12	21.16	21.13		0
	50	0	20.80	20.89	20.98	0-3	0
	50	25	20.97	21.04	20.96		0
	50	50	20.89	20.94	20.87		0
	100	0	20.85	20.97	20.86		0
256QAM	1	0	18.69	18.91	18.92	0-5	2
	1	50	19.00	19.09	19.10		2
	1	99	18.80	18.90	18.63		2
	50	0	18.77	18.87	18.93		2
	50	25	18.94	19.04	18.95		2
	50	50	18.87	18.89	18.84		2
	100	0	18.88	18.97	18.86		2

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9.4.5 LTE Band 48

Table 9-37

LTE Band 48 Measured P_{limit} for DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack Active) - 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	21.86	21.89	22.08	22.20	0	0
	1	50	21.98	21.97	22.30	22.00		0
	1	99	22.00	22.00	22.14	21.95		0
	50	0	21.92	21.93	22.04	22.07	0-1	0
	50	25	22.07	22.11	22.27	22.21		0
	50	50	21.97	21.97	22.04	22.00		0
	100	0	22.07	21.99	22.08	22.04		0
16QAM	1	0	21.51	21.94	22.19	21.70	0-1	0
	1	50	21.62	22.06	22.21	21.75		0
	1	99	21.59	22.01	22.14	21.63		0
	50	0	21.88	21.86	21.98	21.96	0-2	0
	50	25	22.02	22.01	22.14	22.04		0
	50	50	21.93	21.88	22.03	21.87		0
	100	0	21.87	21.96	22.03	21.97		0
64QAM	1	0	21.17	21.56	21.83	22.00	0-2	0
	1	50	21.23	21.72	21.90	22.02		0
	1	99	21.27	21.71	21.84	21.93		0
	50	0	20.85	20.77	20.92	20.95	0-3	1
	50	25	21.00	20.94	21.05	21.02		1
	50	50	20.90	20.80	20.95	20.86		1
	100	0	20.88	20.90	21.01	20.96		1
256QAM	1	0	18.42	18.51	18.52	18.71	0-5	3
	1	50	18.87	18.75	18.94	19.00		3
	1	99	18.63	18.41	18.56	18.56		3
	50	0	18.84	18.86	18.99	19.00		3
	50	25	18.97	19.01	19.12	19.08		3
	50	50	18.88	18.88	19.00	18.90		3
	100	0	18.83	18.90	19.02	18.88		3

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Table 9-38

LTE Band 48 Measured P_{limit} for DSI = 3 (Hotspot Mode), or DSI = 2 (Head) - 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	17.06	17.08	17.11	17.23	0	0
	1	50	17.09	17.10	17.21	17.20		0
	1	99	17.09	17.09	17.10	17.18		0
	50	0	17.10	17.08	17.21	17.22	0-1	0
	50	25	17.09	17.10	17.21	17.18		0
	50	50	17.11	17.12	17.21	17.20		0
	100	0	17.08	17.06	17.10	17.21		0
16QAM	1	0	17.08	17.09	17.22	17.16	0-1	0
	1	50	17.14	17.10	17.24	17.14		0
	1	99	17.10	17.11	17.21	17.18		0
	50	0	17.11	17.09	17.22	17.17	0-2	0
	50	25	17.11	17.09	17.21	17.17		0
	50	50	17.09	17.10	17.22	17.18		0
	100	0	17.10	17.07	17.22	17.17		0
64QAM	1	0	17.11	17.25	17.29	17.22	0-2	0
	1	50	17.10	17.28	17.29	17.19		0
	1	99	17.14	17.24	17.30	17.20		0
	50	0	17.12	17.23	17.29	17.21	0-3	0
	50	25	17.11	17.26	17.30	17.20		0
	50	50	17.13	17.25	17.28	17.21		0
	100	0	17.11	17.28	17.26	17.22		0
256QAM	1	0	16.64	17.26	17.09	17.10	0-5	0
	1	50	17.05	17.54	17.41	17.24		0
	1	99	17.00	17.22	17.06	16.87		0
	50	0	17.12	17.20	17.23	17.30		0
	50	25	17.24	17.36	17.39	17.30		0
	50	50	17.20	17.24	17.27	17.18		0
	100	0	17.15	17.28	17.24	17.24		0

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9.4.6 LTE Band 41

Table 9-39

LTE Band 41 PC3 Measured P_{Max} for DSI = 0/1 (Body-worn, or Phablet with grip sensor inactive), or DSI = 2 (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	24.33	24.26	24.04	24.32	24.12	0	0
	1	50	24.31	24.20	24.36	24.42	24.54		0
	1	99	24.29	24.25	24.11	24.13	24.40		0
	50	0	23.27	23.25	23.34	23.48	23.41	0-1	1
	50	25	23.45	23.41	23.48	23.53	23.54		1
	50	50	23.38	23.27	23.49	23.48	23.60		1
	100	0	23.38	23.31	23.37	23.45	23.47		1
16QAM	1	0	23.72	23.80	23.55	23.63	23.41	0-1	1
	1	50	23.67	23.77	23.89	23.85	23.78		1
	1	99	23.68	23.80	23.64	23.45	23.73		1
	50	0	22.22	22.25	22.37	22.46	22.33	0-2	2
	50	25	22.41	22.40	22.50	22.51	22.48		2
	50	50	22.35	22.29	22.52	22.45	22.54		2
	100	0	22.36	22.33	22.41	22.43	22.40		2
64QAM	1	0	22.58	21.97	22.34	22.46	22.28	0-2	2
	1	50	22.60	22.01	22.76	22.77	22.70		2
	1	99	22.62	22.03	22.48	22.35	22.61		2
	50	0	21.28	21.28	21.42	21.48	21.37	0-3	3
	50	25	21.46	21.40	21.51	21.54	21.49		3
	50	50	21.40	21.30	21.52	21.49	21.54		3
	100	0	21.40	21.35	21.44	21.42	21.43		3
256QAM	1	0	19.09	19.00	19.15	19.35	19.13	0-5	5
	1	50	19.43	19.33	19.55	19.61	19.52		5
	1	99	19.22	18.95	19.31	19.21	19.39		5
	50	0	19.29	19.28	19.43	19.48	19.37		5
	50	25	19.49	19.42	19.56	19.53	19.52		5
	50	50	19.42	19.28	19.55	19.48	19.56		5
	100	0	19.38	19.33	19.46	19.42	19.46		5

Table 9-40

LTE Band 41 PC2 Measured P_{Max} for DSI = 0/1 (Body-worn, or Phablet with grip sensor inactive), or DSI = 2 (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	26.84	26.88	26.69	26.70	26.51	0	0
	1	50	26.79	26.86	27.00	26.95	26.99		0
	1	99	26.80	26.90	26.80	26.52	26.81		0
	50	0	25.82	25.79	25.96	25.76	25.94	0-1	1
	50	25	25.58	25.95	25.87	25.99	25.99		1
	50	50	25.93	25.81	25.99	25.89	25.97		1
	100	0	25.91	25.85	25.99	25.99	25.87		1

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Table 9-41
LTE Band 41 PC3 Measured P_{limit} for DSI = 3 (Hotspot Mode) - 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	20.35	20.30	19.99	19.96	19.90	0	0
	1	50	20.40	20.25	20.25	20.15	19.80		0
	1	99	20.39	20.23	20.03	19.82	20.21		0
	50	0	20.32	20.24	20.30	20.18	20.13	0-1	0
	50	25	20.48	20.36	20.32	20.22	20.21		0
	50	50	20.46	20.28	20.36	20.20	20.24		0
	100	0	20.34	20.28	20.29	20.18	20.23		0
16QAM	1	0	20.32	20.31	19.85	20.02	19.70	0-1	0
	1	50	20.35	20.27	20.32	20.26	19.93		0
	1	99	20.34	20.25	20.07	19.86	20.11		0
	50	0	20.32	20.20	20.21	20.25	20.21	0-2	0
	50	25	20.31	20.29	20.21	20.32	20.26		0
	50	50	20.38	20.23	20.34	20.24	20.19		0
	100	0	20.40	20.26	20.26	20.24	20.24		0
64QAM	1	0	20.21	20.02	19.74	19.81	19.90	0-2	0
	1	50	20.15	20.00	20.02	19.75	19.82		0
	1	99	20.14	20.02	19.89	20.05	20.18		0
	50	0	20.32	20.12	20.24	20.26	20.25	0-3	0
	50	25	20.40	20.24	20.26	20.33	20.27		0
	50	50	20.38	20.28	20.37	20.28	20.35		0
	100	0	20.37	20.25	20.28	20.23	20.28		0
256QAM	1	0	19.58	19.50	19.50	19.62	19.38	0-5	0
	1	50	19.72	19.75	19.85	19.56	19.76		0
	1	99	19.71	19.44	19.65	19.42	19.77		0
	50	0	19.80	19.70	19.77	19.66	19.65		0
	50	25	19.80	19.82	19.88	19.80	19.60		0
	50	50	19.95	19.75	19.90	19.85	19.78		0
	100	0	19.92	19.77	19.83	19.77	19.69		0

Table 9-42
LTE Band 41 PC2 Measured P_{limit} for DSI = 3 (Hotspot Mode) - 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	22.10	22.06	21.80	21.90	21.65	0	0
	1	50	22.05	22.07	21.99	22.01	21.91		0
	1	99	22.04	22.00	21.86	21.82	21.98		0
	50	0	22.09	22.04	22.00	22.00	21.95	0-1	0
	50	25	22.10	22.09	22.04	22.08	21.87		0
	50	50	22.09	22.04	22.10	22.04	22.02		0
	100	0	22.09	22.06	22.08	21.97	21.95		0

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Table 9-43

LTE Band 41 PC3 Measured P_{Limit} DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (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	23.31	23.37	23.18	23.08	22.93	0	0
	1	50	23.30	23.40	23.42	23.25	23.28		0
	1	99	23.27	23.38	23.16	22.95	23.24		0
	50	0	23.32	23.33	23.35	23.32	23.14	0-1	0
	50	25	23.44	23.34	23.45	23.39	23.26		0
	50	50	23.43	23.38	23.44	23.32	23.34		0
	100	0	23.39	23.35	23.34	23.26	23.22		0
16QAM	1	0	23.52	23.39	23.35	23.30	22.72	0-1	0
	1	50	23.54	23.35	23.68	23.40	23.11		0
	1	99	23.48	23.34	23.44	23.07	23.01		0
	50	0	22.92	22.77	22.69	22.74	22.65	0-2	0.5
	50	25	23.07	22.88	22.75	23.03	22.79		0.5
	50	50	23.01	22.77	22.76	23.10	22.81		0.5
	100	0	22.96	22.73	22.63	22.99	22.73		0.5
64QAM	1	0	22.70	22.66	22.25	22.73	22.37	0-2	0.5
	1	50	22.65	22.49	22.42	22.85	22.82		0.5
	1	99	22.65	22.49	22.22	22.69	22.73		0.5
	50	0	21.90	21.75	21.67	22.05	21.77	0-3	1.5
	50	25	21.89	21.95	21.82	22.09	21.79		1.5
	50	50	21.99	21.92	21.80	22.07	21.81		1.5
	100	0	21.93	21.95	21.66	21.89	21.72		1.5
256QAM	1	0	19.67	19.70	19.50	20.03	19.35	0-5	3.5
	1	50	19.90	20.01	19.78	20.18	19.79		3.5
	1	99	19.70	19.60	19.55	19.84	19.65		3.5
	50	0	19.83	19.84	19.66	20.06	19.51		3.5
	50	25	20.01	19.94	19.77	20.09	19.64		3.5
	50	50	19.95	19.85	19.78	20.03	19.62		3.5
	100	0	19.93	19.82	19.65	19.30	19.70		3.5

Table 9-44

LTE Band 41 PC2 Measured P_{Limit} DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (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	25.20	25.09	24.78	24.93	24.70	0	0
	1	50	25.18	25.04	25.13	25.12	25.00		0
	1	99	25.14	25.03	24.91	24.70	24.90		0
	50	0	25.09	25.00	25.08	25.06	24.99	0-1	0
	50	25	25.25	25.14	25.16	25.11	25.08		0
	50	50	25.21	25.02	25.18	25.10	25.10		0
	100	0	25.18	25.03	25.07	25.05	25.04		0

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9.4.7 LTE Uplink Carrier Aggregation Conducted Powers

Table 9-45
LTE Uplink Carrier Aggregation Measured P_{Max}

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_5B	LTE B5	10	20525	836.5	2525	881.5	QPSK	1	49	LTE B5	5	20597	843.7	2597	888.7	QPSK	1	0	23.90	23.67	
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	132322	1745.0	66786	2145.0	QPSK	1	99	LTE B66	20	132520	1764.8	66984	2164.8	QPSK	1	0	23.65	23.70	
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	24.31	23.82	
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	24.01	23.72	
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	24.19	23.61	
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	24.85	24.12					
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	26.67	26.51					

Table 9-46
LTE Uplink Carrier Aggregation Measured P_{limit} for DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (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	50	50	LTE B48	20	56405	3666.5	QPSK	50	0	22.00	22.04

Table 9-47
LTE Uplink Carrier Aggregation P_{limit} for DSI = 3 (Hotspot Mode), or DSI = 2 (Head)

	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	56640	3690.0	QPSK	1	0	LTE B48	20	56442	3670.2	QPSK	1	99	17.21	17.23		
CA 48C	LTE B48	20	56640	3690.0	QPSK	50	0	LTE B48	20	56442	3670.2	QPSK	50	50	17.27	17.22		

Table 9-48
LTE Uplink Carrier Aggregation P_{limit} for DSI = 3 (Hotspot Mode)

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	49	LTE B5	5	20597	843.7	2597	888.7	QPSK	1	0	22.75	22.82

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Table 9-49

LTE Uplink Carrier Aggregation P_{limit} for DSI = 3 (Hotspot), or DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack Active) for LTE Band 66/41 Conducted Powers

	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	132322	1745.0	66786	2145.0	QPSK	50	50	LTE B66	20	132520	1764.8	66984	2164.8	QPSK	50	0	18.25	18.45
CA_66B	LTE B66	10	132322	1745.0	66786	2145.0	QPSK	25	25	LTE B66	10	132421	1754.9	66885	2154.9	QPSK	25	0	18.30	18.35
	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	132072	1720.0	66536	2120.0	QPSK	1	99	LTE B66	20	132270	1739.8	66734	2139.8	QPSK	1	0	20.84	20.75
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	20.97	20.84
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	20.80	21.04
CA_66B	LTE B66	10	132022	1715.0	66486	2115.0	QPSK	1	49	LTE B66	10	132121	1724.9	66585	2124.9	QPSK	1	0	20.73	20.56
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	21.08	20.77
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	20.83	20.61
	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	50	0	LTE B41	20	41292	2660.2	QPSK	50	50	23.21		23.14			
	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	50	0	LTE B41 PC2	20	41292	2660.2	QPSK	50	50	25.09		24.99			
	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	41055	2636.5	QPSK	1	0	LTE B41	20	40857	2616.7	QPSK	1	99	20.20		19.96			
	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	41055	2636.5	QPSK	1	0	LTE B41 PC2	20	40857	2616.7	QPSK	1	99	22.09		21.90			

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9.5 NR Conducted Powers

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 9-50

NR Band n71 Measured P_{Max} for DSI = 0/1 (Body-worn, or Phablet with grip sensor inactive), or DSI = 2 (Head) - 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	24.33	0	0.0
	1	53	24.16		0.0
	1	104	24.06		0.0
	50	0	23.82	0-0.5	0.5
	50	28	24.20	0	0.0
	50	56	23.56	0-0.5	0.5
	100	0	23.74		0.5
DFT-s-OFDM QPSK	1	1	24.19	0	0.0
	1	53	24.03		0.0
	1	104	23.92		0.0
	50	0	23.35	0-1	1.0
	50	28	24.22	0	0.0
	50	56	23.03	0-1	1.0
	100	0	23.16		1.0
DFT-s-OFDM 16QAM	1	1	23.32	0-1	1.0
CP-OFDM QPSK	1	1	23.21	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.

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Table 9-51
NR Band n71 Measured P_{limit} for DSI = 3 (Hotspot Mode) - 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	22.92	0	0.0
	1	53	22.73		0.0
	1	104	22.58		0.0
	50	0	22.96	0-0.5	0.0
	50	28	22.78	0	0.0
	50	56	22.59		0.0
	100	0	22.78		0.0
DFT-s-OFDM QPSK	1	1	22.75	0	0.0
	1	53	22.64		0.0
	1	104	22.52		0.0
	50	0	22.91	0-1	0.0
	50	28	22.69	0	0.0
	50	56	22.59		0.0
	100	0	22.72		0.0
DFT-s-OFDM 16QAM	1	1	22.73	0-1	0.0
CP-OFDM QPSK	1	1	22.90	0-1.5	0.0

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.

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9.5.1 NR Band n12

Table 9-52
NR Band n12 Measured P_{Max} for DSI = 0/1 (Body-worn, or Phablet with grip sensor inactive), or DSI = 2 (Head) - 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	24.08	0	0.0
	1	40	24.11		0.0
	1	77	23.92		0.0
	36	0	23.58	0-0.5	0.5
	36	22	24.00	0	0.0
	36	43	23.46	0-0.5	0.5
	75	0	23.58		0.5
DFT-s-OFDM QPSK	1	1	23.95	0	0.0
	1	40	23.92		0.0
	1	77	23.80		0.0
	36	0	23.11	0-1	1.0
	36	22	24.03	0	0.0
	36	43	22.94	0-1	1.0
	75	0	23.11		1.0
DFT-s-OFDM 16QAM	1	1	23.10	0-1	1.0
CP-OFDM QPSK	1	1	23.12	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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Table 9-53
NR Band n12 Measured P_{limit} for DSI = 3 (Hotspot Mode) - 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	22.69	0	0.0
	1	40	22.63		0.0
	1	77	22.51		0.0
	36	0	22.64	0-0.5	0.0
	36	22	22.53	0	0.0
	36	43	22.50	0-0.5	0.0
	75	0	22.59		0.0
DFT-s-OFDM QPSK	1	1	22.54	0	0.0
	1	40	22.52		0.0
	1	77	22.34		0.0
	36	0	22.58	0-1	0.0
	36	22	22.53	0	0.0
	36	43	22.52	0-1	0.0
	75	0	22.53		0.0
DFT-s-OFDM 16QAM	1	1	22.61	0-1	0.0
CP-OFDM QPSK	1	1	23.14	0-1.5	0.0

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 9-54

NR Band n5 Measured P_{Max} for DSI = 0/1 (Body-worn, or Phablet with grip sensor inactive), or DSI = 2 (Head) - 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	23.72	0	0.0
	1	53	23.76		0.0
	1	104	23.77		0.0
	50	0	23.31	0-0.5	0.5
	50	28	23.81	0	0.0
	50	56	23.36		0.5
	100	0	23.38		0.5
DFT-s-OFDM QPSK	1	1	23.68	0	0.0
	1	53	23.80		0.0
	1	104	23.61		0.0
	50	0	22.76	0-1	1.0
	50	28	23.84	0	0.0
	50	56	22.95		1.0
	100	0	22.83		1.0
DFT-s-OFDM 16QAM	1	1	22.75	0-1	1.0
CP-OFDM QPSK	1	1	22.62	0-1.5	1.5

Note: NR Band n5 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.

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Table 9-55
NR Band n5 Measured P_{limit} for DSI = 3 (Hotspot Mode) - 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	22.78	0	0.0
	1	53	22.89		0.0
	1	104	22.80		0.0
	50	0	22.77	0-0.5	0.0
	50	28	22.88	0	0.0
	50	56	22.88		0.0
	100	0	22.83		0.0
DFT-s-OFDM QPSK	1	1	22.68	0	0.0
	1	53	22.82		0.0
	1	104	22.66		0.0
	50	0	22.79	0-1	0.0
	50	28	22.92	0	0.0
	50	56	22.96		0.0
	100	0	22.79		0.0
DFT-s-OFDM 16QAM	1	1	22.73	0-1	0.0
CP-OFDM QPSK	1	1	22.55	0-1.5	0.2

Note: NR Band n5 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.

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9.5.3 NR Band n66

Table 9-56

NR Band n66 Ant A Measured P_{Max} for DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 2 (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	23.66	0	0.0
	1	108	23.90		0.0
	1	214	23.95		0.0
	108	0	23.31	0-0.5	0.5
	108	54	23.91	0	0.0
	108	108	23.53	0-0.5	0.5
	216	0	23.38		0.5
DFT-s-OFDM QPSK	1	1	23.69	0	0.0
	1	108	23.62		0.0
	1	214	23.90		0.0
	108	0	22.85	0-1	1.0
	108	54	23.85	0	0.0
	108	108	22.80	0-1	1.0
	216	0	22.82		1.0
DFT-s-OFDM 16QAM	1	1	22.43	0-1	1.0
CP-OFDM QPSK	1	1	22.22	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 9-57
NR Band n66 Ant A Measured P_{limit} for DSI = 3 (Hotspot Mode) - 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	17.72	0	0.0
	1	108	17.84		0.0
	1	214	18.00		0.0
	108	0	17.90	0-0.5	0.0
	108	54	17.93	0	0.0
	108	108	18.07		0.0
	216	0	17.94		0.0
DFT-s-OFDM QPSK	1	1	17.81	0	0.0
	1	108	17.93		0.0
	1	214	18.08		0.0
	108	0	17.95	0-1	0.0
	108	54	17.99	0	0.0
	108	108	18.05		0.0
	216	0	17.99		0.0
DFT-s-OFDM 16QAM	1	1	17.96	0-1	0.0
CP-OFDM QPSK	1	1	17.91	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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Table 9-58
NR Band n66 Ant A Measured P_{limit} for DSI = 1 (Phablet with grip sensor active), or and/or DSI = 4 (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	19.74	0	0.0
	1	108	19.88		0.0
	1	214	19.94		0.0
	108	0	19.85	0-0.5	0.0
	108	54	19.91	0	0.0
	108	108	20.08	0-0.5	0.0
	216	0	19.93		0.0
DFT-s-OFDM QPSK	1	1	19.71	0	0.0
	1	108	19.90		0.0
	1	214	19.98		0.0
	108	0	19.91	0-1	0.0
	108	54	19.97	0	0.0
	108	108	20.02	0-1	0.0
	216	0	19.97		0.0
DFT-s-OFDM 16QAM	1	1	19.87	0-1	0.0
CP-OFDM QPSK	1	1	19.75	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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Table 9-59

NR Band n66 Ant I Measured P_{limit} for DSI = 0 (Body-worn, or Phablet with grip sensor active), or and/or DSI = 4 (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	21.41	0	0.0
	1	108	21.37		0.0
	1	214	21.14		0.0
	108	0	21.56	0-0.5	0.0
	108	54	21.48	0	0.0
	108	108	21.45	0-0.5	0.0
	216	0	21.60		0.0
DFT-s-OFDM QPSK	1	1	21.63	0	0.0
	1	108	21.56		0.0
	1	214	21.28		0.0
	108	0	21.65	0-1	0.0
	108	54	21.66	0	0.0
	108	108	21.55	0-1	0.0
	216	0	21.52		0.0
DFT-s-OFDM 16QAM	1	1	21.45	0-1	0.0
CP-OFDM QPSK	1	1	21.62	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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Table 9-60
NR Band n66 Ant I Measured P_{limit} DSI = 2 (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	17.09	0	0.0
	1	108	16.99		0.0
	1	214	16.77		0.0
	108	0	17.02	0-0.5	0.0
	108	54	16.94	0	0.0
	108	108	16.92		0.0
	216	0	16.96		0.0
DFT-s-OFDM QPSK	1	1	16.99	0	0.0
	1	108	16.88		0.0
	1	214	16.73		0.0
	108	0	17.06	0-1	0.0
	108	54	16.97	0	0.0
	108	108	16.93		0.0
	216	0	16.98		0.0
DFT-s-OFDM 16QAM	1	1	16.70	0-1	0.0
CP-OFDM QPSK	1	1	17.02	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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Table 9-61
NR Band n66 Ant I Measured P_{limit} for DSI = 3 (Hotspot Mode) - 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	18.76	0	0.0
	1	108	18.59		0.0
	1	214	18.49		0.0
	108	0	18.73	0-0.5	0.0
	108	54	18.67	0	0.0
	108	108	18.63		0.0
	216	0	18.71		0.0
DFT-s-OFDM QPSK	1	1	18.62	0	0.0
	1	108	18.58		0.0
	1	214	18.46		0.0
	108	0	18.67	0-1	0.0
	108	54	18.59	0	0.0
	108	108	18.60		0.0
	216	0	18.59		0.0
DFT-s-OFDM 16QAM	1	1	18.51	0-1	0.0
CP-OFDM QPSK	1	1	18.72	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 9-62

NR Band n25 Ant A Measured P_{Max} for DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 2 (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	23.36	0	0.0
	1	108	23.13		0.0
	1	214	23.39		0.0
	108	0	22.81	0-0.5	0.5
	108	54	23.26	0	0.0
	108	108	22.89	0-0.5	0.5
	216	0	22.99		0.5
DFT-s-OFDM QPSK	1	1	23.59	0	0.0
	1	108	23.04		0.0
	1	214	23.73		0.0
	108	0	22.51	0-1	1.0
	108	54	23.50	0	0.0
	108	108	22.63	0-1	1.0
	216	0	22.50		1.0
DFT-s-OFDM 16QAM	1	1	22.74	0-1	1.0
CP-OFDM QPSK	1	1	22.16	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

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Table 9-63
NR Band n25 Ant A Measured P_{limit} for DSI = 3 (Hotspot Mode) - 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	17.34	0	0.0
	1	108	17.17		0.0
	1	214	17.28		0.0
	108	0	17.22	0-0.5	0.0
	108	54	17.14	0	0.0
	108	108	17.16		0.0
	216	0	17.19		0.0
DFT-s-OFDM QPSK	1	1	17.63	0	0.0
	1	108	17.30		0.0
	1	214	17.29		0.0
	108	0	17.55	0-1	0.0
	108	54	17.19	0	0.0
	108	108	17.22		0.0
	216	0	17.49		0.0
DFT-s-OFDM 16QAM	1	1	17.18	0-1	0.0
CP-OFDM QPSK	1	1	17.54	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 9-64
NR Band n25 Ant A Measured P_{limit} for DSI = 1 (Phablet with grip sensor active), and/or DSI = 4 (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	21.55	0	0.0
	1	108	21.36		0.0
	1	214	21.53		0.0
	108	0	21.34	0-0.5	0.0
	108	54	21.23	0	0.0
	108	108	21.29	0-0.5	0.0
	216	0	21.32		0.0
DFT-s-OFDM QPSK	1	1	21.59	0	0.0
	1	108	21.32		0.0
	1	214	21.48		0.0
	108	0	21.40	0-1	0.0
	108	54	21.29	0	0.0
	108	108	21.33	0-1	0.0
	216	0	21.39		0.0
DFT-s-OFDM 16QAM	1	1	21.27	0-1	0.0
CP-OFDM QPSK	1	1	21.49	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 9-65
NR Band n25 Ant I Measured P_{limit} for DSI = 0/1 (Body-worn, or Phablet with grip sensor inactive) - 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	24.22	0	0.0
	1	108	24.21		0.0
	1	214	24.43		0.0
	108	0	23.74	0-0.5	0.5
	108	54	24.25	0	0.0
	108	108	23.74	0-0.5	0.5
	216	0	23.83		0.5
DFT-s-OFDM QPSK	1	1	24.39	0	0.0
	1	108	24.27		0.0
	1	214	24.49		0.0
	108	0	23.38	0-1	1.0
	108	54	24.35	0	0.0
	108	108	23.37	0-1	1.0
	216	0	23.45		1.0
DFT-s-OFDM 16QAM	1	1	23.49	0-1	1.0
CP-OFDM QPSK	1	1	22.99	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

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Table 9-66

NR Band n25 Ant I Measured P_{limit} for DSI = 3 (Hotspot Mode), and/or DSI = 2 (Head) - 20 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	18.87	0	0.0
	1	108	18.91		0.0
	1	214	19.00		0.0
	108	0	19.00	0-0.5	0.0
	108	54	18.98	0	0.0
	108	108	18.98		0.0
	216	0	19.00		0.0
DFT-s-OFDM QPSK	1	1	18.95	0	0.0
	1	108	18.85		0.0
	1	214	19.00		0.0
	108	0	18.90	0-1	0.0
	108	54	18.97	0	0.0
	108	108	18.95		0.0
	216	0	18.96		0.0
DFT-s-OFDM 16QAM	1	1	18.79	0-1	0.0
CP-OFDM QPSK	1	1	18.82	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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9.5.1 NR Band n30

Table 9-67

NR Band n30 Measured P_{Max} for DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 2 (Head) - 10MHz 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	22.38	0	0.0
	1	26	22.62		0.0
	1	50	22.48		0.0
	25	0	22.00	0-0.5	0.5
	25	14	22.50	0	0.0
	25	27	22.08	0-0.5	0.5
	50	0	22.01		0.5
DFT-s-OFDM QPSK	1	1	22.65	0	0.0
	1	26	22.73		0.0
	1	50	22.49		0.0
	25	0	21.54	0-1	1.0
	25	14	22.46	0	0.0
	25	27	21.71	0-1	1.0
	50	0	21.58		1.0
DFT-s-OFDM 16QAM	1	1	21.54	0-1	1.0
CP-OFDM QPSK	1	1	21.15	0-1.5	1.5

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Table 9-68
NR Band n30 Measured P_{limit} for DSI = 3 (Hotspot Mode) - 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	17.90	0	0.0
	1	26	17.87		0.0
	1	50	17.81		0.0
	25	0	17.78	0-0.5	0.0
	25	14	17.79	0	0.0
	25	27	17.84		0.0
	50	0	17.78		0.0
DFT-s-OFDM QPSK	1	1	17.76	0	0.0
	1	26	18.00		0.0
	1	50	17.80		0.0
	25	0	17.78	0-1	0.0
	25	14	17.83	0	0.0
	25	27	18.00		0.0
	50	0	17.90		0.0
DFT-s-OFDM 16QAM	1	1	17.88	0-1	0.0
CP-OFDM QPSK	1	1	17.92	0-1.5	0.0

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Table 9-69
NR Band n30 Measured P_{limit} for DSI = 1 (Phablet with grip sensor active), and/or DSI = 4 (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	21.17	0	0.0
	1	26	21.31		0.0
	1	50	21.18		0.0
	25	0	21.28	0-0.5	0.0
	25	14	21.38	0	0.0
	25	27	21.42	0-0.5	0.0
	50	0	21.40		0.0
DFT-s-OFDM QPSK	1	1	21.37	0	0.0
	1	26	21.46		0.0
	1	50	21.27		0.0
	25	0	21.34	0-1	0.0
	25	14	21.39	0	0.0
	25	27	21.37	0-1	0.0
	50	0	21.38		0.0
DFT-s-OFDM 16QAM	1	1	21.22	0-1	0.0
CP-OFDM QPSK	1	1	21.21	0-1.5	0.0

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9.5.1 NR Band n41

Table 9-70

NR Band n41 Measured P_{limit} for DSI = 0/1 (Body-worn, or Phablet with grip sensor inactive), or and/or DSI = 4 (Earjack active) - 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	21.40	0	0.0
	1	137	21.51		0.0
	1	271	21.01		0.0
	135	0	21.58	0-0.5	0.0
	135	69	21.54	0	0.0
	135	138	21.36	0-0.5	0.0
	270	0	21.48		0.0
DFT-s-OFDM QPSK	1	1	21.43	0	0.0
	1	137	21.55		0.0
	1	271	20.97		0.0
	135	0	21.61	0-1	0.0
	135	69	21.52	0	0.0
	135	138	20.68	0-1	0.0
	270	0	21.48		0.0
DFT-s-OFDM 16QAM	1	1	21.65	0-1	0.0
CP-OFDM QPSK	1	1	21.05	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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Table 9-71
NR Band n41 Measured P_{limit} for DSI = 2 (Head) - 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	15.51	0	0.0
	1	137	15.45		0.0
	1	271	15.09		0.0
	135	0	15.58	0-0.5	0.0
	135	69	15.42	0	0.0
	135	138	15.34	0-0.5	0.0
	270	0	15.46		0.0
DFT-s-OFDM QPSK	1	1	15.52	0	0.0
	1	137	15.50		0.0
	1	271	15.14		0.0
	135	0	15.49	0-1	0.0
	135	69	15.48	0	0.0
	135	138	15.35	0-1	0.0
	270	0	15.48		0.0
DFT-s-OFDM 16QAM	1	1	15.55	0-1	0.0
CP-OFDM QPSK	1	1	15.51	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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Table 9-72
NR Band n41 Measured P_{limit} for DSI = 3 (Hotspot Mode) - 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	19.43	0	0.0
	1	137	19.43		0.0
	1	271	19.04		0.0
	135	0	19.52	0-0.5	0.0
	135	69	19.46	0	0.0
	135	138	19.31	0-0.5	0.0
	270	0	19.45		0.0
DFT-s-OFDM QPSK	1	1	19.50	0	0.0
	1	137	19.65		0.0
	1	271	19.11		0.0
	135	0	19.64	0-1	0.0
	135	69	19.45	0	0.0
	135	138	19.35	0-1	0.0
	270	0	19.57		0.0
DFT-s-OFDM 16QAM	1	1	19.31	0-1	0.0
CP-OFDM QPSK	1	1	19.57	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 DoD

Table 9-73

NR Band n77 DoD Ant F Measured P_{limit} for DSI = 0/1 (Body-worn, or Phablet with grip sensor active), or and/or DSI = 4 (Earjack active) - 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	18.52	0	0.0
	1	137	18.65		0.0
	1	271	18.57		0.0
	135	0	18.61	0-0.5	0.0
	135	69	18.68	0	0.0
	135	138	18.58	0-0.5	0.0
	270	0	18.67		0.0
DFT-s-OFDM QPSK	1	1	18.67	0	0.0
	1	137	18.77		0.0
	1	271	18.72		0.0
	135	0	18.61	0-1	0.0
	135	69	18.67	0	0.0
	135	138	18.61	0-1	0.0
	270	0	18.66		0.0
DFT-s-OFDM 16QAM	1	1	18.70	0-1	0.0
CP-OFDM QPSK	1	1	18.66	0-1.5	0.0

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Table 9-74
NR Band n77 DoD Ant F Measured P_{limit} for DSI = 2 (Head) -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	14.63	0	0.0
	1	137	14.77		0.0
	1	271	14.72		0.0
	135	0	14.74	0-0.5	0.0
	135	69	14.87	0	0.0
	135	138	14.82	0-0.5	0.0
	270	0	14.81		0.0
DFT-s-OFDM QPSK	1	1	14.65	0	0.0
	1	137	14.86		0.0
	1	271	14.74		0.0
	135	0	14.73	0-1	0.0
	135	69	14.82	0	0.0
	135	138	14.83	0-1	0.0
	270	0	14.82		0.0
DFT-s-OFDM 16QAM	1	1	14.86	0-1	0.0
CP-OFDM QPSK	1	1	14.73	0-1.5	0.0

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Table 9-75
NR Band n77 DoD Ant F Measured P_{limit} for DSI = 3 (Hotspot Mode) -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	17.40	0	0.0
	1	137	17.48		0.0
	1	271	17.31		0.0
	135	0	17.44	0-0.5	0.0
	135	69	17.46	0	0.0
	135	138	17.37	0-0.5	0.0
	270	0	17.39		0.0
DFT-s-OFDM QPSK	1	1	17.43	0	0.0
	1	137	17.44		0.0
	1	271	17.38		0.0
	135	0	17.38	0-1	0.0
	135	69	17.43	0	0.0
	135	138	17.33	0-1	0.0
	270	0	17.37		0.0
DFT-s-OFDM 16QAM	1	1	17.43	0-1	0.0
CP-OFDM QPSK	1	1	17.32	0-1.5	0.0

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Table 9-76

NR Band n77 DoD Ant I Measured P_{limit} for DSI = 0/1 (Body-worn, or Phablet with grip sensor active) or and/or DSI = 4 (Earjack active) - 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	16.35	0	0.0
	1	137	16.53		0.0
	1	271	16.45		0.0
	135	0	16.49	0-0.5	0.0
	135	69	16.60	0	0.0
	135	138	16.48	0-0.5	0.0
	270	0	16.54		0.0
DFT-s-OFDM QPSK	1	1	16.39	0	0.0
	1	137	16.58		0.0
	1	271	16.54		0.0
	135	0	16.47	0-1	0.0
	135	69	16.58	0	0.0
	135	138	16.49	0-1	0.0
	270	0	16.56		0.0
DFT-s-OFDM 16QAM	1	1	16.53	0-1	0.0
CP-OFDM QPSK	1	1	16.39	0-1.5	0.0

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Table 9-77
NR Band n77 DoD Ant I Measured P_{limit} for DSI = 2 (Head) -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	12.63	0	0.0
	1	137	12.92		0.0
	1	271	12.91		0.0
	135	0	12.77	0-0.5	0.0
	135	69	12.90	0	0.0
	135	138	12.93	0-0.5	0.0
	270	0	12.86		0.0
DFT-s-OFDM QPSK	1	1	12.55	0	0.0
	1	137	12.94		0.0
	1	271	12.89		0.0
	135	0	12.78	0-1	0.0
	135	69	12.98	0	0.0
	135	138	12.97	0-1	0.0
	270	0	12.90		0.0
DFT-s-OFDM 16QAM	1	1	12.88	0-1	0.0
CP-OFDM QPSK	1	1	12.51	0-1.5	0.0

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Table 9-78
NR Band n77 DoD Ant I Measured P_{limit} for DSI = 3 (Hotspot Mode) -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	15.36	0	0.0
	1	137	15.57		0.0
	1	271	15.53		0.0
	135	0	15.46	0-0.5	0.0
	135	69	15.58	0	0.0
	135	138	15.53	0-0.5	0.0
	270	0	15.51		0.0
DFT-s-OFDM QPSK	1	1	15.37	0	0.0
	1	137	15.57		0.0
	1	271	15.56		0.0
	135	0	15.48	0-1	0.0
	135	69	15.59	0	0.0
	135	138	15.53	0-1	0.0
	270	0	15.56		0.0
DFT-s-OFDM 16QAM	1	1	15.66	0-1	0.0
CP-OFDM QPSK	1	1	15.40	0-1.5	0.0

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Table 9-79
NR Band n77 DoD Ant E Measured P_{limit} for DSI = 0/1 (Body-worn, or Phablet with grip sensor active), or
and/or DSI = 4 (Earjack active) - 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	15.93	0	0.0
	1	137	15.97		0.0
	1	271	15.84		0.0
	135	0	15.99	0-0.5	0.0
	135	69	16.05	0	0.0
	135	138	15.89	0-0.5	0.0
	270	0	16.01		0.0
DFT-s-OFDM QPSK	1	1	15.98	0	0.0
	1	137	16.02		0.0
	1	271	15.98		0.0
	135	0	16.02	0-1	0.0
	135	69	16.04	0	0.0
	135	138	15.90	0-1	0.0
	270	0	16.01		0.0
DFT-s-OFDM 16QAM	1	1	16.03	0-1	0.0
CP-OFDM QPSK	1	1	15.96	0-1.5	0.0

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Table 9-80
NR Band n77 DoD Ant E Measured P_{limit} for DSI = 2 (Head) - 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	12.31	0	0.0
	1	137	12.43		0.0
	1	271	12.34		0.0
	135	0	12.42	0-0.5	0.0
	135	69	12.47	0	0.0
	135	138	12.47	0-0.5	0.0
	270	0	12.37		0.0
DFT-s-OFDM QPSK	1	1	12.35	0	0.0
	1	137	12.46		0.0
	1	271	12.33		0.0
	135	0	12.38	0-1	0.0
	135	69	12.44	0	0.0
	135	138	12.41	0-1	0.0
	270	0	12.43		0.0
DFT-s-OFDM 16QAM	1	1	12.44	0-1	0.0
CP-OFDM QPSK	1	1	12.31	0-1.5	0.0

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Table 9-81
NR Band n77 DoD Ant E Measured P_{limit} for DSI = 3 (Hotspot Mode) - 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	14.98	0	0.0
	1	137	15.01		0.0
	1	271	14.86		0.0
	135	0	14.97	0-0.5	0.0
	135	69	15.00	0	0.0
	135	138	14.94	0-0.5	0.0
	270	0	15.00		0.0
DFT-s-OFDM QPSK	1	1	14.97	0	0.0
	1	137	15.05		0.0
	1	271	14.90		0.0
	135	0	14.98	0-1	0.0
	135	69	15.06	0	0.0
	135	138	14.90	0-1	0.0
	270	0	14.99		0.0
DFT-s-OFDM 16QAM	1	1	15.04	0-1	0.0
CP-OFDM QPSK	1	1	15.02	0-1.5	0.0

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Table 9-82
NR Band n77 DoD Ant C Measured P_{limit} for DSI = 0/1 (Body-worn, or Phablet with grip sensor active), or
and/or DSI = 4 (Earjack active) - 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	12.96	0	0.0
	1	137	12.69		0.0
	1	271	12.21		0.0
	135	0	12.87	0-0.5	0.0
	135	69	12.76	0	0.0
	135	138	12.44	0-0.5	0.0
	270	0	12.74		0.0
DFT-s-OFDM QPSK	1	1	13.03	0	0.0
	1	137	12.74		0.0
	1	271	12.33		0.0
	135	0	12.87	0-1	0.0
	135	69	12.72	0	0.0
	135	138	12.45	0-1	0.0
	270	0	12.72		0.0
DFT-s-OFDM 16QAM	1	1	12.94	0-1	0.0
CP-OFDM QPSK	1	1	12.96	0-1.5	0.0

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Table 9-83
NR Band n77 DoD Ant C Measured P_{limit} for DSI = 2 (Head) -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	8.97	0	0.0
	1	137	9.20		0.0
	1	271	9.11		0.0
	135	0	9.10	0-0.5	0.0
	135	69	9.18	0	0.0
	135	138	9.17		0.0
	270	0	9.15		0.0
DFT-s-OFDM QPSK	1	1	9.00	0	0.0
	1	137	9.23		0.0
	1	271	9.21		0.0
	135	0	9.15	0-1	0.0
	135	69	9.22	0	0.0
	135	138	9.21		0.0
	270	0	9.20		0.0
DFT-s-OFDM 16QAM	1	1	9.16	0-1	0.0
CP-OFDM QPSK	1	1	8.94	0-1.5	0.0

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Table 9-84
NR Band n77 DoD Ant C Measured P_{limit} for DSI = 3 (Hotspot Mode) - 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	11.73	0	0.0
	1	137	11.73		0.0
	1	271	11.71		0.0
	135	0	11.74	0-0.5	0.0
	135	69	11.79	0	0.0
	135	138	11.72	0-0.5	0.0
	270	0	11.81		0.0
DFT-s-OFDM QPSK	1	1	11.78	0	0.0
	1	137	11.82		0.0
	1	271	11.79		0.0
	135	0	11.74	0-1	0.0
	135	69	11.78	0	0.0
	135	138	11.68	0-1	0.0
	270	0	11.77		0.0
DFT-s-OFDM 16QAM	1	1	11.78	0-1	0.0
CP-OFDM QPSK	1	1	11.70	0-1.5	0.0

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9.5.1 NR Band n77

Table 9-85

NR Band n77 Ant F Measured P_{limit} for DSI = 0/1 (Body-worn, or Phablet with grip sensor active), or and/or DSI = 4 (Earjack active) - 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	18.62	18.99	0	0.0
	1	137	18.88	19.14		0.0
	1	271	18.55	18.76		0.0
	135	0	18.77	19.16	0-0.5	0.0
	135	69	18.82	19.17	0	0.0
	135	138	18.74	19.04	0-0.5	0.0
	270	0	18.74	19.12		0.0
DFT-s-OFDM QPSK	1	1	18.74	19.19	0	0.0
	1	137	18.93	19.28		0.0
	1	271	18.65	18.91		0.0
	135	0	18.76	19.19	0-1	0.0
	135	69	18.86	19.15	0	0.0
	135	138	18.78	19.04	0-1	0.0
	270	0	18.78	19.14		0.0
DFT-s-OFDM 16QAM	1	1	18.71	19.19	0-1	0.0
CP-OFDM QPSK	1	1	18.71	19.17	0-1.5	0.0

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Table 9-86
NR Band n77 Ant F Measured P_{limit} for DSI = 2 (Head) -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	14.73	15.09	0	0.0
	1	137	15.07	15.38		0.0
	1	271	14.81	14.87		0.0
	135	0	14.90	15.22	0-0.5	0.0
	135	69	15.11	15.41	0	0.0
	135	138	15.05	15.15	0-0.5	0.0
	270	0	15.03	15.19		0.0
DFT-s-OFDM QPSK	1	1	14.90	15.07	0	0.0
	1	137	15.23	15.48		0.0
	1	271	14.87	14.92		0.0
	135	0	14.88	15.24	0-1	0.0
	135	69	15.30	15.36	0	0.0
	135	138	15.03	15.16	0-1	0.0
	270	0	15.03	15.21		0.0
DFT-s-OFDM 16QAM	1	1	15.08	15.24	0-1	0.0
CP-OFDM QPSK	1	1	14.79	15.09	0-1.5	0.0

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Table 9-87
NR Band n77 Ant F Measured P_{limit} for DSI = 3 (Hotspot Mode) -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	17.84	17.99	0	0.0
	1	137	17.74	17.90		0.0
	1	271	17.69	17.99		0.0
	135	0	17.66	17.96	0-0.5	0.0
	135	69	17.75	17.90	0	0.0
	135	138	17.60	17.75	0-0.5	0.0
	270	0	17.67	17.86		0.0
DFT-s-OFDM QPSK	1	1	18.30	17.84	0	0.0
	1	137	18.48	18.50		0.0
	1	271	18.31	17.64		0.0
	135	0	18.20	17.90	0-1	0.0
	135	69	18.45	18.47	0	0.0
	135	138	18.10	17.85	0-1	0.0
	270	0	18.13	18.34		0.0
DFT-s-OFDM 16QAM	1	1	18.10	17.88	0-1	0.0
CP-OFDM QPSK	1	1	18.20	18.24	0-1.5	0.0

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Table 9-88

NR Band n77 Ant I Measured P_{limit} for DSI = 0/1 (Body-worn, or Phablet with grip sensor active), or and/or DSI = 4 (Earjack active) - 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	16.66	16.59	0	0.0
	1	137	16.68	16.63		0.0
	1	271	16.38	16.26		0.0
	135	0	16.67	16.73	0-0.5	0.0
	135	69	16.71	16.66	0	0.0
	135	138	16.55	16.53	0-0.5	0.0
	270	0	16.66	16.61		0.0
DFT-s-OFDM QPSK	1	1	16.75	16.71	0	0.0
	1	137	16.76	16.75		0.0
	1	271	16.49	16.34		0.0
	135	0	16.77	16.70	0-1	0.0
	135	69	16.75	16.71	0	0.0
	135	138	16.55	16.47	0-1	0.0
	270	0	16.67	16.62		0.0
DFT-s-OFDM 16QAM	1	1	16.73	16.72	0-1	0.0
CP-OFDM QPSK	1	1	16.74	16.68	0-1.5	0.0

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Table 9-89
NR Band n77 Ant I Measured P_{limit} for DSI = 2 (Head) -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	12.75	12.83	0	0.0
	1	137	12.94	13.07		0.0
	1	271	12.67	12.61		0.0
	135	0	12.86	12.97	0-0.5	0.0
	135	69	12.98	13.06	0	0.0
	135	138	12.84	12.85	0-0.5	0.0
	270	0	12.88	12.91		0.0
DFT-s-OFDM QPSK	1	1	12.79	12.88	0	0.0
	1	137	13.04	13.12		0.0
	1	271	12.72	12.74		0.0
	135	0	12.85	12.97	0-1	0.0
	135	69	13.02	13.11	0	0.0
	135	138	12.89	12.84	0-1	0.0
	270	0	12.89	12.92		0.0
DFT-s-OFDM 16QAM	1	1	12.97	13.04	0-1	0.0
CP-OFDM QPSK	1	1	12.79	13.15	0-1.5	0.0

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Table 9-90
NR Band n77 Ant I Measured P_{limit} for DSI = 3 (Hotspot Mode) -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	15.54	15.53	0	0.0
	1	137	15.60	15.52		0.0
	1	271	15.30	15.20		0.0
	135	0	15.59	15.68	0-0.5	0.0
	135	69	15.62	15.63	0	0.0
	135	138	15.44	15.44	0-0.5	0.0
	270	0	15.55	15.57		0.0
DFT-s-OFDM QPSK	1	1	15.66	15.64	0	0.0
	1	137	15.60	15.63		0.0
	1	271	15.30	15.30		0.0
	135	0	15.68	15.65	0-1	0.0
	135	69	15.55	15.59	0	0.0
	135	138	15.42	15.44	0-1	0.0
	270	0	15.57	15.55		0.0
DFT-s-OFDM 16QAM	1	1	15.63	15.65	0-1	0.0
CP-OFDM QPSK	1	1	15.61	15.57	0-1.5	0.0

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Table 9-91

NR Band n77 Ant E Measured P_{limit} for DSI = 0/1 (Body-worn, or Phablet with grip sensor active), or and/or DSI = 4 (Earjack active) - 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	15.96	16.70	0	0.0
	1	137	16.17	16.85		0.0
	1	271	16.11	16.57		0.0
	135	0	16.08	16.96	0-0.5	0.0
	135	69	16.23	16.92	0	0.0
	135	138	16.16	16.74	0-0.5	0.0
	270	0	16.17	16.84		0.0
DFT-s-OFDM QPSK	1	1	16.10	16.88	0	0.0
	1	137	16.32	17.04		0.0
	1	271	16.16	16.62		0.0
	135	0	16.10	16.93	0-1	0.0
	135	69	16.25	16.89	0	0.0
	135	138	16.21	16.76	0-1	0.0
	270	0	16.22	16.84		0.0
DFT-s-OFDM 16QAM	1	1	16.23	16.89	0-1	0.0
CP-OFDM QPSK	1	1	16.14	16.89	0-1.5	0.0

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Table 9-92
NR Band n77 Ant E Measured P_{limit} for DSI = 2 (Head) - 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	12.26	13.15	0	0.0
	1	137	12.69	13.45		0.0
	1	271	12.62	13.01		0.0
	135	0	12.47	13.26	0-0.5	0.0
	135	69	12.72	13.43	0	0.0
	135	138	12.71	13.23	0-0.5	0.0
	270	0	12.64	13.27		0.0
DFT-s-OFDM QPSK	1	1	12.35	13.21	0	0.0
	1	137	12.76	13.43		0.0
	1	271	12.69	13.08		0.0
	135	0	12.45	13.35	0-1	0.0
	135	69	12.70	13.46	0	0.0
	135	138	12.70	13.27	0-1	0.0
	270	0	12.66	13.30		0.0
DFT-s-OFDM 16QAM	1	1	12.61	13.43	0-1	0.0
CP-OFDM QPSK	1	1	12.30	13.15	0-1.5	0.0

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Table 9-93
NR Band n77 Ant E Measured P_{limit} for DSI = 3 (Hotspot Mode) - 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	15.53	15.84	0	0.0
	1	137	15.34	15.78		0.0
	1	271	14.98	15.46		0.0
	135	0	14.99	15.82	0-0.5	0.0
	135	69	15.13	15.82	0	0.0
	135	138	15.32	15.64	0-0.5	0.0
	270	0	15.34	15.71		0.0
DFT-s-OFDM QPSK	1	1	15.55	15.74	0	0.0
	1	137	15.62	16.15		0.0
	1	271	15.55	15.49		0.0
	135	0	15.60	16.10	0-1	0.0
	135	69	15.59	15.75	0	0.0
	135	138	15.55	15.58	0-1	0.0
	270	0	15.61	15.82		0.0
DFT-s-OFDM 16QAM	1	1	15.06	15.75	0-1	0.0
CP-OFDM QPSK	1	1	14.89	15.90	0-1.5	0.0

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Table 9-94

NR Band n77 Ant C Measured P_{limit} for DSI = 0/1 (Body-worn, or Phablet with grip sensor active), or and/or DSI = 4 (Earjack active) - 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	12.70	12.82	0	0.0
	1	137	12.54	12.94		0.0
	1	271	12.03	12.11		0.0
	135	0	12.68	13.04	0-0.5	0.0
	135	69	12.54	12.96	0	0.0
	135	138	12.28	12.61	0-0.5	0.0
	270	0	12.53	12.82		0.0
DFT-s-OFDM QPSK	1	1	12.82	12.86	0	0.0
	1	137	12.63	13.01		0.0
	1	271	12.13	12.12		0.0
	135	0	12.78	13.00	0-1	0.0
	135	69	12.56	12.93	0	0.0
	135	138	12.28	12.55	0-1	0.0
	270	0	12.54	12.76		0.0
DFT-s-OFDM 16QAM	1	1	12.76	12.99	0-1	0.0
CP-OFDM QPSK	1	1	12.78	12.86	0-1.5	0.0

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Table 9-95
NR Band n77 Ant C Measured P_{limit} for DSI = 2 (Head) -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	8.89	9.52	0	0.0
	1	137	9.59	9.63		0.0
	1	271	9.43	8.75		0.0
	135	0	9.13	9.60	0-0.5	0.0
	135	69	9.48	9.62	0	0.0
	135	138	9.56	9.22	0-0.5	0.0
	270	0	9.36	9.47		0.0
DFT-s-OFDM QPSK	1	1	8.97	9.59	0	0.0
	1	137	9.56	9.75		0.0
	1	271	9.52	8.82		0.0
	135	0	9.16	9.64	0-1	0.0
	135	69	9.50	9.65	0	0.0
	135	138	9.59	9.24	0-1	0.0
	270	0	9.38	9.44		0.0
DFT-s-OFDM 16QAM	1	1	9.08	9.63	0-1	0.0
CP-OFDM QPSK	1	1	9.05	9.52	0-1.5	0.0

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Table 9-96
NR Band n77 Ant C Measured P_{limit} for DSI = 3 (Hotspot Mode) - 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	11.51	11.57	0	0.0
	1	137	11.44	11.70		0.0
	1	271	11.35	10.78		0.0
	135	0	11.51	11.67	0-0.5	0.0
	135	69	11.41	11.63	0	0.0
	135	138	11.38	11.22	0-0.5	0.0
	270	0	11.44	11.46		0.0
DFT-s-OFDM QPSK	1	1	11.49	11.53	0	0.0
	1	137	11.50	11.74		0.0
	1	271	11.51	10.75		0.0
	135	0	11.51	11.66	0-1	0.0
	135	69	11.40	11.65	0	0.0
	135	138	11.52	11.19	0-1	0.0
	270	0	11.41	11.46		0.0
DFT-s-OFDM 16QAM	1	1	11.49	11.69	0-1	0.0
CP-OFDM QPSK	1	1	11.52	11.63	0-1.5	0.0

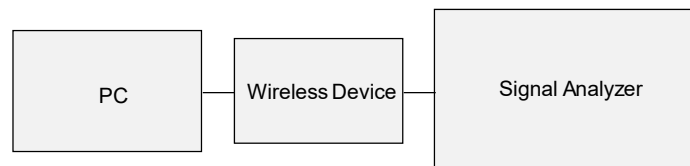


Figure 9-4
Power Measurement Setup

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9.6 WLAN Conducted Powers

Table 9-97
2.4 GHz WLAN Maximum Average RF Power – Ant 2, Q

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	18.77	17.88	17.65	17.81
2437	6	18.85	17.96	17.65	17.75
2462	11	18.95	17.77	17.54	17.61

Table 9-98
2.4 GHz WLAN Maximum Average RF Power – Ant 2, N

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	18.60	17.77	17.98	17.68
2437	6	18.85	17.93	17.71	17.83
2462	11	18.75	17.82	17.68	17.75

Table 9-99
2.4 GHz WLAN Maximum Average RF Power – MIMO, Q

2.4GHz 802.11b Conducted Power [dBm]				
Freq [MHz]	Channel	ANT1	ANT2	MIMO
2412	1	18.63	18.77	21.71
2437	6	18.80	18.85	21.84
2462	11	18.96	18.95	21.97

Table 9-100
2.4 GHz WLAN Maximum Average RF Power – MIMO, N

2.4GHz 802.11b Conducted Power [dBm]				
Freq [MHz]	Channel	ANT1	ANT2	MIMO
2412	1	18.85	18.69	21.78
2437	6	18.66	18.97	21.83
2462	11	18.72	18.90	21.82

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Table 9-101
5 GHz WLAN Maximum Average RF Power – Ant 1, Q

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	15.85	15.11	15.48	15.36
5200	40	17.59	17.62	17.72	17.64
5220	44	17.58	17.66	17.66	17.60
5240	48	17.52	17.48	17.52	17.42
5260	52	17.65	17.52	17.54	17.45
5280	56	17.65	17.50	17.54	17.50
5300	60	17.80	17.65	17.78	17.66
5320	64	17.54	16.62	16.95	16.94
5500	100	17.62	16.86	16.97	16.92
5600	120	17.80	17.69	17.52	17.57
5620	124	17.62	17.69	17.64	17.55
5720	144	17.72	17.59	17.60	17.57
5745	149	17.71	17.51	17.58	17.55
5785	157	17.84	17.67	17.80	17.63
5825	165	17.58	17.47	17.44	17.95

Table 9-102
5 GHz WLAN Maximum Average RF Power – Ant 1, N

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	16.17	15.47	15.41	15.22
5200	40	17.98	17.95	17.92	17.99
5220	44	17.99	17.98	17.98	17.98
5240	48	17.75	17.99	17.99	17.97
5260	52	17.98	17.97	17.93	17.96
5280	56	17.92	17.86	17.85	17.88
5300	60	17.89	17.85	17.87	17.86
5320	64	17.99	16.75	16.70	16.54
5500	100	17.96	16.67	16.65	16.99
5600	120	17.81	17.72	17.74	17.76
5620	124	17.98	17.95	17.97	17.98
5720	144	17.99	17.98	17.75	17.77
5745	149	17.91	17.89	17.92	17.94
5785	157	17.78	17.69	17.78	17.75
5825	165	17.96	17.97	17.98	17.99

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Table 9-103
5 GHz WLAN Maximum Average RF Power – MIMO, Q

5GHz (20MHz) 802.11n Conducted Power [dBm]				
Freq [MHz]	Channel	ANT1	ANT2	MIMO
5180	36	15.11	15.15	18.14
5200	40	17.62	17.91	20.78
5220	44	17.66	17.71	20.70
5240	48	17.48	17.64	20.57
5260	52	17.52	17.67	20.61
5280	56	17.50	17.84	20.68
5300	60	17.65	17.81	20.74
5320	64	16.62	16.92	19.78
5500	100	16.86	16.51	19.70
5520	104	17.64	17.62	20.64
5600	120	17.69	17.66	20.69
5620	124	17.69	17.56	20.64
5720	144	17.59	17.79	20.70
5745	149	17.51	17.98	20.76
5785	157	17.67	17.92	20.81
5825	165	17.47	17.54	20.52

Table 9-104
5 GHz WLAN Maximum Average RF Power – MIMO, N

5GHz (20MHz) 802.11n Conducted Power [dBm]				
Freq [MHz]	Channel	ANT1	ANT2	MIMO
5180	36	15.50	15.00	18.27
5200	40	17.98	17.57	20.79
5220	44	17.38	17.96	20.69
5240	48	17.45	17.96	20.72
5260	52	17.64	17.95	20.81
5280	56	17.95	17.21	20.61
5300	60	17.96	17.83	20.91
5320	64	16.19	16.94	19.59
5500	100	16.95	16.04	19.53
5520	104	17.64	17.55	20.61
5600	120	17.98	17.52	20.77
5620	124	17.99	17.91	20.96
5720	144	17.96	17.43	20.71
5745	149	17.98	17.73	20.87
5785	157	17.86	17.39	20.64
5825	165	17.04	17.99	20.55

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Table 9-105

2.4 GHz WLAN Reduced Average RF Power for conditions with RCV active or RCV active During Conditions with 5 GHz WLAN and/or with 5G NR (FR1)– Ant 2, Q

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	12.81	12.77	12.97	12.92
2437	6	12.97	12.91	12.71	12.76
2462	11	12.91	12.77	12.61	12.70

Table 9-106

2.4 GHz WLAN Reduced Average RF Power for conditions with RCV active or RCV active During Conditions with 5 GHz WLAN and/or with 5G NR (FR1) – Ant 2, N

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	12.94	12.98	12.71	12.66
2437	6	12.90	12.87	12.95	12.79
2462	11	12.62	12.93	12.90	12.74

Table 9-107

2.4 GHz WLAN Reduced Average RF Power during Conditions with 5GHz WLAN and/or with 5G NR - Ant 2, Q

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	14.80	14.65	14.99	14.65
2437	6	14.99	14.61	14.65	14.76
2462	11	14.85	14.73	14.92	14.76

Table 9-108

2.4 GHz WLAN Reduced Average RF Power during Conditions with 5GHz WLAN and/or with 5G NR Ant 2, N

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	14.99	14.56	14.69	14.87
2437	6	14.87	14.70	14.89	14.92
2462	11	14.86	14.65	14.73	14.86

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Table 9-109

2.4 GHz WLAN Reduced Average RF Power for Conditions with RCV active or RCV active During Conditions with 5 GHz WLAN and/or with 5G NR (FR2) – Ant 2, Q

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	10.68	10.99	10.80	10.66
2437	6	10.86	10.69	10.65	10.79
2462	11	10.60	10.88	10.71	10.74

Table 9-110

2.4 GHz WLAN Reduced Average RF Power for Conditions with RCV active or RCV active During Conditions with 5 GHz WLAN and/or with 5G NR (FR2) – Ant 2, N

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	10.74	10.44	10.54	10.66
2437	6	10.99	10.71	10.53	10.79
2462	11	10.91	10.76	10.83	10.74

Table 9-111

2.4 GHz WLAN Reduced Average RF Power for conditions with RCV active or RCV active During Conditions with 5 GHz WLAN and/or with 5G NR (FR1) – MIMO, Q

2.4GHz 802.11n Conducted Power [dBm]				
Freq [MHz]	Channel	ANT1	ANT2	MIMO
2412	1	12.90	12.97	15.95
2437	6	12.76	12.71	15.75
2462	11	12.76	12.71	15.75

Table 9-112

2.4 GHz WLAN Reduced Average RF Power for conditions with RCV active or RCV active During Conditions with 5 GHz WLAN and/or with 5G NR (FR1) – MIMO, N

2.4GHz 802.11n Conducted Power [dBm]				
Freq [MHz]	Channel	ANT1	ANT2	MIMO
2412	1	12.58	12.71	15.66
2437	6	12.60	12.95	15.79
2462	11	12.90	12.90	15.91

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Table 9-113

2.4 GHz WLAN Reduced Average RF Power for Conditions with RCV active or RCV active During Conditions with 5 GHz WLAN and/or with 5G NR (FR2) – MIMO, Q

2.4GHz 802.11n Conducted Power [dBm]				
Freq [MHz]	Channel	ANT1	ANT2	MIMO
2412	1	10.57	10.02	13.31
2437	6	10.95	9.53	13.31
2462	11	10.94	10.67	13.82

Table 9-114

2.4 GHz WLAN Reduced Average RF Power for Conditions with RCV active or RCV active During Conditions with 5 GHz WLAN and/or 5G NR (FR2) – MIMO, N

2.4GHz 802.11n Conducted Power [dBm]				
Freq [MHz]	Channel	ANT1	ANT2	MIMO
2412	1	10.22	10.54	13.39
2437	6	10.42	10.53	13.49
2462	11	10.08	10.83	13.48

Table 9-115

2.4 GHz WLAN Reduced Average RF Power during Conditions with 5GHz WLAN and/or with 5G NR – MIMO, Q

2.4GHz 802.11n Conducted Power [dBm]				
Freq [MHz]	Channel	ANT1	ANT2	MIMO
2412	1	14.64	14.99	17.83
2437	6	14.75	14.92	17.85
2462	11	14.63	14.65	17.65

Table 9-116

2.4 GHz WLAN Reduced Average RF Power NXP during Conditions with 5GHz WLAN and/or with 5G NR – MIMO, N

2.4GHz 802.11n Conducted Power [dBm]				
Freq [MHz]	Channel	ANT1	ANT2	MIMO
2412	1	14.63	14.69	17.67
2437	6	14.73	14.89	17.82
2462	11	14.89	14.73	17.82

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Table 9-117

5 GHz WLAN Reduced Average RF Power for Conditions with RCV active or RCV active During Conditions with 2.4 GHz WLAN and/or with 5G NR – Ant 1, Q

5GHz (80MHz) Conducted Power [dBm]			
Freq [MHz]	Channel	IEEE Transmission Mode	
		802.11ac	802.11ax
		Average	Average
5210	42	10.98	10.44
5290	58	10.79	10.66
5530	106	10.81	10.98
5610	122	10.74	10.94
5690	138	10.87	10.97
5775	155	10.85	10.88

Table 9-118

5 GHz WLAN Reduced Average RF Power for Conditions with RCV active or RCV active During Conditions with 2.4 GHz WLAN and/or 5G NR – Ant 1, N

5GHz (80MHz) Conducted Power [dBm]			
Freq [MHz]	Channel	IEEE Transmission Mode	
		802.11ac	802.11ax
		Average	Average
5210	42	10.91	10.09
5290	58	10.95	10.17
5530	106	10.80	10.55
5610	122	10.72	10.69
5690	138	10.82	10.55
5775	155	10.63	10.53

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Table 9-119
5 GHz WLAN Reduced Average RF Power during Conditions with 2.4 GHz WLAN and/or with 5G NR –
Ant 1, Q

5GHz (40MHz) Conducted Power [dBm]				
Freq [MHz]	Channel	IEEE Transmission Mode		
		802.11n	802.11ac	802.11ax
		Average	Average	Average
5190	38	13.52	13.41	13.45
5230	46	14.71	14.56	14.68
5270	54	14.74	14.65	14.75
5310	62	14.77	14.67	14.65

5GHz (80MHz) Conducted Power [dBm]			
Freq [MHz]	Channel	IEEE Transmission Mode	
		802.11ac	802.11ax
		Average	Average
5530	106	14.81	14.72
5610	122	14.68	14.75
5690	138	14.82	14.72
5775	155	14.55	14.59

Table 9-120
5 GHz WLAN Reduced Average RF Power f during Conditions with 2.4 GHz WLAN and/or with 5G NR –
Ant 1, N

5GHz (40MHz) Conducted Power [dBm]				
Freq [MHz]	Channel	IEEE Transmission Mode		
		802.11n	802.11ac	802.11ax
		Average	Average	Average
5190	38	13.34	13.43	13.30
5230	46	14.75	14.50	14.39
5270	54	14.96	14.65	14.39
5310	62	14.79	14.78	14.45

5GHz (80MHz) Conducted Power [dBm]			
Freq [MHz]	Channel	IEEE Transmission Mode	
		802.11ac	802.11ax
		Average	Average
5530	106	14.93	14.82
5610	122	14.83	14.59
5690	138	14.99	14.92
5775	155	14.57	14.66

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Table 9-121

5 GHz WLAN Reduced Average RF Power for Conditions with RCV active or RCV active During Conditions with 2.4 GHz WLAN and/or 5G NR – MIMO, Q

5GHz (80MHz) 802.11ac Conducted Power [dBm]				
Freq [MHz]	Channel	ANT1	ANT2	MIMO
5210	42	10.98	10.89	13.95
5290	58	10.79	10.70	13.76
5530	106	10.81	10.92	13.88
5610	122	10.74	10.61	13.69
5690	138	10.87	10.99	13.94
5775	155	10.85	10.50	13.69

Table 9-122

5 GHz WLAN Reduced Average RF Power for Conditions with RCV active or RCV active During Conditions with 2.4 GHz WLAN and/or 5G NR – MIMO, N

5GHz (80MHz) 802.11ac Conducted Power [dBm]				
Freq [MHz]	Channel	ANT1	ANT2	MIMO
5210	42	10.91	10.05	13.51
5290	58	10.95	10.89	13.93
5530	106	10.80	10.67	13.75
5610	122	10.72	9.90	13.34
5690	138	10.82	10.99	13.92
5775	155	10.63	10.65	13.65

Table 9-123

5 GHz WLAN Reduced Average RF Power during Conditions with 2.4 GHz WLAN and/or with 5G NR – MIMO, Q

5GHz (40MHz) 802.11n Conducted Power [dBm]				
Freq [MHz]	Channel	ANT1	ANT2	MIMO
5190	38	13.49	13.98	16.75
5230	46	14.18	14.74	17.48
5270	54	14.26	14.82	17.56
5310	62	14.70	14.76	17.74
5GHz (80MHz) 802.11ac Conducted Power [dBm]				
Freq [MHz]	Channel	ANT1	ANT2	MIMO
5530	106	14.99	14.23	17.64
5610	122	14.86	14.84	17.86
5690	138	14.00	14.82	17.44
5775	155	14.01	14.73	17.40

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Table 9-124
5 GHz WLAN Reduced Average RF Power during Conditions with 2.4 GHz WLAN and/or with 5G NR – MIMO, N

5GHz (40MHz) 802.11n Conducted Power [dBm]				
Freq [MHz]	Channel	ANT1	ANT2	MIMO
5190	38	13.38	13.27	16.34
5230	46	14.77	14.38	17.59
5270	54	14.65	14.77	17.72
5310	62	14.63	14.59	17.62
5GHz (80MHz) 802.11ac Conducted Power [dBm]				
Freq [MHz]	Channel	ANT1	ANT2	MIMO
5530	106	13.04	14.74	16.98
5610	122	14.15	14.78	17.49
5690	138	14.29	14.99	17.66
5775	155	14.59	14.76	17.69

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.

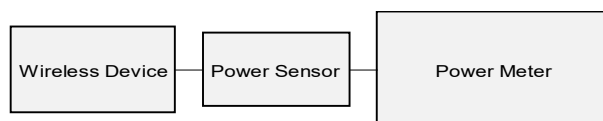


Figure 9-5
Power Measurement Setup

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9.7 Bluetooth Conducted Powers

Table 9-125
Bluetooth Antenna 1 Maximum Average RF Power - Q

Frequency [MHz]	Data Rate [Mbps]	Mod.	Power Scheme	Channel No.	Avg Conducted Power	
					[dBm]	[mW]
2402	1.0	GFSK	ePA	0	14.18	26.182
2441	1.0	GFSK	ePA	39	15.43	34.914
2480	1.0	GFSK	ePA	78	14.13	25.882
2402	2.0	$\pi/4$ -DQPSK	ePA	0	12.16	16.444
2441	2.0	$\pi/4$ -DQPSK	ePA	39	12.88	19.409
2480	2.0	$\pi/4$ -DQPSK	ePA	78	12.16	16.444
2402	3.0	8DPSK	ePA	0	11.88	15.417
2441	3.0	8DPSK	ePA	39	12.93	19.634
2480	3.0	8DPSK	ePA	78	11.92	15.560

Table 9-126
Bluetooth Antenna 2 Maximum Average RF Power Q

Frequency [MHz]	Data Rate [Mbps]	Mod.	Power Scheme	Channel No.	Avg Conducted Power	
					[dBm]	[mW]
2402	1.0	GFSK	ePA	0	14.97	31.405
2441	1.0	GFSK	ePA	39	16.61	45.814
2480	1.0	GFSK	ePA	78	15.66	36.813
2402	2.0	$\pi/4$ -DQPSK	ePA	0	12.40	17.378
2441	2.0	$\pi/4$ -DQPSK	ePA	39	13.96	24.889
2480	2.0	$\pi/4$ -DQPSK	ePA	78	12.31	17.022
2402	3.0	8DPSK	ePA	0	12.40	17.378
2441	3.0	8DPSK	ePA	39	14.29	26.853
2480	3.0	8DPSK	ePA	78	13.33	21.528

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Table 9-127
Bluetooth Antenna 1 Maximum Average RF Power - N

Frequency [MHz]	Data Rate [Mbps]	Mod.	Power Scheme	Channel No.	Avg Conducted Power	
					[dBm]	[mW]
2402	1.0	GFSK	ePA	0	14.92	31.046
2441	1.0	GFSK	ePA	39	15.55	35.892
2480	1.0	GFSK	ePA	78	14.75	29.854
2402	2.0	$\pi/4$ -DQPSK	ePA	0	12.73	18.750
2441	2.0	$\pi/4$ -DQPSK	ePA	39	13.38	21.777
2480	2.0	$\pi/4$ -DQPSK	ePA	78	12.56	18.030
2402	3.0	8DPSK	ePA	0	12.75	18.836
2441	3.0	8DPSK	ePA	39	13.36	21.677
2480	3.0	8DPSK	ePA	78	12.73	18.750

Table 9-128
Bluetooth Antenna 2 Maximum Average RF Power - N

Frequency [MHz]	Data Rate [Mbps]	Mod.	Power Scheme	Channel No.	Avg Conducted Power	
					[dBm]	[mW]
2402	1.0	GFSK	ePA	0	15.26	33.574
2441	1.0	GFSK	ePA	39	16.55	45.186
2480	1.0	GFSK	ePA	78	16.60	45.709
2402	2.0	$\pi/4$ -DQPSK	ePA	0	13.13	20.559
2441	2.0	$\pi/4$ -DQPSK	ePA	39	14.15	26.002
2480	2.0	$\pi/4$ -DQPSK	ePA	78	13.28	21.281
2402	3.0	8DPSK	ePA	0	13.06	20.230
2441	3.0	8DPSK	ePA	39	13.48	22.284
2480	3.0	8DPSK	ePA	78	14.48	28.054

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Table 9-129
Bluetooth Antenna 1 BT Reduced 5G NR Active - Q

Frequency [MHz]	Data Rate [Mbps]	Mod.	Power Scheme	Channel No.	Avg Conducted Power	
					[dBm]	[mW]
2402	1.0	GFSK	ePA	0	11.76	15.004
2441	1.0	GFSK	ePA	39	13.10	20.408
2480	1.0	GFSK	ePA	78	12.38	17.286

Table 9-130
Bluetooth Antenna 2 BT Reduced 5G NR Active - Q

Frequency [MHz]	Data Rate [Mbps]	Mod.	Power Scheme	Channel No.	Avg Conducted Power	
					[dBm]	[mW]
2402	1.0	GFSK	ePA	0	12.24	16.742
2441	1.0	GFSK	ePA	39	13.93	24.706
2480	1.0	GFSK	ePA	78	13.61	22.956

Table 9-131
Bluetooth Antenna 1 BT Reduced 5G NR Active - N

Frequency [MHz]	Data Rate [Mbps]	Mod.	Power Scheme	Channel No.	Avg Conducted Power	
					[dBm]	[mW]
2402	1.0	GFSK	ePA	0	12.41	17.398
2441	1.0	GFSK	ePA	39	13.11	20.446
2480	1.0	GFSK	ePA	78	12.33	17.104

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Table 9-132
Bluetooth Antenna 2 BT Reduced 5G NR Active - N

Frequency [MHz]	Data Rate [Mbps]	Mod.	Power Scheme	Channel No.	Avg Conducted Power	
					[dBm]	[mW]
2402	1.0	GFSK	ePA	0	12.96	19.751
2441	1.0	GFSK	ePA	39	13.25	21.120
2480	1.0	GFSK	ePA	78	13.67	23.259

Table 9-133
Bluetooth Antenna 1 BT Reduced RCV Active Conducted Power - Q

Frequency [MHz]	Data Rate [Mbps]	Mod.	Power Scheme	Channel No.	Avg Conducted Power	
					[dBm]	[mW]
2402	1.0	GFSK	ePA	0	7.80	6.026
2441	1.0	GFSK	ePA	39	8.62	7.278
2480	1.0	GFSK	ePA	78	7.74	5.938

Table 9-134
Bluetooth Antenna 2 BT Reduced RCV Active Conducted Power - Q

Frequency [MHz]	Data Rate [Mbps]	Mod.	Power Scheme	Channel No.	Avg Conducted Power	
					[dBm]	[mW]
2402	1.0	GFSK	ePA	0	7.79	6.008
2441	1.0	GFSK	ePA	39	9.29	8.492
2480	1.0	GFSK	ePA	78	8.94	7.828

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Table 9-135
Bluetooth Antenna 1 BT Reduced RCV Active Conducted Power - N

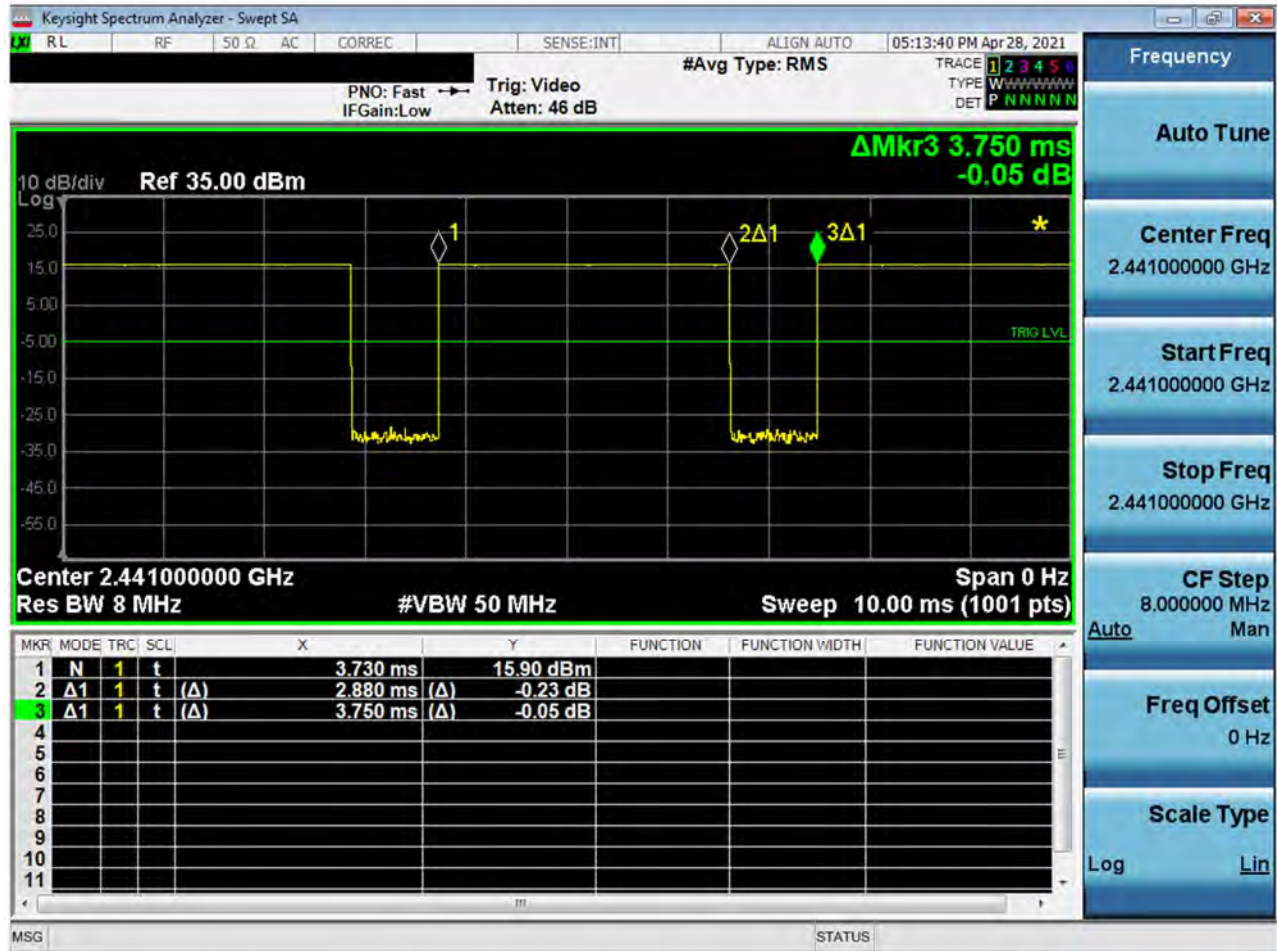
Frequency [MHz]	Data Rate [Mbps]	Mod.	Power Scheme	Channel No.	Avg Conducted Power	
					[dBm]	[mW]
2402	1.0	GFSK	ePA	0	7.50	5.628
2441	1.0	GFSK	ePA	39	8.43	6.966
2480	1.0	GFSK	ePA	78	7.62	5.778

Table 9-136
Bluetooth Antenna 2 BT Reduced RCV Active Conducted Power - N

Frequency [MHz]	Data Rate [Mbps]	Mod.	Power Scheme	Channel No.	Avg Conducted Power	
					[dBm]	[mW]
2402	1.0	GFSK	ePA	0	7.85	6.098
2441	1.0	GFSK	ePA	39	8.99	7.931
2480	1.0	GFSK	ePA	78	9.44	8.785

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Figure 9-6
Bluetooth Antenna 1 Transmission Plot - Q

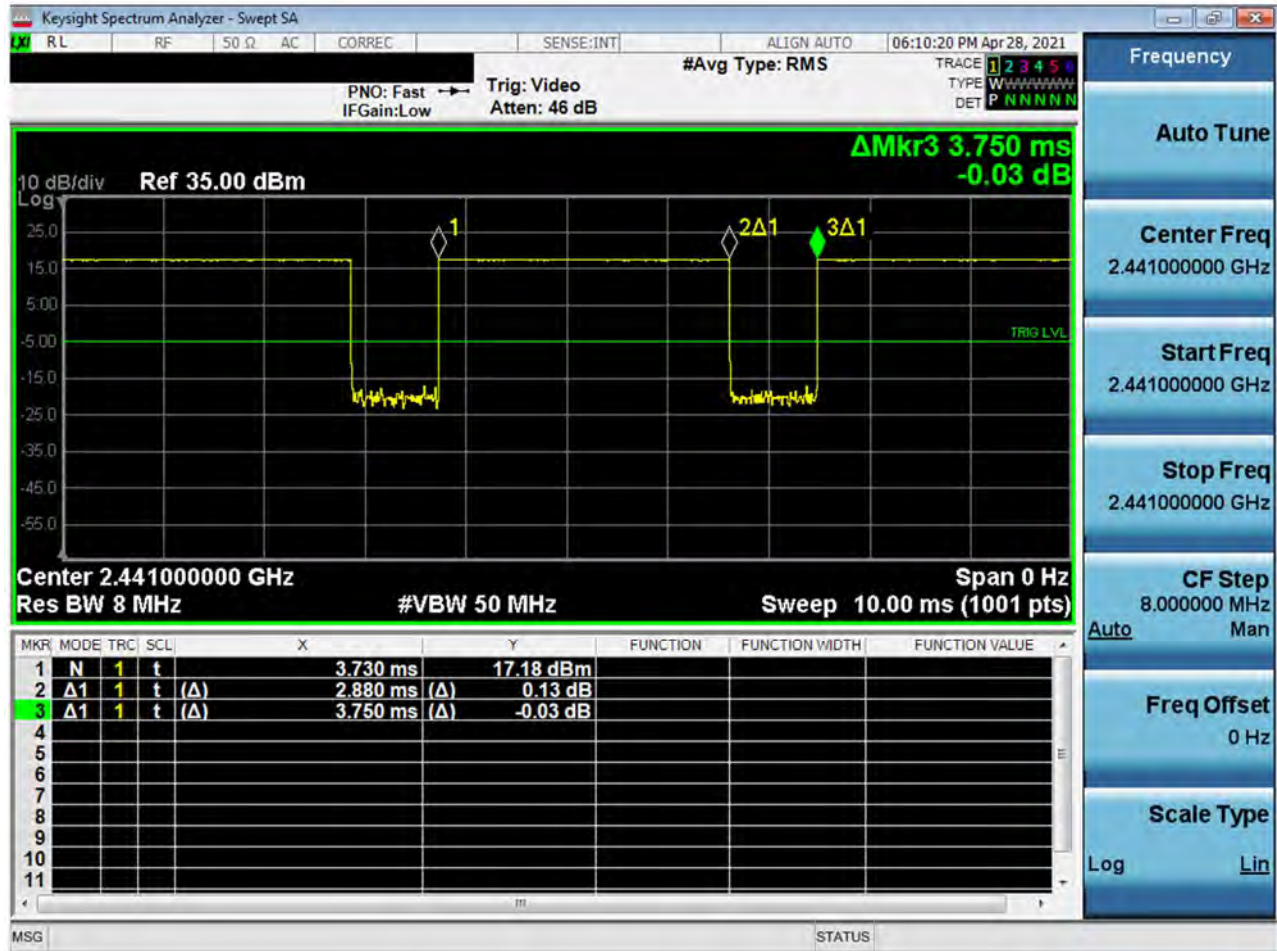


Equation 9-1
Bluetooth Antenna 1 Duty Cycle Calculation - Q

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

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Figure 9-7
Bluetooth Antenna 2 Transmission Plot - Q

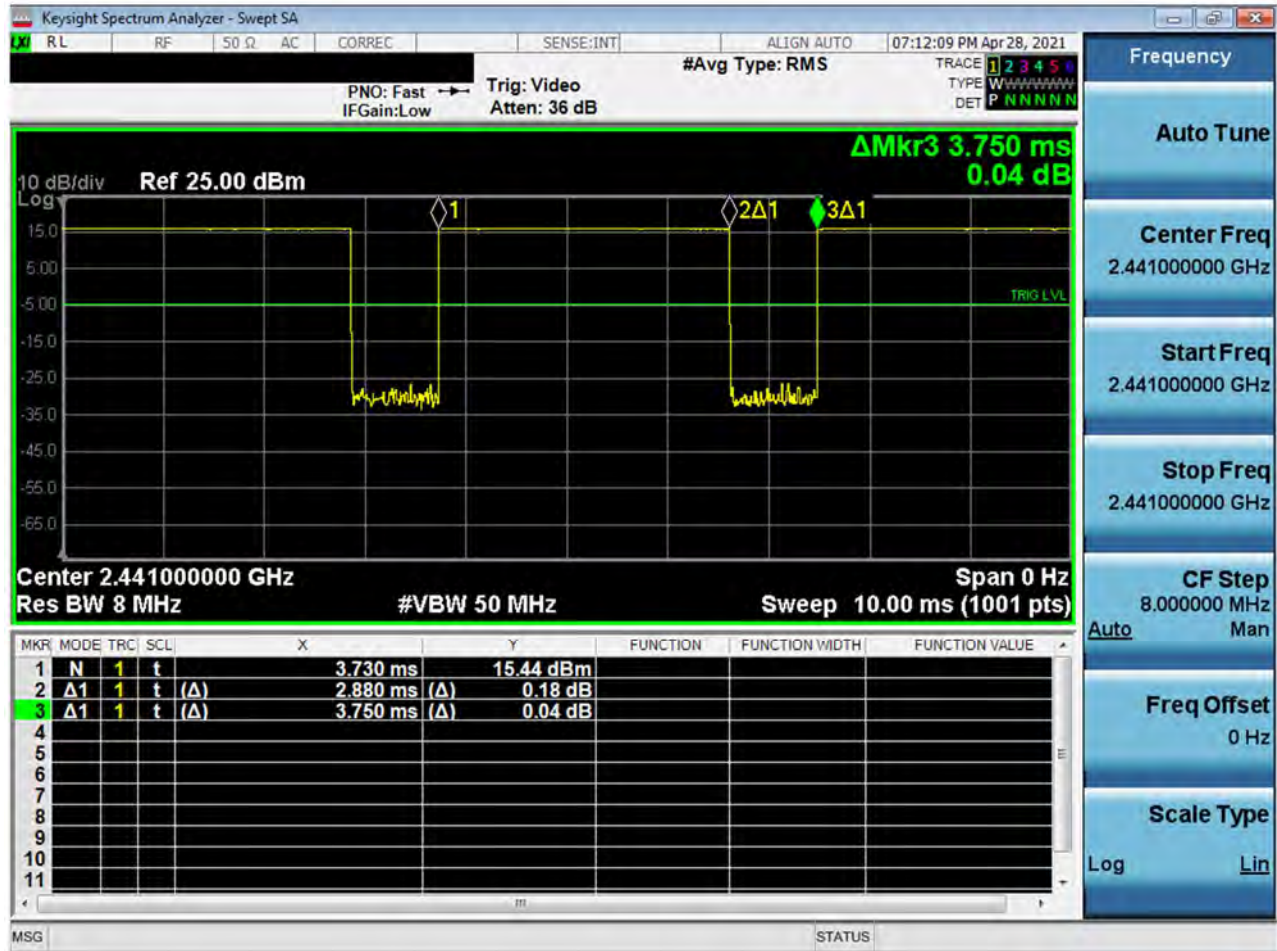


Equation 9-2
Bluetooth Antenna 2 Duty Cycle Calculation - Q

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

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Figure 9-8
Bluetooth Antenna 1 Transmission Plot - N

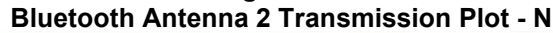


Equation 9-3
Bluetooth Antenna 1 Duty Cycle Calculation - N

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

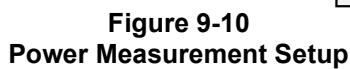
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Figure 9-9



Equation 9-4

Bluetooth Antenna 2 Duty Cycle Calculation - N



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10 SYSTEM VERIFICATION

10.1 Tissue Verification

Table 10-1
Measured Tissue Properties - Head

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	750 Head	23.4	680	0.895	42.295	0.888	42.305	0.79%	-0.02%
			695	0.900	42.258	0.889	42.227	1.24%	0.07%
			700	0.902	42.245	0.889	42.201	1.46%	0.10%
			710	0.905	42.212	0.890	42.149	1.69%	0.15%
			725	0.911	42.153	0.891	42.071	2.24%	0.19%
			750	0.920	42.068	0.894	41.942	2.91%	0.30%
			770	0.926	42.011	0.895	41.838	3.46%	0.41%
			785	0.932	41.965	0.896	41.760	4.02%	0.49%
			800	0.938	41.916	0.897	41.682	4.57%	0.56%
			820	0.897	42.648	0.888	42.305	1.01%	0.81%
04/15/2021	750 Head	20.9	680	0.897	42.648	0.888	42.305	1.01%	0.81%
			695	0.902	42.614	0.889	42.227	1.46%	0.92%
			700	0.903	42.603	0.889	42.201	1.57%	0.95%
			710	0.907	42.574	0.890	42.149	1.91%	1.01%
			725	0.912	42.523	0.891	42.071	2.36%	1.07%
			750	0.922	42.434	0.894	41.942	3.13%	1.17%
			770	0.930	42.367	0.895	41.838	3.91%	1.26%
			785	0.935	42.313	0.896	41.760	4.35%	1.32%
			800	0.941	42.264	0.897	41.682	4.91%	1.40%
			820	0.877	42.375	0.888	42.305	-1.24%	0.17%
05/23/2021	750 Head	22.2	680	0.877	42.375	0.888	42.305	-1.24%	0.17%
			695	0.882	42.315	0.889	42.227	-0.79%	0.21%
			700	0.884	42.298	0.889	42.201	-0.56%	0.23%
			710	0.887	42.266	0.890	42.149	-0.34%	0.28%
			725	0.892	42.222	0.891	42.071	0.11%	0.36%
			750	0.901	42.153	0.894	41.942	0.78%	0.50%
			770	0.908	42.092	0.895	41.838	1.45%	0.61%
			785	0.913	42.042	0.896	41.760	1.90%	0.68%
			800	0.919	41.993	0.897	41.682	2.45%	0.75%
			820	0.868	40.609	0.899	41.578	-3.45%	-2.33%
04/18/2021	835 Head	23.0	835	0.882	40.419	0.900	41.500	-2.00%	-2.60%
			850	0.896	40.236	0.916	41.500	-2.18%	-3.05%
04/20/2021	835 Head	20.9	820	0.874	40.540	0.899	41.578	-2.78%	-2.50%
			835	0.888	40.341	0.900	41.500	-1.33%	-2.79%
06/01/2021	835 Head	21.7	850	0.902	40.151	0.916	41.500	-1.53%	-3.25%
			820	0.926	41.477	0.899	41.578	3.00%	-0.24%
06/01/2021	835 Head	21.7	835	0.932	41.465	0.900	41.500	3.56%	-0.08%
			850	0.938	41.447	0.916	41.500	2.40%	-0.13%
04/11/2021	1750 Head	22.3	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%
05/16/2021	1750 Head	21.4	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%
			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	1.345	40.346	1.348	40.142	-0.22%	0.51%
			1720	1.355	40.299	1.354	40.126	0.07%	0.43%
05/20/2021	1750 Head	22.4	1745	1.380	40.181	1.368	40.087	0.88%	0.23%
			1750	1.385	40.157	1.371	40.079	1.02%	0.19%
			1770	1.405	40.062	1.383	40.047	1.59%	0.04%
			1790	1.424	39.969	1.394	40.016	2.15%	-0.12%
			1850	1.388	39.847	1.400	40.000	-0.86%	-0.38%
			1860	1.398	39.808	1.400	40.000	-0.14%	-0.48%
			1880	1.419	39.740	1.400	40.000	1.36%	-0.65%
04/12/2021	1900 Head	24.1	1900	1.439	39.666	1.400	40.000	2.79%	-0.84%
			1905	1.443	39.647	1.400	40.000	3.07%	-0.88%
			1910	1.448	39.626	1.400	40.000	3.43%	-0.94%

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Table 10-2
Measured Tissue Head 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
05/31/2021	1900 Head	22.4	1850	1.376	39.428	1.400	40.000	-1.71%	-1.43%
			1860	1.386	39.386	1.400	40.000	-1.00%	-1.53%
			1880	1.407	39.301	1.400	40.000	0.50%	-1.75%
			1900	1.427	39.223	1.400	40.000	1.93%	-1.94%
			1905	1.433	39.203	1.400	40.000	2.36%	-1.99%
			1910	1.438	39.183	1.400	40.000	2.71%	-2.04%
04/13/2021	2450 Head	24.0	2300	1.702	39.151	1.670	39.500	1.92%	-0.88%
			2310	1.712	39.113	1.679	39.480	1.97%	-0.93%
			2320	1.723	39.076	1.687	39.460	2.13%	-0.97%
			2400	1.807	38.755	1.756	39.289	2.90%	-1.36%
			2450	1.862	38.554	1.800	39.200	3.44%	-1.65%
			2480	1.893	38.428	1.833	39.162	3.27%	-1.87%
			2500	1.914	38.346	1.855	39.136	3.18%	-2.02%
			2510	1.925	38.304	1.866	39.123	3.16%	-2.09%
			2535	1.952	38.196	1.893	39.092	3.12%	-2.29%
			2550	1.969	38.135	1.909	39.073	3.14%	-2.40%
			2560	1.980	38.095	1.920	39.060	3.13%	-2.47%
			2600	2.021	37.949	1.964	39.009	2.90%	-2.72%
			2650	2.074	37.739	2.018	38.945	2.78%	-3.10%
			2680	2.108	37.636	2.051	38.907	2.78%	-3.27%
04/22/2021	2450 Head	24.6	2700	2.128	37.572	2.073	38.882	2.65%	-3.37%
			2300	1.697	39.615	1.670	39.500	1.62%	0.29%
			2310	1.708	39.585	1.679	39.480	1.73%	0.27%
			2320	1.718	39.550	1.687	39.460	1.84%	0.23%
			2400	1.807	39.271	1.756	39.289	2.90%	-0.05%
			2450	1.862	39.078	1.800	39.200	3.44%	-0.31%
			2480	1.895	38.959	1.833	39.162	3.38%	-0.52%
			2500	1.917	38.893	1.855	39.136	3.34%	-0.62%
			2510	1.927	38.858	1.866	39.123	3.27%	-0.68%
			2535	1.954	38.757	1.893	39.092	3.22%	-0.86%
			2550	1.971	38.693	1.909	39.073	3.25%	-0.97%
			2560	1.982	38.649	1.920	39.060	3.23%	-1.05%
			2600	2.026	38.518	1.964	39.009	3.16%	-1.26%
			2650	2.078	38.320	2.018	38.945	2.97%	-1.60%
04/27/2021	2450 Head	23.7	2680	2.114	38.212	2.051	38.907	3.07%	-1.79%
			2700	2.135	38.150	2.073	38.882	2.99%	-1.88%
			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%

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Table 10-3
Measured Tissue Properties – Head 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
06/01/2021	2450 Head	21.7	2300	1.753	39.519	1.670	39.500	4.97%	0.05%
			2310	1.761	39.508	1.679	39.480	-4.88%	0.07%
			2320	1.768	39.497	1.687	39.460	-4.80%	0.09%
			2400	1.821	39.373	1.756	39.289	-3.70%	0.21%
			2450	1.858	39.312	1.800	39.200	-3.22%	0.29%
			2480	1.877	39.287	1.833	39.162	-2.40%	0.27%
			2500	1.891	39.236	1.855	39.136	-1.94%	0.26%
			2510	1.899	39.221	1.866	39.123	-1.77%	0.25%
			2535	1.919	39.190	1.893	39.092	-1.37%	0.25%
			2550	1.931	39.172	1.909	39.073	-1.15%	0.25%
			2560	1.938	39.157	1.920	39.060	-0.94%	0.25%
			2600	1.967	39.098	1.964	39.009	-0.15%	0.23%
			2650	2.005	39.015	2.018	38.945	-0.64%	0.18%
			2690	2.028	38.974	2.051	38.907	-1.12%	0.17%
			2700	2.042	38.952	2.073	38.882	-1.50%	0.18%
			3300	2.684	38.471	2.708	38.157	-0.88%	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%
05/10/2021	3600 Head	19.0	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%
			3300	2.698	37.293	2.708	38.157	-0.37%	-2.26%
			3350	2.743	37.212	2.759	38.100	-0.58%	-2.33%
			3450	2.844	36.996	2.861	37.986	-0.59%	-2.61%
			3500	2.886	36.854	2.913	37.929	-0.93%	-2.83%
			3550	2.945	36.778	2.964	37.871	-0.64%	-2.89%
			3560	2.954	36.769	2.974	37.860	-0.67%	-2.88%
			3600	2.985	36.671	3.015	37.814	-1.00%	-3.02%
			3650	3.046	36.572	3.066	37.757	-0.65%	-3.14%
			3690	3.076	36.502	3.107	37.711	-1.00%	-3.21%
05/19/2021	3600 Head	18.3	3700	3.083	36.467	3.117	37.700	-1.09%	-3.27%
			3750	3.148	36.360	3.169	37.643	-0.66%	-3.41%
			3900	3.297	36.088	3.323	37.471	-0.78%	-3.69%
			3930	3.330	36.012	3.353	37.437	-0.68%	-3.81%
			4100	3.519	35.706	3.528	37.243	-0.26%	-4.13%
			4150	3.570	35.594	3.579	37.186	-0.25%	-4.28%
			5180	4.575	35.157	4.635	36.009	-1.29%	-2.37%
			5190	4.585	35.136	4.645	35.998	-1.29%	-2.39%
			5200	4.596	35.114	4.655	35.986	-1.27%	-2.42%
			5210	4.608	35.094	4.666	35.975	-1.24%	-2.45%
			5220	4.619	35.074	4.676	35.963	-1.22%	-2.47%
			5240	4.639	35.028	4.696	35.940	-1.21%	-2.54%
			5250	4.652	35.002	4.706	35.929	-1.15%	-2.58%
			5260	4.664	34.979	4.717	35.917	-1.12%	-2.61%
			5270	4.674	34.954	4.727	35.906	-1.12%	-2.65%
			5280	4.684	34.935	4.737	35.894	-1.12%	-2.67%
			5290	4.694	34.926	4.748	35.883	-1.14%	-2.67%
			5300	4.707	34.916	4.758	35.871	-1.07%	-2.68%
			5310	4.719	34.904	4.768	35.860	-1.03%	-2.67%
05/17/2021	5200-5800 Head	20.7	5320	4.730	34.888	4.778	35.849	-1.00%	-2.68%
			5500	4.935	34.576	4.963	35.643	-0.56%	-2.99%
			5510	4.947	34.556	4.973	35.632	-0.52%	-3.02%
			5520	4.961	34.536	4.983	35.620	-0.44%	-3.04%
			5530	4.975	34.518	4.994	35.609	-0.38%	-3.06%
			5540	4.989	34.503	5.004	35.597	-0.30%	-3.07%
			5550	5.002	34.491	5.014	35.586	-0.24%	-3.08%
			5560	5.014	34.480	5.024	35.574	-0.20%	-3.08%
			5580	5.033	34.446	5.045	35.551	-0.24%	-3.11%
			5600	5.054	34.394	5.065	35.529	-0.22%	-3.19%
			5610	5.066	34.378	5.076	35.518	-0.20%	-3.21%
			5620	5.078	34.363	5.086	35.506	-0.16%	-3.22%
			5640	5.102	34.325	5.106	35.483	-0.08%	-3.26%
			5660	5.129	34.309	5.127	35.460	0.04%	-3.25%
			5670	5.138	34.302	5.137	35.449	0.02%	-3.24%
			5680	5.146	34.283	5.147	35.437	-0.02%	-3.26%
			5690	5.156	34.261	5.158	35.426	-0.04%	-3.29%
			5700	5.167	34.240	5.168	35.414	-0.02%	-3.32%
			5710	5.180	34.221	5.178	35.403	0.04%	-3.34%
			5720	5.193	34.203	5.188	35.391	0.10%	-3.36%
			5745	5.219	34.145	5.214	35.363	0.10%	-3.44%
			5750	5.226	34.139	5.219	35.357	0.13%	-3.44%
			5755	5.233	34.134	5.224	35.351	0.17%	-3.44%
			5765	5.245	34.125	5.234	35.340	0.21%	-3.44%
			5775	5.255	34.112	5.245	35.329	0.19%	-3.44%
			5785	5.263	34.095	5.255	35.317	0.15%	-3.46%
			5795	5.272	34.075	5.265	35.305	0.13%	-3.48%
			5800	5.277	34.067	5.270	35.300	0.13%	-3.49%
			5805	5.282	34.061	5.275	35.294	0.13%	-3.49%
			5825	5.299	34.020	5.296	35.271	0.06%	-3.55%

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Table 10-4
Measured Tissue Properties – Body

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
04/14/2021	750 Body	22.6	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%
			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%
04/25/2021	750 Body	22.3	800	1.007	54.160	0.967	55.336	4.14%	-2.13%
			680	0.936	54.725	0.958	55.804	-2.30%	-1.93%
			695	0.941	54.685	0.959	55.745	-1.88%	-1.90%
			700	0.943	54.671	0.959	55.726	-1.67%	-1.89%
			710	0.946	54.645	0.960	55.687	-1.46%	-1.87%
			725	0.952	54.615	0.961	55.629	-0.94%	-1.82%
			750	0.960	54.572	0.964	55.531	-0.41%	-1.73%
			770	0.968	54.524	0.965	55.453	0.31%	-1.68%
04/27/2021	750 Body	22.2	785	0.973	54.478	0.966	55.395	0.72%	-1.66%
			800	0.979	54.434	0.967	55.336	1.24%	-1.63%
			680	0.955	54.561	0.958	55.804	-0.31%	-2.23%
			695	0.960	54.519	0.959	55.745	0.10%	-2.20%
			700	0.962	54.507	0.959	55.726	0.31%	-2.19%
			710	0.966	54.482	0.960	55.687	0.63%	-2.16%
			725	0.971	54.450	0.961	55.629	1.04%	-2.12%
			750	0.981	54.395	0.964	55.531	1.76%	-2.05%
05/02/2021	750 Body	21.6	770	0.988	54.339	0.965	55.453	2.38%	-2.01%
			785	0.994	54.296	0.966	55.395	2.90%	-1.98%
			800	1.000	54.252	0.967	55.336	3.41%	-1.96%
			680	0.914	55.369	0.958	55.804	-4.59%	-0.78%
			695	0.920	55.331	0.959	55.745	-4.07%	-0.74%
			700	0.922	55.318	0.959	55.726	-3.86%	-0.73%
			710	0.926	55.289	0.960	55.687	-3.54%	-0.71%
			725	0.932	55.245	0.961	55.629	-3.02%	-0.69%
05/04/2021	750 Body	22.8	750	0.942	55.165	0.964	55.531	-2.28%	-0.66%
			770	0.948	55.108	0.965	55.453	-1.76%	-0.62%
			785	0.954	55.071	0.966	55.395	-1.24%	-0.58%
			800	0.960	55.044	0.967	55.336	-0.72%	-0.53%
			680	0.957	54.202	0.958	55.804	-0.10%	-2.87%
			695	0.962	54.159	0.959	55.745	0.31%	-2.85%
			700	0.964	54.143	0.959	55.726	0.52%	-2.84%
			710	0.968	54.117	0.960	55.687	0.83%	-2.82%
05/09/2021	750 Body	21.7	725	0.973	54.084	0.961	55.629	1.25%	-2.78%
			750	0.982	54.029	0.964	55.531	1.87%	-2.70%
			770	0.989	53.982	0.965	55.453	2.49%	-2.65%
			785	0.994	53.945	0.966	55.395	2.90%	-2.62%
			800	1.000	53.906	0.967	55.336	3.41%	-2.58%
			680	0.925	54.382	0.958	55.804	-3.44%	-2.55%
			695	0.930	54.344	0.959	55.745	-3.02%	-2.51%
			700	0.932	54.330	0.959	55.726	-2.82%	-2.51%
04/23/2021	835 Body	21.6	710	0.936	54.302	0.960	55.687	-2.50%	-2.49%
			725	0.942	54.260	0.961	55.629	-1.98%	-2.46%
			750	0.951	54.192	0.964	55.531	-1.35%	-2.41%
			770	0.957	54.140	0.965	55.453	-0.83%	-2.37%
04/25/2021	835 Body	20.6	785	0.963	54.106	0.966	55.395	-0.31%	-2.33%
			800	0.969	54.078	0.967	55.336	0.21%	-2.27%
			820	0.930	53.762	0.969	55.258	-4.02%	-2.71%
			835	0.946	53.602	0.970	55.200	-2.47%	-2.89%
04/23/2021	835 Body	21.6	850	0.962	53.441	0.988	55.154	-2.63%	-3.11%
			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%
04/25/2021	835 Body	20.6	850	0.979	52.975	0.988	55.154	-0.91%	-3.95%

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Table 10-5
Measured Tissue Properties – Body 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
04/27/2021	835 Body	22.1	820	0.930	53.209	0.969	55.258	-4.02%	-3.71%
			835	0.945	53.047	0.970	55.200	-2.58%	-3.90%
			850	0.961	52.907	0.988	55.154	-2.73%	-4.07%
04/29/2021	835 Body	21.4	820	0.944	53.210	0.969	55.258	-2.58%	-3.71%
			835	0.959	53.048	0.970	55.200	-1.13%	-3.90%
			850	0.974	52.905	0.988	55.154	-1.42%	-4.08%
05/03/2021	835 Body	21.5	820	0.944	52.923	0.969	55.258	-2.58%	-4.23%
			835	0.960	52.776	0.970	55.200	-1.03%	-4.39%
			850	0.976	52.633	0.988	55.154	-1.21%	-4.57%
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%
04/27/2021	1750 Body	22.2	1710	1.443	51.673	1.463	53.537	-1.37%	-3.48%
			1720	1.454	51.639	1.469	53.511	-1.02%	-3.50%
			1745	1.481	51.550	1.485	53.445	-0.27%	-3.55%
			1750	1.486	51.531	1.488	53.432	-0.13%	-3.56%
			1770	1.507	51.456	1.501	53.379	0.40%	-3.60%
			1790	1.529	51.381	1.514	53.326	0.99%	-3.65%
05/02/2021	1750 Body	20.6	1710	1.488	51.255	1.463	53.537	1.71%	-4.26%
			1720	1.500	51.217	1.469	53.511	2.11%	-4.29%
			1745	1.529	51.122	1.485	53.445	2.96%	-4.35%
			1750	1.535	51.102	1.488	53.432	3.16%	-4.36%
			1770	1.558	51.019	1.501	53.379	3.80%	-4.42%
			1790	1.582	50.935	1.514	53.326	4.49%	-4.48%
05/04/2021	1750 Body	22.2	1710	1.467	50.956	1.463	53.537	0.27%	-4.82%
			1720	1.478	50.920	1.469	53.511	0.61%	-4.84%
			1745	1.506	50.831	1.485	53.445	1.41%	-4.89%
			1750	1.511	50.813	1.488	53.432	1.55%	-4.90%
			1770	1.532	50.737	1.501	53.379	2.07%	-4.95%
			1790	1.554	50.666	1.514	53.326	2.64%	-4.99%
05/06/2021	1750 Body	23.0	1710	1.423	51.041	1.463	53.537	-2.73%	-4.66%
			1720	1.433	51.004	1.469	53.511	-2.45%	-4.69%
			1745	1.459	50.906	1.485	53.445	-1.75%	-4.75%
			1750	1.464	50.886	1.488	53.432	-1.61%	-4.76%
			1770	1.484	50.806	1.501	53.379	-1.13%	-4.82%
			1790	1.504	50.740	1.514	53.326	-0.66%	-4.85%
05/18/2021	1750 Body	21.1	1710	1.499	52.059	1.463	53.537	2.46%	-2.76%
			1720	1.511	52.019	1.469	53.511	2.86%	-2.79%
			1745	1.539	51.912	1.485	53.445	3.64%	-2.87%
			1750	1.545	51.889	1.488	53.432	3.83%	-2.89%
			1770	1.567	51.800	1.501	53.379	4.40%	-2.96%
			1790	1.589	51.709	1.514	53.326	4.95%	-3.03%
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%
05/22/2021	1750 Body	21.0	1710	1.488	51.731	1.463	53.537	1.71%	-3.37%
			1720	1.500	51.692	1.469	53.511	2.11%	-3.40%
			1745	1.529	51.590	1.485	53.445	2.96%	-3.47%
			1750	1.535	51.567	1.488	53.432	3.16%	-3.49%
			1770	1.557	51.474	1.501	53.379	3.73%	-3.57%
			1790	1.580	51.376	1.514	53.326	4.36%	-3.66%
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%
04/28/2021	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%
05/05/2021	1900 Body	22.5	1850	1.506	52.700	1.520	53.300	-0.92%	-1.13%
			1860	1.517	52.662	1.520	53.300	-0.20%	-1.20%
			1880	1.539	52.594	1.520	53.300	1.25%	-1.32%
			1900	1.562	52.532	1.520	53.300	2.76%	-1.44%
			1905	1.568	52.515	1.520	53.300	3.16%	-1.47%
			1910	1.573	52.497	1.520	53.300	3.49%	-1.51%

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Table 10-6
Measured Tissue Properties – Body 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
05/16/2021	1900 Body	23.3	1850	1.509	51.980	1.520	53.300	-0.72%	-2.48%
			1860	1.520	51.942	1.520	53.300	0.00%	-2.55%
			1880	1.541	51.867	1.520	53.300	1.38%	-2.69%
			1900	1.564	51.795	1.520	53.300	2.89%	-2.82%
			1905	1.569	51.776	1.520	53.300	3.22%	-2.86%
			1910	1.575	51.757	1.520	53.300	3.62%	-2.89%
05/19/2021	1900 Body	22.5	1850	1.506	53.263	1.520	53.300	-0.92%	-0.07%
			1860	1.517	53.230	1.520	53.300	-0.20%	-0.13%
			1880	1.540	53.169	1.520	53.300	1.32%	-0.25%
			1900	1.562	53.109	1.520	53.300	2.76%	-0.36%
			1905	1.568	53.094	1.520	53.300	3.16%	-0.39%
			1910	1.573	53.078	1.520	53.300	3.49%	-0.42%
05/22/2021	1900 Body	23.2	1850	1.512	52.249	1.520	53.300	-0.53%	-1.97%
			1860	1.523	52.219	1.520	53.300	0.20%	-2.03%
			1880	1.546	52.157	1.520	53.300	1.71%	-2.14%
			1900	1.570	52.095	1.520	53.300	3.29%	-2.26%
			1905	1.576	52.079	1.520	53.300	3.68%	-2.29%
			1910	1.582	52.063	1.520	53.300	4.08%	-2.32%
05/31/2021	1900 Body	21.7	1850	1.515	52.191	1.520	53.300	-0.33%	-2.08%
			1860	1.526	52.158	1.520	53.300	0.39%	-2.14%
			1880	1.548	52.092	1.520	53.300	1.84%	-2.27%
			1900	1.571	52.031	1.520	53.300	3.36%	-2.38%
			1905	1.577	52.016	1.520	53.300	3.75%	-2.41%
			1910	1.583	51.998	1.520	53.300	4.14%	-2.44%
06/02/2021	1900 Body	24.4	1850	1.449	52.403	1.520	53.300	-4.67%	-1.68%
			1860	1.459	52.368	1.520	53.300	-4.01%	-1.75%
			1880	1.479	52.297	1.520	53.300	-2.70%	-1.88%
			1900	1.499	52.225	1.520	53.300	-1.38%	-2.02%
			1905	1.505	52.206	1.520	53.300	-0.99%	-2.05%
			1910	1.510	52.187	1.520	53.300	-0.66%	-2.09%
04/08/2021	2450 Body	22.7	2300	1.859	51.097	1.809	52.900	2.76%	-3.41%
			2310	1.871	51.066	1.816	52.887	3.03%	-3.44%
			2320	1.882	51.036	1.826	52.873	3.07%	-3.47%
			2400	1.972	50.810	1.902	52.767	3.68%	-3.71%
			2450	2.030	50.661	1.950	52.700	4.10%	-3.87%
			2480	2.065	50.575	1.993	52.662	3.61%	-3.96%
			2500	2.087	50.517	2.021	52.636	3.27%	-4.03%
			2510	2.099	50.485	2.035	52.623	3.14%	-4.06%
			2535	2.129	50.408	2.071	52.592	2.80%	-4.15%
			2550	2.147	50.363	2.092	52.573	2.63%	-4.20%
			2560	2.159	50.332	2.106	52.560	2.52%	-4.24%
			2600	2.206	50.205	2.163	52.509	1.99%	-4.39%
			2650	2.264	50.050	2.234	52.445	1.34%	-4.57%
			2680	2.298	49.954	2.277	52.407	0.92%	-4.68%
			2700	2.321	49.889	2.305	52.382	0.69%	-4.76%
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 Tissue Properties – Body 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	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%
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%
05/06/2021	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%

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Table 10-8
Measured Tissue Properties – Body 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
05/09/2021	2450 Body	21.4	2320	1.888	51.210	1.826	52.873	3.40%	-3.15%
			2400	1.979	50.987	1.902	52.767	4.05%	-3.37%
			2450	2.038	50.844	1.950	52.700	4.51%	-3.52%
			2480	2.072	50.758	1.993	52.662	3.96%	-3.62%
			2500	2.095	50.698	2.021	52.636	3.66%	-3.68%
			2510	2.107	50.667	2.035	52.623	3.54%	-3.72%
			2535	2.137	50.591	2.071	52.592	3.19%	-3.80%
			2550	2.155	50.551	2.092	52.573	3.01%	-3.85%
			2560	2.167	50.524	2.106	52.560	2.90%	-3.87%
			2600	2.215	50.410	2.163	52.509	2.40%	-4.00%
			2650	2.275	50.259	2.234	52.445	1.84%	-4.17%
			2680	2.311	50.174	2.277	52.407	1.49%	-4.26%
05/19/2021	2450 Body	24.9	2700	2.334	50.111	2.305	52.382	1.26%	-4.34%
			2300	1.823	51.633	1.809	52.900	0.77%	-2.40%
			2310	1.834	51.606	1.816	52.887	0.99%	-2.42%
			2320	1.845	51.581	1.826	52.873	1.04%	-2.44%
			2400	1.931	51.379	1.902	52.767	1.52%	-2.63%
			2450	1.988	51.253	1.950	52.700	1.95%	-2.75%
			2480	2.022	51.182	1.993	52.662	1.46%	-2.81%
			2500	2.044	51.129	2.021	52.636	1.14%	-2.86%
			2510	2.055	51.099	2.035	52.623	0.98%	-2.90%
			2535	2.084	51.024	2.071	52.592	0.63%	-2.98%
			2550	2.102	50.983	2.092	52.573	0.48%	-3.02%
			2560	2.114	50.957	2.106	52.560	0.38%	-3.05%
05/20/2021	2450 Body	23.5	2600	2.160	50.857	2.163	52.509	-0.14%	-3.15%
			2650	2.218	50.707	2.234	52.445	-0.72%	-3.31%
			2680	2.255	50.623	2.277	52.407	-0.97%	-3.40%
			2700	2.277	50.574	2.305	52.382	-1.21%	-3.45%
			2300	1.792	53.673	1.809	52.900	-0.94%	1.46%
			2310	1.804	53.627	1.816	52.887	-0.66%	1.40%
			2320	1.818	53.580	1.826	52.873	-0.44%	1.34%
			2400	1.938	53.305	1.902	52.767	1.89%	1.02%
			2450	2.001	53.082	1.950	52.700	2.62%	0.72%
			2480	2.047	52.964	1.993	52.662	2.71%	0.57%
			2500	2.075	52.901	2.021	52.636	2.67%	0.50%
			2510	2.088	52.870	2.035	52.623	2.60%	0.47%
05/22/2021	2450 Body	24.9	2535	2.118	52.775	2.071	52.592	2.27%	0.35%
			2550	2.137	52.712	2.092	52.573	2.15%	0.26%
			2560	2.151	52.668	2.106	52.560	2.14%	0.21%
			2600	2.212	52.519	2.163	52.509	2.27%	0.02%
			2650	2.276	52.372	2.234	52.445	1.88%	-0.14%
			2680	2.319	52.233	2.277	52.407	1.84%	-0.33%
			2700	2.351	52.145	2.305	52.382	2.00%	-0.45%
			2300	1.807	51.044	1.809	52.900	-0.11%	-3.51%
			2310	1.818	51.020	1.816	52.887	0.11%	-3.53%
			2320	1.828	50.996	1.826	52.873	0.11%	-3.55%
			2400	1.913	50.798	1.902	52.767	0.58%	-3.73%
			2450	1.967	50.665	1.950	52.700	0.87%	-3.86%
05/22/2021	2450 Body	24.9	2480	2.000	50.578	1.993	52.662	0.35%	-3.96%
			2500	2.022	50.530	2.021	52.636	0.05%	-4.00%
			2510	2.032	50.506	2.035	52.623	-0.15%	-4.02%
			2535	2.059	50.444	2.071	52.592	-0.58%	-4.08%
			2550	2.076	50.401	2.092	52.573	-0.76%	-4.13%
			2560	2.088	50.371	2.106	52.560	-0.85%	-4.16%
			2600	2.132	50.270	2.163	52.509	-1.43%	-4.26%
			2650	2.188	50.133	2.234	52.445	-2.06%	-4.41%
			2680	2.224	50.048	2.277	52.407	-2.33%	-4.50%
			2700	2.245	50.003	2.305	52.382	-2.60%	-4.54%

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Table 10-9
Measured Tissue Properties – Body 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
05/25/2021	2450 Body	25.0	2300	1.849	51.467	1.809	52.900	2.21%	-2.71%
			2310	1.861	51.438	1.816	52.887	2.48%	-2.74%
			2320	1.872	51.411	1.826	52.873	2.52%	-2.77%
			2400	1.958	51.183	1.902	52.767	2.94%	-3.00%
			2450	2.014	51.031	1.950	52.700	3.28%	-3.17%
			2480	2.046	50.954	1.993	52.662	2.66%	-3.24%
			2500	2.067	50.901	2.021	52.636	2.28%	-3.30%
			2510	2.078	50.872	2.035	52.623	2.11%	-3.33%
			2535	2.106	50.799	2.071	52.592	1.69%	-3.41%
			2550	2.124	50.753	2.092	52.573	1.53%	-3.46%
			2560	2.136	50.725	2.106	52.560	1.42%	-3.49%
			2600	2.181	50.616	2.163	52.509	0.83%	-3.61%
			2650	2.237	50.472	2.234	52.445	0.13%	-3.76%
			2680	2.273	50.391	2.277	52.407	-0.18%	-3.85%
05/26/2021	2450 Body	23.6	2700	2.295	50.341	2.305	52.382	-0.43%	-3.90%
			2300	1.764	53.123	1.809	52.900	-2.49%	0.42%
			2310	1.777	53.090	1.816	52.887	-2.15%	0.38%
			2320	1.791	53.056	1.826	52.873	-1.92%	0.35%
			2400	1.897	52.788	1.902	52.767	-0.26%	0.04%
			2450	1.963	52.639	1.950	52.700	0.67%	-0.12%
			2480	2.002	52.536	1.993	52.662	0.45%	-0.24%
			2500	2.030	52.466	2.021	52.636	0.45%	-0.32%
			2510	2.044	52.430	2.035	52.623	0.44%	-0.37%
			2535	2.081	52.344	2.071	52.592	0.48%	-0.47%
			2550	2.102	52.294	2.092	52.573	0.48%	-0.53%
			2560	2.115	52.259	2.106	52.560	0.43%	-0.57%
			2600	2.169	52.106	2.163	52.509	0.28%	-0.77%
			2650	2.240	51.921	2.234	52.445	0.27%	-1.00%
06/02/2021	2450 Body	21.9	2680	2.281	51.807	2.277	52.407	0.18%	-1.14%
			2700	2.308	51.728	2.305	52.382	0.13%	-1.25%
			2300	1.876	51.735	1.809	52.900	3.70%	-2.20%
			2310	1.887	51.702	1.816	52.887	3.91%	-2.24%
			2320	1.899	51.673	1.826	52.873	4.00%	-2.27%
			2400	1.989	51.451	1.902	52.767	4.57%	-2.49%
			2450	2.047	51.325	1.950	52.700	4.97%	-2.61%
			2480	2.082	51.245	1.993	52.662	4.47%	-2.69%
			2500	2.106	51.191	2.021	52.636	4.21%	-2.75%
			2510	2.117	51.164	2.035	52.623	4.03%	-2.77%
			2535	2.148	51.100	2.071	52.592	3.72%	-2.84%
			2550	2.167	51.063	2.092	52.573	3.59%	-2.87%
			2560	2.180	51.036	2.106	52.560	3.51%	-2.90%
			2600	2.229	50.923	2.163	52.509	3.05%	-3.02%
05/03/2021	3600 Body	18.0	2650	2.290	50.779	2.234	52.445	2.51%	-3.18%
			2680	2.326	50.693	2.277	52.407	2.15%	-3.27%
			2700	2.350	50.632	2.305	52.382	1.95%	-3.34%
			3300	3.013	49.693	3.080	51.593	-2.18%	-3.68%
			3350	3.078	49.632	3.139	51.525	-1.94%	-3.67%
			3450	3.195	49.438	3.256	51.389	-1.87%	-3.80%
			3500	3.251	49.352	3.314	51.321	-1.90%	-3.84%
			3550	3.313	49.240	3.372	51.254	-1.75%	-3.93%
			3560	3.327	49.224	3.384	51.240	-1.68%	-3.93%
			3600	3.373	49.164	3.431	51.186	-1.69%	-3.95%
			3650	3.430	49.054	3.489	51.118	-1.69%	-4.04%
			3690	3.481	48.988	3.536	51.063	-1.56%	-4.06%
			3700	3.493	48.969	3.548	51.050	-1.55%	-4.08%
			3750	3.553	48.855	3.606	50.982	-1.47%	-4.17%
			3900	3.741	48.520	3.781	50.779	-1.06%	-4.45%
			3930	3.783	48.471	3.816	50.738	-0.86%	-4.47%
			4100	4.013	48.119	4.015	50.507	-0.05%	-4.73%
			4150	4.082	47.997	4.073	50.439	0.22%	-4.84%

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Table 10-10
Measured Tissue Properties – Body 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
05/15/2021	3600 Body	23.8	3300	3.109	50.671	3.080	51.593	0.94%	-1.79%
			3350	3.161	50.602	3.139	51.525	0.70%	-1.79%
			3450	3.260	50.454	3.256	51.389	0.12%	-1.82%
			3500	3.305	50.405	3.314	51.321	-0.27%	-1.78%
			3550	3.357	50.345	3.372	51.254	-0.44%	-1.77%
			3560	3.367	50.331	3.384	51.240	-0.50%	-1.77%
			3600	3.406	50.282	3.431	51.186	-0.73%	-1.77%
			3650	3.456	50.216	3.489	51.118	-0.95%	-1.76%
			3690	3.498	50.171	3.536	51.063	-1.07%	-1.75%
			3700	3.509	50.159	3.548	51.050	-1.10%	-1.75%
			3750	3.559	50.093	3.606	50.982	-1.30%	-1.74%
			3900	3.724	49.877	3.781	50.779	-1.51%	-1.78%
			3930	3.762	49.860	3.816	50.738	-1.42%	-1.73%
			4100	3.960	49.603	4.015	50.507	-1.37%	-1.79%
			4150	4.019	49.532	4.073	50.439	-1.33%	-1.80%
05/21/2021	3600 Body	23.0	3300	3.143	49.842	3.080	51.593	2.05%	-3.39%
			3350	3.198	49.783	3.139	51.525	1.88%	-3.38%
			3450	3.304	49.652	3.256	51.389	1.47%	-3.38%
			3500	3.354	49.610	3.314	51.321	1.21%	-3.33%
			3550	3.408	49.557	3.372	51.254	1.07%	-3.31%
			3560	3.418	49.548	3.384	51.240	1.00%	-3.30%
			3600	3.459	49.506	3.431	51.186	0.82%	-3.28%
			3650	3.508	49.443	3.489	51.118	0.54%	-3.28%
			3690	3.549	49.390	3.536	51.063	0.37%	-3.28%
			3700	3.559	49.372	3.548	51.050	0.31%	-3.29%
			3750	3.608	49.316	3.606	50.982	0.06%	-3.27%
			3900	3.757	49.058	3.781	50.779	-0.63%	-3.39%
			3930	3.786	49.022	3.816	50.738	-0.79%	-3.38%
			4100	3.959	48.735	4.015	50.507	-1.39%	-3.51%
			4150	4.016	48.666	4.073	50.439	-1.40%	-3.52%
05/24/2021	3600 Body	23.5	3300	3.155	49.224	3.080	51.593	2.44%	-4.59%
			3350	3.205	49.151	3.139	51.525	2.10%	-4.61%
			3450	3.303	49.007	3.256	51.389	1.44%	-4.64%
			3500	3.349	48.958	3.314	51.321	1.06%	-4.60%
			3550	3.400	48.899	3.372	51.254	0.83%	-4.59%
			3560	3.410	48.887	3.384	51.240	0.77%	-4.59%
			3600	3.449	48.828	3.431	51.186	0.52%	-4.61%
			3650	3.500	48.756	3.489	51.118	0.32%	-4.62%
			3690	3.538	48.694	3.536	51.063	0.06%	-4.64%
			3700	3.549	48.680	3.548	51.050	0.03%	-4.64%
			3750	3.602	48.609	3.606	50.982	-0.11%	-4.65%
			3900	3.765	48.368	3.781	50.779	-0.42%	-4.75%
			3930	3.800	48.333	3.816	50.738	-0.42%	-4.74%
			4100	3.994	48.079	4.015	50.507	-0.52%	-4.81%
			4150	4.054	48.019	4.073	50.439	-0.47%	-4.80%
05/28/2021	3600 Body	18.5	3300	3.023	51.224	3.080	51.593	-1.85%	-0.72%
			3350	3.080	51.123	3.139	51.525	-1.88%	-0.78%
			3450	3.195	50.922	3.256	51.389	-1.87%	-0.91%
			3500	3.259	50.816	3.314	51.321	-1.66%	-0.98%
			3550	3.315	50.749	3.372	51.254	-1.69%	-0.99%
			3560	3.326	50.728	3.384	51.240	-1.71%	-1.00%
			3600	3.373	50.648	3.431	51.186	-1.69%	-1.05%
			3650	3.439	50.569	3.489	51.118	-1.43%	-1.07%
			3690	3.477	50.485	3.536	51.063	-1.67%	-1.13%
			3700	3.491	50.458	3.548	51.050	-1.61%	-1.16%
			3750	3.562	50.368	3.606	50.982	-1.22%	-1.20%
			3900	3.748	50.124	3.781	50.779	-0.87%	-1.29%
			3930	3.789	50.069	3.816	50.738	-0.71%	-1.32%
			4100	4.024	49.767	4.015	50.507	0.22%	-1.47%
			4150	4.095	49.653	4.073	50.439	0.54%	-1.56%

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Table 10-11
Measured Tissue Properties – Body 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
05/31/2021	3600 Body	23.0	3300	3.147	49.875	3.080	51.593	2.18%	-3.33%
			3350	3.201	49.811	3.139	51.525	1.98%	-3.33%
			3450	3.299	49.661	3.256	51.389	1.32%	-3.36%
			3500	3.348	49.600	3.314	51.321	1.03%	-3.35%
			3550	3.398	49.526	3.372	51.254	0.77%	-3.37%
			3560	3.409	49.512	3.384	51.240	0.74%	-3.37%
			3600	3.449	49.474	3.431	51.186	0.52%	-3.34%
			3650	3.495	49.415	3.489	51.118	0.17%	-3.33%
			3690	3.535	49.372	3.536	51.063	-0.03%	-3.31%
			3700	3.545	49.359	3.548	51.050	-0.08%	-3.31%
			3750	3.596	49.291	3.606	50.982	-0.28%	-3.32%
			3900	3.742	49.105	3.781	50.779	-1.03%	-3.30%
			3930	3.776	49.077	3.816	50.738	-1.05%	-3.27%
			4100	3.961	48.847	4.015	50.507	-1.34%	-3.29%
			4150	4.020	48.772	4.073	50.439	-1.30%	-3.30%
			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%
			3550	3.328	50.762	3.372	51.254	-1.30%	-0.96%
06/03/2021	3600 Body	18.5	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%
			5180	5.174	48.602	5.276	49.041	-1.93%	-0.90%
			5190	5.183	48.562	5.288	49.028	-1.99%	-0.95%
			5200	5.197	48.527	5.299	49.014	-1.92%	-0.99%
			5210	5.217	48.492	5.311	49.001	-1.77%	-1.04%
			5220	5.239	48.447	5.323	48.987	-1.58%	-1.10%
			5240	5.274	48.399	5.346	48.960	-1.35%	-1.15%
			5250	5.289	48.390	5.358	48.947	-1.29%	-1.14%
			5260	5.303	48.396	5.369	48.933	-1.23%	-1.10%
			5270	5.314	48.386	5.381	48.919	-1.25%	-1.09%
			5280	5.322	48.371	5.393	48.906	-1.32%	-1.09%
05/18/2021	5200-5800 Body	24.2	5290	5.331	48.357	5.404	48.892	-1.35%	-1.09%
			5300	5.343	48.335	5.416	48.879	-1.35%	-1.11%
			5310	5.358	48.305	5.428	48.865	-1.29%	-1.15%
			5320	5.372	48.260	5.439	48.851	-1.23%	-1.21%
			5500	5.637	47.848	5.650	48.607	-0.23%	-1.56%
			5510	5.654	47.839	5.661	48.594	-0.12%	-1.55%
			5520	5.670	47.822	5.673	48.580	-0.05%	-1.56%
			5530	5.683	47.800	5.685	48.566	-0.04%	-1.58%
			5540	5.696	47.784	5.696	48.553	0.00%	-1.58%
			5550	5.710	47.767	5.708	48.539	0.04%	-1.59%
			5560	5.725	47.749	5.720	48.526	0.09%	-1.60%
			5580	5.756	47.701	5.743	48.499	0.23%	-1.65%
			5600	5.790	47.665	5.766	48.471	0.42%	-1.66%
			5610	5.808	47.651	5.778	48.458	0.52%	-1.67%
			5620	5.823	47.638	5.790	48.444	0.57%	-1.66%
			5640	5.851	47.614	5.813	48.417	0.65%	-1.66%
			5660	5.877	47.591	5.837	48.390	0.69%	-1.65%
			5670	5.887	47.585	5.848	48.376	0.67%	-1.64%
			5680	5.899	47.578	5.860	48.363	0.67%	-1.62%
			5690	5.915	47.568	5.872	48.349	0.73%	-1.62%
			5700	5.933	47.555	5.883	48.336	0.85%	-1.62%
			5710	5.949	47.538	5.895	48.322	0.92%	-1.62%
			5720	5.962	47.521	5.907	48.309	0.93%	-1.63%
			5745	5.998	47.498	5.936	48.275	1.04%	-1.61%
			5750	6.007	47.487	5.942	48.268	1.09%	-1.62%
			5755	6.014	47.476	5.947	48.261	1.13%	-1.63%
			5765	6.024	47.463	5.959	48.248	1.09%	-1.63%
			5775	6.032	47.461	5.971	48.234	1.02%	-1.60%
			5785	6.043	47.471	5.982	48.220	1.02%	-1.55%
			5795	6.055	47.474	5.994	48.207	1.02%	-1.52%
			5800	6.063	47.468	6.000	48.200	1.05%	-1.52%
			5805	6.071	47.461	6.006	48.193	1.08%	-1.52%
			5825	6.101	47.447	6.029	48.166	1.19%	-1.49%

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 – 1g Head

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 SAR1g (W/kg)	1W Target SAR1g (W/kg)	1W Normalized SAR 1g (W/kg)	Deviation1g (%)
E	750	HEAD	04/13/2021	24.5	23.5	0.20	1161	7571	1.72	8.03	8.600	7.10%
E	750	HEAD	04/15/2021	24.3	22.8	0.20	1003	7571	1.74	8.78	8.700	-0.91%
G	750	HEAD	05/23/2021	22.2	22.2	0.20	1003	7357	1.69	8.78	8.450	-3.76%
P	835	HEAD	04/18/2021	24.0	23.0	0.20	4d047	7308	1.88	9.42	9.400	-0.21%
P	835	HEAD	04/20/2021	24.0	20.9	0.20	4d047	7308	1.84	9.42	9.200	-2.34%
J	835	HEAD	06/01/2021	21.7	21.7	0.20	4d133	7526	2.02	9.43	10.100	7.10%
J	1750	HEAD	04/11/2021	22.1	22.3	0.10	1150	7526	3.65	36.50	36.500	0.00%
G	1750	HEAD	05/16/2021	22.0	21.4	0.10	1150	7357	3.51	36.50	35.100	-3.84%
G	1750	HEAD	05/20/2021	23.8	22.4	0.10	1150	7357	3.76	36.50	37.600	3.01%
E	1900	HEAD	04/12/2021	23.3	23.2	0.10	5d080	7571	4.09	39.80	40.900	2.76%
E	1900	HEAD	05/31/2021	24.3	23.2	0.10	5d080	7571	3.98	39.80	39.800	0.00%
P	2300	HEAD	04/13/2021	23.5	22.5	0.10	1073	7308	4.83	49.20	48.300	-1.83%
P	2300	HEAD	04/22/2021	23.5	23.7	0.10	1073	7308	4.89	49.20	48.900	-0.61%
P	2450	HEAD	04/13/2021	23.5	22.5	0.10	719	7308	5.01	51.40	50.100	-2.53%
E	2450	HEAD	04/27/2021	23.3	24.0	0.10	719	7571	5.43	51.40	54.300	5.64%
L	2450	HEAD	06/01/2021	23.3	21.7	0.10	981	7539	5.34	52.30	53.400	2.10%
P	2600	HEAD	04/13/2021	23.5	22.5	0.10	1064	7308	5.85	58.10	58.500	0.69%
L	2600	HEAD	06/01/2021	23.3	21.7	0.10	1071	7539	5.69	56.10	56.900	1.43%
L	3500	HEAD	05/10/2021	22.0	20.0	0.10	1059	7539	6.39	63.70	63.900	0.31%
L	3500	HEAD	05/19/2021	22.1	19.9	0.10	1059	7539	6.56	63.70	65.600	2.98%
L	3700	HEAD	05/10/2021	22.0	20.0	0.10	1018	7539	6.81	67.00	68.100	1.64%
L	3700	HEAD	05/19/2021	22.1	19.9	0.10	1018	7539	7.00	67.00	70.000	4.48%
L	3900	HEAD	05/10/2021	22.0	20.0	0.10	1056	7539	7.17	68.90	71.700	4.06%
L	3900	HEAD	05/19/2021	22.1	19.9	0.10	1056	7539	7.20	68.90	72.000	4.50%
K	5250	HEAD	05/17/2021	22.8	20.7	0.05	1057	7538	4.03	79.70	80.600	1.13%
K	5600	HEAD	05/17/2021	22.8	20.7	0.05	1057	7538	4.31	83.80	86.200	2.86%
K	5750	HEAD	05/17/2021	22.8	20.7	0.05	1057	7538	3.92	80.10	78.400	-2.12%

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Table 10-13
System Verification Results – 1g Body

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 SAR1g (W/kg)	1W Target SAR1g (W/kg)	1W Normalized SAR 1g (W/kg)	Deviation1g (%)
G	750	BODY	04/14/2021	24.5	22.8	0.20	1003	7406	1.79	8.61	8.950	3.95%
G	750	BODY	04/25/2021	23.5	22.3	0.20	1003	7406	1.81	8.61	9.050	5.11%
G	750	BODY	04/27/2021	23.8	22.2	0.20	1003	7406	1.80	8.61	9.000	4.53%
G	750	BODY	05/02/2021	22.3	21.6	0.20	1003	7406	1.76	8.61	8.800	2.21%
G	750	BODY	05/04/2021	23.4	22.8	0.20	1003	7406	1.79	8.61	8.950	3.95%
G	750	BODY	05/09/2021	22.4	21.7	0.20	1003	7406	1.83	8.61	9.150	6.27%
H	835	BODY	04/23/2021	22.6	22.2	0.20	4d133	7410	2.04	9.75	10.200	4.62%
P	835	BODY	04/25/2021	18.4	20.0	0.20	4d047	7308	1.93	9.47	9.650	1.90%
P	835	BODY	04/27/2021	23.9	22.1	0.20	4d047	7308	2.00	9.47	10.000	5.60%
P	835	BODY	04/29/2021	24.3	21.4	0.20	4d047	7308	1.95	9.47	9.750	2.96%
P	835	BODY	05/03/2021	23.9	21.5	0.20	4d047	7308	1.91	9.47	9.550	0.84%
P	835	BODY	06/02/2021	23.1	22.2	0.20	4d047	7308	2.04	9.47	10.200	7.71%
H	1750	BODY	04/27/2021	22.4	22.7	0.10	1150	7410	3.75	36.60	37.500	2.46%
H	1750	BODY	05/02/2021	20.9	21.0	0.10	1150	7410	3.88	36.60	38.800	6.01%
H	1750	BODY	05/04/2021	21.7	22.0	0.10	1150	7410	3.61	36.60	36.100	-1.37%
H	1750	BODY	05/18/2021	23.0	21.1	0.10	1150	7410	3.94	36.60	39.400	7.65%
H	1750	BODY	05/20/2021	24.0	21.9	0.10	1150	7410	3.80	36.60	38.000	3.83%
H	1750	BODY	05/22/2021	22.4	21.0	0.10	1150	7410	3.88	36.60	38.800	6.01%
D	1900	BODY	04/21/2021	23.4	22.6	0.10	5d080	3589	4.15	39.20	41.500	5.87%
D	1900	BODY	05/02/2021	22.0	22.5	0.10	5d080	3589	4.09	39.20	40.900	4.34%
D	1900	BODY	05/05/2021	23.1	22.5	0.10	5d080	3589	4.14	39.20	41.400	5.61%
D	1900	BODY	05/16/2021	23.3	22.9	0.10	5d080	3589	4.01	39.20	40.100	2.30%
D	1900	BODY	05/19/2021	23.7	22.5	0.10	5d080	3589	4.10	39.20	41.000	4.59%
D	1900	BODY	05/22/2021	24.0	22.3	0.10	5d148	3589	4.10	39.10	41.000	4.86%
D	1900	BODY	05/31/2021	23.3	21.7	0.10	5d080	3589	4.11	39.20	41.100	4.85%
E	1900	BODY	06/02/2021	24.4	23.4	0.10	5d080	7571	4.12	39.20	41.200	5.10%
K	2300	BODY	04/08/2021	24.4	22.7	0.10	1073	7538	5.05	47.70	50.500	5.87%
K	2300	BODY	04/18/2021	24.0	22.1	0.10	1073	7538	4.73	47.70	47.300	-0.84%
L	2300	BODY	04/26/2021	23.0	23.6	0.10	1073	7539	4.90	47.70	49.000	2.73%
E	2300	BODY	05/19/2021	24.7	23.5	0.10	1073	7571	4.61	47.70	46.100	-3.35%
L	2450	BODY	04/15/2021	20.5	22.0	0.10	981	7539	4.98	50.10	49.800	-0.60%
L	2450	BODY	04/18/2021	22.9	22.3	0.10	981	7539	5.12	50.10	51.200	2.20%
K	2450	BODY	05/06/2021	22.6	22.4	0.10	719	7538	5.22	50.70	52.200	2.96%
K	2450	BODY	05/09/2021	22.9	21.4	0.10	719	7538	5.10	50.70	51.000	0.59%
K	2450	BODY	05/20/2021	24.0	21.7	0.10	719	7538	5.21	50.70	52.100	2.76%
E	2450	BODY	05/22/2021	24.3	23.0	0.10	719	7571	5.06	50.70	50.600	-0.20%
E	2450	BODY	05/25/2021	24.7	24.5	0.10	719	7571	5.12	50.70	51.200	0.99%
K	2450	BODY	05/26/2021	23.5	23.0	0.10	719	7538	5.34	50.70	53.400	5.33%
K	2450	BODY	06/02/2021	24.4	21.9	0.10	719	7538	5.36	50.70	53.600	5.72%
L	2600	BODY	04/15/2021	20.5	22.0	0.10	1071	7539	5.54	54.30	55.400	2.03%
L	2600	BODY	04/18/2021	22.9	22.3	0.10	1071	7539	5.30	54.30	53.000	-2.39%
E	2600	BODY	05/22/2021	24.3	23.0	0.10	1064	7571	5.39	55.60	53.900	-3.06%
E	2600	BODY	05/25/2021	24.7	24.5	0.10	1064	7571	5.56	55.60	55.600	0.00%
K	2600	BODY	06/02/2021	24.4	21.9	0.10	1064	7538	5.76	55.60	57.600	3.60%
I	3500	BODY	05/03/2021	20.0	20.0	0.10	1097	7551	6.77	64.20	67.700	5.45%
I	3500	BODY	05/15/2021	20.1	21.9	0.10	1097	7551	6.59	64.20	65.900	2.65%
I	3500	BODY	05/21/2021	21.0	21.0	0.10	1059	7551	6.81	63.00	68.100	8.10%
I	3500	BODY	05/24/2021	21.3	21.5	0.10	1097	7551	6.09	64.20	60.900	-5.14%
L	3500	BODY	05/28/2021	22.0	20.0	0.10	1097	7539	6.54	64.20	65.400	1.87%
I	3700	BODY	05/03/2021	20.0	20.0	0.10	1067	7551	6.53	65.20	65.300	0.15%
I	3700	BODY	05/15/2021	20.1	21.9	0.10	1067	7551	6.77	65.20	67.700	3.83%
I	3700	BODY	05/21/2021	21.0	21.0	0.10	1018	7551	5.81	63.50	58.100	-8.50%
I	3700	BODY	05/24/2021	21.3	21.5	0.10	1067	7551	5.93	65.20	59.300	-9.05%
L	3700	BODY	05/28/2021	22.0	20.0	0.10	1067	7539	6.89	65.20	68.900	5.67%
L	3700	BODY	06/03/2021	23.0	20.4	0.10	1067	7539	6.67	65.20	66.700	2.30%
I	3900	BODY	05/03/2021	20.0	20.0	0.10	1056	7551	6.34	66.30	63.400	-4.37%
I	3900	BODY	05/15/2021	20.1	21.9	0.10	1056	7551	6.74	66.30	67.400	1.66%
I	3900	BODY	05/21/2021	21.0	21.0	0.10	1056	7551	6.90	66.30	69.000	4.07%
I	3900	BODY	05/24/2021	21.3	21.5	0.10	1056	7551	6.90	66.30	69.000	4.07%
L	3900	BODY	05/28/2021	22.0	20.0	0.10	1056	7539	6.80	66.30	68.000	2.56%
J	5250	BODY	05/18/2021	20.9	22.2	0.05	1191	7526	3.54	74.60	70.800	-5.09%
J	5600	BODY	05/18/2021	20.9	22.2	0.05	1191	7526	3.67	78.10	73.400	-6.02%
J	5750	BODY	05/18/2021	20.9	22.2	0.05	1191	7526	3.59	74.90	71.800	-4.14%

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Table 10-14
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 SAR10g (W/kg)	1W Target SAR10g (W/kg)	1W Normalized SAR10g (W/kg)	Deviation10 g (%)
H	1750	BODY	05/02/2021	20.9	21.0	0.10	1150	7410	2.050	19.40	20.500	5.67%
H	1750	BODY	05/06/2021	21.7	21.1	0.10	1148	7410	1.960	19.30	19.600	1.55%
H	1750	BODY	05/18/2021	23.0	21.1	0.10	1150	7410	2.080	19.40	20.800	7.22%
D	1900	BODY	04/28/2021	23.4	22.3	0.10	5d080	3589	2.050	20.60	20.500	-0.49%
D	1900	BODY	05/02/2021	22.0	22.5	0.10	5d080	3589	2.100	20.60	21.000	1.94%
D	1900	BODY	05/19/2021	23.7	22.5	0.10	5d080	3589	2.120	20.60	21.200	2.91%
D	1900	BODY	05/22/2021	24.0	22.3	0.10	5d148	3589	2.110	20.50	21.100	2.93%
K	2300	BODY	04/11/2021	24.0	22.3	0.10	1073	7538	2.340	23.20	23.400	0.86%
L	2300	BODY	04/26/2021	23.0	23.6	0.10	1073	7539	2.360	23.20	23.600	1.72%
L	2450	BODY	04/15/2021	20.5	22.0	0.10	981	7539	2.230	23.70	22.300	-5.91%
L	2450	BODY	04/18/2021	22.9	22.3	0.10	981	7539	2.360	23.70	23.600	-0.42%
E	2450	BODY	05/22/2021	24.3	23.0	0.10	719	7571	2.330	23.90	23.300	-2.51%
K	2450	BODY	06/02/2021	24.4	21.9	0.10	719	7538	2.460	23.90	24.600	2.93%
L	2600	BODY	04/15/2021	20.5	22.0	0.10	1071	7539	2.380	24.10	23.800	-1.24%
L	2600	BODY	04/18/2021	22.9	22.3	0.10	1071	7539	2.340	24.10	23.400	-2.90%
E	2600	BODY	05/22/2021	24.3	23.0	0.10	1064	7571	2.360	25.00	23.600	-5.60%
K	2600	BODY	06/02/2021	24.4	21.9	0.10	1064	7538	2.550	25.00	25.500	2.00%
I	3500	BODY	05/31/2021	22.0	22.0	0.10	1097	7551	2.450	23.80	24.500	2.94%
L	3500	BODY	06/03/2021	23.0	20.4	0.10	1097	7539	2.420	23.80	24.200	1.68%
I	3700	BODY	05/31/2021	22.0	22.0	0.10	1067	7551	2.360	23.30	23.600	1.29%
L	3700	BODY	06/03/2021	23.0	20.4	0.10	1067	7539	2.440	23.30	24.400	4.72%
I	3900	BODY	05/31/2021	22.0	22.0	0.10	1056	7551	2.390	23.00	23.900	3.91%
L	3900	BODY	06/03/2021	23.0	20.4	0.10	1056	7539	2.340	23.00	23.400	1.74%
J	5250	BODY	05/18/2021	20.9	22.2	0.05	1191	7526	0.998	21.00	19.960	-4.95%
J	5600	BODY	05/18/2021	20.9	22.2	0.05	1191	7526	1.020	21.70	20.400	-5.99%
J	5750	BODY	05/18/2021	20.9	22.2	0.05	1191	7526	1.010	20.80	20.200	-2.88%

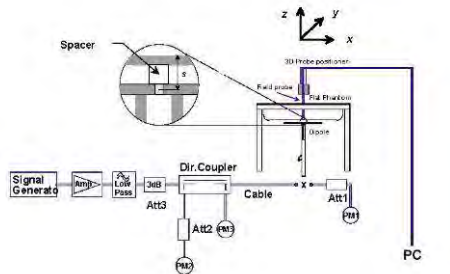


Figure 10-1
System Verification Setup Diagram



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 BC0 (\$22H) Head SAR - Open

MEASUREMENT RESULTS															
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Tune State	Power Drift [dB]	Side	Test Position	Device Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.											(W/kg)		(W/kg)	
848.31	777	Cell. CDMA	RC3 / SO55	25.0	24.60	0	-0.05	Right	Cheek	0759M	1:1	0.215	1.096	0.236	A1
848.31	777	Cell. CDMA	RC3 / SO55	25.0	24.60	0	0.06	Right	Tilt	0759M	1:1	0.093	1.096	0.102	
848.31	777	Cell. CDMA	RC3 / SO55	25.0	24.60	0	0.13	Left	Cheek	0759M	1:1	0.187	1.096	0.205	
848.31	777	Cell. CDMA	RC3 / SO55	25.0	24.60	0	0.05	Left	Tilt	0759M	1:1	0.104	1.096	0.114	
848.31	777	Cell. CDMA	EVDO Rev. A	24.5	23.08	0	0.03	Right	Cheek	0759M	1:1	0.170	1.387	0.236	
848.31	777	Cell. CDMA	EVDO Rev. A	24.5	23.08	0	-0.08	Right	Tilt	0759M	1:1	0.095	1.387	0.132	
848.31	777	Cell. CDMA	EVDO Rev. A	24.5	23.08	0	0.14	Left	Cheek	0759M	1:1	0.162	1.387	0.225	
848.31	777	Cell. CDMA	EVDO Rev. A	24.5	23.08	0	0.02	Left	Tilt	0759M	1:1	0.096	1.387	0.133	
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 11-2
PCS CDMA Head SAR - Open

MEASUREMENT RESULTS															
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Tune State	Power Drift [dB]	Side	Test Position	Device Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.											(W/kg)		(W/kg)	
1880.00	600	PCS CDMA	RC3 / SO55	24.0	23.71	15	0.15	Right	Cheek	0760M	1:1	0.071	1.069	0.076	
1880.00	600	PCS CDMA	RC3 / SO55	24.0	23.71	15	0.16	Right	Tilt	0760M	1:1	0.073	1.069	0.078	
1880.00	600	PCS CDMA	RC3 / SO55	24.0	23.71	15	0.09	Left	Cheek	0760M	1:1	0.085	1.069	0.091	A2
1880.00	600	PCS CDMA	RC3 / SO55	24.0	23.71	15	0.16	Left	Tilt	0760M	1:1	0.053	1.069	0.057	
1880.00	600	PCS CDMA	EVDO Rev. A	24.0	23.26	19	0.04	Right	Cheek	0760M	1:1	0.078	1.186	0.093	
1880.00	600	PCS CDMA	EVDO Rev. A	24.0	23.26	19	0.18	Right	Tilt	0760M	1:1	0.064	1.186	0.076	
1880.00	600	PCS CDMA	EVDO Rev. A	24.0	23.26	15	-0.04	Left	Cheek	0760M	1:1	0.083	1.186	0.098	
1880.00	600	PCS CDMA	EVDO Rev. A	24.0	23.26	15	0.20	Left	Tilt	0760M	1:1	0.082	1.186	0.097	
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 11-3
GSM 850 Head SAR - Open

MEASUREMENT RESULTS															
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Side	Test Position	Device Serial Number	# of Time Slots	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.											(W/kg)		(W/kg)	
824.20	128	GSM 850	GSM	33.0	32.00	0.13	Right	Cheek	0747M	1	1:8.3	0.104	1.259	0.131	A3
824.20	128	GSM 850	GSM	33.0	32.00	0.16	Right	Tilt	0747M	1	1:8.3	0.055	1.259	0.069	
824.20	128	GSM 850	GSM	33.0	32.00	0.12	Left	Cheek	0747M	1	1:8.3	0.094	1.259	0.118	
824.20	128	GSM 850	GSM	33.0	32.00	-0.04	Left	Tilt	0747M	1	1:8.3	0.054	1.259	0.068	
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 11-4
GMS 1900 Head SAR - Open

MEASUREMENT RESULTS															
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Side	Test Position	Device Serial Number	# of Time Slots	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.											(W/kg)		(W/kg)	
1850.20	512	GSM 1900	GSM	30.0	29.25	0.15	Right	Cheek	0760M	1	1:8.3	0.039	1.189	0.046	
1850.20	512	GSM 1900	GSM	30.0	29.25	-0.02	Right	Tilt	0760M	1	1:8.3	0.033	1.189	0.039	
1850.20	512	GSM 1900	GSM	30.0	29.25	0.07	Left	Cheek	0760M	1	1:8.3	0.040	1.189	0.048	A4
1850.20	512	GSM 1900	GSM	30.0	29.25	0.15	Left	Tilt	0760M	1	1:8.3	0.028	1.189	0.033	
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
UMTS 850 Head SAR – Open

MEASUREMENT RESULTS															
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Tune State	Power Drift [dB]	Side	Test Position	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	25.0	24.49	0	0.19	Right	Cheek	0747M	1:1	0.184	1.125	0.207	A5
836.60	4183	UMTS 850	RMC	25.0	24.49	0	0.03	Right	Tilt	0747M	1:1	0.087	1.125	0.098	
836.60	4183	UMTS 850	RMC	25.0	24.49	2	0.05	Left	Cheek	0747M	1:1	0.183	1.125	0.206	
836.60	4183	UMTS 850	RMC	25.0	24.49	2	0.01	Left	Tilt	0747M	1:1	0.103	1.125	0.116	
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 11-6
UMTS 1750 Head SAR - Open

MEASUREMENT RESULTS															
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Tune State	Power Drift [dB]	Side	Test Position	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	24.0	23.70	0	-0.15	Right	Cheek	0760M	1:1	0.087	1.072	0.093	A6
1732.40	1412	UMTS 1750	RMC	24.0	23.70	0	0.08	Right	Tilt	0760M	1:1	0.039	1.072	0.042	
1732.40	1412	UMTS 1750	RMC	24.0	23.70	0	0.09	Left	Cheek	0760M	1:1	0.079	1.072	0.085	
1732.40	1412	UMTS 1750	RMC	24.0	23.70	0	0.13	Left	Tilt	0760M	1:1	0.051	1.072	0.055	
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 11-7
UMTS 1900 Head SAR - Open

MEASUREMENT RESULTS															
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Tune State	Power Drift [dB]	Side	Test Position	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	24.0	23.82	15	0.11	Right	Cheek	0765M	1:1	0.090	1.042	0.094	A7
1880.00	9400	UMTS 1900	RMC	24.0	23.82	15	0.07	Right	Tilt	0765M	1:1	0.032	1.042	0.033	
1880.00	9400	UMTS 1900	RMC	24.0	23.82	15	0.21	Left	Cheek	0765M	1:1	0.040	1.042	0.042	
1880.00	9400	UMTS 1900	RMC	24.0	23.82	15	0.04	Left	Tilt	0765M	1:1	0.022	1.042	0.023	
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
LTE Band 71 Head SAR - Open

MEASUREMENT RESULTS																	
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Tune State	Power Drift [dB]	MPR [dB]	Side	Test Position	Modulation	RB Size	RB Offset	Device Serial Number	Duty Cycle	SAR (1g)	Reported SAR (1g)
MHz	Ch.															(W/kg)	(W/kg)
680.50	133297	Mid	LTE Band 71	20	24.11	0	0.06	0	Right	Cheek	QPSK	1	50	0829M	1:1	0.153	0.211
680.50	133297	Mid	LTE Band 71	20	24.5	0	0.06	1	Right	Cheek	QPSK	50	25	0829M	1:1	0.128	0.170
680.50	133297	Mid	LTE Band 71	20	25.5	4	0.03	0	Right	Tilt	QPSK	1	50	0829M	1:1	0.080	0.110
680.50	133297	Mid	LTE Band 71	20	24.5	4	0.02	1	Right	Tilt	QPSK	50	25	0829M	1:1	0.064	0.085
680.50	133297	Mid	LTE Band 71	20	25.5	0	0.04	0	Left	Cheek	QPSK	1	50	0829M	1:1	0.163	0.224
680.50	133297	Mid	LTE Band 71	20	24.5	0	0.04	1	Left	Cheek	QPSK	50	25	0829M	1:1	0.135	0.180
680.50	133297	Mid	LTE Band 71	20	25.5	4	0.16	0	Left	Tilt	QPSK	1	50	0829M	1:1	0.029	0.040
680.50	133297	Mid	LTE Band 71	20	24.5	4	0.04	1	Left	Tilt	QPSK	50	25	0829M	1:1	0.025	0.033
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 11-9
LTE Band 12 Head SAR - Open

MEASUREMENT RESULTS																				
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Tune State	Power Drift [dB]	MPR [dB]	Side	Test Position	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	25.5	24.25	0	0.04	0	Right	Cheek	QPSK	1	25	0829M	1:1	0.172	1.334	0.229	
707.50	23095	Mid	LTE Band 12	10	24.5	23.40	0	0.02	1	Right	Cheek	QPSK	25	12	0829M	1:1	0.147	1.288	0.189	
707.50	23095	Mid	LTE Band 12	10	25.5	24.25	0	0.01	0	Right	Tilt	QPSK	1	25	0829M	1:1	0.090	1.334	0.120	
707.50	23095	Mid	LTE Band 12	10	24.5	23.40	0	0.07	1	Right	Tilt	QPSK	25	12	0829M	1:1	0.080	1.288	0.103	
707.50	23095	Mid	LTE Band 12	10	25.5	24.25	0	0.04	0	Left	Cheek	QPSK	1	25	0829M	1:1	0.195	1.334	0.260	A9
707.50	23095	Mid	LTE Band 12	10	24.5	23.40	0	0.05	1	Left	Cheek	QPSK	25	12	0829M	1:1	0.155	1.288	0.200	
707.50	23095	Mid	LTE Band 12	10	25.5	24.25	0	0.09	0	Left	Tilt	QPSK	1	25	0829M	1:1	0.097	1.334	0.129	
707.50	23095	Mid	LTE Band 12	10	24.5	23.40	0	0.06	1	Left	Tilt	QPSK	25	12	0829M	1:1	0.076	1.288	0.098	
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 11-10
LTE Band 13 Head SAR - Open

MEASUREMENT RESULTS																				
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Tune State	Power Drift [dB]	MPR [dB]	Side	Test Position	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	25.5	24.27	0	0.04	0	Right	Cheek	QPSK	1	49	0829M	1:1	0.216	1.327	0.287	A10
782.00	23230	Mid	LTE Band 13	10	24.5	23.33	0	0.06	1	Right	Cheek	QPSK	25	0	0829M	1:1	0.149	1.309	0.195	
782.00	23230	Mid	LTE Band 13	10	25.5	24.27	0	0.00	0	Right	Tilt	QPSK	1	49	0829M	1:1	0.105	1.327	0.139	
782.00	23230	Mid	LTE Band 13	10	24.5	23.33	0	0.09	1	Right	Tilt	QPSK	25	0	0829M	1:1	0.072	1.309	0.094	
782.00	23230	Mid	LTE Band 13	10	25.5	24.27	0	-0.01	0	Left	Cheek	QPSK	1	49	0829M	1:1	0.143	1.327	0.190	
782.00	23230	Mid	LTE Band 13	10	24.5	23.33	0	0.13	1	Left	Cheek	QPSK	25	0	0829M	1:1	0.125	1.309	0.164	
782.00	23230	Mid	LTE Band 13	10	25.5	24.27	0	0.09	0	Left	Tilt	QPSK	1	49	0829M	1:1	0.076	1.327	0.101	
782.00	23230	Mid	LTE Band 13	10	24.5	23.33	0	0.07	1	Left	Tilt	QPSK	25	0	0829M	1:1	0.063	1.309	0.082	
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 11-11
LTE Band 14 Head SAR – Open

MEASUREMENT RESULTS																				
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Tune State	Power Drift [dB]	MPR [dB]	Side	Test Position	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	25.5	24.20	0	-0.01	0	Right	Cheek	QPSK	1	0	0829M	1:1	0.207	1.349	0.279	A11
793.00	23330	Mid	LTE Band 14	10	24.5	23.34	0	0.03	1	Right	Cheek	QPSK	25	12	0829M	1:1	0.170	1.306	0.222	
793.00	23330	Mid	LTE Band 14	10	25.5	24.20	0	0.05	0	Right	Tilt	QPSK	1	0	0829M	1:1	0.092	1.349	0.124	
793.00	23330	Mid	LTE Band 14	10	24.5	23.34	0	0.08	1	Right	Tilt	QPSK	25	12	0829M	1:1	0.084	1.306	0.110	
793.00	23330	Mid	LTE Band 14	10	25.5	24.20	0	0.03	0	Left	Cheek	QPSK	1	0	0829M	1:1	0.153	1.349	0.206	
793.00	23330	Mid	LTE Band 14	10	24.5	23.34	0	0.08	1	Left	Cheek	QPSK	25	12	0829M	1:1	0.128	1.306	0.167	
793.00	23330	Mid	LTE Band 14	10	25.5	24.20	0	0.03	0	Left	Tilt	QPSK	1	0	0829M	1:1	0.081	1.349	0.109	
793.00	23330	Mid	LTE Band 14	10	24.5	23.34	0	0.16	1	Left	Tilt	QPSK	25	12	0829M	1:1	0.064	1.306	0.084	
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 11-12
LTE Band 26 (Cell) Head SAR – Open

MEASUREMENT RESULTS																				
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Tune State	Power Drift [dB]	MPR [dB]	Side	Test Position	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	25.3	24.00	3	-0.05	0	Right	Cheek	QPSK	1	74	0829M	1:1	0.229	1.349	0.309	A12
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.3	23.05	3	0.01	1	Right	Cheek	QPSK	36	37	0829M	1:1	0.164	1.334	0.219	
831.50	26865	Mid	LTE Band 26 (Cell)	15	25.3	24.00	3	0.02	0	Right	Tilt	QPSK	1	74	0829M	1:1	0.106	1.349	0.143	
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.3	23.05	3	0.10	1	Right	Tilt	QPSK	36	37	0829M	1:1	0.082	1.334	0.109	
831.50	26865	Mid	LTE Band 26 (Cell)	15	25.3	24.00	3	0.03	0	Left	Cheek	QPSK	1	74	0829M	1:1	0.177	1.349	0.239	
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.3	23.05	3	0.14	1	Left	Cheek	QPSK	36	37	0829M	1:1	0.150	1.334	0.200	
831.50	26865	Mid	LTE Band 26 (Cell)	15	25.3	24.00	3	0.16	0	Left	Tilt	QPSK	1	74	0829M	1:1	0.100	1.349	0.135	
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.3	23.05	3	0.12	1	Left	Tilt	QPSK	36	37	0829M	1:1	0.083	1.334	0.111	
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 5 (Cell) Head SAR – Open

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	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	25.3	23.67	0	0.00	0	Right	Cheek	QPSK	1	49	0122M	1:1	0.187	1.455	0.272	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	24.3	22.62	0	0.09	1	Right	Cheek	QPSK	25	25	0122M	1:1	0.152	1.472	0.224	
2 CC Uplink	PCC	836.50	20525	Mid	LTE Band 5 (Cell)	10	25.3	23.90	0	0.02	0	Right	Cheek	QPSK	1	49	0122M	1:1	0.188	1.380	0.259	A13
	SCC	843.70	20597			5									1	0						
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	25.3	23.67	2	0.07	0	Right	Tilt	QPSK	1	49	0122M	1:1	0.088	1.455	0.128	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	24.3	22.62	2	-0.01	1	Right	Tilt	QPSK	25	25	0122M	1:1	0.074	1.472	0.109	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	25.3	23.67	2	0.04	0	Left	Cheek	QPSK	1	49	0122M	1:1	0.162	1.455	0.236	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	24.3	22.62	2	-0.04	1	Left	Cheek	QPSK	25	25	0122M	1:1	0.132	1.472	0.194	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	25.3	23.67	2	0.03	0	Left	Tilt	QPSK	1	49	0122M	1:1	0.100	1.455	0.146	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	24.3	22.62	2	0.15	1	Left	Tilt	QPSK	25	25	0122M	1:1	0.083	1.472	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 11-14
LTE Band 66 (AWS) Head SAR - Open

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	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	1770.00	132572	High	LTE Band 66 (AWS)	20	25.0	23.82	13	0.01	0	Right	Cheek	QPSK	1	0	1916M	1:1	0.109	1.312	0.143	
1 CC Uplink	N/A	1770.00	132572	High	LTE Band 66 (AWS)	20	25.0	23.91	13	0.00	0	Right	Cheek	QPSK	1	99	1916M	1:1	0.105	1.285	0.135	
1 CC Uplink	N/A	1770.00	132572	High	LTE Band 66 (AWS)	20	24.0	23.04	13	0.00	1	Right	Cheek	QPSK	50	25	1916M	1:1	0.100	1.247	0.125	
1 CC Uplink	N/A	1775.00	132622	High	LTE Band 66 (AWS)	10	25.0	23.61	13	-0.14	0	Right	Cheek	QPSK	1	0	1916M	1:1	0.108	1.377	0.149	
2 CC Uplink CA_66C	PCC	1770.00	132572	High	LTE Band 66 (AWS)	20	25.0	24.31	13	0.01	0	Right	Cheek	QPSK	1	0	1916M	1:1	0.118	1.172	0.138	
	SCC	1750.20	132374													99						
2 CC Uplink CA_66B	PCC	1775.00	132622	High	LTE Band 66 (AWS)	10	25.0	24.19	13	0.00	0	Right	Cheek	QPSK	1	0	1916M	1:1	0.125	1.205	0.151	A14
	SCC	1765.10	132523													49						
1 CC Uplink	N/A	1770.00	132572	High	LTE Band 66 (AWS)	20	25.0	23.91	14	-0.21	0	Right	Tilt	QPSK	1	99	1916M	1:1	0.051	1.285	0.066	
1 CC Uplink	N/A	1770.00	132572	High	LTE Band 66 (AWS)	20	24.0	23.04	14	0.00	1	Right	Tilt	QPSK	50	25	1916M	1:1	0.039	1.247	0.049	
1 CC Uplink	N/A	1770.00	132572	High	LTE Band 66 (AWS)	20	25.0	23.91	13	0.00	0	Left	Cheek	QPSK	1	99	1916M	1:1	0.049	1.285	0.063	
1 CC Uplink	N/A	1770.00	132572	High	LTE Band 66 (AWS)	20	24.0	23.04	13	0.02	1	Left	Cheek	QPSK	50	25	1916M	1:1	0.040	1.247	0.050	
1 CC Uplink	N/A	1770.00	132572	High	LTE Band 66 (AWS)	20	25.0	23.91	14	0.18	0	Left	Tilt	QPSK	1	99	1916M	1:1	0.037	1.285	0.048	
1 CC Uplink	N/A	1770.00	132572	High	LTE Band 66 (AWS)	20	24.0	23.04	14	0.00	1	Left	Tilt	QPSK	50	25	1916M	1:1	0.038	1.247	0.047	
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 11-15
LTE Band 25 (PCS) Head SAR - Open

MEASUREMENT RESULTS																				
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Tune State	Power Drift [dB]	MPR [dB]	Side	Test Position	Modulation	RB Size	RB Offset	Device Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.															(W/kg)		(W/kg)		
1882.50	26365	Mid	LTE Band 25 (PCS)	20	25.0	24.37	2	0.18	0	Right	Cheek	QPSK	1	0	0748M	1:1	0.104	1.156	0.120	A15
1882.50	26365	Mid	LTE Band 25 (PCS)	20	24.0	23.40	2	0.01	1	Right	Cheek	QPSK	50	25	0748M	1:1	0.086	1.148	0.099	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	25.0	24.37	21	0.01	0	Right	Tilt	QPSK	1	0	0748M	1:1	0.049	1.156	0.057	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	24.0	23.40	21	0.02	1	Right	Tilt	QPSK	50	25	0748M	1:1	0.043	1.148	0.049	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	25.0	24.37	2	-0.04	0	Left	Cheek	QPSK	1	0	0748M	1:1	0.104	1.156	0.120	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	24.0	23.40	2	0.01	1	Left	Cheek	QPSK	50	25	0748M	1:1	0.076	1.148	0.087	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	25.0	24.37	21	0.13	0	Left	Tilt	QPSK	1	0	0748M	1:1	0.073	1.156	0.084	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	24.0	23.40	21	0.15	1	Left	Tilt	QPSK	50	25	0748M	1:1	0.039	1.148	0.045	
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 11-16
LTE Band 30 Head SAR – Open

MEASUREMENT RESULTS																			
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Side	Test Position	Modulation	RB Size	RB Offset	Device Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.														(W/kg)		(W/kg)		
2310.00	27710	Mid	LTE Band 30	10	24.0	23.40	0.05	0	Right	Cheek	QPSK	1	0	0745M	1:1	0.028	1.148	0.032	
2310.00	27710	Mid	LTE Band 30	10	23.0	22.45	0.07	1	Right	Cheek	QPSK	25	0	0745M	1:1	0.023	1.135	0.026	
2310.00	27710	Mid	LTE Band 30	10	24.0	23.40	0.06	0	Right	Tilt	QPSK	1	0	0745M	1:1	0.015	1.148	0.017	
2310.00	27710	Mid	LTE Band 30	10	23.0	22.45	0.09	1	Right	Tilt	QPSK	25	0	0745M	1:1	0.010	1.135	0.011	
2310.00	27710	Mid	LTE Band 30	10	24.0	23.40	0.03	0	Left	Cheek	QPSK	1	0	0745M	1:1	0.037	1.148	0.042	A16
2310.00	27710	Mid	LTE Band 30	10	23.0	22.45	0.04	1	Left	Cheek	QPSK	25	0	0745M	1:1	0.028	1.135	0.032	
2310.00	27710	Mid	LTE Band 30	10	24.0	23.40	0.02	0	Left	Tilt	QPSK	1	0	0745M	1:1	0.011	1.148	0.013	
2310.00	27710	Mid	LTE Band 30	10	23.0	22.45	0.03	1	Left	Tilt	QPSK	25	0	0745M	1:1	0.006	1.135	0.007	
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 11-17
LTE Band 7 Head SAR - Open

MEASUREMENT RESULTS																			
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Side	Test Position	Modulation	RB Size	RB Offset	Device Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.														(W/kg)		(W/kg)		
2535.00	21100	Mid	LTE Band 7	20	25.0	24.02	-0.02	0	Right	Cheek	QPSK	1	0	0126M	1:1	0.045	1.253	0.056	A17
2535.00	21100	Mid	LTE Band 7	20	24.0	23.08	0.08	1	Right	Cheek	QPSK	50	25	0126M	1:1	0.032	1.236	0.040	
2535.00	21100	Mid	LTE Band 7	20	25.0	24.02	0.09	0	Right	Tilt	QPSK	1	0	0126M	1:1	0.013	1.253	0.016	
2535.00	21100	Mid	LTE Band 7	20	24.0	23.08	0.02	1	Right	Tilt	QPSK	50	25	0126M	1:1	0.005	1.236	0.006	
2535.00	21100	Mid	LTE Band 7	20	25.0	24.02	-0.01	0	Left	Cheek	QPSK	1	0	0126M	1:1	0.030	1.253	0.038	
2535.00	21100	Mid	LTE Band 7	20	24.0	23.08	0.10	1	Left	Cheek	QPSK	50	25	0126M	1:1	0.026	1.236	0.032	
2535.00	21100	Mid	LTE Band 7	20	25.0	24.02	0.06	0	Left	Tilt	QPSK	1	0	0126M	1:1	0.005	1.253	0.006	
2535.00	21100	Mid	LTE Band 7	20	24.0	23.08	0.10	1	Left	Tilt	QPSK	50	25	0126M	1:1	0.004	1.236	0.005	
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 11-18
LTE Band 48 Head SAR - Open

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	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	3690.00	56640	High	LTE Band 48	20	18.0	17.23	0.00	0	Right	Cheek	QPSK	1	0	0881M	1:1.58	0.502	1.194	0.599	
1 CC Uplink	N/A	3560.00	55340	Low	LTE Band 48	20	18.0	17.11	0.00	0	Right	Cheek	QPSK	50	50	0881M	1:1.58	0.347	1.227	0.426	
1 CC Uplink	N/A	3603.30	55773	Low-Mid	LTE Band 48	20	18.0	17.12	0.02	0	Right	Cheek	QPSK	50	50	0881M	1:1.58	0.394	1.225	0.483	
1 CC Uplink	N/A	3646.70	56207	Mid-High	LTE Band 48	20	18.0	17.21	0.01	0	Right	Cheek	QPSK	50	50	0881M	1:1.58	0.457	1.199	0.548	
1 CC Uplink	N/A	3690.00	56640	High	LTE Band 48	20	18.0	17.22	0.01	0	Right	Cheek	QPSK	50	0	0881M	1:1.58	0.512	1.197	0.613	A18
1 CC Uplink	N/A	3690.00	56640	High	LTE Band 48	20	18.0	17.21	0.02	0	Right	Cheek	QPSK	100	0	0881M	1:1.58	0.505	1.199	0.605	
2 CC Uplink	PCC	3690.00	56640	High	LTE Band 48	20	18.0	17.27	0.01	0	Right	Cheek	QPSK	50	0	0881M	1:1.58	0.493	1.183	0.583	
	SCC	3670.20	56442											50	50						
1 CC Uplink	N/A	3690.00	56640	High	LTE Band 48	20	18.0	17.23	0.00	0	Right	Tilt	QPSK	1	0	0881M	1:1.58	0.358	1.194	0.427	
1 CC Uplink	N/A	3690.00	56640	High	LTE Band 48	20	18.0	17.22	0.00	0	Right	Tilt	QPSK	50	0	0881M	1:1.58	0.373	1.197	0.446	
1 CC Uplink	N/A	3690.00	56640	High	LTE Band 48	20	18.0	17.23	0.00	0	Left	Cheek	QPSK	1	0	0881M	1:1.58	0.373	1.194	0.445	
1 CC Uplink	N/A	3690.00	56640	High	LTE Band 48	20	18.0	17.22	0.00	0	Left	Cheek	QPSK	50	0	0881M	1:1.58	0.370	1.197	0.443	
1 CC Uplink	N/A	3690.00	56640	High	LTE Band 48	20	18.0	17.23	0.00	0	Left	Tilt	QPSK	1	0	0881M	1:1.58	0.266	1.194	0.318	
1 CC Uplink	N/A	3690.00	56640	High	LTE Band 48	20	18.0	17.22	0.01	0	Left	Tilt	QPSK	50	0	0881M	1:1.58	0.258	1.197	0.309	
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 11-19
LTE Band 41 Head SAR - Open

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	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	25.5	24.54	0.05	0	Right	Cheek	QPSK	1	50	0123M	1:1.58	0.074	1.247	0.092	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	24.5	23.60	0.05	1	Right	Cheek	QPSK	50	50	0123M	1:1.58	0.051	1.230	0.063	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	25.5	24.54	0.07	0	Right	Tilt	QPSK	1	50	0123M	1:1.58	0.042	1.247	0.052	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	24.5	23.60	0.08	1	Right	Tilt	QPSK	50	50	0123M	1:1.58	0.031	1.230	0.038	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	25.5	24.12	0.04	0	Left	Cheek	QPSK	1	0	0123M	1:1.58	0.072	1.374	0.099	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	25.5	24.54	0.10	0	Left	Cheek	QPSK	1	50	0123M	1:1.58	0.080	1.247	0.100	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	24.5	23.60	0.02	1	Left	Cheek	QPSK	50	50	0123M	1:1.58	0.077	1.230	0.095	
1 CC Uplink - Power Class 2	N/A	2680.00	41490	High	LTE Band 41	20	28.0	26.51	0.00	0	Left	Cheek	QPSK	1	0	0123M	1:2.31	0.084	1.409	0.118	
1 CC Uplink - Power Class 2	N/A	2680.00	41490	High	LTE Band 41	20	28.0	26.99	0.10	0	Left	Cheek	QPSK	1	50	0123M	1:2.31	0.096	1.262	0.121	A19
2 CC Uplink - Power Class 3	PCC	2680.00	41490	High	LTE Band 41	20	25.5	24.85	0.18	0	Left	Cheek	QPSK	1	0	0123M	1:1.58	0.081	1.161	0.094	
	SCC	2660.20	41292											99							
2 CC Uplink - Power Class 2	PCC	2680.00	41490	High	LTE Band 41	20	28.0	26.67	0.15	0	Left	Cheek	QPSK	1	0	0123M	1:2.31	0.080	1.358	0.109	
	SCC	2660.20	41292											99							
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	25.5	24.54	0.07	0	Left	Tilt	QPSK	1	50	0123M	1:1.58	0.044	1.247	0.055	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	24.5	23.60	0.06	1	Left	Tilt	QPSK	50	50	0123M	1:1.58	0.034	1.230	0.042	
											Head 1.6 W/kg (mW/g) averaged over 1 gram										

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Table 11-20
NR Band n71 Head SAR - Open

MEASUREMENT RESULTS																					
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Side	Test Position	Tune State	Waveform	Modulation	RB Size	RB Offset	Serial Number	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g) (W/kg)	Plot #
MHz	Ch.																	(W/kg)			
680.50	136100	Mid	NR Band n71	20	25.5	24.19	-0.01	0	Right	Cheek	0	DFT-S-OFDM	QPSK	1	1	0175M	1:1	0.138	1.352	0.187	
680.50	136100	Mid	NR Band n71	20	25.5	24.22	-0.04	0	Right	Cheek	0	DFT-S-OFDM	QPSK	50	28	0175M	1:1	0.188	1.343	0.252	
680.50	136100	Mid	NR Band n71	20	25.5	24.19	0.02	0	Right	Tilt	4	DFT-S-OFDM	QPSK	1	1	0175M	1:1	0.071	1.352	0.096	
680.50	136100	Mid	NR Band n71	20	25.5	24.22	0.00	0	Right	Tilt	4	DFT-S-OFDM	QPSK	50	28	0175M	1:1	0.085	1.343	0.114	
680.50	136100	Mid	NR Band n71	20	25.5	24.19	0.02	0	Left	Cheek	0	DFT-S-OFDM	QPSK	1	1	0175M	1:1	0.190	1.352	0.257	
680.50	136100	Mid	NR Band n71	20	25.5	24.22	0.02	0	Left	Cheek	0	DFT-S-OFDM	QPSK	50	28	0175M	1:1	0.208	1.343	0.279	A20
680.50	136100	Mid	NR Band n71	20	24.0	23.21	0.01	1.5	Left	Cheek	0	CP-OFDM	QPSK	1	1	0175M	1:1	0.126	1.199	0.151	
680.50	136100	Mid	NR Band n71	20	25.5	24.19	0.02	0	Left	Tilt	4	DFT-S-OFDM	QPSK	1	1	0175M	1:1	0.106	1.352	0.143	
680.50	136100	Mid	NR Band n71	20	25.5	24.22	0.01	0	Left	Tilt	4	DFT-S-OFDM	QPSK	50	28	0175M	1:1	0.106	1.343	0.142	
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 11-21
NR Band n12 Head SAR - Open

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Side	Test Position	Tune 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)		
707.50	141500	Mid	NR Band n12	15	25.5	23.95	0.02	0	Right	Cheek	0	DFT-S-OFDM	QPSK	1	1	0177M	1:1	0.208	1.429	0.297	
707.50	141500	Mid	NR Band n12	15	25.5	24.03	0.01	0	Right	Cheek	0	DFT-S-OFDM	QPSK	36	22	0177M	1:1	0.212	1.403	0.297	
707.50	141500	Mid	NR Band n12	15	25.5	23.95	0.02	0	Right	Tilt	0	DFT-S-OFDM	QPSK	1	1	0177M	1:1	0.104	1.429	0.149	
707.50	141500	Mid	NR Band n12	15	25.5	24.03	0.02	0	Right	Tilt	0	DFT-S-OFDM	QPSK	36	22	0177M	1:1	0.108	1.403	0.152	
707.50	141500	Mid	NR Band n12	15	25.5	23.95	0.00	0	Left	Cheek	0	DFT-S-OFDM	QPSK	1	1	0177M	1:1	0.234	1.429	0.334	
707.50	141500	Mid	NR Band n12	15	25.5	24.03	0.02	0	Left	Cheek	0	DFT-S-OFDM	QPSK	36	22	0177M	1:1	0.242	1.403	0.340	A21
707.50	141500	Mid	NR Band n12	15	24.0	23.12	0.02	1.5	Left	Cheek	0	CP-OFDM	QPSK	1	1	0177M	1:1	0.177	1.225	0.217	
707.50	141500	Mid	NR Band n12	15	25.5	23.95	0.09	0	Left	Tilt	0	DFT-S-OFDM	QPSK	1	1	0177M	1:1	0.102	1.429	0.146	
707.50	141500	Mid	NR Band n12	15	25.5	24.03	0.02	0	Left	Tilt	0	DFT-S-OFDM	QPSK	36	22	0177M	1:1	0.131	1.403	0.184	
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 11-22
NR Band n5 Head SAR - Open

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Side	Test Position	Tune 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	25.3	23.80	0.01	0	Right	Cheek	0	DFT-S-OFDM	QPSK	1	53	0183M	1:1	0.228	1.413	0.322	A22
836.50	167300	Mid	NR Band n5 (Cell)	20	25.3	23.84	0.03	0	Right	Cheek	0	DFT-S-OFDM	QPSK	50	28	0183M	1:1	0.225	1.400	0.315	
836.50	167300	Mid	NR Band n5 (Cell)	20	23.8	22.62	0.01	1.5	Right	Cheek	0	CP-OFDM	QPSK	1	1	0183M	1:1	0.129	1.312	0.169	
836.50	167300	Mid	NR Band n5 (Cell)	20	25.3	23.80	0.08	0	Right	Tilt	2	DFT-S-OFDM	QPSK	1	53	0183M	1:1	0.120	1.413	0.170	
836.50	167300	Mid	NR Band n5 (Cell)	20	25.3	23.84	0.01	0	Right	Tilt	2	DFT-S-OFDM	QPSK	50	28	0183M	1:1	0.122	1.400	0.171	
836.50	167300	Mid	NR Band n5 (Cell)	20	25.3	23.80	0.01	0	Left	Cheek	2	DFT-S-OFDM	QPSK	1	53	0183M	1:1	0.205	1.413	0.290	
836.50	167300	Mid	NR Band n5 (Cell)	20	25.3	23.84	0.01	0	Left	Cheek	2	DFT-S-OFDM	QPSK	50	28	0183M	1:1	0.199	1.400	0.279	
836.50	167300	Mid	NR Band n5 (Cell)	20	25.3	23.80	0.20	0	Left	Tilt	2	DFT-S-OFDM	QPSK	1	53	0183M	1:1	0.120	1.413	0.170	
836.50	167300	Mid	NR Band n5 (Cell)	20	25.3	23.84	0.10	0	Left	Tilt	2	DFT-S-OFDM	QPSK	50	28	0183M	1:1	0.121	1.400	0.169	
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 11-23
NR Band n66 Head SAR - Open

MEASUREMENT RESULTS																						
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Antenna Config	Power Drift [dB]	MPR [dB]	Side	Test Position	Tune 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	24.5	23.90	A	0.00	0	Right	Cheek	13	DFT-S-OFDM	QPSK	1	214	0218M	1:1	0.108	1.148	0.124	
1745.00	349000	Mid	NR Band n66 (AWS)	40	24.5	23.85	A	-0.03	0	Right	Cheek	13	DFT-S-OFDM	QPSK	108	54	0218M	1:1	0.121	1.161	0.140	
1745.00	349000	Mid	NR Band n66 (AWS)	40	23.0	22.22	A	-0.21	1.5	Right	Cheek	13	CP-OFDM	QPSK	1	1	0218M	1:1	0.082	1.197	0.098	
1745.00	349000	Mid	NR Band n66 (AWS)	40	24.5	23.90	A	0.03	0	Right	Tilt	14	DFT-S-OFDM	QPSK	1	214	0218M	1:1	0.041	1.148	0.047	
1745.00	349000	Mid	NR Band n66 (AWS)	40	24.5	23.85	A	0.00	0	Right	Tilt	14	DFT-S-OFDM	QPSK	108	54	0218M	1:1	0.049	1.161	0.057	
1745.00	349000	Mid	NR Band n66 (AWS)	40	24.5	23.90	A	0.02	0	Left	Cheek	13	DFT-S-OFDM	QPSK	1	214	0218M	1:1	0.063	1.148	0.072	
1745.00	349000	Mid	NR Band n66 (AWS)	40	24.5	23.85	A	0.03	0	Left	Cheek	13	DFT-S-OFDM	QPSK	108	54	0218M	1:1	0.058	1.161	0.067	
1745.00	349000	Mid	NR Band n66 (AWS)	40	24.5	23.90	A	0.10	0	Left	Tilt	14	DFT-S-OFDM	QPSK	1	214	0218M	1:1	0.034	1.148	0.039	
1745.00	349000	Mid	NR Band n66 (AWS)	40	24.5	23.85	A	0.02	0	Left	Tilt	14	DFT-S-OFDM	QPSK	108	54	0218M	1:1	0.053	1.161	0.062	
1745.00	349000	Mid	NR Band n66 (AWS)	40	18.0	16.99	I	-0.12	0	Right	Cheek	N/A	DFT-S-OFDM	QPSK	1	1	0879M	1:1	0.376	1.262	0.475	
1745.00	349000	Mid	NR Band n66 (AWS)	40	18.0	17.06	I	-0.01	0	Right	Cheek	N/A	DFT-S-OFDM	QPSK	108	0	0879M	1:1	0.359	1.242	0.446	
1745.00	349000	Mid	NR Band n66 (AWS)	40	18.0	16.99	I	0.01	0	Right	Tilt	N/A	DFT-S-OFDM	QPSK	1	1	0879M	1:1	0.074	1.262	0.093	
1745.00	349000	Mid	NR Band n66 (AWS)	40	18.0	17.06	I	0.00	0	Right	Tilt	N/A	DFT-S-OFDM	QPSK	108	0	0879M	1:1	0.073	1.242	0.091	
1745.00	349000	Mid	NR Band n66 (AWS)	40	18.0	16.99	I	0.00	0	Left	Cheek	N/A	DFT-S-OFDM	QPSK	1	1	0879M	1:1	0.784	1.262	0.989	
1745.00	349000	Mid	NR Band n66 (AWS)	40	18.0	17.06	I	-0.02	0	Left	Cheek	N/A	DFT-S-OFDM	QPSK	108	0	0879M	1:1	0.773	1.242	0.960	
1745.00	349000	Mid	NR Band n66 (AWS)	40	18.0	16.98	I	0.02	0	Left	Cheek	N/A	DFT-S-OFDM	QPSK	216	0	0879M	1:1	0.761	1.265	0.963	
1745.00	349000	Mid	NR Band n66 (AWS)	40	18.0	17.02	I	0.00	0	Left	Cheek	N/A	CP-OFDM	QPSK	1	1	0879M	1:1	0.813	1.253	1.019	A23
1745.00	349000	Mid	NR Band n66 (AWS)	40	18.0	16.99	I	0.00	0	Left	Tilt	N/A	DFT-S-OFDM	QPSK	1	1	0879M	1:1	0.157	1.262	0.198	
1745.00	349000	Mid	NR Band n66 (AWS)	40	18.0	17.06	I	0.00	0	Left	Tilt	N/A	DFT-S-OFDM	QPSK	108	0	0879M	1:1	0.152	1.242	0.189	
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 11-24
NR Band n25 Head SAR - Open

MEASUREMENT RESULTS																						
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Antenna Config	Power Drift [dB]	MPR [dB]	Side	Test Position	Tune 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)		
1882.50	376500	Mid	NR Band n25 (PCS)	40	24.5	23.73	A	0.16	0	Right	Cheek	2	DFT-S-OFDM	QPSK	1	214	0195M	1:1	0.068	1.194	0.081	
1882.50	376500	Mid	NR Band n25 (PCS)	40	24.5	23.50	A	0.00	0	Right	Cheek	2	DFT-S-OFDM	QPSK	108	54	0195M	1:1	0.067	1.259	0.084	
1882.50	376500	Mid	NR Band n25 (PCS)	40	24.5	23.73	A	0.02	0	Right	Tilt	21	DFT-S-OFDM	QPSK	1	214	0195M	1:1	0.036	1.194	0.043	
1882.50	376500	Mid	NR Band n25 (PCS)	40	24.5	23.50	A	0.00	0	Right	Tilt	21	DFT-S-OFDM	QPSK	108	54	0195M	1:1	0.042	1.259	0.053	
1882.50	376500	Mid	NR Band n25 (PCS)	40	24.5	23.73	A	0.00	0	Left	Cheek	2	DFT-S-OFDM	QPSK	1	214	0195M	1:1	0.073	1.194	0.087	
1882.50	376500	Mid	NR Band n25 (PCS)	40	24.5	23.50	A	0.02	0	Left	Cheek	2	DFT-S-OFDM	QPSK	108	54	0195M	1:1	0.079	1.259	0.099	
1882.50	376500	Mid	NR Band n25 (PCS)	40	23.0	22.16	A	0.00	1.5	Left	Cheek	2	CP-OFDM	QPSK	1	1	0195M	1:1	0.062	1.213	0.075	
1882.50	376500	Mid	NR Band n25 (PCS)	40	24.5	23.73	A	0.00	0	Left	Tilt	21	DFT-S-OFDM	QPSK	1	214	0195M	1:1	0.035	1.194	0.042	
1882.50	376500	Mid	NR Band n25 (PCS)	40	24.5	23.50	A	0.00	0	Left	Tilt	21	DFT-S-OFDM	QPSK	108	54	0195M	1:1	0.035	1.259	0.044	
1882.50	376500	Mid	NR Band n25 (PCS)	40	19.0	19.00	I	0.01	0	Right	Cheek	N/A	DFT-S-OFDM	QPSK	1	214	0818M	1:1	0.255	1.000	0.255	
1882.50	376500	Mid	NR Band n25 (PCS)	40	19.0	18.97	I	0.07	0	Right	Cheek	N/A	DFT-S-OFDM	QPSK	108	54	0818M	1:1	0.297	1.007	0.299	
1882.50	376500	Mid	NR Band n25 (PCS)	40	19.0	19.00	I	0.13	0	Right	Tilt	N/A	DFT-S-OFDM	QPSK	1	214	0818M	1:1	0.075	1.000	0.075	
1882.50	376500	Mid	NR Band n25 (PCS)	40	19.0	18.97	I	0.14	0	Right	Tilt	N/A	DFT-S-OFDM	QPSK	108	54	0818M	1:1	0.087	1.007	0.088	
1882.50	376500	Mid	NR Band n25 (PCS)	40	19.0	19.00	I	0.02	0	Left	Cheek	N/A	DFT-S-OFDM	QPSK	1	214	0818M	1:1	0.765	1.000	0.765	
1882.50	376500	Mid	NR Band n25 (PCS)	40	19.0	18.97	I	0.19	0	Left	Cheek	N/A	DFT-S-OFDM	QPSK	108	54	0818M	1:1	0.849	1.007	0.855	
1882.50	376500	Mid	NR Band n25 (PCS)	40	19.0	18.96	I	0.15	0	Left	Cheek	N/A	DFT-S-OFDM	QPSK	216	0	0818M	1:1	0.853	1.009	0.861	
1882.50	376500	Mid	NR Band n25 (PCS)	40	19.0	18.82	I	0.02	0	Left	Cheek	N/A	CP-OFDM	QPSK	1	1	0818M	1:1	0.918	1.042	0.957	A24
1882.50	376500	Mid	NR Band n25 (PCS)	40	19.0	19.00	I	0.20	0	Left	Tilt	N/A	DFT-S-OFDM	QPSK	1	214	0818M	1:1	0.130	1.000	0.130	
1882.50	376500	Mid	NR Band n25 (PCS)	40	19.0	18.97	I	0.01	0	Left	Tilt	N/A	DFT-S-OFDM	QPSK	108	54	0818M	1:1	0.143	1.007	0.144	
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 11-25
NR Band n30 Head SAR - Open

MEASUREMENT RESULTS																				
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	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)		
2310.00	462000	Mid	NR Band n30	10	23.5	22.73	0.01	0	Right	Cheek	DFT-S-OFDM	QPSK	1	26	0181M	1:1	0.038	1.194	0.045	
2310.00	462000	Mid	NR Band n30	10	23.5	22.46	0.06	0	Right	Cheek	DFT-S-OFDM	QPSK	25	14	0181M	1:1	0.039	1.271	0.050	
2310.00	462000	Mid	NR Band n30	10	23.5	22.73	0.00	0	Right	Tilt	DFT-S-OFDM	QPSK	1	26	0181M	1:1	0.020	1.194	0.024	
2310.00	462000	Mid	NR Band n30	10	23.5	22.46	0.00	0	Right	Tilt	DFT-S-OFDM	QPSK	25	14	0181M	1:1	0.019	1.271	0.024	
2310.00	462000	Mid	NR Band n30	10	23.5	22.73	0.09	0	Left	Cheek	DFT-S-OFDM	QPSK	1	26	0181M	1:1	0.069	1.194	0.082	A25
2310.00	462000	Mid	NR Band n30	10	23.5	22.46	0.00	0	Left	Cheek	DFT-S-OFDM	QPSK	25	14	0181M	1:1	0.058	1.271	0.074	
2310.00	462000	Mid	NR Band n30	10	22.0	21.15	0.00	1.5	Left	Cheek	CP-OFDM	QPSK	1	1	0181M	1:1	0.006	1.216	0.007	
2310.00	462000	Mid	NR Band n30	10	23.5	22.73	0.02	0	Left	Tilt	DFT-S-OFDM	QPSK	1	26	0181M	1:1	0.012	1.194	0.014	
2310.00	462000	Mid	NR Band n30	10	23.5	22.46	0.02	0	Left	Tilt	DFT-S-OFDM	QPSK	25	14	0181M	1:1	0.015	1.271	0.019	
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 11-26
NR Band n41 Head SAR - Open

MEASUREMENT RESULTS																				
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	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)		
2592.99	518598	Mid	NR Band n41	100	16.0	15.52	0.02	0	Right	Cheek	DFT-S-OFDM	QPSK	1	1	0897M	1:1	0.287	1.117	0.321	
2592.99	518598	Mid	NR Band n41	100	16.0	15.49	0.03	0	Right	Cheek	DFT-S-OFDM	QPSK	135	0	0897M	1:1	0.265	1.125	0.298	
2592.99	518598	Mid	NR Band n41	100	16.0	15.52	0.01	0	Right	Tilt	DFT-S-OFDM	QPSK	1	1	0897M	1:1	0.061	1.117	0.068	
2592.99	518598	Mid	NR Band n41	100	16.0	15.49	0.01	0	Right	Tilt	DFT-S-OFDM	QPSK	135	0	0897M	1:1	0.056	1.125	0.063	
2592.99	518598	Mid	NR Band n41	100	16.0	15.52	0.01	0	Left	Cheek	DFT-S-OFDM	QPSK	1	1	0897M	1:1	0.915	1.117	1.022	
2592.99	518598	Mid	NR Band n41	100	16.0	15.49	0.01	0	Left	Cheek	DFT-S-OFDM	QPSK	135	0	0897M	1:1	0.842	1.125	0.947	
2592.99	518598	Mid	NR Band n41	100	16.0	15.48	0.01	0	Left	Cheek	DFT-S-OFDM	QPSK	270	0	0897M	1:1	0.743	1.127	0.837	
2592.99	518598	Mid	NR Band n41	100	16.0	15.51	-0.01	0	Left	Cheek	CP-OFDM	QPSK	1	1	0897M	1:1	0.940	1.119	1.052	A26
2592.99	518598	Mid	NR Band n41	100	16.0	15.52	0.02	0	Left	Tilt	DFT-S-OFDM	QPSK	1	1	0897M	1:1	0.178	1.117	0.199	
2592.99	518598	Mid	NR Band n41	100	16.0	15.49	0.02	0	Left	Tilt	DFT-S-OFDM	QPSK	135	0	0897M	1:1	0.165	1.125	0.186	
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 11-27
NR Band n77 DoD Head SAR - Open

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	16.0	14.86	F	0.00	0	Right	Cheek	DFT-S-OFDM	QPSK	1	137	0831M	1:1	0.468	1.300	0.608	
3500.01	633334	Mid	NR Band n77	100	16.0	14.83	F	0.00	0	Right	Cheek	DFT-S-OFDM	QPSK	135	138	0831M	1:1	0.477	1.309	0.624	
3500.01	633334	Mid	NR Band n77	100	16.0	14.73	F	0.11	0	Right	Cheek	CP-OFDM	QPSK	1	1	0831M	1:1	0.491	1.340	0.658	A27
3500.01	633334	Mid	NR Band n77	100	16.0	14.86	F	0.00	0	Right	Tilt	DFT-S-OFDM	QPSK	1	137	0831M	1:1	0.336	1.300	0.437	
3500.01	633334	Mid	NR Band n77	100	16.0	14.83	F	0.00	0	Right	Tilt	DFT-S-OFDM	QPSK	135	138	0831M	1:1	0.332	1.309	0.435	
3500.01	633334	Mid	NR Band n77	100	16.0	14.86	F	0.00	0	Left	Cheek	DFT-S-OFDM	QPSK	1	137	0831M	1:1	0.099	1.300	0.129	
3500.01	633334	Mid	NR Band n77	100	16.0	14.83	F	0.00	0	Left	Cheek	DFT-S-OFDM	QPSK	135	138	0831M	1:1	0.100	1.309	0.131	
3500.01	633334	Mid	NR Band n77	100	16.0	14.86	F	0.02	0	Left	Tilt	DFT-S-OFDM	QPSK	1	137	0831M	1:1	0.075	1.300	0.098	
3500.01	633334	Mid	NR Band n77	100	16.0	14.83	F	0.02	0	Left	Tilt	DFT-S-OFDM	QPSK	135	138	0831M	1:1	0.078	1.309	0.102	
3500.01	633334	Mid	NR Band n77	100	14.0	12.94	I	0.00	0	Right	Cheek	DFT-S-OFDM	QPSK	1	137	0647M	1:1	0.217	1.276	0.277	
3500.01	633334	Mid	NR Band n77	100	14.0	12.98	I	0.01	0	Right	Cheek	DFT-S-OFDM	QPSK	135	69	0647M	1:1	0.215	1.265	0.272	
3500.01	633334	Mid	NR Band n77	100	14.0	12.94	I	0.00	0	Right	Tilt	DFT-S-OFDM	QPSK	1	137	0647M	1:1	0.020	1.276	0.026	
3500.01	633334	Mid	NR Band n77	100	14.0	12.98	I	0.04	0	Right	Tilt	DFT-S-OFDM	QPSK	135	69	0647M	1:1	0.021	1.265	0.027	
3500.01	633334	Mid	NR Band n77	100	14.0	12.94	I	0.01	0	Left	Cheek	DFT-S-OFDM	QPSK	1	137	0647M	1:1	0.304	1.276	0.388	
3500.01	633334	Mid	NR Band n77	100	14.0	12.98	I	0.02	0	Left	Cheek	DFT-S-OFDM	QPSK	135	69	0647M	1:1	0.305	1.265	0.386	
3500.01	633334	Mid	NR Band n77	100	14.0	12.51	I	0.00	0	Left	Cheek	CP-OFDM	QPSK	1	1	0647M	1:1	0.325	1.409	0.458	
3500.01	633334	Mid	NR Band n77	100	14.0	12.94	I	0.00	0	Left	Tilt	DFT-S-OFDM	QPSK	1	137	0647M	1:1	0.059	1.276	0.075	
3500.01	633334	Mid	NR Band n77	100	14.0	12.98	I	0.00	0	Left	Tilt	DFT-S-OFDM	QPSK	135	69	0647M	1:1	0.060	1.265	0.076	
3500.01	633334	Mid	NR Band n77	100	14.0	12.46	E	0.00	0	Right	Cheek	DFT-S-OFDM	QPSK	1	137	0831M	1:1	0.290	1.426	0.414	
3500.01	633334	Mid	NR Band n77	100	14.0	12.44	E	0.00	0	Right	Cheek	DFT-S-OFDM	QPSK	135	69	0831M	1:1	0.282	1.432	0.404	
3500.01	633334	Mid	NR Band n77	100	14.0	12.46	E	0.00	0	Right	Tilt	DFT-S-OFDM	QPSK	1	137	0831M	1:1	0.042	1.426	0.060	
3500.01	633334	Mid	NR Band n77	100	14.0	12.44	E	0.00	0	Right	Tilt	DFT-S-OFDM	QPSK	135	69	0831M	1:1	0.040	1.432	0.057	
3500.01	633334	Mid	NR Band n77	100	14.0	12.46	E	0.00	0	Left	Cheek	DFT-S-OFDM	QPSK	1	137	0831M	1:1	0.348	1.426	0.496	
3500.01	633334	Mid	NR Band n77	100	14.0	12.44	E	0.00	0	Left	Cheek	DFT-S-OFDM	QPSK	135	69	0831M	1:1	0.346	1.432	0.495	
3500.01	633334	Mid	NR Band n77	100	14.0	12.31	E	0.00	0	Left	Cheek	CP-OFDM	QPSK	1	1	0831M	1:1	0.328	1.476	0.484	
3500.01	633334	Mid	NR Band n77	100	14.0	12.46	E	0.01	0	Left	Tilt	DFT-S-OFDM	QPSK	1	137	0831M	1:1	0.031	1.426	0.044	
3500.01	633334	Mid	NR Band n77	100	14.0	12.44	E	0.00	0	Left	Tilt	DFT-S-OFDM	QPSK	135	69	0831M	1:1	0.031	1.432	0.044	
3500.01	633334	Mid	NR Band n77	100	10.0	9.23	C	0.01	0	Right	Cheek	DFT-S-OFDM	QPSK	1	137	0647M	1:1	0.023	1.194	0.027	
3500.01	633334	Mid	NR Band n77	100	10.0	9.22	C	0.01	0	Right	Cheek	DFT-S-OFDM	QPSK	135	69	0647M	1:1	0.021	1.197	0.025	
3500.01	633334	Mid	NR Band n77	100	10.0	9.23	C	0.01	0	Right	Tilt	DFT-S-OFDM	QPSK	1	137	0647M	1:1	0.029	1.194	0.035	
3500.01	633334	Mid	NR Band n77	100	10.0	9.22	C	0.02	0	Right	Tilt	DFT-S-OFDM	QPSK	135	69	0647M	1:1	0.029	1.197	0.035	
3500.01	633334	Mid	NR Band n77	100	10.0	9.23	C	0.01	0	Left	Cheek	DFT-S-OFDM	QPSK	1	137	0647M	1:1	0.040	1.194	0.048	
3500.01	633334	Mid	NR Band n77	100	10.0	9.22	C	0.02	0	Left	Cheek	DFT-S-OFDM	QPSK	135	69	0647M	1:1	0.045	1.197	0.054	
3500.01	633334	Mid	NR Band n77	100	10.0	8.94	C	0.02	0	Left	Cheek	CP-OFDM	QPSK	1	1	0647M	1:1	0.059	1.276	0.075	
3500.01	633334	Mid	NR Band n77	100	10.0	9.23	C	0.02	0	Left	Tilt	DFT-S-OFDM	QPSK	1	137	0647M	1:1	0.015	1.194	0.018	
3500.01	633334	Mid	NR Band n77	100	10.0	9.22	C	0.02	0	Left	Tilt	DFT-S-OFDM	QPSK	135	69	0647M	1:1	0.014	1.197	0.017	
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 11-28
NR Band n77 Head SAR - Open

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	16.0	15.23	F	0.05	0	Right	Cheek	DFT-S-OFDM	QPSK	1	137	0831M	1:1	0.631	1.194	0.753	A28
3930.00	662000	High	NR Band n77	100	16.0	15.48	F	0.00	0	Right	Cheek	DFT-S-OFDM	QPSK	1	137	0831M	1:1	0.556	1.127	0.627	
3750.00	650000	Low	NR Band n77	100	16.0	15.30	F	0.06	0	Right	Cheek	DFT-S-OFDM	QPSK	135	69	0831M	1:1	0.633	1.175	0.744	
3930.00	662000	High	NR Band n77	100	16.0	15.36	F	0.02	0	Right	Cheek	DFT-S-OFDM	QPSK	135	69	0831M	1:1	0.567	1.159	0.657	
3930.00	662000	High	NR Band n77	100	16.0	15.21	F	0.00	0	Right	Cheek	DFT-S-OFDM	QPSK	270	0	0831M	1:1	0.600	1.199	0.719	
3930.00	662000	High	NR Band n77	100	16.0	15.09	F	0.00	0	Right	Cheek	CP-OFDM	QPSK	1	1	0831M	1:1	0.542	1.233	0.668	
3930.00	662000	High	NR Band n77	100	16.0	15.48	F	0.00	0	Right	Tilt	DFT-S-OFDM	QPSK	1	137	0831M	1:1	0.326	1.127	0.367	
3930.00	662000	High	NR Band n77	100	16.0	15.36	F	0.00	0	Right	Tilt	DFT-S-OFDM	QPSK	135	69	0831M	1:1	0.324	1.159	0.376	
3930.00	662000	High	NR Band n77	100	16.0	15.48	F	0.02	0	Left	Cheek	DFT-S-OFDM	QPSK	1	137	0831M	1:1	0.202	1.127	0.228	
3930.00	662000	High	NR Band n77	100	16.0	15.36	F	0.00	0	Left	Cheek	DFT-S-OFDM	QPSK	135	69	0831M	1:1	0.205	1.159	0.238	
3930.00	662000	High	NR Band n77	100	16.0	15.48	F	0.00	0	Left	Tilt	DFT-S-OFDM	QPSK	1	137	0831M	1:1	0.197	1.127	0.222	
3930.00	662000	High	NR Band n77	100	16.0	15.36	F	0.00	0	Left	Tilt	DFT-S-OFDM	QPSK	135	69	0831M	1:1	0.201	1.159	0.233	
3750.00	650000	Low	NR Band n77	100	14.0	13.04	I	0.02	0	Right	Cheek	DFT-S-OFDM	QPSK	1	137	0647M	1:1	0.181	1.247	0.226	
3930.00	662000	High	NR Band n77	100	14.0	13.12	I	0.00	0	Right	Cheek	DFT-S-OFDM	QPSK	1	137	0647M	1:1	0.445	1.225	0.545	
3750.00	650000	Low	NR Band n77	100	14.0	13.02	I	0.02	0	Right	Cheek	DFT-S-OFDM	QPSK	135	69	0647M	1:1	0.178	1.253	0.223	
3930.00	662000	High	NR Band n77	100	14.0	13.11	I	0.02	0	Right	Cheek	DFT-S-OFDM	QPSK	135	69	0647M	1:1	0.401	1.227	0.492	
3930.00	662000	High	NR Band n77	100	14.0	12.92	I	0.02	0	Right	Cheek	DFT-S-OFDM	QPSK	270	0	0647M	1:1	0.362	1.282	0.464	
3930.00	662000	High	NR Band n77	100	14.0	13.15	I	0.02	0	Right	Cheek	CP-OFDM	QPSK	1	1	0647M	1:1	0.364	1.216	0.443	
3930.00	662000	High	NR Band n77	100	14.0	13.12	I	0.00	0	Right	Tilt	DFT-S-OFDM	QPSK	1	137	0647M	1:1	0.017	1.225	0.021	
3930.00	662000	High	NR Band n77	100	14.0	13.11	I	0.00	0	Right	Tilt	DFT-S-OFDM	QPSK	135	69	0647M	1:1	0.018	1.227	0.022	
3930.00	662000	High	NR Band n77	100	14.0	13.12	I	0.02	0	Left	Cheek	DFT-S-OFDM	QPSK	1	137	0647M	1:1	0.271	1.225	0.332	
3930.00	662000	High	NR Band n77	100	14.0	13.11	I	0.02	0	Left	Cheek	DFT-S-OFDM	QPSK	135	69	0647M	1:1	0.272	1.227	0.334	
3930.00	662000	High	NR Band n77	100	14.0	13.12	I	0.00	0	Left	Tilt	DFT-S-OFDM	QPSK	1	137	0647M	1:1	0.022	1.225	0.027	
3930.00	662000	High	NR Band n77	100	14.0	13.11	I	0.00	0	Left	Tilt	DFT-S-OFDM	QPSK	135	69	0647M	1:1	0.025	1.227	0.031	
3750.00	650000	Low	NR Band n77	100	14.0	12.76	E	0.00	0	Right	Cheek	DFT-S-OFDM	QPSK	1	137	0831M	1:1	0.204	1.330	0.271	
3930.00	662000	High	NR Band n77	100	14.0	13.43	E	0.00	0	Right	Cheek	DFT-S-OFDM	QPSK	1	137	0831M	1:1	0.498	1.140	0.568	
3750.00	650000	Low	NR Band n77	100	14.0	12.70	E	0.00	0	Right	Cheek	DFT-S-OFDM	QPSK	135	69	0831M	1:1	0.204	1.349	0.275	
3930.00	662000	High	NR Band n77	100	14.0	13.46	E	0.00	0	Right	Cheek	DFT-S-OFDM	QPSK	135	69	0831M	1:1	0.487	1.132	0.551	
3930.00	662000	High	NR Band n77	100	14.0	13.30	E	0.01	0	Right	Cheek	DFT-S-OFDM	QPSK	270	0	0831M	1:1	0.469	1.175	0.551	
3930.00	662000	High	NR Band n77	100	14.0	13.43	E	0.01	0	Right	Tilt	DFT-S-OFDM	QPSK	1	137	0831M	1:1	0.136	1.140	0.155	
3930.00	662000	High	NR Band n77	100	14.0	13.46	E	0.01	0	Right	Tilt	DFT-S-OFDM	QPSK	135	69	0831M	1:1	0.134	1.132	0.152	
3750.00	650000	Low	NR Band n77	100	14.0	12.76	E	0.01	0	Left	Cheek	DFT-S-OFDM	QPSK	1	137	0831M	1:1	0.483	1.330	0.642	
3930.00	662000	High	NR Band n77	100	14.0	13.43	E	0.00	0	Left	Cheek	DFT-S-OFDM	QPSK	1	137	0831M	1:1	0.607	1.140	0.692	
3750.00	650000	Low	NR Band n77	100	14.0	12.70	E	0.02	0	Left	Cheek	DFT-S-OFDM	QPSK	135	69	0831M	1:1	0.471	1.349	0.635	
3930.00	662000	High	NR Band n77	100	14.0	13.46	E	0.02	0	Left	Cheek	DFT-S-OFDM	QPSK	135	69	0831M	1:1	0.599	1.132	0.678	
3930.00	662000	High	NR Band n77	100	14.0	13.30	E	0.01	0	Left	Cheek	DFT-S-OFDM	QPSK	270	0	0831M	1:1	0.593	1.175	0.697	
3930.00	662000	High	NR Band n77	100	14.0	13.15	E	0.02	0	Left	Cheek	CP-OFDM	QPSK	1	1	0831M	1:1	0.616	1.216	0.749	
3930.00	662000	High	NR Band n77	100	14.0	13.43	E	0.02	0	Left	Tilt	DFT-S-OFDM	QPSK	1	137	0831M	1:1	0.082	1.140	0.093	
3930.00	662000	High	NR Band n77	100	14.0	13.46	E	0.01	0	Left	Tilt	DFT-S-OFDM	QPSK	135	69	0831M	1:1	0.080	1.132	0.091	
3930.00	662000	High	NR Band n77	100	10.0	9.75	C	0.00	0	Right	Cheek	DFT-S-OFDM	QPSK	1	137	0831M	1:1	0.018	1.059	0.019	
3930.00	662000	High	NR Band n77	100	10.0	9.65	C	0.01	0	Right	Cheek	DFT-S-OFDM	QPSK	135	69	0831M	1:1	0.020	1.084	0.022	
3930.00	662000	High	NR Band n77	100	10.0	9.75	C	0.01	0	Right	Tilt	DFT-S-OFDM	QPSK	1	137	0831M	1:1	0.036	1.059	0.038	
3930.00	662000	High	NR Band n77	100	10.0	9.65	C	0.01	0	Right	Tilt	DFT-S-OFDM	QPSK	135	69	0831M	1:1	0.037	1.084	0.040	
3930.00	662000	High	NR Band n77	100	10.0	9.75	C	0.02	0	Left	Cheek	DFT-S-OFDM	QPSK	1	137	0831M	1:1	0.050	1.059	0.053	
3930.00	662000	High	NR Band n77	100	10.0	9.65	C	0.02	0	Left	Cheek	DFT-S-OFDM	QPSK	135	69	0831M	1:1	0.048	1.084	0.052	
3930.00	662000	High	NR Band n77	100	10.0	9.52	C	0.02	0	Left	Cheek	CP-OFDM	QPSK	1	1	0831M	1:1	0.057	1.117	0.064	
3930.00	662000	High	NR Band n77	100	10.0	9.75	C	0.02	0	Left	Tilt	DFT-S-OFDM	QPSK	1	137	0831M	1:1	0.015	1.059	0.016	
3930.00	662000	High	NR Band n77	100	10.0	9.65	C	0.02	0	Left	Tilt	DFT-S-OFDM	QPSK	135	69	0831M	1:1	0.017	1.084	0.018	
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 11-29
DTS Head SAR – Open

MEASUREMENT RESULTS																				
FREQUENCY		Mode	Service	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Side	Test Position	Antenna Config.	Chipset Variant	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	802.11b	DSSS	22	13.0	12.97	-0.20	Right	Cheek	2	Q	1600S	1	99.9	0.979	0.510	1.007	1.001	0.514	A29
2437	6	802.11b	DSSS	22	13.0	12.97	0.10	Right	Tilt	2	Q	1600S	1	99.9	0.568	0.390	1.007	1.001	0.393	
2437	6	802.11b	DSSS	22	13.0	12.97	0.04	Left	Cheek	2	Q	1600S	1	99.9	0.132	0.122	1.007	1.001	0.123	
2437	6	802.11b	DSSS	22	13.0	12.97	0.08	Left	Tilt	2	Q	1600S	1	99.9	0.120	-	1.007	1.001	-	
2412	1	802.11b	DSSS	22	13.0	12.94	0.01	Right	Cheek	2	N	0115S	1	99.9	0.488	0.374	1.014	1.001	0.380	
2412	1	802.11b	DSSS	22	13.0	12.94	0.00	Right	Tilt	2	N	0115S	1	99.9	0.382	-	1.014	1.001	-	
2412	1	802.11b	DSSS	22	13.0	12.94	0.01	Left	Cheek	2	N	0115S	1	99.9	0.148	0.115	1.014	1.001	0.117	
2412	1	802.11b	DSSS	22	13.0	12.94	0.00	Left	Tilt	2	N	0115S	1	99.9	0.120	-	1.014	1.001	-	
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 11-30
DTS Head SAR – Open for Conditions with 5G NR (FR2) and/or 5 GHz WLAN

MEASUREMENT RESULTS																				
FREQUENCY		Mode	Service	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Side	Test Position	Antenna Config.	Chipset Variant	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	802.11b	DSSS	22	11.0	10.86	0.02	Right	Cheek	2	Q	1600S	1	99.9	0.389	0.298	1.033	1.001	0.308	
2437	6	802.11b	DSSS	22	11.0	10.86	0.02	Right	Tilt	2	Q	1600S	1	99.9	0.283	-	1.033	1.001	-	
2437	6	802.11b	DSSS	22	11.0	10.86	0.02	Left	Cheek	2	Q	1600S	1	99.9	0.095	-	1.033	1.001	-	
2437	6	802.11b	DSSS	22	11.0	10.86	0.01	Left	Tilt	2	Q	1600S	1	99.9	0.107	-	1.033	1.001	-	
2437	6	802.11b	DSSS	22	11.0	10.99	0.03	Right	Cheek	2	N	0115S	1	99.9	0.261	0.210	1.002	1.001	0.211	
2437	6	802.11b	DSSS	22	11.0	10.99	0.01	Right	Tilt	2	N	0115S	1	99.9	0.231	-	1.002	1.001	-	
2437	6	802.11b	DSSS	22	11.0	10.99	0.02	Left	Cheek	2	N	0115S	1	99.9	0.087	-	1.002	1.001	-	
2437	6	802.11b	DSSS	22	11.0	10.99	0.01	Left	Tilt	2	N	0115S	1	99.9	0.076	-	1.002	1.001	-	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT								Head												
Spatial Peak								1.6 W/kg (mW/g)												
Uncontrolled Exposure/General Population								averaged over 1 gram												

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

Table 11-31
DTS MIMO Head SAR – Open

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 Dnt [dB]	Side	Test Position	Antenna Config.	Chipset Variant	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)			
2412	1	802.11n	OFDM	20	13.0	12.90	13.0	12.97	0.01	Right	Cheek	MIMO	Q	1600S	13	99.7	0.612	0.469	1.023	1.003	0.481	
2412	1	802.11n	OFDM	20	13.0	12.90	13.0	12.97	0.01	Right	Tilt	MIMO	Q	1600S	13	99.7	0.419	0.315	1.023	1.003	0.323	
2412	1	802.11n	OFDM	20	13.0	12.90	13.0	12.97	0.01	Left	Cheek	MIMO	Q	1600S	13	99.7	0.239	0.204	1.023	1.003	0.209	
2412	1	802.11n	OFDM	20	13.0	12.90	13.0	12.97	0.01	Left	Tilt	MIMO	Q	1600S	13	99.7	0.164	-	1.023	1.003	-	
2462	11	802.11n	OFDM	20	13.0	12.90	13.0	12.90	0.00	Right	Cheek	MIMO	N	0115S	13	99.7	0.634	0.469	1.023	1.003	0.481	
2462	11	802.11n	OFDM	20	13.0	12.90	13.0	12.90	0.02	Right	Tilt	MIMO	N	0115S	13	99.7	0.404	0.320	1.023	1.003	0.328	
2462	11	802.11n	OFDM	20	13.0	12.90	13.0	12.90	0.02	Left	Cheek	MIMO	N	0115S	13	99.7	0.307	0.268	1.023	1.003	0.275	
2462	11	802.11n	OFDM	20	13.0	12.90	13.0	12.90	0.02	Left	Tilt	MIMO	N	0115S	13	99.7	0.235	-	1.023	1.003	-	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT										Head												
Spatial Peak										1.6 W/kg (mW/g)												
Uncontrolled Exposure/General Population										averaged over 1 gram												

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.

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Table 11-32
DTS MIMO Head SAR – Open for Conditions with 5G NR (FR2) and/or 5 GHz WLAN

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.	Chipset Variant	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) (W/kg)	Plot #
MHz	Ch.																W/kg	(W/kg)				
2462	11	802.11n	OFDM	20	11.0	10.94	11.0	10.67	0.02	Right	Cheek	MIMO	Q	1600S	13	99.7	0.429	0.286	1.079	1.003	0.310	
2462	11	802.11n	OFDM	20	11.0	10.94	11.0	10.67	0.01	Right	Tilt	MIMO	Q	1600S	13	99.7	0.295	-	1.079	1.003	-	
2462	11	802.11n	OFDM	20	11.0	10.94	11.0	10.67	0.02	Left	Cheek	MIMO	Q	1600S	13	99.7	0.175	-	1.079	1.003	-	
2462	11	802.11n	OFDM	20	11.0	10.94	11.0	10.67	0.01	Left	Tilt	MIMO	Q	1600S	13	99.7	0.199	-	1.079	1.003	-	
2437	6	802.11n	OFDM	20	11.0	10.42	11.0	10.53	0.02	Right	Cheek	MIMO	N	0115S	13	99.7	0.275	0.219	1.143	1.003	0.251	
2437	6	802.11n	OFDM	20	11.0	10.42	11.0	10.53	0.02	Right	Tilt	MIMO	N	0115S	13	99.7	0.223	-	1.143	1.003	-	
2437	6	802.11n	OFDM	20	11.0	10.42	11.0	10.53	0.01	Left	Cheek	MIMO	N	0115S	13	99.7	0.146	-	1.143	1.003	-	
2437	6	802.11n	OFDM	20	11.0	10.42	11.0	10.53	0.02	Left	Tilt	MIMO	N	0115S	13	99.7	0.170	-	1.143	1.003	-	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT										Head												
Spatial Peak										1.6 W/kg (mW/g)												
Uncontrolled Exposure/General Population										averaged over 1 gram												

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 GHz WLAN and/or 5G NR active. 5 GHz WIFI and/or 5G NR were not transmitting during the above evaluations

Table 11-33
NII SISO Head SAR - Open

MEASUREMENT RESULTS																				
FREQUENCY		Mode	Service	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Side	Test Position	Antenna Config.	Chipset Variant	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	11.0	10.79	0.03	Right	Cheek	1	Q	1598S	29.3	99.7	0.064	-	1.050	1.003	-	
5290	58	802.11ac	OFDM	80	11.0	10.79	0.07	Right	Tilt	1	Q	1598S	29.3	99.7	0.058	-	1.050	1.003	-	
5290	58	802.11ac	OFDM	80	11.0	10.79	0.19	Left	Cheek	1	Q	1598S	29.3	99.7	0.094	-	1.050	1.003	-	
5290	58	802.11ac	OFDM	80	11.0	10.79	-0.04	Left	Tilt	1	Q	1598S	29.3	99.7	0.109	0.087	1.050	1.003	0.092	
5290	58	802.11ac	OFDM	80	11.0	10.95	0.00	Right	Cheek	1	N	0115S	29.3	99.7	0.048	-	1.012	1.003	-	
5290	58	802.11ac	OFDM	80	11.0	10.95	0.00	Right	Tilt	1	N	0115S	29.3	99.7	0.052	-	1.012	1.003	-	
5290	58	802.11ac	OFDM	80	11.0	10.95	0.00	Left	Cheek	1	N	0115S	29.3	99.7	0.102	-	1.012	1.003	-	
5290	58	802.11ac	OFDM	80	11.0	10.95	0.00	Left	Tilt	1	N	0115S	29.3	99.7	0.204	0.145	1.012	1.003	0.147	
5690	138	802.11ac	OFDM	80	11.0	10.87	0.01	Right	Cheek	1	Q	1598S	29.3	99.7	0.039	-	1.030	1.003	-	
5690	138	802.11ac	OFDM	80	11.0	10.87	0.01	Right	Tilt	1	Q	1598S	29.3	99.7	0.049	-	1.030	1.003	-	
5690	138	802.11ac	OFDM	80	11.0	10.87	0.01	Left	Cheek	1	Q	1598S	29.3	99.7	0.073	-	1.030	1.003	-	
5690	138	802.11ac	OFDM	80	11.0	10.87	0.01	Left	Tilt	1	Q	1598S	29.3	99.7	0.084	0.064	1.030	1.003	0.066	
5690	138	802.11ac	OFDM	80	11.0	10.82	0.00	Right	Cheek	1	N	0115S	29.3	99.7	0.024	-	1.042	1.003	-	
5690	138	802.11ac	OFDM	80	11.0	10.82	0.00	Right	Tilt	1	N	0115S	29.3	99.7	0.028	-	1.042	1.003	-	
5690	138	802.11ac	OFDM	80	11.0	10.82	0.00	Left	Cheek	1	N	0115S	29.3	99.7	0.155	0.096	1.042	1.003	0.100	
5690	138	802.11ac	OFDM	80	11.0	10.82	0.00	Left	Tilt	1	N	0115S	29.3	99.7	0.060	-	1.042	1.003	-	
5775	155	802.11ac	OFDM	80	11.0	10.85	0.01	Right	Cheek	1	Q	1598S	29.3	99.7	0.041	-	1.035	1.003	-	
5775	155	802.11ac	OFDM	80	11.0	10.85	0.01	Right	Tilt	1	Q	1598S	29.3	99.7	0.041	-	1.035	1.003	-	
5775	155	802.11ac	OFDM	80	11.0	10.85	0.01	Left	Cheek	1	Q	1598S	29.3	99.7	0.081	0.054	1.035	1.003	0.056	
5775	155	802.11ac	OFDM	80	11.0	10.85	0.01	Left	Tilt	1	Q	1598S	29.3	99.7	0.067	-	1.035	1.003	-	
5775	155	802.11ac	OFDM	80	11.0	10.63	0.00	Right	Cheek	1	N	0115S	29.3	99.7	0.022	-	1.089	1.003	-	
5775	155	802.11ac	OFDM	80	11.0	10.63	0.00	Right	Tilt	1	N	0115S	29.3	99.7	0.028	-	1.089	1.003	-	
5775	155	802.11ac	OFDM	80	11.0	10.63	0.01	Left	Cheek	1	N	0115S	29.3	99.7	0.169	0.104	1.089	1.003	0.114	
5775	155	802.11ac	OFDM	80	11.0	10.63	0.00	Left	Tilt	1	N	0115S	29.3	99.7	0.054	-	1.089	1.003	-	
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 11-34
NII MIMO Head SAR - Open**

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.	Chipset Variant	Device Serial Number	Data Rate (Mbps)	Duty Cycle (%)	Peak SAR of Area Scan		SAR (1g) (W/kg)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g) (W/kg)	Plot #
MHz	Ch.																W/kg	W/kg					
5290	58	802.11ac	OFDM	80	11.0	10.79	11.0	10.70	0.01	Right	Cheek	MIMO	Q	1598S	58.5	99.7	0.083	-	1.072	1.003	-		
5290	58	802.11ac	OFDM	80	11.0	10.79	11.0	10.70	0.01	Right	Tilt	MIMO	Q	1598S	58.5	99.7	0.074	-	1.072	1.003	-		
5290	58	802.11ac	OFDM	80	11.0	10.79	11.0	10.70	0.01	Left	Cheek	MIMO	Q	1598S	58.5	99.7	0.090	-	1.072	1.003	-		
5290	58	802.11ac	OFDM	80	11.0	10.79	11.0	10.70	0.01	Left	Tilt	MIMO	Q	1598S	58.5	99.7	0.093	0.058	1.072	1.003	0.062		
5290	58	802.11ac	OFDM	80	11.0	10.95	11.0	10.89	0.01	Right	Cheek	MIMO	N	0115S	58.5	99.7	0.162	-	1.026	1.003	-		
5290	58	802.11ac	OFDM	80	11.0	10.95	11.0	10.89	0.01	Right	Tilt	MIMO	N	0115S	58.5	99.7	0.141	-	1.026	1.003	-		
5290	58	802.11ac	OFDM	80	11.0	10.95	11.0	10.89	-0.10	Left	Cheek	MIMO	N	0115S	58.5	99.7	0.406	0.258	1.026	1.003	0.266	A30	
5290	58	802.11ac	OFDM	80	11.0	10.95	11.0	10.89	0.01	Left	Tilt	MIMO	N	0115S	58.5	99.7	0.403	-	1.026	1.003	-		
5690	138	802.11ac	OFDM	80	11.0	10.87	11.0	10.99	0.01	Right	Cheek	MIMO	Q	1598S	58.5	99.7	0.129	0.097	1.030	1.003	0.100		
5690	138	802.11ac	OFDM	80	11.0	10.87	11.0	10.99	0.01	Right	Tilt	MIMO	Q	1598S	58.5	99.7	0.096	-	1.030	1.003	-		
5690	138	802.11ac	OFDM	80	11.0	10.87	11.0	10.99	0.01	Left	Cheek	MIMO	Q	1598S	58.5	99.7	0.098	-	1.030	1.003	-		
5690	138	802.11ac	OFDM	80	11.0	10.87	11.0	10.99	0.01	Left	Tilt	MIMO	Q	1598S	58.5	99.7	0.085	-	1.030	1.003	-		
5690	138	802.11ac	OFDM	80	11.0	10.82	11.0	10.99	0.01	Right	Cheek	MIMO	N	0115S	58.5	99.7	0.042	-	1.042	1.003	-		
5690	138	802.11ac	OFDM	80	11.0	10.82	11.0	10.99	0.20	Right	Tilt	MIMO	N	0115S	58.5	99.7	0.053	-	1.042	1.003	-		
5690	138	802.11ac	OFDM	80	11.0	10.82	11.0	10.99	0.10	Left	Cheek	MIMO	N	0115S	58.5	99.7	0.181	0.115	1.042	1.003	0.120		
5690	138	802.11ac	OFDM	80	11.0	10.82	11.0	10.99	0.10	Left	Tilt	MIMO	N	0115S	58.5	99.7	0.148	-	1.042	1.003	-		
5775	155	802.11ac	OFDM	80	11.0	10.85	11.0	10.50	0.01	Right	Cheek	MIMO	Q	1598S	58.5	99.7	0.141	0.106	1.122	1.003	0.119		
5775	155	802.11ac	OFDM	80	11.0	10.85	11.0	10.50	0.01	Right	Tilt	MIMO	Q	1598S	58.5	99.7	0.110	-	1.122	1.003	-		
5775	155	802.11ac	OFDM	80	11.0	10.85	11.0	10.50	0.01	Left	Cheek	MIMO	Q	1598S	58.5	99.7	0.051	-	1.122	1.003	-		
5775	155	802.11ac	OFDM	80	11.0	10.85	11.0	10.50	0.01	Left	Tilt	MIMO	Q	1598S	58.5	99.7	0.052	-	1.122	1.003	-		
5775	155	802.11ac	OFDM	80	11.0	10.63	11.0	10.65	0.01	Right	Cheek	MIMO	N	0115S	58.5	99.7	0.041	-	1.089	1.003	-		
5775	155	802.11ac	OFDM	80	11.0	10.63	11.0	10.65	0.01	Right	Tilt	MIMO	N	0115S	58.5	99.7	0.041	-	1.089	1.003	-		
5775	155	802.11ac	OFDM	80	11.0	10.63	11.0	10.65	0.01	Left	Cheek	MIMO	N	0115S	58.5	99.7	0.133	0.076	1.089	1.003	0.076		
5775	155	802.11ac	OFDM	80	11.0	10.63	11.0	10.65	0.01	Left	Tilt	MIMO	N	0115S	58.5	99.7	0.054	-	1.089	1.003	-		
ANSI / IEEE C95.1 1992 - SAFETY LIMIT										Head													
Spatial Peak										1.6 W/kg (mW/g)													
Uncontrolled Exposure/General Population										averaged over 1 gram													

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.

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Table 11-35
DSS Head SAR - Open

MEASUREMENT RESULTS																		
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Side	Test Position	Antenna Config.	Chipset Variant	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	10.0	8.62	0.00	Right	Cheek	1	Q	1600S	1	76.80	0.036	1.374	1.302	0.064	
2441.00	39	Bluetooth	FHSS	10.0	8.62	0.00	Right	Tilt	1	Q	1600S	1	76.80	0.032	1.374	1.302	0.057	
2441.00	39	Bluetooth	FHSS	10.0	8.62	0.02	Left	Cheek	1	Q	1600S	1	76.80	0.070	1.374	1.302	0.125	
2441.00	39	Bluetooth	FHSS	10.0	8.62	0.02	Left	Tilt	1	Q	1600S	1	76.80	0.036	1.374	1.302	0.064	
2441.00	39	Bluetooth	FHSS	10.0	9.29	0.01	Right	Cheek	2	Q	1600S	1	76.80	0.135	1.178	1.302	0.207	A31
2441.00	39	Bluetooth	FHSS	10.0	9.29	0.01	Right	Tilt	2	Q	1600S	1	76.80	0.104	1.178	1.302	0.160	
2441.00	39	Bluetooth	FHSS	10.0	9.29	0.01	Left	Cheek	2	Q	1600S	1	76.80	0.034	1.178	1.302	0.052	
2441.00	39	Bluetooth	FHSS	10.0	9.29	0.01	Left	Tilt	2	Q	1600S	1	76.80	0.030	1.178	1.302	0.046	
2441.00	39	Bluetooth	FHSS	10.0	8.43	0.02	Right	Cheek	1	N	0115S	1	76.80	0.067	1.435	1.302	0.125	
2441.00	39	Bluetooth	FHSS	10.0	8.43	0.00	Right	Tilt	1	N	0115S	1	76.80	0.050	1.435	1.302	0.093	
2441.00	39	Bluetooth	FHSS	10.0	8.43	0.00	Left	Cheek	1	N	0115S	1	76.80	0.055	1.435	1.302	0.103	
2441.00	39	Bluetooth	FHSS	10.0	8.43	0.00	Left	Tilt	1	N	0115S	1	76.80	0.039	1.435	1.302	0.073	
2480.00	78	Bluetooth	FHSS	10.0	9.44	0.00	Right	Cheek	2	N	0115S	1	76.80	0.135	1.138	1.302	0.200	
2480.00	78	Bluetooth	FHSS	10.0	9.44	0.01	Right	Tilt	2	N	0115S	1	76.80	0.102	1.138	1.302	0.151	
2480.00	78	Bluetooth	FHSS	10.0	9.44	0.02	Left	Cheek	2	N	0115S	1	76.80	0.033	1.138	1.302	0.049	
2480.00	78	Bluetooth	FHSS	10.0	9.44	0.01	Left	Tilt	2	N	0115S	1	76.80	0.026	1.138	1.302	0.039	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT							Head											
Spatial Peak							1.6 W/kg (mW/g)											
Uncontrolled Exposure/General Population							averaged over 1 gram											

11.2 Standalone Open Body-Worn SAR Data

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

MEASUREMENT RESULTS																	
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Tune State	Power Drift [dB]	Position	Spacing	Device Serial Number	# of Time Slots	Duty Cycle	Side	SAR (1g)	Scaling Factor	Reported SAR (1g) (W/kg)	Plot #
MHz	Ch.													(W/kg)			
848.31	777	Cell. CDMA	TDSO / SO32	25.0	24.10	0	0.01	Body	15 mm	0747M	N/A	1:1	back	0.190	1.230	0.234	
1851.25	25	PCS CDMA	TDSO / SO32	24.0	23.29	15	-0.03	Body	15 mm	0765M	N/A	1:1	back	0.805	1.178	0.948	
1880.00	600	PCS CDMA	TDSO / SO32	24.0	23.25	15	-0.03	Body	15 mm	0765M	N/A	1:1	back	0.855	1.189	1.017	A34
1908.75	1175	PCS CDMA	TDSO / SO32	24.0	23.08	15	0.06	Body	15 mm	0765M	N/A	1:1	back	0.795	1.236	0.983	
824.20	128	GSM 850	GSM	33.0	32.00	N/A	0.02	Body	15 mm	0747M	1	1:8.3	back	0.108	1.259	0.136	
1850.20	512	GSM 1900	GSM	30.0	29.25	N/A	-0.02	Body	15 mm	0760M	1	1:8.3	back	0.279	1.189	0.332	A38
836.60	4183	UMTS 850	RMC	25.0	24.49	0	0.01	Body	15 mm	0747M	N/A	1:1	back	0.191	1.125	0.215	
1732.40	1412	UMTS 1750	RMC	24.0	23.70	18	-0.03	Body	15 mm	0760M	N/A	1:1	back	0.522	1.072	0.560	A42
1880.00	9400	UMTS 1900	RMC	24.0	23.82	52	0.01	Body	15 mm	0760M	N/A	1:1	back	0.443	1.042	0.462	A44
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 11-37
LTE Body-Worn SAR - Open

MEASUREMENT RESULTS																				
MHz	Ch.		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Tune State	Power Drift [dB]	MPR [dB]	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	(W/kg)	Scaling Factor	(W/kg)	Plot #
680.50	133297	Mid	LTE Band 71	20	25.5	24.11	1	0.04	0	0847M	QPSK	1	50	15 mm	back	1:1	0.267	1.377	0.368	A46
680.50	133297	Mid	LTE Band 71	20	24.5	23.26	1	-0.01	1	0847M	QPSK	50	25	15 mm	back	1:1	0.210	1.330	0.279	
707.50	23095	Mid	LTE Band 12	10	25.5	24.25	5	0.00	0	0847M	QPSK	1	25	15 mm	back	1:1	0.204	1.334	0.272	
707.50	23095	Mid	LTE Band 12	10	24.5	23.40	5	0.02	1	0847M	QPSK	25	12	15 mm	back	1:1	0.173	1.288	0.223	
782.00	23230	Mid	LTE Band 13	10	25.5	24.27	0	0.05	0	0847M	QPSK	1	49	15 mm	back	1:1	0.169	1.327	0.224	
782.00	23230	Mid	LTE Band 13	10	24.5	23.33	0	0.11	1	0847M	QPSK	25	0	15 mm	back	1:1	0.150	1.309	0.196	
793.00	23330	Mid	LTE Band 14	10	25.5	24.20	40	0.01	0	0847M	QPSK	1	0	15 mm	back	1:1	0.210	1.349	0.283	
793.00	23330	Mid	LTE Band 14	10	24.5	23.34	40	0.06	1	0847M	QPSK	25	12	15 mm	back	1:1	0.174	1.306	0.227	
831.50	26865	Mid	LTE Band 26 (Cell)	15	25.3	24.00	3	0.07	0	0829M	QPSK	1	74	15 mm	back	1:1	0.184	1.349	0.248	
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.3	23.05	3	-0.01	1	0829M	QPSK	36	37	15 mm	back	1:1	0.149	1.334	0.199	
836.50	20525	Mid	LTE Band 5 (Cell)	10	25.3	23.67	0	0.00	0	0122M	QPSK	1	49	15 mm	back	1:1	0.188	1.455	0.274	
836.50	20525	Mid	LTE Band 5 (Cell)	10	24.3	22.62	0	0.09	1	0122M	QPSK	25	25	15 mm	back	1:1	0.150	1.472	0.221	
1860.00	26140	Low	LTE Band 25 (PCS)	20	25.0	24.14	5	0.02	0	0748M	QPSK	1	99	15 mm	back	1:1	0.796	1.219	0.970	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	25.0	24.37	5	0.01	0	0748M	QPSK	1	0	15 mm	back	1:1	0.828	1.156	0.957	A60
1905.00	26590	High	LTE Band 25 (PCS)	20	25.0	24.03	0	0.05	0	0748M	QPSK	1	0	15 mm	back	1:1	0.815	1.250	1.019	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	24.0	23.40	5	0.01	1	0748M	QPSK	50	25	15 mm	back	1:1	0.658	1.148	0.755	
1860.00	26140	Low	LTE Band 25 (PCS)	20	24.0	23.25	5	0.01	1	0748M	QPSK	100	0	15 mm	back	1:1	0.657	1.189	0.781	
2310.00	27710	Mid	LTE Band 30	10	24.0	23.40	N/A	0.04	0	0748M	QPSK	1	0	15 mm	back	1:1	0.412	1.148	0.473	A62
2310.00	27710	Mid	LTE Band 30	10	23.0	22.45	N/A	-0.04	1	0748M	QPSK	25	0	15 mm	back	1:1	0.324	1.135	0.368	
2535.00	21100	Mid	LTE Band 7	20	25.0	24.02	N/A	0.11	0	0126M	QPSK	1	0	15 mm	back	1:1	0.455	1.253	0.570	A64
2535.00	21100	Mid	LTE Band 7	20	24.0	23.08	N/A	0.16	1	0126M	QPSK	50	25	15 mm	back	1:1	0.370	1.236	0.457	
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 11-38
LTE Band 66 Body-Worn SAR - Open

MEASUREMENT RESULTS																						
1 CC Uplink 2 CC Uplink	Component Carrier	MHz	Ch.		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Tune State	Power Drift [dB]	MPR [dB]	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	(W/kg)	Scaling Factor	(W/kg)	Plot #
1 CC Uplink	N/A	1720.00	132072	Low	LTE Band 66 (AWS)	20	25.0	23.71	52	-0.03	0	1916M	QPSK	1	99	15 mm	back	1:1	0.487	1.346	0.656	
1 CC Uplink	N/A	1745.00	132322	Mid	LTE Band 66 (AWS)	20	25.0	23.73	8	0.05	0	1916M	QPSK	1	50	15 mm	back	1:1	0.706	1.340	0.946	
1 CC Uplink	N/A	1745.00	132322	Mid	LTE Band 66 (AWS)	20	25.0	23.70	52	0.16	0	1916M	QPSK	1	99	15 mm	back	1:1	0.797	1.349	1.075	A58
1 CC Uplink	N/A	1770.00	132572	High	LTE Band 66 (AWS)	20	25.0	23.91	52	0.00	0	1916M	QPSK	1	99	15 mm	back	1:1	0.572	1.285	0.735	
1 CC Uplink	N/A	1770.00	132572	High	LTE Band 66 (AWS)	20	24.0	23.04	52	0.08	1	1916M	QPSK	50	25	15 mm	back	1:1	0.472	1.247	0.589	
1 CC Uplink	N/A	1770.00	132572	High	LTE Band 66 (AWS)	20	24.0	23.02	52	0.06	1	1916M	QPSK	100	0	15 mm	back	1:1	0.513	1.253	0.643	
1 CC Uplink	N/A	1745.00	132322	Mid	LTE Band 66 (AWS)	10	25.0	23.72	52	0.01	0	1916M	QPSK	1	49	15 mm	back	1:1	0.740	1.343	0.994	
2 CC Uplink CA_66C	PCC	1745.00	132322	Mid	LTE Band 66 (AWS)	20	25.0	23.65	0	0.06	0	1916M	QPSK	1	99	15 mm	back	1:1	0.766	1.365	1.046	
	SCC	1764.80	132520												0							
2 CC Uplink CA_66B	PCC	1745.00	132322	Mid	LTE Band 66 (AWS)	10	25.0	24.01	4	-0.04	0	1916M	QPSK	1	49	15 mm	back	1:1	0.753	1.256	0.946	
	SCC	1754.90	132421												0							
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 11-39
LTE Band 48 Body-Worn SAR - Open

MEASUREMENT RESULTS																						
1 CC Uplink 2 CC Uplink		Component Carrier	MHz	Ch.		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	(W/kg)	Scaling Factor	(W/kg)	Pilot #
1 CC Uplink		N/A	3646.70	56207	Mid-High	LTE Band 48	20	22.5	22.30	0.01	0	0881M	QPSK	1	50	15 mm	back	1:1.58	0.154	1.047	0.161	
1 CC Uplink		N/A	3646.70	56207	Mid-High	LTE Band 48	20	22.5	22.27	0.01	0	0881M	QPSK	50	25	15 mm	back	1:1.58	0.164	1.054	0.173	
1 CC Uplink		N/A	3646.70	56207	Mid-High	LTE Band 48	20	22.5	22.04	0.03	0	0881M	QPSK	50	50	15 mm	back	1:1.58	0.166	1.112	0.185	A66
2 CC Uplink		PCC	3646.70	56207	Mid-High	LTE Band 48	20	22.5	22.00	0.01	0	0881M	QPSK	50	50	15 mm	back	1:1.58	0.165	1.122	0.185	
		SCC	3666.50	56405											0							
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 11-40
LTE Band 41 Body-Worn SAR - Open

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]	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Pilot #	
		MHz	Ch.														(W/kg)		(W/kg)		
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	25.5	24.12	-0.01	0	0123M	QPSK	1	0	15 mm	back	1:1.58	0.273	1.374	0.375	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	25.5	24.54	0.16	0	0123M	QPSK	1	50	15 mm	back	1:1.58	0.284	1.247	0.354	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	24.5	23.60	0.04	1	0123M	QPSK	50	50	15 mm	back	1:1.58	0.224	1.230	0.276	
1 CC Uplink - Power Class 2	N/A	2680.00	41490	High	LTE Band 41	20	28.0	26.51	0.03	0	0123M	QPSK	1	0	15 mm	back	1:2.31	0.305	1.409	0.430	
1 CC Uplink - Power Class 2	N/A	2680.00	41490	High	LTE Band 41	20	28.0	26.99	0.17	0	0123M	QPSK	1	50	15 mm	back	1:2.31	0.319	1.262	0.403	
2 CC Uplink - Power Class 3	PCC	2680.00	41490	High	LTE Band 41	20	25.5	24.85	0.03	0	0123M	QPSK	1	0	15 mm	back	1:1.58	0.324	1.161	0.376	
	SCC	2660.20	41292											99							
2 CC Uplink - Power Class 2	PCC	2680.00	41490	High	LTE Band 41	20	28.0	26.67	0.04	0	0123M	QPSK	1	0	15 mm	back	1:2.31	0.332	1.358	0.451	A68
	SCC	2660.20	41292											99							
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
NR Body-Worn SAR - Open

MEASUREMENT RESULTS																					
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Tune State	Serial Number	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Pilot #
MHz	Ch.	(W/kg)																(W/kg)			
680.50	136100	Mid	NR Band n71	20	25.5	24.19	-0.02	0	1	0175M	DFT-S-OFDM	QPSK	1	1	15 mm	back	1:1	0.255	1.352	0.345	
680.50	136100	Mid	NR Band n71	20	25.5	24.22	-0.06	0	1	0175M	DFT-S-OFDM	QPSK	50	28	15 mm	back	1:1	0.274	1.343	0.368	A70
680.50	136100	Mid	NR Band n71	20	24.0	23.21	0.05	1.5	1	0175M	CP-OFDM	QPSK	1	1	15 mm	back	1:1	0.178	1.199	0.213	
707.50	141500	Mid	NR Band n12	15	25.5	23.95	0.10	0	5	0177M	DFT-S-OFDM	QPSK	1	1	15 mm	back	1:1	0.303	1.429	0.433	A72
707.50	141500	Mid	NR Band n12	15	25.5	24.03	0.00	0	5	0177M	DFT-S-OFDM	QPSK	36	22	15 mm	back	1:1	0.295	1.403	0.414	
707.50	141500	Mid	NR Band n12	15	24.0	23.12	-0.01	1.5	5	0177M	CP-OFDM	QPSK	1	1	15 mm	back	1:1	0.221	1.225	0.271	
836.50	167300	Mid	NR Band n5 (Cell)	20	25.3	23.80	0.02	0	0	0183M	DFT-S-OFDM	QPSK	1	53	15 mm	back	1:1	0.190	1.413	0.268	
836.50	167300	Mid	NR Band n5 (Cell)	20	25.3	23.84	-0.03	0	0	0183M	DFT-S-OFDM	QPSK	50	28	15 mm	back	1:1	0.187	1.400	0.262	
836.50	167300	Mid	NR Band n5 (Cell)	20	23.8	22.62	0.06	1.5	0	0183M	CP-OFDM	QPSK	1	1	15 mm	back	1:1	0.115	1.312	0.151	
2310.00	462000	Mid	NR Band n30	10	23.5	22.73	-0.14	0	N/A	0181M	DFT-S-OFDM	QPSK	1	26	15 mm	back	1:1	0.484	1.194	0.578	A80
2310.00	462000	Mid	NR Band n30	10	23.5	22.46	0.00	0	N/A	0181M	DFT-S-OFDM	QPSK	25	14	15 mm	back	1:1	0.440	1.271	0.559	
2310.00	462000	Mid	NR Band n30	10	22.0	21.15	0.00	1.5	N/A	0181M	CP-OFDM	QPSK	1	1	15 mm	back	1:1	0.315	1.216	0.383	
2592.99	518598	Mid	NR Band n41	100	22.0	21.55	0.01	0	N/A	0897M	DFT-S-OFDM	QPSK	1	137	15 mm	back	1:1	0.144	1.109	0.160	
2592.99	518598	Mid	NR Band n41	100	22.0	21.61	0.02	0	N/A	0897M	DFT-S-OFDM	QPSK	135	0	15 mm	back	1:1	0.165	1.094	0.181	
2592.99	518598	Mid	NR Band n41	100	22.0	21.05	0.14	0	N/A	0897M	CP-OFDM	QPSK	1	1	15 mm	back	1:1	0.187	1.245	0.233	A82
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 11-42
NR Band n66 Body-Worn SAR - Open

MEASUREMENT RESULTS																						
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Antenna Config	Power Drift [dB]	MPR [dB]	Tune 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)		
1745.00	349000	Mid	NR Band n66 (AWS)	40	24.5	23.90	A	0.00	0	8	0218M	DFT-S-OFDM	QPSK	1	214	15 mm	back	1:1	0.620	1.148	0.712	
1745.00	349000	Mid	NR Band n66 (AWS)	40	24.5	23.85	A	0.03	0	52	0218M	DFT-S-OFDM	QPSK	108	54	15 mm	back	1:1	0.743	1.161	0.863	A76
1745.00	349000	Mid	NR Band n66 (AWS)	40	24.5	22.82	A	-0.12	0	52	0218M	DFT-S-OFDM	QPSK	216	0	15 mm	back	1:1	0.545	1.472	0.802	
1745.00	349000	Mid	NR Band n66 (AWS)	40	23.0	22.22	A	0.00	1.5	8	0218M	CP-OFDM	QPSK	1	1	15 mm	back	1:1	0.375	1.197	0.449	
1745.00	349000	Mid	NR Band n66 (AWS)	40	22.0	21.63	I	0.06	0	N/A	0879M	DFT-S-OFDM	QPSK	1	1	15 mm	back	1:1	0.166	1.089	0.181	
1745.00	349000	Mid	NR Band n66 (AWS)	40	22.0	21.66	I	-0.03	0	N/A	0879M	DFT-S-OFDM	QPSK	108	54	15 mm	back	1:1	0.174	1.081	0.188	
1745.00	349000	Mid	NR Band n66 (AWS)	40	22.0	21.62	I	-0.06	0	N/A	0879M	CP-OFDM	QPSK	1	1	15 mm	back	1:1	0.173	1.091	0.189	
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 11-43
NR Band n25 Body-Worn SAR - Open

MEASUREMENT RESULTS																						
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Antenna Config	Power Drift [dB]	MPR [dB]	Tune 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)		
1882.50	376500	Mld	NR Band n25 (PCS)	40	24.5	23.73	A	0.04	0	5	0195M	DFT-S-OFDM	QPSK	1	214	15 mm	back	1:1	0.605	1.194	0.722	A78
1882.50	376500	Mid	NR Band n25 (PCS)	40	24.5	23.50	A	-0.04	0	5	0195M	DFT-S-OFDM	QPSK	108	54	15 mm	back	1:1	0.561	1.259	0.706	
1882.50	376500	Mid	NR Band n25 (PCS)	40	23.0	22.16	A	0.01	1.5	5	0195M	CP-OFDM	QPSK	1	1	15 mm	back	1:1	0.471	1.213	0.571	
1882.50	376500	Mid	NR Band n25 (PCS)	40	24.5	24.49	I	-0.05	0	N/A	0818M	DFT-S-OFDM	QPSK	1	214	15 mm	back	1:1	0.244	1.002	0.244	
1882.50	376500	Mld	NR Band n25 (PCS)	40	24.5	24.35	I	0.18	0	N/A	0818M	DFT-S-OFDM	QPSK	108	54	15 mm	back	1:1	0.258	1.035	0.267	
1882.50	376500	Mid	NR Band n25 (PCS)	40	23.0	22.99	I	0.17	1.5	N/A	0818M	CP-OFDM	QPSK	1	1	15 mm	back	1:1	0.205	1.002	0.205	
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 11-44
NR Band n77 DoD Body-Worn SAR - Open

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	19.5	18.77	F	0.01	0	0647M	DFT-S-OFDM	QPSK	1	137	15 mm	back	1:1	0.159	1.183	0.188	A84
3500.01	633334	Mid	NR Band n77	100	19.5	18.67	F	0.01	0	0647M	DFT-S-OFDM	QPSK	135	69	15 mm	back	1:1	0.158	1.211	0.191	
3500.01	633334	Mid	NR Band n77	100	19.5	18.66	F	-0.05	0	0647M	CP-OFDM	QPSK	1	1	15 mm	back	1:1	0.173	1.213	0.210	
3500.01	633334	Mid	NR Band n77	100	17.5	16.58	I	0.00	0	0641M	DFT-S-OFDM	QPSK	1	137	15 mm	back	1:1	0.045	1.236	0.056	
3500.01	633334	Mid	NR Band n77	100	17.5	16.58	I	0.02	0	0641M	DFT-S-OFDM	QPSK	135	69	15 mm	back	1:1	0.045	1.236	0.056	
3500.01	633334	Mid	NR Band n77	100	17.5	16.39	I	0.02	0	0641M	CP-OFDM	QPSK	1	1	15 mm	back	1:1	0.052	1.291	0.067	
3500.01	633334	Mid	NR Band n77	100	17.5	16.02	E	0.02	0	0641M	DFT-S-OFDM	QPSK	1	137	15 mm	back	1:1	0.036	1.406	0.051	
3500.01	633334	Mid	NR Band n77	100	17.5	16.04	E	0.01	0	0641M	DFT-S-OFDM	QPSK	135	69	15 mm	back	1:1	0.036	1.400	0.050	
3500.01	633334	Mid	NR Band n77	100	17.5	15.96	E	0.01	0	0641M	CP-OFDM	QPSK	1	1	15 mm	back	1:1	0.038	1.426	0.054	
3500.01	633334	Mid	NR Band n77	100	13.5	13.03	C	0.03	0	0831M	DFT-S-OFDM	QPSK	1	1	15 mm	back	1:1	0.041	1.114	0.046	
3500.01	633334	Mid	NR Band n77	100	13.5	12.87	C	0.03	0	0831M	DFT-S-OFDM	QPSK	135	0	15 mm	back	1:1	0.038	1.156	0.044	
3500.01	633334	Mid	NR Band n77	100	13.5	12.96	C	0.02	0	0831M	CP-OFDM	QPSK	1	1	15 mm	back	1:1	0.039	1.132	0.044	
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 11-45
NR Band n77 Body-Worn SAR - Open

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	19.5	19.28	F	0.02	0	0641M	DFT-S-OFDM	QPSK	1	137	15 mm	back	1:1	0.225	1.052	0.237	
3930.00	662000	High	NR Band n77	100	19.5	19.19	F	0.02	0	0641M	DFT-S-OFDM	QPSK	135	0	15 mm	back	1:1	0.229	1.074	0.246	
3930.00	662000	High	NR Band n77	100	19.5	19.17	F	-0.02	0	0641M	CP-OFDM	QPSK	1	1	15 mm	back	1:1	0.242	1.079	0.261	A86
3750.00	650000	Low	NR Band n77	100	17.5	16.76	I	0.02	0	0641M	DFT-S-OFDM	QPSK	1	137	15 mm	back	1:1	0.045	1.186	0.053	
3750.00	650000	Low	NR Band n77	100	17.5	16.77	I	0.02	0	0641M	DFT-S-OFDM	QPSK	135	0	15 mm	back	1:1	0.042	1.183	0.050	
3750.00	650000	Low	NR Band n77	100	17.5	16.74	I	0.02	0	0641M	CP-OFDM	QPSK	1	1	15 mm	back	1:1	0.040	1.191	0.048	
3930.00	662000	High	NR Band n77	100	17.5	17.04	E	0.02	0	0641M	DFT-S-OFDM	QPSK	1	137	15 mm	back	1:1	0.106	1.112	0.118	
3930.00	662000	High	NR Band n77	100	17.5	16.93	E	0.02	0	0641M	DFT-S-OFDM	QPSK	135	0	15 mm	back	1:1	0.107	1.140	0.122	
3930.00	662000	High	NR Band n77	100	17.5	16.89	E	0.01	0	0641M	CP-OFDM	QPSK	1	1	15 mm	back	1:1	0.107	1.151	0.123	
3930.00	662000	High	NR Band n77	100	13.5	13.01	C	0.02	0	0641M	DFT-S-OFDM	QPSK	1	137	15 mm	back	1:1	0.031	1.119	0.035	
3930.00	662000	High	NR Band n77	100	13.5	13.00	C	0.02	0	0641M	DFT-S-OFDM	QPSK	135	0	15 mm	back	1:1	0.035	1.122	0.039	
3930.00	662000	High	NR Band n77	100	13.5	12.86	C	0.02	0	0641M	CP-OFDM	QPSK	1	1	15 mm	back	1:1	0.035	1.159	0.041	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak										Body 1.6 W/kg (mW/g) averaged over 1 gram											
Uncontrolled Exposure/General Population																					

Table 11-46
DTS Body-Worn SAR - Open

MEASUREMENT RESULTS																				
FREQUENCY		Mode	Service	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Chipset Variant	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	18.95	-0.01	15 mm	2	Q	1599S	1	back	99.9	0.055	0.042	1.012	1.001	0.043	
2437	6	802.11b	DSSS	22	19.0	18.85	0.02	15 mm	2	N	0115S	1	back	99.9	0.071	0.049	1.035	1.001	0.051	
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 11-47
DTS MIMO Body-Worn SAR - Open

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.	Chipset Variant	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	18.96	19.0	18.95	0.00	15 mm	MIMO	Q	1598S	1	back	99.9	0.188	0.155	1.012	1.001	0.157	
2437	6	802.11b	DSSS	22	19.0	18.86	19.0	18.97	0.00	15 mm	MIMO	N	0115S	1	back	99.9	0.294	0.234	1.081	1.001	0.253	A88
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 22 dBm maximum allowed MIMO power shown in the documentation each antenna transmits at a maximum allowed power of 19.0 dBm.

Table 11-48
DTS MIMO Body-Worn SAR for Conditions with 2.4 GHz and 5 GHz WLAN SAR and/or with 5G NR - Open

MEASUREMENT RESULTS																				
FREQUENCY		Mode	Service	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Chipset Variant	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)	
2437	6	802.11n	OFDM	20	15.0	14.75	0.02	15 mm	MIMO	Q	2044M	13	back	99.7	0.040	0.031	1.059	1.003	0.033	
2437	6	802.11n	OFDM	20	15.0	14.73	0.01	15 mm	MIMO	N	0115S	13	back	99.7	0.048	0.040	1.064	1.003	0.043	
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: 2.4 GHZ WLAN MIMO was additionally evaluated at the maximum allowed output power during operations with Simultaneous 2.4 GHz WLAN and 5 GHz WLAN and/or 5G NR active. 5 GHz WIFI and/or 5G NR were not transmitting during the above evaluations

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Table 11-49
NII SISO Body-Worn SAR – Open

MEASUREMENT RESULTS																				
FREQUENCY		Mode	Service	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Chipset Variant	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)	
5300	60	802.11a	OFDM	20	18.0	17.80	0.01	15 mm	1	Q	1598S	6	back	98.9	0.123	0.069	1.047	1.011	0.073	
5320	64	802.11a	OFDM	20	18.0	17.99	0.02	15 mm	1	N	0677M	6	back	98.9	0.031	0.017	1.002	1.011	0.017	
5600	120	802.11a	OFDM	20	18.0	17.80	0.01	15 mm	1	Q	1598S	6	back	98.9	0.186	0.121	1.047	1.011	0.128	
5720	144	802.11a	OFDM	20	18.0	17.99	0.01	15 mm	1	N	0677M	6	back	98.9	0.024	0.007	1.002	1.011	0.007	
5785	157	802.11a	OFDM	20	18.0	17.84	0.01	15 mm	1	Q	1598S	6	back	98.9	0.181	0.110	1.038	1.011	0.115	
5825	165	802.11a	OFDM	20	18.0	17.96	0.01	15 mm	1	N	0677M	6	back	98.9	0.021	0.005	1.009	1.011	0.005	
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 11-50
NII MIMO Body-Worn SAR - Open

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.	Chipset Variant	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)		
5300	60	802.11n	OFDM	20	18.0	17.65	18.0	17.81	0.01	15 mm	MIMO	Q	1598S	13	back	99.7	0.203	0.124	1.084	1.003	0.135	
5300	60	802.11n	OFDM	20	18.0	17.96	18.0	17.83	0.02	15 mm	MIMO	N	0677M	13	back	99.8	0.134	0.075	1.040	1.002	0.078	
5720	144	802.11n	OFDM	20	18.0	17.59	18.0	17.79	0.01	15 mm	MIMO	Q	1598S	13	back	99.7	0.189	0.118	1.099	1.003	0.130	
5620	124	802.11n	OFDM	20	18.0	17.99	18.0	17.91	0.02	15 mm	MIMO	N	0677M	13	back	99.8	0.205	0.145	1.021	1.002	0.148	A90
5785	157	802.11n	OFDM	20	18.0	17.67	18.0	17.92	0.01	15 mm	MIMO	Q	1598S	13	back	99.7	0.155	0.103	1.079	1.003	0.111	
5745	149	802.11n	OFDM	20	18.0	17.98	18.0	17.73	0.01	15 mm	MIMO	N	0677M	13	back	99.8	0.125	0.080	1.064	1.002	0.085	
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 11-51
DSS Body-Worn SAR - Open

MEASUREMENT RESULTS																		
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Chipset Variant	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	16.0	15.43	0.01	15 mm	1	Q	2044M	1	back	76.80	0.048	1.140	1.302	0.071	A92
2441	39	Bluetooth	FHSS	16.0	15.55	0.01	15 mm	1	N	0694M	1	back	76.80	0.032	1.109	1.302	0.046	
2441	39	Bluetooth	FHSS	17.0	16.61	0.01	15 mm	2	Q	2044M	1	back	76.80	0.021	1.094	1.302	0.030	
2480	78	Bluetooth	FHSS	17.0	16.60	0.01	15 mm	2	N	0694M	1	back	76.80	0.041	1.096	1.302	0.059	
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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11.3 Standalone Open Hotspot SAR Data

Table 11-52
GPRS/UMTS/CDMA Hotspot SAR Data – Open

MEASUREMENT RESULTS																
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Tune State	Power Drift [dB]	Spacing	Device Serial Number	# of Time Slots	Duty Cycle	Side	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.												(W/kg)		(W/kg)	
824.70	1013	Cell. CDMA	EVDO Rev. 0	24.0	23.01	0	-0.02	10 mm	0747M	N/A	1:1	back	0.354	1.256	0.445	
824.70	1013	Cell. CDMA	EVDO Rev. 0	24.0	23.01	0	0.02	10 mm	0747M	N/A	1:1	front	0.214	1.256	0.269	
824.70	1013	Cell. CDMA	EVDO Rev. 0	24.0	23.01	0	-0.05	10 mm	0747M	N/A	1:1	bottom	0.100	1.256	0.126	
824.70	1013	Cell. CDMA	EVDO Rev. 0	24.0	23.01	0	-0.02	10 mm	0747M	N/A	1:1	right	0.208	1.256	0.261	
824.70	1013	Cell. CDMA	EVDO Rev. 0	24.0	23.01	2	0.11	10 mm	0747M	N/A	1:1	left	0.092	1.256	0.116	
1880.00	600	PCS CDMA	EVDO Rev. 0	19.0	18.29	1	0.07	10 mm	0765M	N/A	1:1	back	0.416	1.178	0.490	
1880.00	600	PCS CDMA	EVDO Rev. 0	19.0	18.29	7	0.03	10 mm	0765M	N/A	1:1	front	0.242	1.178	0.285	
1880.00	600	PCS CDMA	EVDO Rev. 0	19.0	18.29	8	0.06	10 mm	0765M	N/A	1:1	bottom	0.505	1.178	0.595	
1880.00	600	PCS CDMA	EVDO Rev. 0	19.0	18.29	7	0.01	10 mm	0765M	N/A	1:1	right	0.030	1.178	0.035	
1880.00	600	PCS CDMA	EVDO Rev. 0	19.0	18.29	2	0.01	10 mm	0765M	N/A	1:1	left	0.038	1.178	0.045	
836.60	190	GSM 850	GPRS	26.0	24.24	N/A	-0.06	10 mm	0747M	4	1:2.076	back	0.147	1.500	0.221	
836.60	190	GSM 850	GPRS	26.0	24.24	N/A	-0.01	10 mm	0747M	4	1:2.076	front	0.101	1.500	0.152	
836.60	190	GSM 850	GPRS	26.0	24.24	N/A	-0.01	10 mm	0747M	4	1:2.076	bottom	0.103	1.500	0.155	
836.60	190	GSM 850	GPRS	26.0	24.24	N/A	0.06	10 mm	0747M	4	1:2.076	right	0.099	1.500	0.149	
836.60	190	GSM 850	GPRS	26.0	24.24	N/A	0.10	10 mm	0747M	4	1:2.076	left	0.061	1.500	0.092	
1909.80	810	GSM 1900	GPRS	23.0	22.34	N/A	0.01	10 mm	0760M	4	1:2.076	back	0.407	1.164	0.474	
1909.80	810	GSM 1900	GPRS	23.0	22.34	N/A	0.01	10 mm	0760M	4	1:2.076	front	0.305	1.164	0.355	
1850.20	512	GSM 1900	GPRS	23.0	22.31	N/A	0.01	10 mm	0760M	4	1:2.076	bottom	0.638	1.172	0.748	
1880.00	661	GSM 1900	GPRS	23.0	22.00	N/A	0.01	10 mm	0760M	4	1:2.076	bottom	0.508	1.259	0.640	
1909.80	810	GSM 1900	GPRS	23.0	22.34	N/A	0.09	10 mm	0760M	4	1:2.076	bottom	0.758	1.164	0.882	
1909.80	810	GSM 1900	GPRS	23.0	22.34	N/A	0.02	10 mm	0760M	4	1:2.076	right	0.036	1.164	0.042	
1909.80	810	GSM 1900	GPRS	23.0	22.34	N/A	0.02	10 mm	0760M	4	1:2.076	left	0.027	1.164	0.031	
826.40	4132	UMTS 850	RMC	24.0	23.00	0	-0.02	10 mm	0747M	N/A	1:1	back	0.311	1.259	0.392	
826.40	4132	UMTS 850	RMC	24.0	23.00	0	0.00	10 mm	0747M	N/A	1:1	front	0.205	1.259	0.258	
826.40	4132	UMTS 850	RMC	24.0	23.00	0	0.01	10 mm	0747M	N/A	1:1	bottom	0.091	1.259	0.115	
826.40	4132	UMTS 850	RMC	24.0	23.00	0	-0.02	10 mm	0747M	N/A	1:1	right	0.213	1.259	0.268	
826.40	4132	UMTS 850	RMC	24.0	23.00	0	-0.02	10 mm	0747M	N/A	1:1	left	0.078	1.259	0.098	
1732.40	1412	UMTS 1750	RMC	19.0	18.45	22	0.04	10 mm	0760M	N/A	1:1	back	0.490	1.135	0.556	
1732.40	1412	UMTS 1750	RMC	19.0	18.45	22	0.01	10 mm	0760M	N/A	1:1	front	0.361	1.135	0.410	
1712.40	1312	UMTS 1750	RMC	19.0	18.40	0	0.03	10 mm	0760M	N/A	1:1	bottom	0.603	1.148	0.692	
1732.40	1412	UMTS 1750	RMC	19.0	18.45	22	-0.03	10 mm	0760M	N/A	1:1	bottom	0.600	1.135	0.681	
1752.60	1513	UMTS 1750	RMC	19.0	18.38	0	0.08	10 mm	0760M	N/A	1:1	bottom	0.668	1.153	0.770	
1732.40	1412	UMTS 1750	RMC	19.0	18.45	0	-0.03	10 mm	0760M	N/A	1:1	right	0.053	1.135	0.060	
1732.40	1412	UMTS 1750	RMC	19.0	18.45	0	-0.07	10 mm	0760M	N/A	1:1	left	0.083	1.135	0.094	
1852.40	9262	UMTS 1900	RMC	19.0	18.01	14	0.03	10 mm	0760M	N/A	1:1	back	0.468	1.256	0.588	
1852.40	9262	UMTS 1900	RMC	19.0	18.01	14	0.04	10 mm	0760M	N/A	1:1	front	0.347	1.256	0.436	
1852.40	9262	UMTS 1900	RMC	19.0	18.01	53	0.01	10 mm	0760M	N/A	1:1	bottom	0.604	1.256	0.759	
1880.00	9400	UMTS 1900	RMC	19.0	17.95	18	0.00	10 mm	0760M	N/A	1:1	bottom	0.703	1.274	0.896	
1907.60	9538	UMTS 1900	RMC	19.0	18.00	18	0.01	10 mm	0760M	N/A	1:1	bottom	0.666	1.259	0.838	
1852.40	9262	UMTS 1900	RMC	19.0	18.01	69	0.00	10 mm	0760M	N/A	1:1	right	0.036	1.256	0.045	
1852.40	9262	UMTS 1900	RMC	19.0	18.01	52	0.00	10 mm	0760M	N/A	1:1	left	0.060	1.256	0.075	
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 11-53
LTE Band 71 Hotspot SAR - Open

MEASUREMENT RESULTS																				
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Tune State	Power Drift [dB]	MPR [dB]	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
																	(W/kg)		(W/kg)	
MHz	Ch.																			
680.50	133297	Mid	LTE Band 71	20	24.0	22.73	0	0.04	0	0847M	QPSK	1	50	10 mm	back	1:1	0.224	1.340	0.300	
680.50	133297	Mid	LTE Band 71	20	24.0	22.78	0	0.03	0	0847M	QPSK	50	25	10 mm	back	1:1	0.228	1.324	0.302	
680.50	133297	Mid	LTE Band 71	20	24.0	22.73	0	-0.02	0	0847M	QPSK	1	50	10 mm	front	1:1	0.186	1.340	0.249	
680.50	133297	Mid	LTE Band 71	20	24.0	22.78	0	0.00	0	0847M	QPSK	50	25	10 mm	front	1:1	0.189	1.324	0.250	
680.50	133297	Mid	LTE Band 71	20	24.0	22.73	0	-0.02	0	0847M	QPSK	1	50	10 mm	bottom	1:1	0.038	1.340	0.051	
680.50	133297	Mid	LTE Band 71	20	24.0	22.78	0	0.04	0	0847M	QPSK	50	25	10 mm	bottom	1:1	0.034	1.324	0.045	
680.50	133297	Mid	LTE Band 71	20	24.0	22.73	2	0.16	0	0847M	QPSK	1	50	10 mm	right	1:1	0.211	1.340	0.283	
680.50	133297	Mid	LTE Band 71	20	24.0	22.78	2	-0.02	0	0847M	QPSK	50	25	10 mm	right	1:1	0.215	1.324	0.285	
680.50	133297	Mid	LTE Band 71	20	24.0	22.73	0	0.00	0	0847M	QPSK	1	50	10 mm	left	1:1	0.206	1.340	0.276	
680.50	133297	Mid	LTE Band 71	20	24.0	22.78	0	0.04	0	0847M	QPSK	50	25	10 mm	left	1:1	0.209	1.324	0.277	
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 11-54
LTE Band 12 Hotspot SAR - Open

MEASUREMENT RESULTS																				
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Tune State	Power Drift [dB]	MPR [dB]	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	24.0	22.78	0	0.07	0	0847M	QPSK	1	25	10 mm	back	1:1	0.216	1.324	0.286	
707.50	23095	Mid	LTE Band 12	10	24.0	22.85	0	0.07	0	0847M	QPSK	25	12	10 mm	back	1:1	0.218	1.303	0.284	
707.50	23095	Mid	LTE Band 12	10	24.0	22.78	0	-0.11	0	0847M	QPSK	1	25	10 mm	front	1:1	0.159	1.324	0.211	
707.50	23095	Mid	LTE Band 12	10	24.0	22.85	0	-0.01	0	0847M	QPSK	25	12	10 mm	front	1:1	0.169	1.303	0.220	
707.50	23095	Mid	LTE Band 12	10	24.0	22.78	0	-0.09	0	0847M	QPSK	1	25	10 mm	bottom	1:1	0.039	1.324	0.052	
707.50	23095	Mid	LTE Band 12	10	24.0	22.85	0	-0.09	0	0847M	QPSK	25	12	10 mm	bottom	1:1	0.039	1.303	0.051	
707.50	23095	Mid	LTE Band 12	10	24.0	22.78	0	0.05	0	0847M	QPSK	1	25	10 mm	right	1:1	0.162	1.324	0.214	
707.50	23095	Mid	LTE Band 12	10	24.0	22.85	0	-0.03	0	0847M	QPSK	25	12	10 mm	right	1:1	0.166	1.303	0.216	
707.50	23095	Mid	LTE Band 12	10	24.0	22.78	0	-0.14	0	0847M	QPSK	1	25	10 mm	left	1:1	0.144	1.324	0.191	
707.50	23095	Mid	LTE Band 12	10	24.0	22.85	0	-0.01	0	0847M	QPSK	25	12	10 mm	left	1:1	0.149	1.303	0.194	
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 11-55
LTE Band 13 Hotspot SAR – Open

MEASUREMENT RESULTS																				
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Tune State	Power Drift [dB]	MPR [dB]	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	24.0	22.84	0	0.03	0	0847M	QPSK	1	49	10 mm	back	1:1	0.258	1.306	0.337	
782.00	23230	Mid	LTE Band 13	10	24.0	22.89	0	0.07	0	0847M	QPSK	25	12	10 mm	back	1:1	0.264	1.291	0.341	
782.00	23230	Mid	LTE Band 13	10	24.0	22.84	0	-0.01	0	0847M	QPSK	1	49	10 mm	front	1:1	0.195	1.306	0.255	
782.00	23230	Mid	LTE Band 13	10	24.0	22.89	0	0.00	0	0847M	QPSK	25	12	10 mm	front	1:1	0.202	1.291	0.261	
782.00	23230	Mid	LTE Band 13	10	24.0	22.84	0	0.08	0	0847M	QPSK	1	49	10 mm	bottom	1:1	0.104	1.306	0.136	
782.00	23230	Mid	LTE Band 13	10	24.0	22.89	0	0.03	0	0847M	QPSK	25	12	10 mm	bottom	1:1	0.103	1.291	0.133	
782.00	23230	Mid	LTE Band 13	10	24.0	22.84	0	-0.07	0	0847M	QPSK	1	49	10 mm	right	1:1	0.181	1.306	0.236	
782.00	23230	Mid	LTE Band 13	10	24.0	22.89	0	0.07	0	0847M	QPSK	25	12	10 mm	right	1:1	0.210	1.291	0.271	
782.00	23230	Mid	LTE Band 13	10	24.0	22.84	0	0.09	0	0847M	QPSK	1	49	10 mm	left	1:1	0.122	1.306	0.159	
782.00	23230	Mid	LTE Band 13	10	24.0	22.89	0	-0.02	0	0847M	QPSK	25	12	10 mm	left	1:1	0.139	1.291	0.179	
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 11-56
LTE Band 14 Hotspot SAR - Open

MEASUREMENT RESULTS																					
MHz	Ch.		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	(W/kg)	Scaling Factor	(W/kg)	Plot #
793.00	23330	Mid	LTE Band 14	10	24.0	22.84	0	0.00	0	Open	0847M	QPSK	1	25	10 mm	back	1:1	0.258	1.306	0.337	
793.00	23330	Mid	LTE Band 14	10	24.0	22.89	0	0.01	0	Open	0847M	QPSK	25	12	23330	back	1:1	0.260	1.291	0.336	
793.00	23330	Mid	LTE Band 14	10	24.0	22.84	0	-0.08	0	Open	0847M	QPSK	1	25	23330	front	1:1	0.193	1.306	0.252	
793.00	23330	Mid	LTE Band 14	10	24.0	22.89	0	0.05	0	Open	0847M	QPSK	25	12	23330	front	1:1	0.198	1.291	0.256	
793.00	23330	Mid	LTE Band 14	10	24.0	22.84	0	0.00	0	Open	0847M	QPSK	1	25	23330	bottom	1:1	0.100	1.306	0.131	
793.00	23330	Mid	LTE Band 14	10	24.0	22.89	0	0.00	0	Open	0847M	QPSK	25	12	23330	bottom	1:1	0.102	1.291	0.132	
793.00	23330	Mid	LTE Band 14	10	24.0	22.84	0	0.03	0	Open	0847M	QPSK	1	25	23330	right	1:1	0.199	1.306	0.260	
793.00	23330	Mid	LTE Band 14	10	24.0	22.89	0	0.01	0	Open	0847M	QPSK	25	12	23330	right	1:1	0.202	1.291	0.261	
793.00	23330	Mid	LTE Band 14	10	24.0	22.84	0	0.05	0	Open	0847M	QPSK	1	25	23330	left	1:1	0.154	1.306	0.201	
793.00	23330	Mid	LTE Band 14	10	24.0	22.89	0	-0.01	0	Open	0847M	QPSK	25	12	23330	left	1:1	0.154	1.291	0.199	
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 11-57
LTE Band 26 (Cell) Hotspot SAR - Open

MEASUREMENT RESULTS																				
MHz	Ch.	Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Tune State	Power Drift [dB]	MPR [dB]	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	(W/kg)	Scaling Factor	(W/kg)	Plot #	
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.0	23.06	0	-0.01	0	0829M	QPSK	1	74	10 mm	back	1:1	0.241	1.242	0.299	
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.0	23.04	0	-0.05	0	0829M	QPSK	36	37	10 mm	back	1:1	0.240	1.247	0.299	
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.0	23.06	2	0.00	0	0829M	QPSK	1	74	10 mm	front	1:1	0.179	1.242	0.222	
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.0	23.04	2	0.03	0	0829M	QPSK	36	37	10 mm	front	1:1	0.177	1.247	0.221	
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.0	23.06	3	-0.05	0	0829M	QPSK	1	74	10 mm	bottom	1:1	0.091	1.242	0.113	
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.0	23.04	3	0.06	0	0829M	QPSK	36	37	10 mm	bottom	1:1	0.085	1.247	0.106	
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.0	23.06	3	0.05	0	0829M	QPSK	1	74	10 mm	right	1:1	0.164	1.242	0.204	
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.0	23.04	3	-0.03	0	0829M	QPSK	36	37	10 mm	right	1:1	0.160	1.247	0.200	
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.0	23.06	0	0.19	0	0829M	QPSK	1	74	10 mm	left	1:1	0.074	1.242	0.092	
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.0	23.04	0	0.08	0	0829M	QPSK	36	37	10 mm	left	1:1	0.070	1.247	0.087	
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 5 (Cell) Hotspot SAR - Open

MEASUREMENT RESULTS																				
MHz	Ch.	Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Tune State	Power Drift [dB]	MPR [dB]	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	(W/kg)	Scaling Factor	(W/kg)	Plot #	
836.50	20525	Mid	LTE Band 5 (Cell)	10	24.0	22.82	0	0.08	0	0122M	QPSK	1	49	10 mm	back	1:1	0.296	1.312	0.388	
836.50	20525	Mid	LTE Band 5 (Cell)	10	24.0	23.00	0	0.03	0	0122M	QPSK	25	25	10 mm	back	1:1	0.296	1.259	0.373	
836.50	20525	Mid	LTE Band 5 (Cell)	10	24.0	22.82	0	0.06	0	0122M	QPSK	1	49	10 mm	front	1:1	0.194	1.312	0.255	
836.50	20525	Mid	LTE Band 5 (Cell)	10	24.0	23.00	0	0.02	0	0122M	QPSK	25	25	10 mm	front	1:1	0.197	1.259	0.248	
836.50	20525	Mid	LTE Band 5 (Cell)	10	24.0	22.82	0	-0.11	0	0122M	QPSK	1	49	10 mm	bottom	1:1	0.106	1.312	0.139	
836.50	20525	Mid	LTE Band 5 (Cell)	10	24.0	23.00	0	0.03	0	0122M	QPSK	25	25	10 mm	bottom	1:1	0.105	1.259	0.132	
836.50	20525	Mid	LTE Band 5 (Cell)	10	24.0	22.82	109	-0.02	0	0122M	QPSK	1	49	10 mm	right	1:1	0.183	1.312	0.240	
836.50	20525	Mid	LTE Band 5 (Cell)	10	24.0	23.00	109	0.02	0	0122M	QPSK	25	25	10 mm	right	1:1	0.182	1.259	0.229	
836.50	20525	Mid	LTE Band 5 (Cell)	10	24.0	22.82	0	0.01	0	0122M	QPSK	1	49	10 mm	left	1:1	0.083	1.312	0.109	
836.50	20525	Mid	LTE Band 5 (Cell)	10	24.0	23.00	0	0.10	0	0122M	QPSK	25	25	10 mm	left	1:1	0.082	1.259	0.103	
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 66 (AWS) Hotspot SAR - Open

MEASUREMENT RESULTS																				
MHz	Ch.		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Tune State	Power Drift [dB]	MPR [dB]	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	(W/kg)	Scaling Factor	(W/kg)	Plot #
1770.00	132572	High	LTE Band 66 (AWS)	20	19.0	18.43	59	0.05	0	1916M	QPSK	1	99	10 mm	back	1:1	0.386	1.140	0.440	
1770.00	132572	High	LTE Band 66 (AWS)	20	19.0	18.57	59	0.06	0	1916M	QPSK	50	25	10 mm	back	1:1	0.389	1.104	0.429	
1770.00	132572	High	LTE Band 66 (AWS)	20	19.0	18.43	14	-0.01	0	1916M	QPSK	1	99	10 mm	front	1:1	0.291	1.140	0.332	
1770.00	132572	High	LTE Band 66 (AWS)	20	19.0	18.57	14	0.02	0	1916M	QPSK	50	25	10 mm	front	1:1	0.297	1.104	0.328	
1720.00	132072	Low	LTE Band 66 (AWS)	20	19.0	18.20	12	-0.19	0	1916M	QPSK	1	50	10 mm	bottom	1:1	0.424	1.202	0.510	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	19.0	18.29	0	-0.12	0	1916M	QPSK	1	50	10 mm	bottom	1:1	0.676	1.178	0.796	
1770.00	132572	High	LTE Band 66 (AWS)	20	19.0	18.43	116	0.20	0	1916M	QPSK	1	99	10 mm	bottom	1:1	0.596	1.140	0.679	
1770.00	132572	High	LTE Band 66 (AWS)	20	19.0	18.57	17	-0.11	0	1916M	QPSK	50	25	10 mm	bottom	1:1	0.595	1.104	0.657	
1770.00	132572	High	LTE Band 66 (AWS)	20	19.0	18.43	116	-0.04	0	1916M	QPSK	1	99	10 mm	right	1:1	0.056	1.140	0.064	
1770.00	132572	High	LTE Band 66 (AWS)	20	19.0	18.57	116	0.08	0	1916M	QPSK	50	25	10 mm	right	1:1	0.055	1.104	0.061	
1770.00	132572	High	LTE Band 66 (AWS)	20	19.0	18.43	59	0.03	0	1916M	QPSK	1	99	10 mm	left	1:1	0.061	1.140	0.070	
1770.00	132572	High	LTE Band 66 (AWS)	20	19.0	18.57	59	0.09	0	1916M	QPSK	50	25	10 mm	left	1:1	0.063	1.104	0.070	
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
LTE Band 25 (PCS) Hotspot SAR - Open

MEASUREMENT RESULTS																				
MHz	Ch.	Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Tune State	Power Drift [dB]	MPR [dB]	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	(W/kg)	Scaling Factor	(W/kg)	Plot #	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	19.0	18.45	0	0.02	0	0748M	QPSK	1	99	10 mm	back	1:1	0.458	1.135	0.520	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	19.0	18.48	0	0.00	0	0748M	QPSK	50	25	10 mm	back	1:1	0.509	1.127	0.574	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	19.0	18.45	24	-0.02	0	0748M	QPSK	1	99	10 mm	front	1:1	0.298	1.135	0.338	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	19.0	18.48	24	0.02	0	0748M	QPSK	50	25	10 mm	front	1:1	0.345	1.127	0.389	
1860.00	26140	Low	LTE Band 25 (PCS)	20	19.0	18.09	24	0.18	0	0748M	QPSK	1	99	10 mm	bottom	1:1	0.795	1.233	0.980	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	19.0	18.45	24	0.05	0	0748M	QPSK	1	99	10 mm	bottom	1:1	0.753	1.135	0.855	
1905.00	26590	High	LTE Band 25 (PCS)	20	19.0	17.77	21	0.13	0	0748M	QPSK	1	0	10 mm	bottom	1:1	0.840	1.327	1.115	
1860.00	26140	Low	LTE Band 25 (PCS)	20	19.0	18.07	24	0.11	0	0748M	QPSK	50	50	10 mm	bottom	1:1	0.798	1.239	0.989	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	19.0	18.48	24	-0.02	0	0748M	QPSK	50	25	10 mm	bottom	1:1	0.793	1.127	0.894	
1905.00	26590	High	LTE Band 25 (PCS)	20	19.0	17.95	21	0.18	0	0748M	QPSK	50	0	10 mm	bottom	1:1	0.796	1.274	1.014	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	19.0	18.05	25	0.02	0	0748M	QPSK	100	0	10 mm	bottom	1:1	0.766	1.245	0.954	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	19.0	18.45	52	-0.04	0	0748M	QPSK	1	99	10 mm	right	1:1	0.054	1.135	0.061	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	19.0	18.48	52	0.05	0	0748M	QPSK	50	25	10 mm	right	1:1	0.056	1.127	0.063	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	19.0	18.45	7	0.05	0	0748M	QPSK	1	99	10 mm	left	1:1	0.033	1.135	0.037	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	19.0	18.48	7	0.11	0	0748M	QPSK	50	25	10 mm	left	1:1	0.042	1.127	0.047	
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 11-61
LTE Band 30 Hotspot SAR - Open

MEASUREMENT RESULTS																		
Ch.		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	(W/kg)	Scaling Factor	(W/kg)	Plot #
27710	Mid	LTE Band 30	10	18.5	17.95	0.01	0	0748M	QPSK	1	0	10 mm	back	1:1	0.373	1.135	0.423	
27710	Mid	LTE Band 30	10	18.5	18.00	0.01	0	0748M	QPSK	25	12	10 mm	back	1:1	0.377	1.122	0.423	
27710	Mid	LTE Band 30	10	18.5	17.95	0.01	0	0748M	QPSK	1	0	10 mm	front	1:1	0.261	1.135	0.296	
27710	Mid	LTE Band 30	10	18.5	18.00	0.01	0	0748M	QPSK	25	12	10 mm	front	1:1	0.261	1.122	0.293	
27710	Mid	LTE Band 30	10	18.5	17.95	-0.02	0	0748M	QPSK	1	0	10 mm	bottom	1:1	0.648	1.135	0.735	
27710	Mid	LTE Band 30	10	18.5	18.00	0.00	0	0748M	QPSK	25	12	10 mm	bottom	1:1	0.666	1.122	0.747	
27710	Mid	LTE Band 30	10	18.5	17.95	0.01	0	0748M	QPSK	1	0	10 mm	right	1:1	0.028	1.135	0.032	
27710	Mid	LTE Band 30	10	18.5	18.00	0.01	0	0748M	QPSK	25	12	10 mm	right	1:1	0.030	1.122	0.034	
27710	Mid	LTE Band 30	10	18.5	17.95	0.00	0	0748M	QPSK	1	0	10 mm	left	1:1	0.029	1.135	0.033	
27710	Mid	LTE Band 30	10	18.5	18.00	0.00	0	0748M	QPSK	25	12	10 mm	left	1:1	0.030	1.122	0.034	
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 11-62
LTE Band 7 Hotspot SAR - Open

MEASUREMENT RESULTS																		
MHz	Ch.	Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	(W/kg)	Scaling Factor	(W/kg)	Plot #
2560.00	21350	High	LTE Band 7	20	18.5	18.34	-0.10	0	0126M	QPSK	1	0	10 mm	back	1:1	0.180	1.038	0.187
2560.00	21350	High	LTE Band 7	20	18.5	18.35	-0.10	0	0126M	QPSK	50	25	10 mm	back	1:1	0.182	1.035	0.188
2560.00	21350	High	LTE Band 7	20	18.5	18.34	0.04	0	0126M	QPSK	1	0	10 mm	front	1:1	0.148	1.038	0.154
2560.00	21350	High	LTE Band 7	20	18.5	18.35	0.04	0	0126M	QPSK	50	25	10 mm	front	1:1	0.156	1.035	0.161
2560.00	21350	High	LTE Band 7	20	18.5	18.34	-0.13	0	0126M	QPSK	1	0	10 mm	bottom	1:1	0.400	1.038	0.415
2560.00	21350	High	LTE Band 7	20	18.5	18.35	0.13	0	0126M	QPSK	50	25	10 mm	bottom	1:1	0.406	1.035	0.420
2560.00	21350	High	LTE Band 7	20	18.5	18.34	0.06	0	0126M	QPSK	1	0	10 mm	left	1:1	0.065	1.038	0.067
2560.00	21350	High	LTE Band 7	20	18.5	18.35	0.01	0	0126M	QPSK	50	25	10 mm	left	1:1	0.061	1.035	0.063
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 11-63
LTE Band 48 Hotspot SAR - Open

MEASUREMENT RESULTS																		
MHz	Ch.	Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	(W/kg)	Scaling Factor	(W/kg)	Plot #
3690.00	56640	High	LTE Band 48	20	18.0	17.23	0.02	0	0881M	QPSK	1	0	10 mm	back	1:1.58	0.091	1.194	0.109
3690.00	56640	High	LTE Band 48	20	18.0	17.22	0.02	0	0881M	QPSK	50	0	10 mm	back	1:1.58	0.089	1.197	0.107
3690.00	56640	High	LTE Band 48	20	18.0	17.23	0.02	0	0881M	QPSK	1	0	10 mm	front	1:1.58	0.094	1.194	0.112
3690.00	56640	High	LTE Band 48	20	18.0	17.22	0.02	0	0881M	QPSK	50	0	10 mm	front	1:1.58	0.090	1.197	0.108
3690.00	56640	High	LTE Band 48	20	18.0	17.23	0.02	0	0881M	QPSK	1	0	10 mm	top	1:1.58	0.031	1.194	0.037
3690.00	56640	High	LTE Band 48	20	18.0	17.22	0.02	0	0881M	QPSK	50	0	10 mm	top	1:1.58	0.032	1.197	0.038
3690.00	56640	High	LTE Band 48	20	18.0	17.23	0.01	0	0881M	QPSK	1	0	10 mm	left	1:1.58	0.153	1.194	0.183
3690.00	56640	High	LTE Band 48	20	18.0	17.22	0.02	0	0881M	QPSK	50	0	10 mm	left	1:1.58	0.151	1.197	0.181
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 11-64
LTE Band 41 Hotspot SAR - Open

MEASUREMENT RESULTS																		
MHz	Ch.	Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	(W/kg)	Scaling Factor	(W/kg)	Plot #
2506.00	39750	Low	LTE Band 41	20	20.5	20.40	0.03	0	0123M	QPSK	1	50	10 mm	back	1:1.58	0.222	1.023	0.227
2506.00	39750	Low	LTE Band 41	20	20.5	20.48	0.03	0	0123M	QPSK	50	25	10 mm	back	1:1.58	0.230	1.005	0.231
2506.00	39750	Low	LTE Band 41	20	20.5	20.40	0.03	0	0123M	QPSK	1	50	10 mm	front	1:1.58	0.160	1.023	0.164
2506.00	39750	Low	LTE Band 41	20	20.5	20.48	0.03	0	0123M	QPSK	50	25	10 mm	front	1:1.58	0.165	1.005	0.166
2506.00	39750	Low	LTE Band 41	20	20.5	20.40	0.03	0	0123M	QPSK	1	50	10 mm	bottom	1:1.58	0.438	1.023	0.448
2506.00	39750	Low	LTE Band 41	20	20.5	20.48	0.06	0	0123M	QPSK	50	25	10 mm	bottom	1:1.58	0.446	1.005	0.448
2506.00	39750	Low	LTE Band 41	20	20.5	20.40	0.01	0	0123M	QPSK	1	50	10 mm	left	1:1.58	0.032	1.023	0.033
2506.00	39750	Low	LTE Band 41	20	20.5	20.48	0.01	0	0123M	QPSK	50	25	10 mm	left	1:1.58	0.035	1.005	0.035
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 11-65
NR Band n71 Hotspot SAR - Open

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Tune 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	24.0	22.75	0.04	0	0	0175M	DFT-S-OFDM	QPSK	1	1	10 mm	back	1:1	0.221	1.334	0.295	
680.50	136100	Mid	NR Band n71	20	24.0	22.91	-0.16	0	0	0175M	DFT-S-OFDM	QPSK	50	0	10 mm	back	1:1	0.197	1.285	0.253	
680.50	136100	Mid	NR Band n71	20	24.0	22.75	0.18	0	0	0175M	DFT-S-OFDM	QPSK	1	1	10 mm	front	1:1	0.180	1.334	0.240	
680.50	136100	Mid	NR Band n71	20	24.0	22.91	-0.14	0	0	0175M	DFT-S-OFDM	QPSK	50	0	10 mm	front	1:1	0.193	1.285	0.248	
680.50	136100	Mid	NR Band n71	20	24.0	22.75	0.09	0	0	0175M	DFT-S-OFDM	QPSK	1	1	10 mm	bottom	1:1	0.028	1.334	0.037	
680.50	136100	Mid	NR Band n71	20	24.0	22.91	0.01	0	0	0175M	DFT-S-OFDM	QPSK	50	0	10 mm	bottom	1:1	0.027	1.285	0.035	
680.50	136100	Mid	NR Band n71	20	24.0	22.75	0.03	0	2	0175M	DFT-S-OFDM	QPSK	1	1	10 mm	right	1:1	0.218	1.334	0.291	
680.50	136100	Mid	NR Band n71	20	24.0	22.91	-0.06	0	2	0175M	DFT-S-OFDM	QPSK	50	0	10 mm	right	1:1	0.233	1.285	0.299	
680.50	136100	Mid	NR Band n71	20	24.0	22.90	-0.06	0	2	0175M	CP-OFDM	QPSK	1	1	10 mm	right	1:1	0.197	1.288	0.254	
680.50	136100	Mid	NR Band n71	20	24.0	22.75	0.12	0	0	0175M	DFT-S-OFDM	QPSK	1	1	10 mm	left	1:1	0.170	1.334	0.227	
680.50	136100	Mid	NR Band n71	20	24.0	22.91	0.05	0	0	0175M	DFT-S-OFDM	QPSK	50	0	10 mm	left	1:1	0.207	1.285	0.266	
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 11-66
NR Band n12 Hotspot SAR – Open

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Tune 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	Mid	NR Band n12	15	24.0	22.54	0.01	0	0	0177M	DFT-S-OFDM	QPSK	1	1	10 mm	back	1:1	0.220	1.400	0.308	
707.50	141500	Mid	NR Band n12	15	24.0	22.58	0.02	0	0	0177M	DFT-S-OFDM	QPSK	36	0	10 mm	back	1:1	0.231	1.387	0.320	
707.50	141500	Mid	NR Band n12	15	24.0	22.54	0.02	0	0	0177M	DFT-S-OFDM	QPSK	1	1	10 mm	front	1:1	0.223	1.400	0.312	
707.50	141500	Mid	NR Band n12	15	24.0	22.58	0.12	0	0	0177M	DFT-S-OFDM	QPSK	36	0	10 mm	front	1:1	0.226	1.387	0.313	
707.50	141500	Mid	NR Band n12	15	24.0	22.54	-0.09	0	0	0177M	DFT-S-OFDM	QPSK	1	1	10 mm	bottom	1:1	0.041	1.400	0.057	
707.50	141500	Mid	NR Band n12	15	24.0	22.58	0.05	0	0	0177M	DFT-S-OFDM	QPSK	36	0	10 mm	bottom	1:1	0.039	1.387	0.054	
707.50	141500	Mid	NR Band n12	15	24.0	22.54	-0.02	0	0	0177M	DFT-S-OFDM	QPSK	1	1	10 mm	right	1:1	0.203	1.400	0.284	
707.50	141500	Mid	NR Band n12	15	24.0	22.58	-0.04	0	0	0177M	DFT-S-OFDM	QPSK	36	0	10 mm	right	1:1	0.209	1.387	0.290	
707.50	141500	Mid	NR Band n12	15	24.0	22.54	0.05	0	0	0177M	DFT-S-OFDM	QPSK	1	1	10 mm	left	1:1	0.231	1.400	0.323	
707.50	141500	Mid	NR Band n12	15	24.0	22.58	0.06	0	0	0177M	DFT-S-OFDM	QPSK	36	0	10 mm	left	1:1	0.236	1.387	0.327	
707.50	141500	Mid	NR Band n12	15	24.0	23.14	-0.12	0	0	0177M	CP-OFDM	QPSK	1	1	10 mm	left	1:1	0.220	1.219	0.268	
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 11-67
NR Band n5 Hotspot SAR - Open

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Tune 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)		
836.50	167300	Mid	NR Band n5 (Cell)	20	24.0	22.82	0.03	0	0	0183M	DFT-S-OFDM	QPSK	1	53	10 mm	back	1:1	0.308	1.312	0.404	
836.50	167300	Mid	NR Band n5 (Cell)	20	24.0	22.96	0.01	0	0	0183M	DFT-S-OFDM	QPSK	50	56	10 mm	back	1:1	0.325	1.271	0.413	
836.50	167300	Mid	NR Band n5 (Cell)	20	23.8	22.55	0.12	0.2	0	0183M	CP-OFDM	QPSK	1	1	10 mm	back	1:1	0.251	1.334	0.335	
836.50	167300	Mid	NR Band n5 (Cell)	20	24.0	22.82	0.00	0	0	0183M	DFT-S-OFDM	QPSK	1	53	10 mm	front	1:1	0.217	1.312	0.285	
836.50	167300	Mid	NR Band n5 (Cell)	20	24.0	22.96	0.01	0	0	0183M	DFT-S-OFDM	QPSK	50	56	10 mm	front	1:1	0.224	1.271	0.285	
836.50	167300	Mid	NR Band n5 (Cell)	20	24.0	22.82	0.08	0	0	0183M	DFT-S-OFDM	QPSK	1	53	10 mm	bottom	1:1	0.108	1.312	0.142	
836.50	167300	Mid	NR Band n5 (Cell)	20	24.0	22.96	0.02	0	0	0183M	DFT-S-OFDM	QPSK	50	56	10 mm	bottom	1:1	0.109	1.271	0.139	
836.50	167300	Mid	NR Band n5 (Cell)	20	24.0	22.82	0.03	0	109	0183M	DFT-S-OFDM	QPSK	1	53	10 mm	right	1:1	0.185	1.312	0.243	
836.50	167300	Mid	NR Band n5 (Cell)	20	24.0	22.96	0.09	0	109	0183M	DFT-S-OFDM	QPSK	50	56	10 mm	right	1:1	0.175	1.271	0.222	
836.50	167300	Mid	NR Band n5 (Cell)	20	24.0	22.82	-0.09	0	0	0183M	DFT-S-OFDM	QPSK	1	53	10 mm	left	1:1	0.082	1.312	0.108	
836.50	167300	Mid	NR Band n5 (Cell)	20	24.0	22.96	0.06	0	0	0183M	DFT-S-OFDM	QPSK	50	56	10 mm	left	1:1	0.081	1.271	0.103	
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 11-68
NR Band n66 Hotspot SAR - Open

MEASUREMENT RESULTS																						
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Antenna Config	Power Drift [dB]	MPR [dB]	Tune State	Serial Number	Waveform	Modulation	RB Size	RB Offset	Spacing	MPR [dB]	Duty Cycle	SAR (1g)		Scaling Factor	Reported SAR (1g) (W/kg)	Plot #
MHz	Ch.																	(W/kg)	(W/kg)			
1745.00	349000	Mid	NR Band n66 (AWS)	40	18.5	18.08	A	0.07	0	59	0218M	DFT-S-OFDM	QPSK	1	214	10 mm	back	1:1	0.433	1.102	0.477	
1745.00	349000	Mid	NR Band n66 (AWS)	40	18.5	18.05	A	0.04	0	59	0218M	DFT-S-OFDM	QPSK	108	108	10 mm	back	1:1	0.428	1.109	0.475	
1745.00	349000	Mid	NR Band n66 (AWS)	40	18.5	18.08	A	0.04	0	14	0218M	DFT-S-OFDM	QPSK	1	214	10 mm	front	1:1	0.323	1.102	0.356	
1745.00	349000	Mid	NR Band n66 (AWS)	40	18.5	18.05	A	-0.01	0	14	0218M	DFT-S-OFDM	QPSK	108	108	10 mm	front	1:1	0.321	1.109	0.356	
1745.00	349000	Mid	NR Band n66 (AWS)	40	18.5	18.08	A	-0.07	0	0	0218M	DFT-S-OFDM	QPSK	1	214	10 mm	bottom	1:1	0.716	1.102	0.789	
1745.00	349000	Mid	NR Band n66 (AWS)	40	18.5	18.05	A	-0.07	0	17	0218M	DFT-S-OFDM	QPSK	108	108	10 mm	bottom	1:1	0.684	1.109	0.759	
1745.00	349000	Mid	NR Band n66 (AWS)	40	18.5	17.99	A	0.01	0	0	0218M	DFT-S-OFDM	QPSK	216	0	10 mm	bottom	1:1	0.751	1.125	0.845	
1745.00	349000	Mid	NR Band n66 (AWS)	40	18.5	17.91	A	-0.06	0	0	0218M	CP-OFDM	QPSK	1	1	10 mm	bottom	1:1	0.733	1.146	0.840	
1745.00	349000	Mid	NR Band n66 (AWS)	40	18.5	18.08	A	-0.08	0	116	0218M	DFT-S-OFDM	QPSK	1	214	10 mm	right	1:1	0.053	1.102	0.058	
1745.00	349000	Mid	NR Band n66 (AWS)	40	18.5	18.05	A	0.01	0	116	0218M	DFT-S-OFDM	QPSK	108	108	10 mm	right	1:1	0.052	1.109	0.058	
1745.00	349000	Mid	NR Band n66 (AWS)	40	18.5	18.08	A	-0.04	0	59	0218M	DFT-S-OFDM	QPSK	1	214	10 mm	left	1:1	0.067	1.102	0.074	
1745.00	349000	Mid	NR Band n66 (AWS)	40	18.5	18.05	A	0.06	0	59	0218M	DFT-S-OFDM	QPSK	108	108	10 mm	left	1:1	0.062	1.109	0.069	
1745.00	349000	Mid	NR Band n66 (AWS)	40	19.0	18.62	I	0.02	0	N/A	0879M	DFT-S-OFDM	QPSK	1	1	10 mm	back	1:1	0.260	1.091	0.284	
1745.00	349000	Mid	NR Band n66 (AWS)	40	19.0	18.67	I	0.01	0	N/A	0879M	DFT-S-OFDM	QPSK	108	0	10 mm	back	1:1	0.265	1.079	0.286	
1745.00	349000	Mid	NR Band n66 (AWS)	40	19.0	18.62	I	0.01	0	N/A	0879M	DFT-S-OFDM	QPSK	1	1	10 mm	front	1:1	0.181	1.091	0.197	
1745.00	349000	Mid	NR Band n66 (AWS)	40	19.0	18.67	I	0.01	0	N/A	0879M	DFT-S-OFDM	QPSK	108	0	10 mm	front	1:1	0.182	1.079	0.196	
1745.00	349000	Mid	NR Band n66 (AWS)	40	19.0	18.62	I	0.02	0	N/A	0879M	DFT-S-OFDM	QPSK	1	1	10 mm	top	1:1	0.024	1.091	0.026	
1745.00	349000	Mid	NR Band n66 (AWS)	40	19.0	18.67	I	0.01	0	N/A	0879M	DFT-S-OFDM	QPSK	108	0	10 mm	top	1:1	0.021	1.079	0.023	
1745.00	349000	Mid	NR Band n66 (AWS)	40	19.0	18.62	I	0.02	0	N/A	0879M	DFT-S-OFDM	QPSK	1	1	10 mm	right	1:1	0.387	1.091	0.422	
1745.00	349000	Mid	NR Band n66 (AWS)	40	19.0	18.67	I	0.01	0	N/A	0879M	DFT-S-OFDM	QPSK	108	0	10 mm	right	1:1	0.383	1.079	0.413	
1745.00	349000	Mid	NR Band n66 (AWS)	40	19.0	18.72	I	0.01	0	N/A	0879M	CP-OFDM	QPSK	1	1	10 mm	right	1:1	0.383	1.067	0.409	
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 11-69
NR Band n25 Hotspot SAR - Open

MEASUREMENT RESULTS																						
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Antenna Config	Power Drift [dB]	MPR [dB]	Tune 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)		
1882.50	376500	Mid	NR Band n25 (PCS)	40	18.5	17.63	A	0.10	0	0	0195M	DFT-S-OFDM	QPSK	1	1	10 mm	back	1:1	0.370	1.222	0.452	
1882.50	376500	Mid	NR Band n25 (PCS)	40	18.5	17.55	A	0.01	0	0	0195M	DFT-S-OFDM	QPSK	108	0	10 mm	back	1:1	0.356	1.245	0.443	
1882.50	376500	Mid	NR Band n25 (PCS)	40	18.5	17.63	A	0.01	0	25	0195M	DFT-S-OFDM	QPSK	1	1	10 mm	front	1:1	0.357	1.222	0.436	
1882.50	376500	Mid	NR Band n25 (PCS)	40	18.5	17.55	A	0.00	0	25	0195M	DFT-S-OFDM	QPSK	108	0	10 mm	front	1:1	0.347	1.245	0.432	
1882.50	376500	Mid	NR Band n25 (PCS)	40	18.5	17.63	A	0.00	0	25	0195M	DFT-S-OFDM	QPSK	1	1	10 mm	bottom	1:1	0.482	1.222	0.589	
1882.50	376500	Mid	NR Band n25 (PCS)	40	18.5	17.55	A	0.00	0	25	0195M	DFT-S-OFDM	QPSK	108	0	10 mm	bottom	1:1	0.424	1.245	0.528	
1882.50	376500	Mid	NR Band n25 (PCS)	40	18.5	17.54	A	0.01	0	25	0195M	CP-OFDM	QPSK	1	1	10 mm	bottom	1:1	0.471	1.247	0.587	
1882.50	376500	Mid	NR Band n25 (PCS)	40	18.5	17.63	A	0.00	0	52	0195M	DFT-S-OFDM	QPSK	1	1	10 mm	right	1:1	0.043	1.222	0.053	
1882.50	376500	Mid	NR Band n25 (PCS)	40	18.5	17.55	A	0.00	0	52	0195M	DFT-S-OFDM	QPSK	108	0	10 mm	right	1:1	0.041	1.245	0.051	
1882.50	376500	Mid	NR Band n25 (PCS)	40	18.5	17.63	A	0.00	0	7	0195M	DFT-S-OFDM	QPSK	1	1	10 mm	left	1:1	0.063	1.222	0.077	
1882.50	376500	Mid	NR Band n25 (PCS)	40	18.5	17.55	A	0.10	0	7	0195M	DFT-S-OFDM	QPSK	108	0	10 mm	left	1:1	0.056	1.245	0.070	
1882.50	376500	Mid	NR Band n25 (PCS)	40	19.0	19.00	I	-0.09	0	N/A	0818M	DFT-S-OFDM	QPSK	1	214	10 mm	back	1:1	0.150	1.000	0.150	
1882.50	376500	Mid	NR Band n25 (PCS)	40	19.0	18.97	I	0.00	0	N/A	0818M	DFT-S-OFDM	QPSK	108	54	10 mm	back	1:1	0.167	1.007	0.168	
1882.50	376500	Mid	NR Band n25 (PCS)	40	19.0	19.00	I	0.09	0	N/A	0818M	DFT-S-OFDM	QPSK	1	214	10 mm	front	1:1	0.102	1.000	0.102	
1882.50	376500	Mid	NR Band n25 (PCS)	40	19.0	18.97	I	0.00	0	N/A	0818M	DFT-S-OFDM	QPSK	108	54	10 mm	front	1:1	0.115	1.007	0.116	
1882.50	376500	Mid	NR Band n25 (PCS)	40	19.0	19.00	I	0.02	0	N/A	0818M	DFT-S-OFDM	QPSK	1	214	10 mm	top	1:1	0.040	1.000	0.040	
1882.50	376500	Mid	NR Band n25 (PCS)	40	19.0	18.97	I	0.10	0	N/A	0818M	DFT-S-OFDM	QPSK	108	54	10 mm	top	1:1	0.040	1.007	0.040	
1882.50	376500	Mid	NR Band n25 (PCS)	40	19.0	19.00	I	0.03	0	N/A	0818M	DFT-S-OFDM	QPSK	1	214	10 mm	right	1:1	0.334	1.000	0.334	
1882.50	376500	Mid	NR Band n25 (PCS)	40	19.0	18.97	I	-0.04	0	N/A	0818M	DFT-S-OFDM	QPSK	108	54	10 mm	right	1:1	0.372	1.007	0.375	
1882.50	376500	Mid	NR Band n25 (PCS)	40	19.0	18.82	I	0.05	0	N/A	0818M	CP-OFDM	QPSK	1	1	10 mm	right	1:1	0.470	1.042	0.490	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT									Body													
Spatial Peak									1.6 W/kg (mW/g)													
Uncontrolled Exposure/General Population									averaged over 10ram													

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Table 11-70
NR Band n30 Hotspot SAR - Open

MEASUREMENT RESULTS																				
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	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	18.5	18.00	0.00	0	0181M	DFT-S-OFDM	QPSK	1	1	10 mm	back	1:1	0.430	1.122	0.482	
2310.00	462000	Mid	NR Band n30	10	18.5	18.00	0.00	0	0181M	DFT-S-OFDM	QPSK	25	27	10 mm	back	1:1	0.439	1.122	0.493	
2310.00	462000	Mid	NR Band n30	10	18.5	18.00	0.00	0	0181M	DFT-S-OFDM	QPSK	1	1	10 mm	front	1:1	0.288	1.122	0.323	
2310.00	462000	Mid	NR Band n30	10	18.5	18.00	0.00	0	0181M	DFT-S-OFDM	QPSK	25	27	10 mm	front	1:1	0.285	1.122	0.320	
2310.00	462000	Mid	NR Band n30	10	18.5	18.00	0.00	0	0181M	DFT-S-OFDM	QPSK	1	1	10 mm	bottom	1:1	0.799	1.122	0.896	
2310.00	462000	Mid	NR Band n30	10	18.5	18.00	0.00	0	0181M	DFT-S-OFDM	QPSK	25	27	10 mm	bottom	1:1	0.779	1.122	0.874	
2310.00	462000	Mid	NR Band n30	10	18.5	17.90	0.00	0	0181M	DFT-S-OFDM	QPSK	50	0	10 mm	bottom	1:1	0.779	1.148	0.894	
2310.00	462000	Mid	NR Band n30	10	18.5	17.92	0.00	0	0181M	CP-OFDM	QPSK	1	1	10 mm	bottom	1:1	0.768	1.143	0.878	
2310.00	462000	Mid	NR Band n30	10	18.5	18.00	0.00	0	0181M	DFT-S-OFDM	QPSK	1	1	10 mm	right	1:1	0.031	1.122	0.035	
2310.00	462000	Mid	NR Band n30	10	18.5	18.00	0.00	0	0181M	DFT-S-OFDM	QPSK	25	27	10 mm	right	1:1	0.029	1.122	0.033	
2310.00	462000	Mid	NR Band n30	10	18.5	18.00	0.00	0	0181M	DFT-S-OFDM	QPSK	1	1	10 mm	left	1:1	0.045	1.122	0.050	
2310.00	462000	Mid	NR Band n30	10	18.5	18.00	0.00	0	0181M	DFT-S-OFDM	QPSK	25	27	10 mm	left	1:1	0.042	1.122	0.047	
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 11-71
NR Band n41 Hotspot SAR - Open

MEASUREMENT RESULTS																				
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	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	20.0	19.65	0.10	0	0897M	DFT-S-OFDM	QPSK	1	137	10 mm	back	1:1	0.260	1.084	0.282	
2592.99	518598	Mid	NR Band n41	100	20.0	19.64	0.13	0	0897M	DFT-S-OFDM	QPSK	135	0	10 mm	back	1:1	0.298	1.086	0.324	
2592.99	518598	Mid	NR Band n41	100	20.0	19.65	0.03	0	0897M	DFT-S-OFDM	QPSK	1	137	10 mm	front	1:1	0.234	1.084	0.254	
2592.99	518598	Mid	NR Band n41	100	20.0	19.64	0.01	0	0897M	DFT-S-OFDM	QPSK	135	0	10 mm	front	1:1	0.275	1.086	0.299	
2592.99	518598	Mid	NR Band n41	100	20.0	19.65	0.01	0	0897M	DFT-S-OFDM	QPSK	1	137	10 mm	top	1:1	0.089	1.084	0.096	
2592.99	518598	Mid	NR Band n41	100	20.0	19.64	0.02	0	0897M	DFT-S-OFDM	QPSK	135	0	10 mm	top	1:1	0.102	1.086	0.111	
2592.99	518598	Mid	NR Band n41	100	20.0	19.65	0.02	0	0897M	DFT-S-OFDM	QPSK	1	137	10 mm	right	1:1	0.347	1.084	0.376	
2592.99	518598	Mid	NR Band n41	100	20.0	19.64	-0.01	0	0897M	DFT-S-OFDM	QPSK	135	0	10 mm	right	1:1	0.397	1.086	0.431	
2592.99	518598	Mid	NR Band n41	100	20.0	19.57	0.01	0	0897M	CP-OFDM	QPSK	1	1	10 mm	right	1:1	0.443	1.104	0.489	
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 11-72
NR Band n77 DoD Hotspot SAR – Open

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	18.5	17.44	F	0.01	0	0647M	DFT-S-OFDM	QPSK	1	137	10 mm	back	1:1	0.252	1.276	0.322	
3500.01	633334	Mid	NR Band n77	100	18.5	17.43	F	0.01	0	0647M	DFT-S-OFDM	QPSK	135	69	10 mm	back	1:1	0.249	1.279	0.318	
3500.01	633334	Mid	NR Band n77	100	18.5	17.44	F	0.03	0	0647M	DFT-S-OFDM	QPSK	1	137	10 mm	front	1:1	0.184	1.276	0.235	
3500.01	633334	Mid	NR Band n77	100	18.5	17.43	F	0.01	0	0647M	DFT-S-OFDM	QPSK	135	69	10 mm	front	1:1	0.180	1.279	0.230	
3500.01	633334	Mid	NR Band n77	100	18.5	17.44	F	0.01	0	0647M	DFT-S-OFDM	QPSK	1	137	10 mm	top	1:1	0.154	1.276	0.197	
3500.01	633334	Mid	NR Band n77	100	18.5	17.43	F	0.01	0	0647M	DFT-S-OFDM	QPSK	135	69	10 mm	top	1:1	0.152	1.279	0.194	
3500.01	633334	Mid	NR Band n77	100	18.5	17.44	F	0.02	0	0647M	DFT-S-OFDM	QPSK	1	137	10 mm	left	1:1	0.274	1.276	0.350	
3500.01	633334	Mid	NR Band n77	100	18.5	17.43	F	0.02	0	0647M	DFT-S-OFDM	QPSK	135	69	10 mm	left	1:1	0.281	1.279	0.359	
3500.01	633334	Mid	NR Band n77	100	18.5	17.32	F	0.01	0	0647M	CP-OFDM	QPSK	1	1	10 mm	left	1:1	0.282	1.312	0.370	
3500.01	633334	Mid	NR Band n77	100	16.5	15.57	I	0.02	0	0641M	DFT-S-OFDM	QPSK	1	137	10 mm	back	1:1	0.082	1.239	0.102	
3500.01	633334	Mid	NR Band n77	100	16.5	15.59	I	0.02	0	0641M	DFT-S-OFDM	QPSK	135	69	10 mm	back	1:1	0.075	1.233	0.092	
3500.01	633334	Mid	NR Band n77	100	16.5	15.57	I	0.02	0	0641M	DFT-S-OFDM	QPSK	1	137	10 mm	front	1:1	0.059	1.239	0.073	
3500.01	633334	Mid	NR Band n77	100	16.5	15.59	I	0.01	0	0641M	DFT-S-OFDM	QPSK	135	69	10 mm	front	1:1	0.060	1.233	0.074	
3500.01	633334	Mid	NR Band n77	100	16.5	15.57	I	0.02	0	0641M	DFT-S-OFDM	QPSK	1	137	10 mm	top	1:1	0.017	1.239	0.021	
3500.01	633334	Mid	NR Band n77	100	16.5	15.59	I	0.02	0	0641M	DFT-S-OFDM	QPSK	135	69	10 mm	top	1:1	0.014	1.233	0.017	
3500.01	633334	Mid	NR Band n77	100	16.5	15.57	I	0.01	0	0641M	DFT-S-OFDM	QPSK	1	137	10 mm	right	1:1	0.208	1.239	0.258	
3500.01	633334	Mid	NR Band n77	100	16.5	15.59	I	0.02	0	0641M	DFT-S-OFDM	QPSK	135	69	10 mm	right	1:1	0.204	1.233	0.252	
3500.01	633334	Mid	NR Band n77	100	16.5	15.40	I	0.02	0	0641M	CP-OFDM	QPSK	1	1	10 mm	right	1:1	0.232	1.288	0.299	
3500.01	633334	Mid	NR Band n77	100	16.5	15.05	E	0.02	0	0641M	DFT-S-OFDM	QPSK	1	137	10 mm	back	1:1	0.107	1.396	0.149	
3500.01	633334	Mid	NR Band n77	100	16.5	15.06	E	0.02	0	0641M	DFT-S-OFDM	QPSK	135	69	10 mm	back	1:1	0.095	1.393	0.132	
3500.01	633334	Mid	NR Band n77	100	16.5	15.05	E	0.02	0	0641M	DFT-S-OFDM	QPSK	1	137	10 mm	front	1:1	0.091	1.396	0.127	
3500.01	633334	Mid	NR Band n77	100	16.5	15.06	E	0.02	0	0641M	DFT-S-OFDM	QPSK	135	69	10 mm	front	1:1	0.088	1.393	0.123	
3500.01	633334	Mid	NR Band n77	100	16.5	15.05	E	0.02	0	0641M	DFT-S-OFDM	QPSK	1	137	10 mm	top	1:1	0.007	1.396	0.010	
3500.01	633334	Mid	NR Band n77	100	16.5	15.06	E	0.02	0	0641M	DFT-S-OFDM	QPSK	135	69	10 mm	top	1:1	0.010	1.393	0.014	
3500.01	633334	Mid	NR Band n77	100	16.5	15.05	E	0.02	0	0641M	DFT-S-OFDM	QPSK	1	137	10 mm	left	1:1	0.141	1.396	0.197	
3500.01	633334	Mid	NR Band n77	100	16.5	15.06	E	0.02	0	0641M	DFT-S-OFDM	QPSK	135	69	10 mm	left	1:1	0.144	1.393	0.201	
3500.01	633334	Mid	NR Band n77	100	16.5	15.02	E	0.02	0	0641M	CP-OFDM	QPSK	1	1	10 mm	left	1:1	0.141	1.406	0.198	
3500.01	633334	Mid	NR Band n77	100	12.0	11.82	C	0.02	0	0831M	DFT-S-OFDM	QPSK	1	137	10 mm	back	1:1	0.074	1.042	0.077	
3500.01	633334	Mid	NR Band n77	100	12.0	11.78	C	0.03	0	0831M	DFT-S-OFDM	QPSK	135	69	10 mm	back	1:1	0.069	1.052	0.073	
3500.01	633334	Mid	NR Band n77	100	12.0	11.82	C	0.01	0	0831M	DFT-S-OFDM	QPSK	1	137	10 mm	front	1:1	0.053	1.042	0.055	
3500.01	633334	Mid	NR Band n77	100	12.0	11.78	C	0.02	0	0831M	DFT-S-OFDM	QPSK	135	69	10 mm	front	1:1	0.054	1.052	0.057	
3500.01	633334	Mid	NR Band n77	100	12.0	11.82	C	0.03	0	0831M	DFT-S-OFDM	QPSK	1	137	10 mm	bottom	1:1	0.022	1.042	0.023	
3500.01	633334	Mid	NR Band n77	100	12.0	11.78	C	0.02	0	0831M	DFT-S-OFDM	QPSK	135	69	10 mm	bottom	1:1	0.019	1.052	0.020	
3500.01	633334	Mid	NR Band n77	100	12.0	11.82	C	0.03	0	0831M	DFT-S-OFDM	QPSK	1	137	10 mm	left	1:1	0.154	1.042	0.160	
3500.01	633334	Mid	NR Band n77	100	12.0	11.78	C	0.03	0	0831M	DFT-S-OFDM	QPSK	135	69	10 mm	left	1:1	0.152	1.052	0.160	
3500.01	633334	Mid	NR Band n77	100	12.0	11.70	C	0.03	0	0831M	CP-OFDM	QPSK	1	1	10 mm	left	1:1	0.163	1.072	0.175	
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 11-73
NR Band n77 Hotspot SAR – Open

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	18.5	18.50	F	0.02	0	0641M	DFT-S-OFDM	QPSK	1	137	10 mm	back	1:1	0.235	1.000	0.235		
3930.00	662000	High	NR Band n77	100	18.5	18.47	F	0.02	0	0641M	DFT-S-OFDM	QPSK	135	69	10 mm	back	1:1	0.238	1.007	0.240		
3930.00	662000	High	NR Band n77	100	18.5	18.50	F	0.02	0	0641M	DFT-S-OFDM	QPSK	1	137	10 mm	front	1:1	0.166	1.000	0.166		
3930.00	662000	High	NR Band n77	100	18.5	18.47	F	0.02	0	0641M	DFT-S-OFDM	QPSK	135	69	10 mm	front	1:1	0.171	1.007	0.172		
3930.00	662000	High	NR Band n77	100	18.5	18.50	F	0.02	0	0641M	DFT-S-OFDM	QPSK	1	137	10 mm	top	1:1	0.123	1.000	0.123		
3930.00	662000	High	NR Band n77	100	18.5	18.47	F	0.02	0	0641M	DFT-S-OFDM	QPSK	135	69	10 mm	top	1:1	0.123	1.007	0.124		
3930.00	662000	High	NR Band n77	100	18.5	18.50	F	0.02	0	0641M	DFT-S-OFDM	QPSK	1	137	10 mm	left	1:1	0.345	1.000	0.345		
3930.00	662000	High	NR Band n77	100	18.5	18.47	F	0.02	0	0641M	DFT-S-OFDM	QPSK	135	69	10 mm	left	1:1	0.332	1.007	0.334		
3930.00	662000	High	NR Band n77	100	18.5	18.24	F	0.02	0	0641M	CP-OFDM	QPSK	1	1	10 mm	left	1:1	0.359	1.062	0.381		
3750.00	650000	Low	NR Band n77	100	16.5	15.66	I	0.01	0	0641M	DFT-S-OFDM	QPSK	1	1	10 mm	back	1:1	0.079	1.213	0.096		
3750.00	650000	Low	NR Band n77	100	16.5	15.68	I	0.01	0	0641M	DFT-S-OFDM	QPSK	135	0	10 mm	back	1:1	0.079	1.208	0.095		
3750.00	650000	Low	NR Band n77	100	16.5	15.66	I	0.01	0	0641M	DFT-S-OFDM	QPSK	1	1	10 mm	front	1:1	0.067	1.213	0.081		
3750.00	650000	Low	NR Band n77	100	16.5	15.68	I	0.02	0	0641M	DFT-S-OFDM	QPSK	135	0	10 mm	front	1:1	0.063	1.208	0.076		
3750.00	650000	Low	NR Band n77	100	16.5	15.66	I	0.02	0	0641M	DFT-S-OFDM	QPSK	1	1	10 mm	top	1:1	0.006	1.213	0.007		
3750.00	650000	Low	NR Band n77	100	16.5	15.68	I	0.02	0	0641M	DFT-S-OFDM	QPSK	135	0	10 mm	top	1:1	0.009	1.208	0.011		
3750.00	650000	Low	NR Band n77	100	16.5	15.66	I	0.02	0	0641M	DFT-S-OFDM	QPSK	1	1	10 mm	right	1:1	0.100	1.213	0.121		
3750.00	650000	Low	NR Band n77	100	16.5	15.68	I	0.02	0	0641M	DFT-S-OFDM	QPSK	135	0	10 mm	right	1:1	0.094	1.208	0.114		
3750.00	650000	Low	NR Band n77	100	16.5	15.61	I	0.02	0	0641M	CP-OFDM	QPSK	1	1	10 mm	right	1:1	0.102	1.227	0.125		
3930.00	662000	High	NR Band n77	100	16.5	16.15	E	0.02	0	0641M	DFT-S-OFDM	QPSK	1	137	10 mm	back	1:1	0.160	1.084	0.173		
3930.00	662000	High	NR Band n77	100	16.5	16.10	E	0.02	0	0641M	DFT-S-OFDM	QPSK	135	0	10 mm	back	1:1	0.154	1.096	0.169		
3930.00	662000	High	NR Band n77	100	16.5	16.15	E	0.02	0	0641M	DFT-S-OFDM	QPSK	1	137	10 mm	front	1:1	0.121	1.084	0.131		
3930.00	662000	High	NR Band n77	100	16.5	16.10	E	0.02	0	0641M	DFT-S-OFDM	QPSK	135	0	10 mm	front	1:1	0.123	1.096	0.135		
3930.00	662000	High	NR Band n77	100	16.5	16.15	E	0.02	0	0641M	DFT-S-OFDM	QPSK	1	137	10 mm	top	1:1	0.006	1.084	0.007		
3930.00	662000	High	NR Band n77	100	16.5	16.10	E	0.01	0	0641M	DFT-S-OFDM	QPSK	135	0	10 mm	top	1:1	0.007	1.096	0.008		
3930.00	662000	High	NR Band n77	100	16.5	16.15	E	0.02	0	0641M	DFT-S-OFDM	QPSK	1	137	10 mm	left	1:1	0.270	1.084	0.293		
3930.00	662000	High	NR Band n77	100	16.5	16.10	E	0.02	0	0641M	DFT-S-OFDM	QPSK	135	0	10 mm	left	1:1	0.269	1.096	0.295		
3930.00	662000	High	NR Band n77	100	16.5	15.90	E	0.02	0	0641M	CP-OFDM	QPSK	1	1	10 mm	left	1:1	0.259	1.148	0.297		
3930.00	662000	High	NR Band n77	100	12.0	11.74	C	0.02	0	0641M	DFT-S-OFDM	QPSK	1	137	10 mm	back	1:1	0.048	1.062	0.051		
3930.00	662000	High	NR Band n77	100	12.0	11.66	C	0.02	0	0641M	DFT-S-OFDM	QPSK	135	0	10 mm	back	1:1	0.045	1.081	0.049		
3930.00	662000	High	NR Band n77	100	12.0	11.74	C	0.02	0	0641M	DFT-S-OFDM	QPSK	1	137	10 mm	front	1:1	0.033	1.062	0.035		
3930.00	662000	High	NR Band n77	100	12.0	11.66	C	0.02	0	0641M	DFT-S-OFDM	QPSK	135	0	10 mm	front	1:1	0.036	1.081	0.039		
3930.00	662000	High	NR Band n77	100	12.0	11.74	C	0.02	0	0641M	DFT-S-OFDM	QPSK	1	137	10 mm	bottom	1:1	0.005	1.062	0.005		
3930.00	662000	High	NR Band n77	100	12.0	11.66	C	0.02	0	0641M	DFT-S-OFDM	QPSK	135	0	10 mm	bottom	1:1	0.010	1.081	0.011		
3930.00	662000	High	NR Band n77	100	12.0	11.74	C	0.02	0	0641M	DFT-S-OFDM	QPSK	1	137	10 mm	left	1:1	0.093	1.062	0.099		
3930.00	662000	High	NR Band n77	100	12.0	11.66	C	0.02	0	0641M	DFT-S-OFDM	QPSK	135	0	10 mm	left	1:1	0.096	1.081	0.104		
3930.00	662000	High	NR Band n77	100	12.0	11.63	C	0.02	0	0641M	CP-OFDM	QPSK	1	1	10 mm	left	1:1	0.098	1.089	0.107		
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 11-74
WLAN SISO Hotspot SAR - Open

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Service	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Chipset Variant	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	18.95	0.01	10 mm	2	Q	1599S	1	back	99.9	0.130	-	1.012	1.001	-		
2462	11	802.11b	DSSS	22	19.0	18.95	0.01	10 mm	2	Q	1599S	1	front	99.9	0.142	-	1.012	1.001	-		
2462	11	802.11b	DSSS	22	19.0	18.95	0.01	10 mm	2	Q	1599S	1	top	99.9	0.084	-	1.012	1.001	-		
2462	11	802.11b	DSSS	22	19.0	18.95	0.01	10 mm	2	Q	1599S	1	left	99.9	0.143	0.126	1.012	1.001	0.128		
2437	6	802.11b	DSSS	22	19.0	18.85	0.01	10 mm	2	N	0115S	1	back	99.9	0.147	-	1.035	1.001	-		
2437	6	802.11b	DSSS	22	19.0	18.85	0.01	10 mm	2	N	0115S	1	front	99.9	0.122	-	1.035	1.001	-		
2437	6	802.11b	DSSS	22	19.0	18.85	0.01	10 mm	2	N	0115S	1	top	99.9	0.106	-	1.035	1.001	-		
2437	6	802.11b	DSSS	22	19.0	18.85	0.01	10 mm	2	N	0115S	1	left	99.9	0.195	0.121	1.035	1.001	0.125		
5785	157	802.11a	OFDM	20	18.0	17.84	0.00	10 mm	1	Q	1598S	6	back	98.9	0.307	0.220	1.038	1.011	0.231		
5785	157	802.11a	OFDM	20	18.0	17.84	0.00	10 mm	1	Q	1598S	6	front	98.9	0.201	-	1.038	1.011	-		
5785	157	802.11a	OFDM	20	18.0	17.84	0.00	10 mm	1	Q	1598S	6	top	98.9	0.107	-	1.038	1.011	-		
5785	157	802.11a	OFDM	20	18.0	17.84	0.00	10 mm	1	Q	1598S	6	right	98.9	0.075	-	1.038	1.011	-		
5825	165	802.11a	OFDM	20	18.0	17.96	0.02	10 mm	1	N	0677M	6	back	98.9	0.054	-	1.009	1.011	-		
5825	165	802.11a	OFDM	20	18.0	17.96	0.01	10 mm	1	N	0677M	6	front	98.9	0.057	-	1.009	1.011	-		
5825	165	802.11a	OFDM	20	18.0	17.96	0.02	10 mm	1	N	0677M	6	top	98.9	0.115	0.088	1.009	1.011	0.090		
5825	165	802.11a	OFDM	20	18.0	17.96	0.01	10 mm	1	N	0677M	6	right	98.9	0.029	-	1.009	1.011	-		
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 11-75
WLAN SISO Hotspot SAR for Conditions with 2.4 GHz and 5 GHz WLAN SAR and/or with 5G NR- Open

MEASUREMENT RESULTS																				
FREQUENCY		Mode	Service	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Chipset Variant	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)	
2437	6	802.11b	DSSS	22	15.0	14.99	0.02	10 mm	2	Q	1598S	1	back	99.9	0.073	0.058	1.002	1.001	0.058	
2437	6	802.11b	DSSS	22	15.0	14.99	0.01	10 mm	2	Q	1598S	1	front	99.9	0.093	0.069	1.002	1.001	0.069	
2437	6	802.11b	DSSS	22	15.0	14.99	0.02	10 mm	2	Q	1598S	1	top	99.9	0.117	0.086	1.002	1.001	0.086	
2437	6	802.11b	DSSS	22	15.0	14.99	0.01	10 mm	2	Q	1598S	1	left	99.9	0.095	0.074	1.002	1.001	0.074	
2412	1	802.11b	DSSS	22	15.0	14.99	0.01	10 mm	2	N	0115S	1	back	99.9	0.061	0.053	1.002	1.001	0.053	
2412	1	802.11b	DSSS	22	15.0	14.99	0.02	10 mm	2	N	0115S	1	front	99.9	0.048	0.043	1.002	1.001	0.043	
2412	1	802.11b	DSSS	22	15.0	14.99	0.02	10 mm	2	N	0115S	1	top	99.9	0.052	0.039	1.002	1.001	0.039	
2412	1	802.11b	DSSS	22	15.0	14.99	0.02	10 mm	2	N	0115S	1	left	99.9	0.080	0.060	1.002	1.001	0.060	
5775	155	802.11ac	OFDM	80	15.0	14.55	0.01	10 mm	1	Q	1600S	29.3	back	99.7	0.000	0.000	1.109	1.003	0.000	
5775	155	802.11ac	OFDM	80	15.0	14.55	0.02	10 mm	1	Q	1600S	29.3	front	99.7	0.000	0.000	1.109	1.003	0.000	
5775	155	802.11ac	OFDM	80	15.0	14.55	0.00	10 mm	1	Q	1600S	29.3	top	99.7	0.037	0.017	1.109	1.003	0.019	
5775	155	802.11ac	OFDM	80	15.0	14.55	0.02	10 mm	1	Q	1600S	29.3	right	99.7	0.004	0.000	1.109	1.003	0.000	
5775	155	802.11ac	OFDM	80	15.0	14.57	0.00	10 mm	1	N	0677M	29.3	back	99.7	0.013	0.000	1.104	1.003	0.000	
5775	155	802.11ac	OFDM	80	15.0	14.57	0.00	10 mm	1	N	0677M	29.3	front	99.7	0.008	0.000	1.104	1.003	0.000	
5775	155	802.11ac	OFDM	80	15.0	14.57	0.01	10 mm	1	N	0677M	29.3	top	99.7	0.044	0.020	1.104	1.003	0.022	
5775	155	802.11ac	OFDM	80	15.0	14.57	0.01	10 mm	1	N	0677M	29.3	right	99.7	0.005	0.002	1.104	1.003	0.002	
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: 2.4 GHZ WLAN and 5GHz WLAN SISO were additionally evaluated at the maximum allowed output power during operations with Simultaneous 2.4 GHz WLAN and 5 GHz WLAN and/or 5G NR active. 5GHz WLAN and/or 5G NR were not transmitting during 2.4GHz WLAN evaluations and 2.4GHz WLAN and/or 5G NR were not transmitting during 5GHz WLAN evaluations

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Table 11-76
WLAN MIMO Hotspot SAR - Open

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.	Chipset Variant	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	18.96	19.0	18.95	0.00	10 mm	MIMO	Q	1598S	1	back	99.9	0.411	0.335	1.012	1.001	0.339	
2462	11	802.11b	DSSS	22	19.0	18.96	19.0	18.95	0.01	10 mm	MIMO	Q	1598S	1	front	99.9	0.397	-	1.012	1.001	-	
2462	11	802.11b	DSSS	22	19.0	18.96	19.0	18.95	0.00	10 mm	MIMO	Q	1598S	1	top	99.9	0.245	-	1.012	1.001	-	
2462	11	802.11b	DSSS	22	19.0	18.96	19.0	18.95	0.00	10 mm	MIMO	Q	1598S	1	right	99.9	0.123	0.102	1.012	1.001	0.103	
2462	11	802.11b	DSSS	22	19.0	18.96	19.0	18.95	0.01	10 mm	MIMO	Q	1598S	1	left	99.9	0.323	-	1.012	1.001	-	
2437	6	802.11b	DSSS	22	19.0	18.66	19.0	18.97	0.00	10 mm	MIMO	N	0115S	1	back	99.9	0.617	0.505	1.081	1.001	0.546	
2437	6	802.11b	DSSS	22	19.0	18.66	19.0	18.97	0.00	10 mm	MIMO	N	0115S	1	Front	99.9	0.512	0.406	1.081	1.001	0.439	
2437	6	802.11b	DSSS	22	19.0	18.66	19.0	18.97	0.00	10 mm	MIMO	N	0115S	1	top	99.9	0.452	-	1.081	1.001	-	
2437	6	802.11b	DSSS	22	19.0	18.66	19.0	18.97	0.00	10 mm	MIMO	N	0115S	1	right	99.9	0.180	0.136	1.081	1.001	0.147	
2437	6	802.11b	DSSS	22	19.0	18.66	19.0	18.97	0.00	10 mm	MIMO	N	0115S	1	left	99.9	0.503	-	1.081	1.001	-	
5785	157	802.11n	OFDM	20	18.0	17.67	18.0	17.92	0.02	10 mm	MIMO	Q	1598S	13	back	99.7	0.289	0.208	1.079	1.003	0.225	
5785	157	802.11n	OFDM	20	18.0	17.67	18.0	17.92	0.01	10 mm	MIMO	Q	1598S	13	front	99.7	0.168	-	1.079	1.003	-	
5785	157	802.11n	OFDM	20	18.0	17.67	18.0	17.92	0.02	10 mm	MIMO	Q	1598S	13	top	99.7	0.157	-	1.079	1.003	-	
5785	157	802.11n	OFDM	20	18.0	17.67	18.0	17.92	0.01	10 mm	MIMO	Q	1598S	13	right	99.7	0.072	-	1.079	1.003	-	
5785	157	802.11n	OFDM	20	18.0	17.67	18.0	17.92	0.01	10 mm	MIMO	Q	1598S	13	left	99.7	0.179	-	1.079	1.003	-	
5745	149	802.11n	OFDM	20	18.0	17.98	18.0	17.73	0.02	10 mm	MIMO	N	0677M	13	back	99.8	0.224	-	1.064	1.002	-	
5745	149	802.11n	OFDM	20	18.0	17.98	18.0	17.73	0.02	10 mm	MIMO	N	0677M	13	front	99.8	0.204	-	1.064	1.002	-	
5745	149	802.11n	OFDM	20	18.0	17.98	18.0	17.73	0.01	10 mm	MIMO	N	0677M	13	top	99.8	0.431	0.271	1.064	1.002	0.289	
5745	149	802.11n	OFDM	20	18.0	17.98	18.0	17.73	0.02	10 mm	MIMO	N	0677M	13	right	99.8	0.039	-	1.064	1.002	-	
5745	149	802.11n	OFDM	20	18.0	17.98	18.0	17.73	0.02	10 mm	MIMO	N	0677M	13	left	99.8	0.185	-	1.064	1.002	-	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT										Body												
Spatial Peak										1.6 W/kg (mW/g)												
Uncontrolled Exposure/General Population										averaged over 1 gram												

Note: To achieve the 22.0 dBm maximum allowed MIMO power shown in the documentation, for channel 11 and 6, each antenna transmits at a maximum allowed power of 19.0 dBm. To achieve the 21.0 dBm maximum allowed MIMO power shown in the documentation, for channel 157 and 149, each antenna transmits at a maximum allowed power of 18.0 dBm.

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Table 11-77

WLAN MIMO Hotspot SAR for Conditions with 2.4 GHz and 5 GHz WLAN SAR and/or with 5G NR - Open

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.	Chipset Variant	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)				
2437	6	802.11n	OFDM	20	15.0	14.75	15.0	14.92	0.01	10 mm	MIMO	Q	2044M	13	back	99.7	0.078	0.066	1.059	1.003	0.070	
2437	6	802.11n	OFDM	20	15.0	14.75	15.0	14.92	0.02	10 mm	MIMO	Q	2044M	13	front	99.7	0.071	0.058	1.059	1.003	0.062	
2437	6	802.11n	OFDM	20	15.0	14.75	15.0	14.92	0.02	10 mm	MIMO	Q	2044M	13	top	99.7	0.064	0.063	1.059	1.003	0.067	
2437	6	802.11n	OFDM	20	15.0	14.75	15.0	14.92	0.01	10 mm	MIMO	Q	2044M	13	right	99.7	0.018	0.015	1.059	1.003	0.016	
2437	6	802.11n	OFDM	20	15.0	14.75	15.0	14.92	0.02	10 mm	MIMO	Q	2044M	13	left	99.7	0.076	0.069	1.059	1.003	0.073	
2437	6	802.11n	OFDM	20	15.0	14.73	15.0	14.89	0.01	10 mm	MIMO	N	0115S	13	back	99.7	0.098	0.083	1.064	1.003	0.089	
2437	6	802.11n	OFDM	20	15.0	14.73	15.0	14.89	0.02	10 mm	MIMO	N	0115S	13	front	99.7	0.094	0.074	1.064	1.003	0.079	
2437	6	802.11n	OFDM	20	15.0	14.73	15.0	14.89	0.02	10 mm	MIMO	N	0115S	13	top	99.7	0.059	0.051	1.064	1.003	0.054	
2437	6	802.11n	OFDM	20	15.0	14.73	15.0	14.89	0.02	10 mm	MIMO	N	0115S	13	right	99.7	0.028	0.022	1.064	1.003	0.023	
2437	6	802.11n	OFDM	20	15.0	14.73	15.0	14.89	0.02	10 mm	MIMO	N	0115S	13	left	99.7	0.075	0.074	1.064	1.003	0.079	
5775	155	802.11ac	OFDM	80	15.0	14.01	15.0	14.73	0.00	10 mm	MIMO	Q	1600S	58.5	back	99.7	0.057	0.039	1.256	1.003	0.049	
5775	155	802.11ac	OFDM	80	15.0	14.01	15.0	14.73	0.00	10 mm	MIMO	Q	1600S	58.5	front	99.7	0.057	0.023	1.256	1.003	0.029	
5775	155	802.11ac	OFDM	80	15.0	14.01	15.0	14.73	0.02	10 mm	MIMO	Q	1600S	58.5	top	99.7	0.043	0.013	1.256	1.003	0.016	
5775	155	802.11ac	OFDM	80	15.0	14.01	15.0	14.73	0.03	10 mm	MIMO	Q	1600S	58.5	right	99.7	0.002	0.000	1.256	1.003	0.000	
5775	155	802.11ac	OFDM	80	15.0	14.01	15.0	14.73	0.01	10 mm	MIMO	Q	1600S	58.5	left	99.7	0.063	0.036	1.256	1.003	0.045	
5775	155	802.11ac	OFDM	80	15.0	14.59	15.0	14.76	0.02	10 mm	MIMO	N	0677M	58.5	back	99.7	0.103	0.061	1.099	1.003	0.067	
5775	155	802.11ac	OFDM	80	15.0	14.59	15.0	14.76	0.01	10 mm	MIMO	N	0677M	58.5	front	99.7	0.095	0.062	1.099	1.003	0.068	
5775	155	802.11ac	OFDM	80	15.0	14.59	15.0	14.76	0.00	10 mm	MIMO	N	0677M	58.5	top	99.7	0.083	0.050	1.099	1.003	0.055	
5775	155	802.11ac	OFDM	80	15.0	14.59	15.0	14.76	0.01	10 mm	MIMO	N	0677M	58.5	right	99.7	0.029	0.006	1.099	1.003	0.007	
5775	155	802.11ac	OFDM	80	15.0	14.59	15.0	14.76	0.02	10 mm	MIMO	N	0677M	58.5	left	99.7	0.111	0.071	1.099	1.003	0.078	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT										Body												
Spatial Peak										1.6 W/kg (mW/g)												
Uncontrolled Exposure/General Population										averaged over 1 gram												

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

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Table 11-78
DSS Hotspot SAR - Open

MEASUREMENT RESULTS																		
FREQUENCY		Mode	Service	Maximum Allowed Power	Conducted Power	Power Drift [dB]	Spacing	Antenna Config.	Chipset Variant	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	16.0	15.43	0.02	10 mm	1	Q	2044M	1	back	76.80	0.103	1.140	1.302	0.153	
2441	39	Bluetooth	FHSS	16.0	15.43	0.01	10 mm	1	Q	2044M	1	front	76.80	0.068	1.140	1.302	0.101	
2441	39	Bluetooth	FHSS	16.0	15.43	0.02	10 mm	1	Q	2044M	1	top	76.80	0.044	1.140	1.302	0.065	
2441	39	Bluetooth	FHSS	16.0	15.43	0.02	10 mm	1	Q	2044M	1	right	76.80	0.022	1.140	1.302	0.033	
2441	39	Bluetooth	FHSS	17.0	16.61	0.01	10 mm	2	Q	2044M	1	back	76.80	0.050	1.094	1.302	0.071	
2441	39	Bluetooth	FHSS	17.0	16.61	0.02	10 mm	2	Q	2044M	1	front	76.80	0.067	1.094	1.302	0.095	
2441	39	Bluetooth	FHSS	17.0	16.61	0.03	10 mm	2	Q	2044M	1	top	76.80	0.045	1.094	1.302	0.064	
2441	39	Bluetooth	FHSS	17.0	16.61	0.01	10 mm	2	Q	2044M	1	left	76.80	0.058	1.094	1.302	0.083	
2441	39	Bluetooth	FHSS	16.0	15.55	0.01	10 mm	1	N	0694M	1	back	76.80	0.069	1.109	1.302	0.100	
2441	39	Bluetooth	FHSS	16.0	15.55	0.02	10 mm	1	N	0694M	1	front	76.80	0.045	1.109	1.302	0.065	
2441	39	Bluetooth	FHSS	16.0	15.55	0.01	10 mm	1	N	0694M	1	top	76.80	0.030	1.109	1.302	0.043	
2441	39	Bluetooth	FHSS	16.0	15.55	0.01	10 mm	1	N	0694M	1	right	76.80	0.015	1.109	1.302	0.022	
2480	78	Bluetooth	FHSS	17.0	16.60	0.01	10 mm	2	N	0694M	1	back	76.80	0.093	1.096	1.302	0.133	
2480	78	Bluetooth	FHSS	17.0	16.60	0.01	10 mm	2	N	0694M	1	front	76.80	0.110	1.096	1.302	0.157	
2480	78	Bluetooth	FHSS	17.0	16.60	0.01	10 mm	2	N	0694M	1	top	76.80	0.069	1.096	1.302	0.098	
2480	78	Bluetooth	FHSS	17.0	16.60	0.02	10 mm	2	N	0694M	1	left	76.80	0.116	1.096	1.302	0.166	
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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11.4 Standalone Open Phablet SAR Data

Table 11-79
GPRS/UMTS/CDMA Phablet SAR Data - Open

MEASUREMENT RESULTS																
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Tune State	Power Drift [dB]	Spacing	Device Serial Number	# of Time Slots	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	23.34	25	-0.03	8 mm	0765M	N/A	1:1	back	0.864	1.164	1.006	A94
1851.25	25	PCS CDMA	EVDO Rev. 0	24.0	23.34	24	0.11	6 mm	0765M	N/A	1:1	front	1.090	1.164	1.269	
1851.25	25	PCS CDMA	EVDO Rev. 0	24.0	23.34	25	-0.02	11 mm	0765M	N/A	1:1	bottom	0.858	1.164	0.999	
1851.25	25	PCS CDMA	EVDO Rev. 0	24.0	23.34	20	0.16	0 mm	0765M	N/A	1:1	right	0.334	1.164	0.389	
1851.25	25	PCS CDMA	EVDO Rev. 0	24.0	23.34	23	0.06	0 mm	0765M	N/A	1:1	left	0.329	1.164	0.383	
1908.75	1175	PCS CDMA	EVDO Rev. 0	22.0	21.12	20	0.06	0 mm	0765M	N/A	1:1	back	0.540	1.225	0.662	
1908.75	1175	PCS CDMA	EVDO Rev. 0	22.0	21.12	46	0.01	0 mm	0765M	N/A	1:1	front	0.330	1.225	0.404	
1908.75	1175	PCS CDMA	EVDO Rev. 0	22.0	21.12	46	0.10	0 mm	0765M	N/A	1:1	bottom	0.763	1.225	0.935	
1850.20	512	GSM 1900	GPRS	26.5	25.36	N/A	-0.06	8 mm	0765M	3	1:2.76	back	0.531	1.300	0.690	
1850.20	512	GSM 1900	GPRS	26.5	25.36	N/A	0.07	6 mm	0765M	3	1:2.76	front	0.651	1.300	0.846	
1850.20	512	GSM 1900	GPRS	26.5	25.36	N/A	0.00	11 mm	0765M	3	1:2.76	bottom	0.546	1.300	0.710	
1850.20	512	GSM 1900	GPRS	26.5	25.36	N/A	0.02	0 mm	0765M	3	1:2.76	right	0.214	1.300	0.278	
1850.20	512	GSM 1900	GPRS	26.5	25.36	N/A	0.00	0 mm	0765M	3	1:2.76	left	0.207	1.300	0.269	
1850.20	512	GSM 1900	GPRS	23.0	22.31	N/A	-0.14	0 mm	0760M	4	1:2.076	back	1.480	1.172	1.735	
1880.00	661	GSM 1900	GPRS	23.0	22.00	N/A	-0.03	0 mm	0760M	4	1:2.076	back	1.520	1.259	1.914	
1909.80	810	GSM 1900	GPRS	23.0	22.34	N/A	-0.03	0 mm	0760M	4	1:2.076	back	1.300	1.164	1.513	A95
1909.80	810	GSM 1900	GPRS	23.0	22.34	N/A	-0.03	0 mm	0760M	4	1:2.076	front	0.848	1.164	0.987	
1909.80	810	GSM 1900	GPRS	23.0	22.34	N/A	-0.02	0 mm	0760M	4	1:2.076	bottom	0.760	1.164	0.885	
1732.40	1412	UMTS 1750	RMC	24.0	23.70	0	0.09	8 mm	0765M	N/A	1:1	back	1.010	1.072	1.083	
1732.40	1412	UMTS 1750	RMC	24.0	23.70	0	-0.01	6 mm	0765M	N/A	1:1	front	0.318	1.072	0.341	
1732.40	1412	UMTS 1750	RMC	24.0	23.70	52	-0.09	11 mm	0765M	N/A	1:1	bottom	0.505	1.072	0.541	
1732.40	1412	UMTS 1750	RMC	24.0	23.70	0	0.05	0 mm	0765M	N/A	1:1	right	0.229	1.072	0.245	
1732.40	1412	UMTS 1750	RMC	24.0	23.70	52	-0.06	0 mm	0765M	N/A	1:1	left	0.275	1.072	0.295	
1712.40	1312	UMTS 1750	RMC	21.0	20.03	18	0.08	0 mm	0765M	N/A	1:1	back	1.590	1.250	1.988	
1732.40	1412	UMTS 1750	RMC	21.0	20.00	18	0.08	0 mm	0765M	N/A	1:1	back	1.710	1.259	2.153	
1752.60	1513	UMTS 1750	RMC	21.0	19.87	18	0.10	0 mm	0765M	N/A	1:1	back	1.860	1.297	2.412	A96
1712.40	1312	UMTS 1750	RMC	21.0	20.03	18	0.09	0 mm	0765M	N/A	1:1	front	1.080	1.250	1.350	
1712.40	1312	UMTS 1750	RMC	21.0	20.03	7	-0.05	0 mm	0765M	N/A	1:1	bottom	1.790	1.250	2.238	
1732.40	1412	UMTS 1750	RMC	21.0	20.00	0	-0.08	0 mm	0765M	N/A	1:1	bottom	1.740	1.259	2.191	
1752.60	1513	UMTS 1750	RMC	21.0	19.87	0	-0.06	0 mm	0765M	N/A	1:1	bottom	1.530	1.297	1.984	
1880.00	9400	UMTS 1900	RMC	24.0	23.82	52	0.08	8 mm	0765M	N/A	1:1	back	0.970	1.042	1.011	
1880.00	9400	UMTS 1900	RMC	24.0	23.82	7	0.04	6 mm	0765M	N/A	1:1	front	0.837	1.042	0.872	
1880.00	9400	UMTS 1900	RMC	24.0	23.82	23	0.01	11 mm	0765M	N/A	1:1	bottom	0.905	1.042	0.943	
1880.00	9400	UMTS 1900	RMC	24.0	23.82	5	-0.08	0 mm	0765M	N/A	1:1	right	0.254	1.042	0.265	
1880.00	9400	UMTS 1900	RMC	24.0	23.82	8	-0.08	0 mm	0765M	N/A	1:1	left	0.372	1.042	0.388	
1852.40	9262	UMTS 1900	RMC	22.0	21.38	14	0.06	0 mm	0765M	N/A	1:1	back	2.540	1.153	2.929	A97
1880.00	9400	UMTS 1900	RMC	22.0	21.42	21	0.11	0 mm	0765M	N/A	1:1	back	2.470	1.143	2.823	
1907.60	9538	UMTS 1900	RMC	22.0	21.40	108	0.08	0 mm	0765M	N/A	1:1	back	2.500	1.148	2.870	
1880.00	9400	UMTS 1900	RMC	22.0	21.42	8	0.02	0 mm	0765M	N/A	1:1	front	1.560	1.143	1.783	
1852.40	9262	UMTS 1900	RMC	22.0	21.38	9	-0.01	0 mm	0765M	N/A	1:1	bottom	1.600	1.153	1.845	
1880.00	9400	UMTS 1900	RMC	22.0	21.42	7	0.04	0 mm	0765M	N/A	1:1	bottom	1.860	1.143	2.126	
1907.60	9538	UMTS 1900	RMC	22.0	21.40	63	0.08	0 mm	0765M	N/A	1:1	bottom	1.790	1.148	2.055	
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 11-80
LTE Band 66 Phablet SAR – Open

MEASUREMENT RESULTS																				
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Tune State	Power Drift [dB]	MPR [dB]	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)			
1770.00	132572	High	LTE Band 66 (AWS)	20	25.0	23.91	17	-0.08	0	1916M	QPSK	1	99	8 mm	back	1:1	1.060	1.285	1.362	
1770.00	132572	High	LTE Band 66 (AWS)	20	24.0	23.04	59	0.07	1	1916M	QPSK	50	25	8 mm	back	1:1	0.803	1.247	1.001	
1770.00	132572	High	LTE Band 66 (AWS)	20	25.0	23.91	60	0.00	0	1916M	QPSK	1	99	6 mm	front	1:1	0.713	1.285	0.916	
1770.00	132572	High	LTE Band 66 (AWS)	20	24.0	23.04	59	0.01	1	1916M	QPSK	50	25	6 mm	front	1:1	0.637	1.247	0.794	
1770.00	132572	High	LTE Band 66 (AWS)	20	25.0	23.91	116	0.01	0	1916M	QPSK	1	99	11 mm	bottom	1:1	0.747	1.285	0.960	
1770.00	132572	High	LTE Band 66 (AWS)	20	24.0	23.04	116	-0.03	1	1916M	QPSK	50	25	11 mm	bottom	1:1	0.688	1.247	0.858	
1770.00	132572	High	LTE Band 66 (AWS)	20	25.0	23.91	59	-0.09	0	1916M	QPSK	1	99	0 mm	right	1:1	0.302	1.285	0.388	
1770.00	132572	High	LTE Band 66 (AWS)	20	24.0	23.04	59	-0.09	1	1916M	QPSK	50	25	0 mm	right	1:1	0.262	1.247	0.327	
1770.00	132572	High	LTE Band 66 (AWS)	20	25.0	23.91	58	-0.09	0	1916M	QPSK	1	99	0 mm	left	1:1	0.307	1.285	0.394	
1770.00	132572	High	LTE Band 66 (AWS)	20	24.0	23.04	58	-0.06	1	1916M	QPSK	50	25	0 mm	left	1:1	0.284	1.247	0.354	
1720.00	132072	Low	LTE Band 66 (AWS)	20	21.4	20.77	5	0.00	0	1916M	QPSK	1	50	0 mm	back	1:1	2.540	1.156	2.936	
1720.00	132072	Low	LTE Band 66 (AWS)	20	21.4	20.75	5	0.07	0	1916M	QPSK	1	99	0 mm	back	1:1	2.580	1.161	2.995	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	21.4	21.01	5	0.04	0	1916M	QPSK	1	50	0 mm	back	1:1	2.730	1.094	2.987	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	21.4	20.84	5	-0.03	0	1916M	QPSK	1	99	0 mm	back	1:1	2.730	1.138	3.107	
1770.00	132572	High	LTE Band 66 (AWS)	20	21.4	21.04	14	0.06	0	1916M	QPSK	1	0	0 mm	back	1:1	2.440	1.086	2.650	
1770.00	132572	High	LTE Band 66 (AWS)	20	21.4	21.11	14	0.05	0	1916M	QPSK	1	99	0 mm	back	1:1	2.360	1.069	2.523	
1720.00	132072	Low	LTE Band 66 (AWS)	20	21.4	21.08	7	0.00	0	1916M	QPSK	50	25	0 mm	back	1:1	2.590	1.076	2.787	
1745.00	132322	Mid	LTE Band 66 (AWS)	20	21.4	21.16	7	0.03	0	1916M	QPSK	50	50	0 mm	back	1:1	2.750	1.057	2.907	
1770.00	132572	High	LTE Band 66 (AWS)	20	21.4	21.25	116	0.04	0	1916M	QPSK	50	25	0 mm	back	1:1	2.410	1.035	2.494	
1770.00	132572	High	LTE Band 66 (AWS)	20	21.4	21.10	116	0.05	0	1916M	QPSK	100	0	0 mm	back	1:1	2.380	1.072	2.551	
1715.00	132022	Low	LTE Band 66 (AWS)	10	21.4	20.56	5	0.01	0	1916M	QPSK	1	49	0 mm	back	1:1	2.570	1.213	3.117	
1745.00	132322	Mid	LTE Band 66 (AWS)	10	21.4	20.77	5	-0.05	0	1916M	QPSK	1	49	0 mm	back	1:1	2.720	1.156	3.144	
1775.00	132622	High	LTE Band 66 (AWS)	10	21.4	20.61	14	0.07	0	1916M	QPSK	1	0	0 mm	back	1:1	2.350	1.199	2.818	
1720.00	132072	Low	LTE Band 66 (AWS)	20	21.4	20.84	5	-0.05	0	1916M	QPSK	1	99	0 mm	back	1:1	2.650	1.138	3.016	
1739.80	132270												0							
1745.00	132322	Mid	LTE Band 66 (AWS)	20	21.4	20.97	5	0.01	0	1916M	QPSK	1	99	0 mm	back	1:1	2.850	1.104	3.146	
1764.80	132520												0							
1770.00	132572	High	LTE Band 66 (AWS)	20	21.4	20.80	14	0.06	0	1916M	QPSK	1	0	0 mm	back	1:1	2.420	1.148	2.778	
1750.20	132374												99							
1715.00	132022	Low	LTE Band 66 (AWS)	10	21.4	20.73	5	0.01	0	1916M	QPSK	1	49	0 mm	back	1:1	2.690	1.167	3.139	
1724.90	132121												0							
1745.00	132322	Mid	LTE Band 66 (AWS)	10	21.4	21.08	5	0.06	0	1916M	QPSK	1	49	0 mm	back	1:1	2.920	1.076	3.142	A98
1754.90	132421												0							
1775.00	132622	High	LTE Band 66 (AWS)	10	21.4	20.83	14	0.06	0	1916M	QPSK	1	0	0 mm	back	1:1	2.500	1.140	2.850	
1765.10	132523												49							
1770.00	132572	High	LTE Band 66 (AWS)	20	21.4	21.11	59	0.01	0	1916M	QPSK	1	99	0 mm	front	1:1	1.690	1.069	1.807	
1770.00	132572	High	LTE Band 66 (AWS)	20	21.4	21.25	59	0.02	0	1916M	QPSK	50	25	0 mm	front	1:1	1.750	1.035	1.811	
1770.00	132572	High	LTE Band 66 (AWS)	20	21.4	21.11	59	-0.09	0	1916M	QPSK	1	99	0 mm	bottom	1:1	1.660	1.069	1.775	
1770.00	132572	High	LTE Band 66 (AWS)	20	21.4	21.25	59	0.03	0	1916M	QPSK	50	25	0 mm	bottom	1:1	1.800	1.035	1.863	
1745.00	132322	Mid	LTE Band 66 (AWS)	10	21.4	21.08	5	0.06	0	1916M	QPSK	1	49	0 mm	back	1:1	2.870	1.076	3.088	
1754.90	132421												0							
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population									Phablet 4.0 W/kg (mW/g) averaged over 10 grams											

Note: Blue Entry represents variability measurement.

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Table 11-81
LTE Band 25 Phablet SAR - Open

MEASUREMENT RESULTS																				
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Tune State	Power Drift [dB]	MPR [dB]	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)			
1882.50	26365	Mid	LTE Band 25 (PCS)	20	25.0	24.37	0	-0.02	0	0748M	QPSK	1	0	8 mm	back	1:1	1.490	1.156	1.722	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	24.0	23.40	0	0.04	1	0748M	QPSK	50	25	8 mm	back	1:1	1.090	1.148	1.251	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	25.0	24.37	2	0.05	0	0748M	QPSK	1	0	6 mm	front	1:1	1.400	1.156	1.618	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	24.0	23.40	2	-0.04	1	0748M	QPSK	50	25	6 mm	front	1:1	1.050	1.148	1.205	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	25.0	24.37	0	-0.03	0	0748M	QPSK	1	0	11 mm	bottom	1:1	1.330	1.156	1.537	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	24.0	23.40	0	0.01	1	0748M	QPSK	50	25	11 mm	bottom	1:1	1.060	1.148	1.217	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	25.0	24.37	15	0.12	0	0748M	QPSK	1	0	0 mm	right	1:1	0.497	1.156	0.575	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	24.0	23.40	15	0.05	1	0748M	QPSK	50	25	0 mm	right	1:1	0.387	1.148	0.444	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	25.0	24.37	13	-0.02	0	0748M	QPSK	1	0	0 mm	left	1:1	0.446	1.156	0.516	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	24.0	23.40	13	0.01	1	0748M	QPSK	50	25	0 mm	left	1:1	0.309	1.148	0.355	
1860.00	26140	Low	LTE Band 25 (PCS)	20	22.0	21.16	1	0.06	0	0748M	QPSK	1	99	0 mm	back	1:1	2.440	1.213	2.960	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	22.0	21.50	4	0.11	0	0748M	QPSK	1	0	0 mm	back	1:1	2.400	1.122	2.693	
1905.00	26590	High	LTE Band 25 (PCS)	20	22.0	21.08	23	0.08	0	0748M	QPSK	1	0	0 mm	back	1:1	2.000	1.236	2.472	
1860.00	26140	Low	LTE Band 25 (PCS)	20	22.0	21.38	1	0.08	0	0748M	QPSK	50	25	0 mm	back	1:1	2.180	1.153	2.514	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	22.0	21.49	4	-0.02	0	0748M	QPSK	50	25	0 mm	back	1:1	2.650	1.125	2.981	A99
1905.00	26590	High	LTE Band 25 (PCS)	20	22.0	21.09	23	0.08	0	0748M	QPSK	50	0	0 mm	back	1:1	1.980	1.233	2.441	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	22.0	21.27	4	0.06	0	0748M	QPSK	100	0	0 mm	back	1:1	2.360	1.183	2.792	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	22.0	21.50	0	0.02	0	0748M	QPSK	1	0	0 mm	front	1:1	1.780	1.122	1.997	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	22.0	21.49	0	0.00	0	0748M	QPSK	50	25	0 mm	front	1:1	1.740	1.125	1.958	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	22.0	21.50	8	0.00	0	0748M	QPSK	1	0	0 mm	bottom	1:1	1.720	1.122	1.930	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	22.0	21.49	8	0.04	0	0748M	QPSK	50	25	0 mm	bottom	1:1	1.640	1.125	1.845	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	22.0	21.49	4	0.01	0	0748M	QPSK	50	25	0 mm	back	1:1	2.460	1.125	2.768	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population										Phablet 4.0 W/kg (mW/g) averaged over 10 grams										

Note: Blue Entry represents variability measurement.

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Table 11-82
LTE Band 30 Phablet SAR - Open

MEASUREMENT RESULTS																			
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	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	24.0	23.40	-0.02	0	0748M	QPSK	1	0	8 mm	back	1:1	0.555	1.148	0.637	
2310.00	27710	Mid	LTE Band 30	10	23.0	22.45	-0.01	1	0748M	QPSK	25	0	8 mm	back	1:1	0.437	1.135	0.496	
2310.00	27710	Mid	LTE Band 30	10	24.0	23.40	0.01	0	0748M	QPSK	1	0	6 mm	front	1:1	0.566	1.148	0.650	
2310.00	27710	Mid	LTE Band 30	10	23.0	22.45	0.02	1	0748M	QPSK	25	0	6 mm	front	1:1	0.454	1.135	0.515	
2310.00	27710	Mid	LTE Band 30	10	24.0	23.40	0.02	0	0748M	QPSK	1	0	11 mm	bottom	1:1	0.718	1.148	0.824	
2310.00	27710	Mid	LTE Band 30	10	23.0	22.45	0.00	1	0748M	QPSK	25	0	11 mm	bottom	1:1	0.572	1.135	0.649	
2310.00	27710	Mid	LTE Band 30	10	24.0	23.40	0.01	0	0748M	QPSK	1	0	0 mm	right	1:1	0.277	1.148	0.318	
2310.00	27710	Mid	LTE Band 30	10	23.0	22.45	0.01	1	0748M	QPSK	25	0	0 mm	right	1:1	0.222	1.135	0.252	
2310.00	27710	Mid	LTE Band 30	10	24.0	23.40	0.05	0	0748M	QPSK	1	0	0 mm	left	1:1	0.244	1.148	0.280	
2310.00	27710	Mid	LTE Band 30	10	23.0	22.45	0.00	1	0748M	QPSK	25	0	0 mm	left	1:1	0.194	1.135	0.220	
2310.00	27710	Mid	LTE Band 30	10	22.0	21.29	-0.07	0	0748M	QPSK	1	0	0 mm	back	1:1	1.420	1.178	1.673	
2310.00	27710	Mid	LTE Band 30	10	22.0	21.38	-0.01	0	0748M	QPSK	25	12	0 mm	back	1:1	1.430	1.153	1.649	
2310.00	27710	Mid	LTE Band 30	10	22.0	21.29	0.02	0	0748M	QPSK	1	0	0 mm	front	1:1	1.000	1.178	1.178	
2310.00	27710	Mid	LTE Band 30	10	22.0	21.38	0.02	0	0748M	QPSK	25	12	0 mm	front	1:1	1.010	1.153	1.165	
2310.00	27710	Mid	LTE Band 30	10	22.0	21.29	0.02	0	0748M	QPSK	1	0	0 mm	bottom	1:1	1.430	1.178	1.685	
2310.00	27710	Mid	LTE Band 30	10	22.0	21.38	0.03	0	0748M	QPSK	25	12	0 mm	bottom	1:1	1.570	1.153	1.810	A100
ANSI / IEEE C95.1 1992 - SAFETY LIMIT																			
Spatial Peak								Phablet											
Uncontrolled Exposure/General Population								4.0 W/kg (mW/g)											
								averaged over 10 grams											

Table 11-83
LTE Band 7 Phablet SAR - Open

MEASUREMENT RESULTS																			
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (10g)	Scaling Factor	Reported SAR (10g)	Plot #
																(W/kg)		(W/kg)	
2535.00	21100	Mid	LTE Band 7	20	25.0	24.02	0.15	0	0126M	QPSK	1	0	8 mm	back	1:1	0.613	1.253	0.768	
2535.00	21100	Mid	LTE Band 7	20	24.0	23.08	0.06	1	0126M	QPSK	50	25	8 mm	back	1:1	0.497	1.236	0.614	
2535.00	21100	Mid	LTE Band 7	20	25.0	24.02	0.09	0	0126M	QPSK	1	0	6 mm	front	1:1	0.606	1.253	0.759	
2535.00	21100	Mid	LTE Band 7	20	24.0	23.08	0.05	1	0126M	QPSK	50	25	6 mm	front	1:1	0.485	1.236	0.599	
2535.00	21100	Mid	LTE Band 7	20	25.0	24.02	0.05	0	0126M	QPSK	1	0	11 mm	bottom	1:1	0.735	1.253	0.921	
2535.00	21100	Mid	LTE Band 7	20	24.0	23.08	0.04	1	0126M	QPSK	50	25	11 mm	bottom	1:1	0.594	1.236	0.734	
2535.00	21100	Mid	LTE Band 7	20	25.0	24.02	-0.09	0	0126M	QPSK	1	0	0 mm	left	1:1	0.576	1.253	0.722	
2535.00	21100	Mid	LTE Band 7	20	24.0	23.08	-0.01	1	0126M	QPSK	50	25	0 mm	left	1:1	0.463	1.236	0.572	
2535.00	21100	Mid	LTE Band 7	20	22.0	21.01	-0.05	0	0126M	QPSK	1	0	0 mm	back	1:1	1.340	1.256	1.683	
2535.00	21100	Mid	LTE Band 7	20	22.0	21.05	0.08	0	0126M	QPSK	50	25	0 mm	back	1:1	1.370	1.245	1.706	
2535.00	21100	Mid	LTE Band 7	20	22.0	21.01	-0.05	0	0126M	QPSK	1	0	0 mm	front	1:1	1.230	1.256	1.545	
2535.00	21100	Mid	LTE Band 7	20	22.0	21.05	0.00	0	0126M	QPSK	50	25	0 mm	front	1:1	1.270	1.245	1.581	
2535.00	21100	Mid	LTE Band 7	20	22.0	21.01	0.00	0	0126M	QPSK	1	0	0 mm	bottom	1:1	1.390	1.256	1.746	
2510.00	20850	Low	LTE Band 7	20	22.0	20.95	0.01	0	0126M	QPSK	50	25	0 mm	bottom	1:1	1.470	1.274	1.873	
2535.00	21100	Mid	LTE Band 7	20	22.0	21.05	0.01	0	0126M	QPSK	50	25	0 mm	bottom	1:1	1.460	1.245	1.818	
2560.00	21350	High	LTE Band 7	20	22.0	20.95	0.01	0	0126M	QPSK	50	25	0 mm	bottom	1:1	1.490	1.274	1.898	A101
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population								Phablet 4.0 W/kg (mW/g) averaged over 10 grams											

FCC ID: A3LSMF711U		SAR EVALUATION REPORT		Approved by: Quality Manager
Document S/N: 1M2104070032-01.A3L (Rev2)	Test Dates: 04/08/21 – 06/03/21	DUT Type: Portable Handset		Page 201 of 337

Table 11-84
LTE Band 41 Phablet SAR - Open

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]	Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (10g)	Scaling Factor	Reported SAR (10g)	Pilot #	
		MHz	Ch.														(W/kg)		(W/kg)		
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	25.5	24.54	0.01	0	0123M	QPSK	1	50	8 mm	back	1:1.58	0.445	1.247	0.555	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	24.5	23.60	0.08	1	0123M	QPSK	50	50	8 mm	back	1:1.58	0.355	1.230	0.437	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	25.5	24.54	0.08	0	0123M	QPSK	1	50	6 mm	front	1:1.58	0.428	1.247	0.534	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	24.5	23.60	0.01	1	0123M	QPSK	50	50	6 mm	front	1:1.58	0.341	1.230	0.419	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	25.5	24.54	-0.02	0	0123M	QPSK	1	50	11 mm	bottom	1:1.58	0.533	1.247	0.665	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	24.5	23.60	0.05	1	0123M	QPSK	50	50	11 mm	bottom	1:1.58	0.424	1.230	0.522	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	25.5	24.54	-0.09	0	0123M	QPSK	1	50	0 mm	left	1:1.58	1.020	1.247	1.272	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	24.5	23.60	-0.09	1	0123M	QPSK	50	50	0 mm	left	1:1.58	0.817	1.230	1.005	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	24.0	23.31	-0.03	0	0123M	QPSK	1	0	0 mm	back	1:1.58	1.380	1.172	1.617	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	24.0	23.40	0.00	0	0123M	QPSK	1	50	0 mm	back	1:1.58	1.420	1.148	1.630	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	24.0	23.42	-0.21	0	0123M	QPSK	1	50	0 mm	back	1:1.58	1.740	1.143	1.989	
1 CC Uplink - Power Class 3	N/A	2636.50	41055	Mid-High	LTE Band 41	20	24.0	23.25	-0.02	0	0123M	QPSK	1	50	0 mm	back	1:1.58	1.880	1.189	2.235	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	24.0	23.28	0.01	0	0123M	QPSK	1	50	0 mm	back	1:1.58	2.030	1.180	2.395	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	24.0	23.44	0.05	0	0123M	QPSK	50	25	0 mm	back	1:1.58	1.420	1.138	1.616	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	24.0	23.38	0.01	0	0123M	QPSK	50	50	0 mm	back	1:1.58	1.400	1.153	1.614	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	24.0	23.45	0.01	0	0123M	QPSK	50	25	0 mm	back	1:1.58	1.650	1.135	1.873	
1 CC Uplink - Power Class 3	N/A	2636.50	41055	Mid-High	LTE Band 41	20	24.0	23.39	0.02	0	0123M	QPSK	50	25	0 mm	back	1:1.58	1.890	1.151	2.175	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	24.0	23.14	-0.04	0	0123M	QPSK	50	0	0 mm	back	1:1.58	2.080	1.219	2.536	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	24.0	23.34	0.03	0	0123M	QPSK	50	50	0 mm	back	1:1.58	2.090	1.164	2.433	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	24.0	23.39	0.01	0	0123M	QPSK	100	0	0 mm	back	1:1.58	1.400	1.151	1.611	
1 CC Uplink - Power Class 2	N/A	2680.00	41490	High	LTE Band 41	20	25.6	24.99	-0.20	0	0123M	QPSK	50	0	0 mm	back	1:2.31	2.110	1.151	2.429	
1 CC Uplink - Power Class 2	N/A	2680.00	41490	High	LTE Band 41	20	25.6	25.10	-0.10	0	0123M	QPSK	50	50	0 mm	back	1:2.31	2.220	1.122	2.491	
2 CC Uplink - Power Class 3	PCC	2680.00	41490	High	LTE Band 41	20	24.0	23.21	-0.03	0	0123M	QPSK	50	0	0 mm	back	1:1.58	2.170	1.199	2.602	
	SCC	2660.20	41292											50							
2 CC Uplink - Power Class 2	PCC	2680.00	41490	High	LTE Band 41	20	25.6	25.09	0.03	0	0123M	QPSK	50	0	0 mm	back	1:2.31	2.250	1.125	2.531	A102
	SCC	2660.20	41292											50							
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	24.0	23.42	-0.12	0	0123M	QPSK	1	50	0 mm	front	1:1.58	0.811	1.143	0.927	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	24.0	23.45	0.10	0	0123M	QPSK	50	25	0 mm	front	1:1.58	0.813	1.135	0.923	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	24.0	23.31	-0.14	0	0123M	QPSK	1	0	0 mm	bottom	1:1.58	1.330	1.172	1.559	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	24.0	23.40	-0.07	0	0123M	QPSK	1	50	0 mm	bottom	1:1.58	1.390	1.148	1.596	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	24.0	23.42	-0.05	0	0123M	QPSK	1	50	0 mm	bottom	1:1.58	1.620	1.143	1.852	
1 CC Uplink - Power Class 3	N/A	2636.50	41055	Mid-High	LTE Band 41	20	24.0	23.25	-0.01	0	0123M	QPSK	1	50	0 mm	bottom	1:1.58	1.880	1.189	2.235	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	24.0	23.28	-0.02	0	0123M	QPSK	1	50	0 mm	bottom	1:1.58	1.990	1.180	2.348	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	24.0	23.44	-0.05	0	0123M	QPSK	50	25	0 mm	bottom	1:1.58	1.340	1.138	1.525	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	24.0	23.38	-0.07	0	0123M	QPSK	50	50	0 mm	bottom	1:1.58	1.410	1.153	1.626	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	24.0	23.45	0.10	0	0123M	QPSK	50	25	0 mm	bottom	1:1.58	1.610	1.135	1.827	
1 CC Uplink - Power Class 3	N/A	2636.50	41055	Mid-High	LTE Band 41	20	24.0	23.39	0.10	0	0123M	QPSK	50	25	0 mm	bottom	1:1.58	1.910	1.151	2.198	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	24.0	23.34	0.10	0	0123M	QPSK	50	50	0 mm	bottom	1:1.58	2.050	1.164	2.386	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	24.0	23.39	0.10	0	0123M	QPSK	100	0	0 mm	bottom	1:1.58	1.210	1.151	1.393	
2 CC Uplink - Power Class 2	PCC	2680.00	41490	High	LTE Band 41	20	25.6	25.09	0.01	0	0123M	QPSK	50	0	0 mm	back	1:2.31	2.230	1.125	2.509	
	SCC	2660.20	41292											50							
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population										Phablet 4.0 W/kg (mW/g) averaged over 10 grams											

Note: Blue Entry represents variability measurement.

FCC ID: A3LSMF711U		SAR EVALUATION REPORT		Approved by: Quality Manager
Document S/N: 1M2104070032-01.A3L (Rev2)	Test Dates: 04/08/21 – 06/03/21	DUT Type: Portable Handset		Page 202 of 337

Table 11-85
NR Band n66 Phablet SAR - Open

MEASUREMENT RESULTS																						
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Antenna Config	Power Drift [dB]	MPR [dB]	Tune State	Serial Number	Waveform	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (10g)	Scaling Factor	Reported SAR	Plot #	
MHz	Ch.																	(W/kg)		(10g) (W/kg)		
1745.00	349000	Mid	NR Band n66 (AWS)	40	24.5	23.90	A	0.01	0	17	0218M	DFT-S-OFDM	QPSK	1	214	8 mm	back	1:1	1.220	1.148	1.401	
1745.00	349000	Mid	NR Band n66 (AWS)	40	24.5	23.85	A	-0.09	0	59	0218M	DFT-S-OFDM	QPSK	108	54	8 mm	back	1:1	0.935	1.161	1.086	
1745.00	349000	Mid	NR Band n66 (AWS)	40	24.5	23.90	A	0.03	0	60	0218M	DFT-S-OFDM	QPSK	1	214	6 mm	front	1:1	1.060	1.148	1.217	
1745.00	349000	Mid	NR Band n66 (AWS)	40	24.5	23.85	A	0.00	0	59	0218M	DFT-S-OFDM	QPSK	108	54	6 mm	front	1:1	0.996	1.161	1.156	
1745.00	349000	Mid	NR Band n66 (AWS)	40	24.5	23.90	A	0.00	0	116	0218M	DFT-S-OFDM	QPSK	1	214	11 mm	bottom	1:1	0.962	1.148	1.104	
1745.00	349000	Mid	NR Band n66 (AWS)	40	24.5	23.85	A	-0.05	0	116	0218M	DFT-S-OFDM	QPSK	108	54	11 mm	bottom	1:1	0.861	1.161	1.000	
1745.00	349000	Mid	NR Band n66 (AWS)	40	24.5	23.90	A	0.01	0	59	0218M	DFT-S-OFDM	QPSK	1	214	0 mm	right	1:1	0.410	1.148	0.471	
1745.00	349000	Mid	NR Band n66 (AWS)	40	24.5	23.85	A	0.01	0	59	0218M	DFT-S-OFDM	QPSK	108	54	0 mm	right	1:1	0.325	1.161	0.377	
1745.00	349000	Mid	NR Band n66 (AWS)	40	24.5	23.90	A	0.03	0	58	0218M	DFT-S-OFDM	QPSK	1	214	0 mm	left	1:1	0.392	1.148	0.450	
1745.00	349000	Mid	NR Band n66 (AWS)	40	24.5	23.85	A	-0.16	0	58	0218M	DFT-S-OFDM	QPSK	108	54	0 mm	left	1:1	0.327	1.161	0.380	
1745.00	349000	Mid	NR Band n66 (AWS)	40	20.5	19.98	A	0.07	0	5	0218M	DFT-S-OFDM	QPSK	1	214	0 mm	back	1:1	2.350	1.127	2.648	
1745.00	349000	Mid	NR Band n66 (AWS)	40	20.5	20.02	A	0.05	0	7	0218M	DFT-S-OFDM	QPSK	108	108	0 mm	back	1:1	2.350	1.117	2.625	
1745.00	349000	Mid	NR Band n66 (AWS)	40	20.5	19.97	A	0.00	0	116	0218M	DFT-S-OFDM	QPSK	216	0	0 mm	back	1:1	2.130	1.130	2.407	
1745.00	349000	Mid	NR Band n66 (AWS)	40	20.5	19.75	A	0.05	0	5	0218M	CP-OFDM	QPSK	1	1	0 mm	back	1:1	2.390	1.189	2.842	
1745.00	349000	Mid	NR Band n66 (AWS)	40	20.5	19.98	A	0.01	0	59	0218M	DFT-S-OFDM	QPSK	1	214	0 mm	front	1:1	1.520	1.127	1.713	
1745.00	349000	Mid	NR Band n66 (AWS)	40	20.5	20.02	A	0.05	0	59	0218M	DFT-S-OFDM	QPSK	108	108	0 mm	front	1:1	1.600	1.117	1.787	
1745.00	349000	Mid	NR Band n66 (AWS)	40	20.5	19.98	A	-0.01	0	59	0218M	DFT-S-OFDM	QPSK	1	214	0 mm	bottom	1:1	1.730	1.127	1.950	
1745.00	349000	Mid	NR Band n66 (AWS)	40	20.5	20.02	A	-0.04	0	59	0218M	DFT-S-OFDM	QPSK	108	108	0 mm	bottom	1:1	1.930	1.117	2.156	
1745.00	349000	Mid	NR Band n66 (AWS)	40	20.5	19.97	A	-0.04	0	59	0218M	DFT-S-OFDM	QPSK	216	0	0 mm	bottom	1:1	2.030	1.130	2.294	
1745.00	349000	Mid	NR Band n66 (AWS)	40	22.0	21.63	I	-0.11	0	N/A	0879M	DFT-S-OFDM	QPSK	1	1	0 mm	right	1:1	2.600	1.089	2.831	
1745.00	349000	Mid	NR Band n66 (AWS)	40	22.0	21.66	I	-0.11	0	N/A	0879M	DFT-S-OFDM	QPSK	108	54	0 mm	right	1:1	2.660	1.081	2.875	
1745.00	349000	Mid	NR Band n66 (AWS)	40	22.0	21.52	I	-0.13	0	N/A	0879M	DFT-S-OFDM	QPSK	216	0	0 mm	right	1:1	2.620	1.117	2.927	
1745.00	349000	Mid	NR Band n66 (AWS)	40	22.0	21.62	I	-0.14	0	N/A	0879M	CP-OFDM	QPSK	1	1	0 mm	right	1:1	2.730	1.091	2.978	A103
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 11-86
NR Band n25 Phablet SAR - Open

MEASUREMENT RESULTS																						
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Antenna Config	Power Drift [dB]	MPR [dB]	Tune 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)		
1882.50	376500	Mid	NR Band n25 (PCS)	40	24.5	23.73	A	-0.09	0	0	0195M	DFT-S-OFDM	QPSK	1	214	8 mm	back	1:1	1.050	1.194	1.254	
1882.50	376500	Mid	NR Band n25 (PCS)	40	24.5	23.50	A	-0.02	0	0	0195M	DFT-S-OFDM	QPSK	108	54	8 mm	back	1:1	0.889	1.259	1.119	
1882.50	376500	Mid	NR Band n25 (PCS)	40	24.5	23.73	A	0.21	0	2	0195M	DFT-S-OFDM	QPSK	1	214	6 mm	front	1:1	0.998	1.194	1.192	
1882.50	376500	Mid	NR Band n25 (PCS)	40	24.5	23.50	A	0.09	0	2	0195M	DFT-S-OFDM	QPSK	108	54	6 mm	front	1:1	0.988	1.259	1.244	
1882.50	376500	Mid	NR Band n25 (PCS)	40	24.5	23.73	A	0.01	0	0	0195M	DFT-S-OFDM	QPSK	1	214	11 mm	bottom	1:1	1.050	1.194	1.254	
1882.50	376500	Mid	NR Band n25 (PCS)	40	24.5	23.50	A	0.01	0	0	0195M	DFT-S-OFDM	QPSK	108	54	11 mm	bottom	1:1	0.937	1.259	1.180	
1882.50	376500	Mid	NR Band n25 (PCS)	40	24.5	23.73	A	-0.09	0	15	0195M	DFT-S-OFDM	QPSK	1	214	0 mm	right	1:1	0.348	1.194	0.416	
1882.50	376500	Mid	NR Band n25 (PCS)	40	24.5	23.50	A	-0.04	0	15	0195M	DFT-S-OFDM	QPSK	108	54	0 mm	right	1:1	0.396	1.259	0.499	
1882.50	376500	Mid	NR Band n25 (PCS)	40	24.5	23.73	A	0.10	0	13	0195M	DFT-S-OFDM	QPSK	1	214	0 mm	left	1:1	0.342	1.194	0.408	
1882.50	376500	Mid	NR Band n25 (PCS)	40	24.5	23.50	A	0.10	0	13	0195M	DFT-S-OFDM	QPSK	108	54	0 mm	left	1:1	0.339	1.259	0.427	
1882.50	376500	Mid	NR Band n25 (PCS)	40	22.0	21.59	A	0.19	0	4	0195M	DFT-S-OFDM	QPSK	1	1	0 mm	back	1:1	2.600	1.099	2.857	
1882.50	376500	Mid	NR Band n25 (PCS)	40	22.0	21.40	A	0.16	0	4	0195M	DFT-S-OFDM	QPSK	108	0	0 mm	back	1:1	2.440	1.148	2.801	
1882.50	376500	Mid	NR Band n25 (PCS)	40	22.0	21.40	A	0.04	0	4	0195M	DFT-S-OFDM	QPSK	216	0	0 mm	back	1:1	2.410	1.148	2.767	
1882.50	376500	Mid	NR Band n25 (PCS)	40	22.0	21.49	A	0.04	0	4	0195M	CP-OFDM	QPSK	1	1	0 mm	back	1:1	2.640	1.125	2.970	A104
1882.50	376500	Mid	NR Band n25 (PCS)	40	22.0	21.59	A	0.11	0	0	0195M	DFT-S-OFDM	QPSK	1	1	0 mm	front	1:1	2.190	1.099	2.407	
1882.50	376500	Mid	NR Band n25 (PCS)	40	22.0	21.40	A	0.13	0	0	0195M	DFT-S-OFDM	QPSK	108	0	0 mm	front	1:1	2.060	1.148	2.365	
1882.50	376500	Mid	NR Band n25 (PCS)	40	22.0	21.40	A	0.02	0	0	0195M	DFT-S-OFDM	QPSK	216	0	0 mm	front	1:1	2.000	1.148	2.296	
1882.50	376500	Mid	NR Band n25 (PCS)	40	22.0	21.59	A	0.06	0	8	0195M	DFT-S-OFDM	QPSK	1	1	0 mm	bottom	1:1	1.860	1.099	2.044	
1882.50	376500	Mid	NR Band n25 (PCS)	40	22.0	21.40	A	0.07	0	8	0195M	DFT-S-OFDM	QPSK	108	0	0 mm	bottom	1:1	1.760	1.148	2.020	
1882.50	376500	Mid	NR Band n25 (PCS)	40	22.0	21.40	A	0.05	0	8	0195M	DFT-S-OFDM	QPSK	216	0	0 mm	bottom	1:1	1.720	1.148	1.975	
1882.50	376500	Mid	NR Band n25 (PCS)	40	24.5	24.49	I	0.00	0	NA	0818M	DFT-S-OFDM	QPSK	1	214	0 mm	right	1:1	2.000	1.002	2.004	
1882.50	376500	Mid	NR Band n25 (PCS)	40	24.5	24.35	I	-0.07	0	NA	0818M	DFT-S-OFDM	QPSK	108	54	0 mm	right	1:1	2.500	1.035	2.588	
1882.50	376500	Mid	NR Band n25 (PCS)	40	23.5	23.45	I	0.01	1	NA	0818M	DFT-S-OFDM	QPSK	216	0	0 mm	right	1:1	1.830	1.012	1.852	
1882.50	376500	Mid	NR Band n25 (PCS)	40	23.0	22.99	I	0.01	1.5	NA	0818M	CP-OFDM	QPSK	1	1	0 mm	right	1:1	1.860	1.002	1.864	
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 11-87
NR Band n30 Phablet SAR – Open

MEASUREMENT RESULTS																				
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	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)		
2310.00	462000	Mid	NR Band n30	10	23.5	22.73	0.00	0	0181M	DFT-S-OFDM	QPSK	1	26	8 mm	back	1:1	0.638	1.194	0.762	
2310.00	462000	Mid	NR Band n30	10	23.5	22.46	0.01	0	0181M	DFT-S-OFDM	QPSK	25	14	8 mm	back	1:1	0.631	1.271	0.802	
2310.00	462000	Mid	NR Band n30	10	23.5	22.73	0.00	0	0181M	DFT-S-OFDM	QPSK	1	26	6 mm	front	1:1	0.617	1.194	0.737	
2310.00	462000	Mid	NR Band n30	10	23.5	22.46	0.00	0	0181M	DFT-S-OFDM	QPSK	25	14	6 mm	front	1:1	0.591	1.271	0.751	
2310.00	462000	Mid	NR Band n30	10	23.5	22.73	0.01	0	0181M	DFT-S-OFDM	QPSK	1	26	11 mm	bottom	1:1	0.765	1.194	0.913	
2310.00	462000	Mid	NR Band n30	10	23.5	22.46	0.00	0	0181M	DFT-S-OFDM	QPSK	25	14	11 mm	bottom	1:1	0.740	1.271	0.941	
2310.00	462000	Mid	NR Band n30	10	23.5	22.73	0.00	0	0181M	DFT-S-OFDM	QPSK	1	26	0 mm	right	1:1	0.253	1.194	0.302	
2310.00	462000	Mid	NR Band n30	10	23.5	22.46	0.00	0	0181M	DFT-S-OFDM	QPSK	25	14	0 mm	right	1:1	0.238	1.271	0.302	
2310.00	462000	Mid	NR Band n30	10	23.5	22.73	0.02	0	0181M	DFT-S-OFDM	QPSK	1	26	0 mm	left	1:1	0.258	1.194	0.308	
2310.00	462000	Mid	NR Band n30	10	23.5	22.46	0.00	0	0181M	DFT-S-OFDM	QPSK	25	14	0 mm	left	1:1	0.250	1.271	0.318	
2310.00	462000	Mid	NR Band n30	10	22.0	21.46	0.00	0	0181M	DFT-S-OFDM	QPSK	1	26	0 mm	back	1:1	1.630	1.132	1.845	
2310.00	462000	Mid	NR Band n30	10	22.0	21.39	0.00	0	0181M	DFT-S-OFDM	QPSK	25	14	0 mm	back	1:1	1.640	1.151	1.888	A105
2310.00	462000	Mid	NR Band n30	10	22.0	21.21	0.01	0	0181M	CP-OFDM	QPSK	1	1	0 mm	back	1:1	1.600	1.199	1.918	
2310.00	462000	Mid	NR Band n30	10	22.0	21.46	0.00	0	0181M	DFT-S-OFDM	QPSK	1	26	0 mm	front	1:1	1.330	1.132	1.506	
2310.00	462000	Mid	NR Band n30	10	22.0	21.39	0.02	0	0181M	DFT-S-OFDM	QPSK	25	14	0 mm	front	1:1	1.220	1.151	1.404	
2310.00	462000	Mid	NR Band n30	10	22.0	21.46	0.00	0	0181M	DFT-S-OFDM	QPSK	1	26	0 mm	bottom	1:1	1.450	1.132	1.641	
2310.00	462000	Mid	NR Band n30	10	22.0	21.39	0.00	0	0181M	DFT-S-OFDM	QPSK	25	14	0 mm	bottom	1:1	1.460	1.151	1.680	
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 11-88
NR Band n41 Phablet SAR - Open

MEASUREMENT RESULTS																				
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	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)		
2592.99	518598	Mid	NR Band n41	100	22.0	21.55	0.07	0	0897M	DFT-S-OFDM	QPSK	1	137	0 mm	back	1:1	1.240	1.109	1.375	
2592.99	518598	Mid	NR Band n41	100	22.0	21.61	0.01	0	0897M	DFT-S-OFDM	QPSK	135	0	0 mm	back	1:1	1.290	1.094	1.411	
2592.99	518598	Mid	NR Band n41	100	22.0	21.55	0.01	0	0897M	DFT-S-OFDM	QPSK	1	137	0 mm	front	1:1	1.680	1.109	1.863	
2592.99	518598	Mid	NR Band n41	100	22.0	21.61	0.01	0	0897M	DFT-S-OFDM	QPSK	135	0	0 mm	front	1:1	1.850	1.094	2.024	A106
2592.99	518598	Mid	NR Band n41	100	22.0	21.48	0.02	0	0897M	DFT-S-OFDM	QPSK	270	0	0 mm	front	1:1	1.670	1.127	1.882	
2592.99	518598	Mid	NR Band n41	100	22.0	21.05	0.01	0	0897M	CP-OFDM	QPSK	1	1	0 mm	front	1:1	1.800	1.245	2.241	
2592.99	518598	Mid	NR Band n41	100	22.0	21.55	0.01	0	0897M	DFT-S-OFDM	QPSK	1	137	0 mm	right	1:1	1.570	1.109	1.741	
2592.99	518598	Mid	NR Band n41	100	22.0	21.61	0.02	0	0897M	DFT-S-OFDM	QPSK	135	0	0 mm	right	1:1	1.650	1.094	1.805	
2592.99	518598	Mid	NR Band n41	100	22.0	21.48	0.02	0	0897M	DFT-S-OFDM	QPSK	270	0	0 mm	right	1:1	1.550	1.127	1.747	
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 11-89
NR Band n77 DoD Phablet SAR – Open

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	19.5	18.77	F	0.02	0	0641M	DFT-S-OFDM	QPSK	1	137	0 mm	back	1:1	1.183	0.915	1.082	
3500.01	633334	Md	NR Band n77	100	19.5	18.67	F	0.01	0	0641M	DFT-S-OFDM	QPSK	135	69	0 mm	back	1:1	1.211	0.889	1.077	
3500.01	633334	Md	NR Band n77	100	19.5	18.67	F	0.01	0	0641M	DFT-S-OFDM	QPSK	270	0	0 mm	back	1:1	1.211	0.819	0.992	
3500.01	633334	Md	NR Band n77	100	19.5	18.77	F	0.01	0	0641M	DFT-S-OFDM	QPSK	1	137	0 mm	front	1:1	1.183	0.909	1.075	
3500.01	633334	Md	NR Band n77	100	19.5	18.67	F	0.01	0	0641M	DFT-S-OFDM	QPSK	135	69	0 mm	front	1:1	1.211	0.904	1.095	
3500.01	633334	Md	NR Band n77	100	19.5	18.67	F	0.03	0	0641M	DFT-S-OFDM	QPSK	270	0	0 mm	front	1:1	1.211	1.010	1.223	
3500.01	633334	Md	NR Band n77	100	19.5	18.77	F	0.01	0	0641M	DFT-S-OFDM	QPSK	1	137	0 mm	top	1:1	1.183	0.453	0.536	
3500.01	633334	Md	NR Band n77	100	19.5	18.67	F	0.02	0	0641M	DFT-S-OFDM	QPSK	135	69	0 mm	top	1:1	1.211	0.444	0.538	
3500.01	633334	Md	NR Band n77	100	19.5	18.77	F	0.02	0	0641M	DFT-S-OFDM	QPSK	1	137	0 mm	left	1:1	1.183	2.080	2.461	
3500.01	633334	Md	NR Band n77	100	19.5	18.67	F	0.01	0	0641M	DFT-S-OFDM	QPSK	135	69	0 mm	left	1:1	1.211	2.060	2.495	
3500.01	633334	Md	NR Band n77	100	19.5	18.67	F	0.01	0	0641M	DFT-S-OFDM	QPSK	270	0	0 mm	left	1:1	1.211	2.110	2.555	
3500.01	633334	Md	NR Band n77	100	19.5	18.66	F	-0.07	0	0641M	CP-OFDM	QPSK	1	1	0 mm	left	1:1	1.213	2.270	2.754	A107
3500.01	633334	Md	NR Band n77	100	19.5	18.66	F	0.01	0	0641M	CP-OFDM	QPSK	1	1	0 mm	left	1:1	1.213	2.220	2.693	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT									Phablet												
Spatial Peak									1.6 W/kg (mW/g)												
Uncontrolled Exposure/General Population									averaged over 1 gram												

Note: Blue Entry represents variability measurement.

Table 11-90
NR Band n77 Phablet SAR – Open

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	19.5	18.93	F	0.01	0	0641M	DFT-S-OFDM	QPSK	1	137	0 mm	back	1:1	1.140	0.865	0.986	
3930.00	662000	High	NR Band n77	100	19.5	19.28	F	0.01	0	0641M	DFT-S-OFDM	QPSK	1	137	0 mm	back	1:1	1.052	1.050	1.105	
3750.00	650000	Low	NR Band n77	100	19.5	18.86	F	0.02	0	0641M	DFT-S-OFDM	QPSK	135	69	0 mm	back	1:1	1.159	0.860	0.997	
3930.00	662000	High	NR Band n77	100	19.5	19.19	F	0.01	0	0641M	DFT-S-OFDM	QPSK	135	0	0 mm	back	1:1	1.074	0.960	1.031	
3930.00	662000	High	NR Band n77	100	19.5	19.14	F	0.02	0	0641M	DFT-S-OFDM	QPSK	270	0	0 mm	back	1:1	1.086	0.973	1.057	
3750.00	650000	Low	NR Band n77	100	19.5	18.93	F	0.01	0	0641M	DFT-S-OFDM	QPSK	1	137	0 mm	left	1:1	1.140	2.250	2.565	
3930.00	662000	High	NR Band n77	100	19.5	19.28	F	0.02	0	0641M	DFT-S-OFDM	QPSK	1	137	0 mm	left	1:1	1.052	2.230	2.346	
3750.00	650000	Low	NR Band n77	100	19.5	18.86	F	0.02	0	0641M	DFT-S-OFDM	QPSK	135	69	0 mm	left	1:1	1.159	2.190	2.538	
3930.00	662000	High	NR Band n77	100	19.5	19.19	F	0.02	0	0641M	DFT-S-OFDM	QPSK	135	0	0 mm	left	1:1	1.074	2.230	2.395	
3930.00	662000	High	NR Band n77	100	19.5	19.14	F	0.02	0	0641M	DFT-S-OFDM	QPSK	270	0	0 mm	left	1:1	1.086	2.240	2.433	
3930.00	662000	High	NR Band n77	100	19.5	19.17	F	0.04	0	0641M	CP-OFDM	QPSK	1	1	0 mm	left	1:1	1.079	2.540	2.741	A108
3750.00	650000	Low	NR Band n77	100	19.5	18.93	F	0.01	0	0641M	DFT-S-OFDM	QPSK	1	137	0 mm	left	1:1	1.140	2.190	2.497	
3930.00	662000	High	NR Band n77	100	19.5	19.17	F	0.02	0	0641M	CP-OFDM	QPSK	1	1	0 mm	left	1:1	1.079	2.520	2.719	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT									Phablet												
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 11-91
WLAN SISO Phablet SAR - Open

MEASUREMENT RESULTS																				
FREQUENCY		Mode	Service	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Chipset Variant	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)	
5300	60	802.11a	OFDM	20	18.0	17.80	-0.08	0 mm	1	Q	1600S	6	back	98.9	4.125	0.716	1.047	1.011	0.758	
5300	60	802.11a	OFDM	20	18.0	17.80	-0.05	0 mm	1	Q	1600S	6	front	98.9	2.210	-	1.047	1.011	-	
5300	60	802.11a	OFDM	20	18.0	17.80	-0.01	0 mm	1	Q	1600S	6	top	98.9	2.156	-	1.047	1.011	-	
5300	60	802.11a	OFDM	20	18.0	17.80	0.00	0 mm	1	Q	1600S	6	right	98.9	0.669	-	1.047	1.011	-	
5320	64	802.11a	OFDM	20	18.0	17.99	0.02	0 mm	1	N	0677M	6	back	98.9	2.070	-	1.002	1.011	-	
5320	64	802.11a	OFDM	20	18.0	17.99	0.02	0 mm	1	N	0677M	6	front	98.9	1.410	-	1.002	1.011	-	
5320	64	802.11a	OFDM	20	18.0	17.99	0.02	0 mm	1	N	0677M	6	top	98.9	2.960	0.312	1.002	1.011	0.316	
5320	64	802.11a	OFDM	20	18.0	17.99	0.02	0 mm	1	N	0677M	6	right	98.9	0.421	-	1.002	1.011	-	
5600	120	802.11a	OFDM	20	18.0	17.80	0.01	0 mm	1	Q	1600S	6	back	98.9	5.015	0.336	1.047	1.011	0.356	
5600	120	802.11a	OFDM	20	18.0	17.80	0.01	0 mm	1	Q	1600S	6	front	98.9	1.884	-	1.047	1.011	-	
5600	120	802.11a	OFDM	20	18.0	17.80	0.01	0 mm	1	Q	1600S	6	top	98.9	2.170	-	1.047	1.011	-	
5600	120	802.11a	OFDM	20	18.0	17.80	0.01	0 mm	1	Q	1600S	6	right	98.9	0.895	-	1.047	1.011	-	
5720	144	802.11a	OFDM	20	18.0	17.99	0.02	0 mm	1	N	0677M	6	back	98.9	1.270	-	1.002	1.011	-	
5720	144	802.11a	OFDM	20	18.0	17.99	0.02	0 mm	1	N	0677M	6	front	98.9	1.490	-	1.002	1.011	-	
5720	144	802.11a	OFDM	20	18.0	17.99	0.01	0 mm	1	N	0677M	6	top	98.9	2.760	0.322	1.002	1.011	0.326	
5720	144	802.11a	OFDM	20	18.0	17.99	0.02	0 mm	1	N	0677M	6	right	98.9	0.386	-	1.002	1.011	-	
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 11-92
WLAN MIMO Phablet SAR - Open

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.	Chipset Variant	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)	
5300	60	802.11n	OFDM	20	18.0	17.65	18.0	17.81	0.01	0 mm	MIMO	Q	1600S	13	back	99.7	3.940	-	1.084	1.003	-	
5300	60	802.11n	OFDM	20	18.0	17.65	18.0	17.81	0.01	0 mm	MIMO	Q	1600S	13	front	99.7	3.020	-	1.084	1.003	-	
5300	60	802.11n	OFDM	20	18.0	17.65	18.0	17.81	0.01	0 mm	MIMO	Q	1600S	13	top	99.7	2.470	-	1.084	1.003	-	
5300	60	802.11n	OFDM	20	18.0	17.65	18.0	17.81	0.01	0 mm	MIMO	Q	1600S	13	right	99.7	0.947	-	1.084	1.003	-	
5300	60	802.11n	OFDM	20	18.0	17.65	18.0	17.81	0.01	0 mm	MIMO	Q	1600S	13	left	99.7	4.960	0.894	1.084	1.003	0.972	
5300	60	802.11n	OFDM	20	18.0	17.96	18.0	17.83	0.01	0 mm	MIMO	N	0677M	13	back	99.8	2.510	-	1.040	1.002	-	
5300	60	802.11n	OFDM	20	18.0	17.96	18.0	17.83	0.02	0 mm	MIMO	N	0677M	13	front	99.8	1.600	-	1.040	1.002	-	
5300	60	802.11n	OFDM	20	18.0	17.96	18.0	17.83	0.02	0 mm	MIMO	N	0677M	13	top	99.8	2.400	-	1.040	1.002	-	
5300	60	802.11n	OFDM	20	18.0	17.96	18.0	17.83	0.02	0 mm	MIMO	N	0677M	13	right	99.8	0.449	-	1.040	1.002	-	
5300	60	802.11n	OFDM	20	18.0	17.96	18.0	17.83	0.02	0 mm	MIMO	N	0677M	13	left	99.8	4.780	0.603	1.040	1.002	0.628	
5720	144	802.11n	OFDM	20	18.0	17.59	18.0	17.79	0.01	0 mm	MIMO	Q	1600S	13	back	99.7	4.380	0.897	1.099	1.003	0.989	
5720	144	802.11n	OFDM	20	18.0	17.59	18.0	17.79	0.01	0 mm	MIMO	Q	1600S	13	front	99.7	2.400	-	1.099	1.003	-	
5720	144	802.11n	OFDM	20	18.0	17.59	18.0	17.79	0.01	0 mm	MIMO	Q	1600S	13	top	99.7	2.370	-	1.099	1.003	-	
5720	144	802.11n	OFDM	20	18.0	17.59	18.0	17.79	0.01	0 mm	MIMO	Q	1600S	13	right	99.7	1.020	-	1.099	1.003	-	
5720	144	802.11n	OFDM	20	18.0	17.59	18.0	17.79	0.01	0 mm	MIMO	Q	1600S	13	left	99.7	4.010	-	1.099	1.003	-	
5620	124	802.11n	OFDM	20	18.0	17.99	18.0	17.91	0.02	0 mm	MIMO	N	0677M	13	back	99.8	4.830	0.886	1.021	1.002	0.906	
5620	124	802.11n	OFDM	20	18.0	17.99	18.0	17.91	0.01	0 mm	MIMO	N	0677M	13	front	99.8	4.670	-	1.021	1.002	-	
5620	124	802.11n	OFDM	20	18.0	17.99	18.0	17.91	0.02	0 mm	MIMO	N	0677M	13	top	99.8	2.270	-	1.021	1.002	-	
5620	124	802.11n	OFDM	20	18.0	17.99	18.0	17.91	0.02	0 mm	MIMO	N	0677M	13	right	99.8	0.601	-	1.021	1.002	-	
5620	124	802.11n	OFDM	20	18.0	17.99	18.0	17.91	0.02	0 mm	MIMO	N	0677M	13	left	99.8	6.330	1.020	1.021	1.002	1.044	A109
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population											Phablet 4.0 W/kg (mW/g) averaged over 10 grams											

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 11-93
WLAN SISO Phablet SAR for Conditions with 5G NR- Open

MEASUREMENT RESULTS																				
FREQUENCY		Mode	Service	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Chipset Variant	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)	
5310	62	802.11n	OFDM	40	15.0	14.77	0.01	0 mm	1	Q	1600S	13.5	back	99.7	0.671	0.098	1.054	1.003	0.104	
5310	62	802.11n	OFDM	40	15.0	14.77	0.02	0 mm	1	Q	1600S	13.5	front	99.7	0.312	-	1.054	1.003	-	
5310	62	802.11n	OFDM	40	15.0	14.77	0.00	0 mm	1	Q	1600S	13.5	top	99.7	0.700	0.096	1.054	1.003	0.101	
5310	62	802.11n	OFDM	40	15.0	14.77	0.02	0 mm	1	Q	1600S	13.5	right	99.7	0.221	-	1.054	1.003	-	
5270	54	802.11n	OFDM	40	15.0	14.96	0.01	0 mm	1	N	0677M	13.5	back	99.7	0.958	0.194	1.009	1.003	0.196	
5270	54	802.11n	OFDM	40	15.0	14.96	0.02	0 mm	1	N	0677M	13.5	front	99.7	0.640	-	1.009	1.003	-	
5270	54	802.11n	OFDM	40	15.0	14.96	0.02	0 mm	1	N	0677M	13.5	top	99.7	1.420	0.164	1.009	1.003	0.166	
5270	54	802.11n	OFDM	40	15.0	14.96	0.02	0 mm	1	N	0677M	13.5	right	99.7	0.280	-	1.009	1.003	-	
5690	138	802.11ac	OFDM	80	15.0	14.82	0.02	0 mm	1	Q	1600S	29.3	back	99.7	0.416	0.090	1.042	1.003	0.094	
5690	138	802.11ac	OFDM	80	15.0	14.82	0.02	0 mm	1	Q	1600S	29.3	front	99.7	0.349	-	1.042	1.003	-	
5690	138	802.11ac	OFDM	80	15.0	14.82	0.02	0 mm	1	Q	1600S	29.3	top	99.7	0.598	0.073	1.042	1.003	0.076	
5690	138	802.11ac	OFDM	80	15.0	14.82	0.02	0 mm	1	Q	1600S	29.3	right	99.7	0.154	-	1.042	1.003	-	
5690	138	802.11ac	OFDM	80	15.0	14.99	0.02	0 mm	1	N	0677M	29.3	back	99.7	0.663	0.172	1.002	1.003	0.173	
5690	138	802.11ac	OFDM	80	15.0	14.99	0.02	0 mm	1	N	0677M	29.3	front	99.7	0.773	-	1.002	1.003	-	
5690	138	802.11ac	OFDM	80	15.0	14.99	0.02	0 mm	1	N	0677M	29.3	top	99.7	1.250	0.156	1.002	1.003	0.157	
5690	138	802.11ac	OFDM	80	15.0	14.99	0.02	0 mm	1	N	0677M	29.3	right	99.7	0.191	-	1.002	1.003	-	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak														Phablet 4.0 W/kg (mW/g) averaged over 10 grams						
Uncontrolled Exposure/General Population																				

Note: 5GHZ WLAN SISO was additionally evaluated at the maximum allowed output power during operations with Simultaneous 5GHz WLAN and 5G NR active. 5G NR was not transmitting during the above evaluations

Table 11-94
WLAN MIMO Phablet SAR for Conditions with 5G NR - Open

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.	Chipset Variant	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)	
5310	62	802.11n	OFDM	40	15.0	14.70	15.0	14.76	0.02	0 mm	MIMO	Q	1600S	27	back	99.7	1.110	0.208	1.072	1.003	0.224	
5310	62	802.11n	OFDM	40	15.0	14.70	15.0	14.76	0.01	0 mm	MIMO	Q	1600S	27	front	99.7	0.737	-	1.072	1.003	-	
5310	62	802.11n	OFDM	40	15.0	14.70	15.0	14.76	0.02	0 mm	MIMO	Q	1600S	27	top	99.7	0.750	-	1.072	1.003	-	
5310	62	802.11n	OFDM	40	15.0	14.70	15.0	14.76	0.02	0 mm	MIMO	Q	1600S	27	right	99.7	0.173	-	1.072	1.003	-	
5310	62	802.11n	OFDM	40	15.0	14.70	15.0	14.76	0.03	0 mm	MIMO	Q	1600S	27	left	99.7	1.800	0.219	1.072	1.003	0.235	
5270	54	802.11n	OFDM	40	15.0	14.65	15.0	14.77	0.01	0 mm	MIMO	N	0677M	27	back	99.7	1.490	0.314	1.084	1.003	0.341	
5270	54	802.11n	OFDM	40	15.0	14.65	15.0	14.77	0.02	0 mm	MIMO	N	0677M	27	front	99.7	1.520	-	1.084	1.003	-	
5270	54	802.11n	OFDM	40	15.0	14.65	15.0	14.77	0.02	0 mm	MIMO	N	0677M	27	top	99.7	1.480	-	1.084	1.003	-	
5270	54	802.11n	OFDM	40	15.0	14.65	15.0	14.77	0.02	0 mm	MIMO	N	0677M	27	right	99.7	0.375	-	1.084	1.003	-	
5270	54	802.11n	OFDM	40	15.0	14.65	15.0	14.77	0.02	0 mm	MIMO	N	0677M	27	left	99.7	3.050	0.455	1.084	1.003	0.495	
5610	122	802.11ac	OFDM	80	15.0	14.86	15.0	14.84	0.02	0 mm	MIMO	Q	1600S	58.5	back	99.7	1.640	0.250	1.038	1.003	0.260	
5610	122	802.11ac	OFDM	80	15.0	14.86	15.0	14.84	0.02	0 mm	MIMO	Q	1600S	58.5	front	99.7	1.340	-	1.038	1.003	-	
5610	122	802.11ac	OFDM	80	15.0	14.86	15.0	14.84	0.02	0 mm	MIMO	Q	1600S	58.5	top	99.7	1.010	-	1.038	1.003	-	
5610	122	802.11ac	OFDM	80	15.0	14.86	15.0	14.84	0.02	0 mm	MIMO	Q	1600S	58.5	right	99.7	0.240	-	1.038	1.003	-	
5610	122	802.11ac	OFDM	80	15.0	14.86	15.0	14.84	0.02	0 mm	MIMO	Q	1600S	58.5	left	99.7	2.620	0.325	1.038	1.003	0.338	
5690	138	802.11ac	OFDM	80	15.0	14.29	15.0	14.99	0.02	0 mm	MIMO	N	0677M	58.5	back	99.7	2.260	0.355	1.178	1.003	0.419	
5690	138	802.11ac	OFDM	80	15.0	14.29	15.0	14.99	0.03	0 mm	MIMO	N	0677M	58.5	front	99.7	3.100	-	1.178	1.003	-	
5690	138	802.11ac	OFDM	80	15.0	14.29	15.0	14.99	0.03	0 mm	MIMO	N	0677M	58.5	top	99.7	1.440	-	1.178	1.003	-	
5690	138	802.11ac	OFDM	80	15.0	14.29	15.0	14.99	0.02	0 mm	MIMO	N	0677M	58.5	right	99.7	0.292	-	1.178	1.003	-	
5690	138	802.11ac	OFDM	80	15.0	14.29	15.0	14.99	0.01	0 mm	MIMO	N	0677M	58.5	left	99.7	3.190	0.560	1.178	1.003	0.662	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population										Phablet 4.0 W/kg (mW/g) averaged over 10 grams												

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

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11.5 Standalone Closed Body-Worn SAR Data

Table 11-95
GSM/UMTS/CDMA Body-Worn SAR Data – Closed

MEASUREMENT RESULTS																	
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Tune State	Power Drift [dB]	Position	Spacing	Device Serial Number	# of Time Slots	Duty Cycle	Side	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.													(W/kg)		(W/kg)	
848.31	777	Cell. CDMA	TDSO / SO32	25.0	24.10	0	0.00	Body	15 mm	0747M	N/A	1:1	back	0.378	1.230	0.465	A32
1851.25	25	PCS CDMA	TDSO / SO32	24.0	23.29	19	0.00	Body	15 mm	0765M	N/A	1:1	back	0.230	1.178	0.271	
824.20	128	GSM 850	GSM	33.0	32.00	N/A	-0.06	Body	15 mm	0747M	1	1:8.3	back	0.272	1.259	0.342	A36
1850.20	512	GSM 1900	GSM	30.0	29.25	N/A	0.02	Body	15 mm	0760M	1	1:8.3	back	0.110	1.189	0.131	
836.60	4183	UMTS 850	RMC	25.0	24.49	0	0.00	Body	15 mm	0747M	N/A	1:1	back	0.370	1.125	0.416	A40
1732.40	1412	UMTS 1750	RMC	24.0	23.70	18	-0.03	Body	15 mm	0760M	N/A	1:1	back	0.164	1.072	0.176	
1880.00	9400	UMTS 1900	RMC	24.0	23.82	20	0.01	Body	15 mm	0760M	N/A	1:1	back	0.223	1.042	0.232	
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 11-96
LTE Body-Worn SAR - Closed

MEASUREMENT RESULTS																				
MHz	Ch.		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Tune State	Power Drift [dB]	MPR [dB]	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	(W/kg)	Scaling Factor	(W/kg)	Plot #
680.50	133297	Mid	LTE Band 71	20	25.5	24.11	0	-0.17	0	0847M	QPSK	1	50	15 mm	back	1:1	0.238	1.377	0.328	
680.50	133297	Mid	LTE Band 71	20	24.5	23.26	0	-0.06	1	0847M	QPSK	50	25	15 mm	back	1:1	0.188	1.330	0.250	
707.50	23095	Mid	LTE Band 12	10	25.5	24.25	26	0.13	0	0847M	QPSK	1	25	15 mm	back	1:1	0.244	1.334	0.325	A48
707.50	23095	Mid	LTE Band 12	10	24.5	23.40	26	0.07	1	0847M	QPSK	25	12	15 mm	back	1:1	0.198	1.288	0.255	
782.00	23230	Mid	LTE Band 13	10	25.5	24.27	0	-0.03	0	0847M	QPSK	1	49	15 mm	back	1:1	0.208	1.327	0.276	A50
782.00	23230	Mid	LTE Band 13	10	24.5	23.33	0	-0.19	1	0847M	QPSK	25	0	15 mm	back	1:1	0.151	1.309	0.198	
793.00	23330	Mid	LTE Band 14	10	25.5	24.20	0	-0.07	0	0847M	QPSK	1	0	15 mm	back	1:1	0.210	1.349	0.283	A52
793.00	23330	Mid	LTE Band 14	10	24.5	23.34	0	0.00	1	0847M	QPSK	25	12	15 mm	back	1:1	0.192	1.306	0.251	
831.50	26865	Mid	LTE Band 26 (Cell)	15	25.3	24.00	2	-0.05	0	0829M	QPSK	1	74	15 mm	back	1:1	0.331	1.349	0.447	A54
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.3	23.05	2	0.05	1	0829M	QPSK	36	37	15 mm	back	1:1	0.236	1.334	0.315	
1770.00	132572	High	LTE Band 66 (AWS)	20	25.0	23.91	14	-0.03	0	1916M	QPSK	1	99	15 mm	back	1:1	0.171	1.285	0.220	
1770.00	132572	High	LTE Band 66 (AWS)	20	24.0	23.04	15	0.03	1	1916M	QPSK	50	25	15 mm	back	1:1	0.165	1.247	0.206	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	25.0	24.37	2	0.02	0	0748M	QPSK	1	0	15 mm	back	1:1	0.440	1.156	0.509	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	24.0	23.40	2	0.01	1	0748M	QPSK	50	25	15 mm	back	1:1	0.350	1.148	0.402	
2310.00	27710	Mid	LTE Band 30	10	24.0	23.40	N/A	-0.03	0	0748M	QPSK	1	0	15 mm	back	1:1	0.293	1.148	0.336	
2310.00	27710	Mid	LTE Band 30	10	23.0	22.45	N/A	0.01	1	0748M	QPSK	25	0	15 mm	back	1:1	0.241	1.135	0.274	
2535.00	21100	Mid	LTE Band 7	20	25.0	24.02	N/A	0.00	0	0126M	QPSK	1	0	15 mm	back	1:1	0.353	1.253	0.442	
2535.00	21100	Mid	LTE Band 7	20	24.0	23.08	N/A	0.01	1	0126M	QPSK	50	25	15 mm	back	1:1	0.282	1.236	0.349	
3646.70	56207	Mid-High	LTE Band 48	20	22.5	22.30	N/A	0.01	0	0881M	QPSK	1	50	15 mm	back	1:1.58	0.025	1.047	0.026	
3646.70	56207	Mid-High	LTE Band 48	20	22.5	22.27	N/A	0.01	0	0881M	QPSK	50	25	15 mm	back	1:1.58	0.027	1.054	0.028	
2680.00	41490	High	LTE Band 41	20	25.5	24.54	N/A	0.02	0	0123M	QPSK	1	50	15 mm	back	1:1.58	0.188	1.247	0.234	
2680.00	41490	High	LTE Band 41	20	24.5	23.60	N/A	0.02	1	0123M	QPSK	50	50	15 mm	back	1:1.58	0.150	1.230	0.185	
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 11-97
LTE Band 5 Body-Worn SAR - Closed

MEASUREMENT RESULTS																						
1 CC Uplink 2 CC Uplink	Component Carrier	MHz	Ch.		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Tune State	Power Drift [dB]	MPR [dB]	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	(W/kg)	Scaling Factor	(W/kg)	Plot #
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	25.3	23.67	0	-0.05	0	0122M	QPSK	1	49	15 mm	back	1:1	0.304	1.455	0.442	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	24.3	22.62	0	0.02	1	0122M	QPSK	25	25	15 mm	back	1:1	0.246	1.472	0.362	
2 CC Uplink	PCC	836.50	20525	Mid	LTE Band 5 (Cell)	10	25.3	23.90	0	0.17	0	0122M	QPSK	1	49	15 mm	back	1:1	0.321	1.380	0.443	A56
	SCC	843.70	20597	Mid		5																
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 11-98
NR Body-Worn SAR - Closed

MEASUREMENT RESULTS																						
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Antenna Config	Power Drift [dB]	MPR [dB]	Tune 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	24.19	A	0.00	0	0	0175M	DFT-S-OFDM	QPSK	1	1	15 mm	back	1:1	0.224	1.352	0.303	
680.50	136100	Mid	NR Band n71	20	25.5	24.22	A	-0.05	0	0	0175M	DFT-S-OFDM	QPSK	50	28	15 mm	back	1:1	0.181	1.343	0.243	
680.50	136100	Mid	NR Band n71	20	24.0	23.21	A	-0.17	1.5	0	0175M	CP-OFDM	QPSK	1	1	15 mm	back	1:1	0.136	1.199	0.163	
707.50	141500	Mid	NR Band n12	15	25.5	23.95	A	-0.01	0	26	0177M	DFT-S-OFDM	QPSK	1	1	15 mm	back	1:1	0.143	1.429	0.204	
707.50	141500	Mid	NR Band n12	15	25.5	24.03	A	-0.01	0	26	0177M	DFT-S-OFDM	QPSK	36	22	15 mm	back	1:1	0.166	1.403	0.233	
707.50	141500	Mid	NR Band n12	15	24.0	23.12	A	0.06	1.5	26	0177M	CP-OFDM	QPSK	1	1	15 mm	back	1:1	0.097	1.225	0.119	
836.50	167300	Mid	NR Band n5 (Cell)	20	25.3	23.80	A	0.01	0	0	0183M	DFT-S-OFDM	QPSK	1	53	15 mm	back	1:1	0.350	1.413	0.495	
836.50	167300	Mid	NR Band n5 (Cell)	20	25.3	23.84	A	0.00	0	0	0183M	DFT-S-OFDM	QPSK	50	28	15 mm	back	1:1	0.356	1.400	0.498	A74
836.50	167300	Mid	NR Band n5 (Cell)	20	23.8	22.62	A	0.02	1.5	0	0183M	CP-OFDM	QPSK	1	1	15 mm	back	1:1	0.233	1.312	0.306	
1745.00	349000	Mid	NR Band n66 (AWS)	40	24.5	23.90	A	-0.17	0	14	0218M	DFT-S-OFDM	QPSK	1	214	15 mm	back	1:1	0.244	1.148	0.280	
1745.00	349000	Mid	NR Band n66 (AWS)	40	24.5	23.85	A	-0.10	0	15	0218M	DFT-S-OFDM	QPSK	108	54	15 mm	back	1:1	0.262	1.161	0.304	
1745.00	349000	Mid	NR Band n66 (AWS)	40	23.0	22.22	A	0.00	1.5	14	0218M	CP-OFDM	QPSK	1	1	15 mm	back	1:1	0.220	1.197	0.263	
1745.00	349000	Mid	NR Band n66 (AWS)	40	22.0	21.63	I	0.18	0	N/A	0879M	DFT-S-OFDM	QPSK	1	1	15 mm	back	1:1	0.040	1.089	0.044	
1745.00	349000	Mid	NR Band n66 (AWS)	40	22.0	21.66	I	0.02	0	N/A	0879M	DFT-S-OFDM	QPSK	108	54	15 mm	back	1:1	0.044	1.081	0.048	
1745.00	349000	Mid	NR Band n66 (AWS)	40	22.0	21.62	I	0.02	0	N/A	0879M	CP-OFDM	QPSK	1	1	15 mm	back	1:1	0.030	1.091	0.033	
1882.50	376500	Mid	NR Band n25 (PCS)	40	24.5	23.73	A	0.02	0	2	0195M	DFT-S-OFDM	QPSK	1	214	15 mm	back	1:1	0.348	1.194	0.416	
1882.50	376500	Mid	NR Band n25 (PCS)	40	24.5	23.50	A	0.02	0	2	0195M	DFT-S-OFDM	QPSK	108	54	15 mm	back	1:1	0.327	1.259	0.412	
1882.50	376500	Mid	NR Band n25 (PCS)	40	23.0	22.16	A	0.02	1.5	2	0195M	CP-OFDM	QPSK	1	1	15 mm	back	1:1	0.217	1.213	0.263	
1882.50	376500	Mid	NR Band n25 (PCS)	40	24.5	24.49	I	0.02	0	N/A	0818M	DFT-S-OFDM	QPSK	1	214	15 mm	back	1:1	0.043	1.002	0.043	
1882.50	376500	Mid	NR Band n25 (PCS)	40	24.5	24.35	I	0.02	0	N/A	0818M	DFT-S-OFDM	QPSK	108	54	15 mm	back	1:1	0.048	1.035	0.050	
1882.50	376500	Mid	NR Band n25 (PCS)	40	23.0	22.99	I	0.01	1.5	N/A	0818M	CP-OFDM	QPSK	1	1	15 mm	back	1:1	0.037	1.002	0.037	
2310.00	462000	Mid	NR Band n30	10	23.5	22.73	A	0.00	0	N/A	0181M	DFT-S-OFDM	QPSK	1	26	15 mm	back	1:1	0.302	1.194	0.361	
2310.00	462000	Mid	NR Band n30	10	23.5	22.46	A	0.00	0	N/A	0181M	DFT-S-OFDM	QPSK	25	14	15 mm	back	1:1	0.297	1.271	0.377	
2310.00	462000	Mid	NR Band n30	10	22.0	21.15	A	0.01	1.5	N/A	0181M	CP-OFDM	QPSK	1	1	15 mm	back	1:1	0.185	1.216	0.225	
2592.99	518598	Mid	NR Band n41	100	22.0	21.55	I	0.02	0	N/A	0897M	DFT-S-OFDM	QPSK	1	137	15 mm	back	1:1	0.063	1.109	0.070	
2592.99	518598	Mid	NR Band n41	100	22.0	21.61	I	0.02	0	N/A	0897M	DFT-S-OFDM	QPSK	135	0	15 mm	back	1:1	0.067	1.094	0.073	
2592.99	518598	Mid	NR Band n41	100	22.0	21.05	I	0.02	0	N/A	0897M	CP-OFDM	QPSK	1	1	15 mm	back	1:1	0.070	1.245	0.087	
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 11-99
NR Band n77 DoD Body-Worn SAR - Closed

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	19.5	18.77	Ant F	0.01	0	0831M	DFT-S-OFDM	QPSK	1	137	15 mm	back	1:1	0.014	1.183	0.017	
3500.01	633334	Mid	NR Band n77	100	19.5	18.67	Ant F	0.01	0	0831M	DFT-S-OFDM	QPSK	135	69	15 mm	back	1:1	0.015	1.211	0.018	
3500.01	633334	Mid	NR Band n77	100	19.5	18.66	Ant F	0.01	0	0831M	CP-OFDM	QPSK	1	1	15 mm	back	1:1	0.014	1.213	0.017	
3500.01	633334	Mid	NR Band n77	100	17.5	16.58	Ant I	0.01	0	0831M	DFT-S-OFDM	QPSK	1	137	15 mm	back	1:1	0.011	1.236	0.014	
3500.01	633334	Mid	NR Band n77	100	17.5	16.58	Ant I	0.20	0	0831M	DFT-S-OFDM	QPSK	135	69	15 mm	back	1:1	0.011	1.236	0.014	
3500.01	633334	Mid	NR Band n77	100	17.5	16.39	Ant I	0.02	0	0831M	CP-OFDM	QPSK	1	1	15 mm	back	1:1	0.017	1.291	0.022	
3500.01	633334	Mid	NR Band n77	100	17.5	16.02	Ant E	0.01	0	0831M	DFT-S-OFDM	QPSK	1	137	15 mm	back	1:1	0.042	1.406	0.059	
3500.01	633334	Mid	NR Band n77	100	17.5	16.04	Ant E	0.02	0	0831M	DFT-S-OFDM	QPSK	135	69	15 mm	back	1:1	0.042	1.400	0.059	
3500.01	633334	Mid	NR Band n77	100	17.5	15.96	Ant E	0.01	0	0831M	CP-OFDM	QPSK	1	1	15 mm	back	1:1	0.042	1.426	0.060	
3500.01	633334	Mid	NR Band n77	100	13.5	13.03	Ant C	0.02	0	0831M	DFT-S-OFDM	QPSK	1	1	15 mm	back	1:1	0.065	1.114	0.072	
3500.01	633334	Mid	NR Band n77	100	13.5	12.87	Ant C	0.01	0	0831M	DFT-S-OFDM	QPSK	135	0	15 mm	back	1:1	0.055	1.156	0.064	
3500.01	633334	Mid	NR Band n77	100	13.5	12.96	Ant C	0.02	0	0831M	CP-OFDM	QPSK	1	1	15 mm	back	1:1	0.041	1.132	0.046	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak										Body 1.6 W/kg (mW/g) averaged over 1 gram											
Uncontrolled Exposure/General Population																					

Table 11-100
NR Band n77 Body-Worn SAR - Closed

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	19.5	19.28	Ant F	0.00	0	0831M	DFT-S-OFDM	QPSK	1	137	15 mm	back	1:1	0.030	1.052	0.032	
3930.00	662000	High	NR Band n77	100	19.5	19.19	Ant F	0.00	0	0831M	DFT-S-OFDM	QPSK	135	0	15 mm	back	1:1	0.027	1.074	0.029	
3930.00	662000	High	NR Band n77	100	19.5	19.17	Ant F	0.00	0	0831M	CP-OFDM	QPSK	1	1	15 mm	back	1:1	0.023	1.079	0.025	
3750.00	650000	Low	NR Band n77	100	17.5	16.76	Ant I	0.01	0	0641M	DFT-S-OFDM	QPSK	1	137	15 mm	back	1:1	0.005	1.186	0.006	
3750.00	650000	Low	NR Band n77	100	17.5	16.77	Ant I	0.01	0	0641M	DFT-S-OFDM	QPSK	135	0	15 mm	back	1:1	0.003	1.183	0.004	
3750.00	650000	Low	NR Band n77	100	17.5	16.74	Ant I	0.01	0	0641M	CP-OFDM	QPSK	1	1	15 mm	back	1:1	0.005	1.191	0.006	
3930.00	662000	High	NR Band n77	100	17.5	17.04	Ant E	0.01	0	0641M	DFT-S-OFDM	QPSK	1	137	15 mm	back	1:1	0.018	1.112	0.020	
3930.00	662000	High	NR Band n77	100	17.5	16.93	Ant E	0.01	0	0641M	DFT-S-OFDM	QPSK	135	0	15 mm	back	1:1	0.024	1.140	0.027	
3930.00	662000	High	NR Band n77	100	17.5	16.89	Ant E	0.01	0	0641M	CP-OFDM	QPSK	1	1	15 mm	back	1:1	0.023	1.151	0.026	
3930.00	662000	High	NR Band n77	100	13.5	13.01	Ant C	0.02	0	0831M	DFT-S-OFDM	QPSK	1	137	15 mm	back	1:1	0.040	1.119	0.045	
3930.00	662000	High	NR Band n77	100	13.5	13.00	Ant C	0.01	0	0831M	DFT-S-OFDM	QPSK	135	0	15 mm	back	1:1	0.065	1.122	0.073	
3930.00	662000	High	NR Band n77	100	13.5	12.86	Ant C	0.02	0	0831M	CP-OFDM	QPSK	1	1	15 mm	back	1:1	0.056	1.159	0.065	
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 11-101
DTS Body-Worn SAR - Closed

MEASUREMENT RESULTS																				
FREQUENCY		Mode	Service	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Chipset Variant	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	18.95	0.01	15 mm	2	Q	1598S	1	back	99.9	0.024	0.019	1.012	1.001	0.019	
2437	6	802.11b	DSSS	22	19.0	18.85	0.00	15 mm	2	N	0115S	1	back	99.9	0.020	0.016	1.035	1.001	0.017	
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 11-102
DTS MIMO Body-Worn SAR - Closed

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.	Chipset Variant	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	18.96	19.0	18.95	0.01	15 mm	MIMO	Q	1598S	1	back	99.9	0.084	0.069	1.012	1.001	0.070	
2437	6	802.11b	DSSS	22	19.0	18.66	19.0	18.97	0.00	15 mm	MIMO	N	0115S	1	back	99.9	0.085	0.067	1.081	1.001	0.072	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT										Body												
Spatial Peak										1.6 W/kg (mW/g)												
Uncontrolled Exposure/General Population										averaged over 1 gram												

Note: 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.

Table 11-103
NII SISO Body-Worn SAR - Closed

MEASUREMENT RESULTS																				
FREQUENCY		Mode	Service	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Chipset Variant	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)	(Power)	(Duty Cycle)	(W/kg)	
5300	60	802.11a	OFDM	20	18.0	17.80	0.00	15 mm	1	Q	1600S	6	back	98.9	0.008	0.000	1.047	1.011	0.000	
5320	64	802.11a	OFDM	20	18.0	17.99	0.01	15 mm	1	N	0677M	6	back	98.9	0.001	0.000	1.002	1.011	0.000	
5600	120	802.11a	OFDM	20	18.0	17.80	0.01	15 mm	1	Q	1600S	6	back	98.9	0.003	0.000	1.047	1.011	0.000	
5720	144	802.11a	OFDM	20	18.0	17.99	0.00	15 mm	1	N	0677M	6	back	98.9	0.006	0.000	1.002	1.011	0.000	
5785	157	802.11a	OFDM	20	18.0	17.84	0.01	15 mm	1	Q	1600S	6	back	98.9	0.021	0.001	1.038	1.011	0.001	
5825	165	802.11a	OFDM	20	18.0	17.96	0.00	15 mm	1	N	0677M	6	back	98.9	0.042	0.000	1.009	1.011	0.000	
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 11-104
NII MIMO Body-Worn SAR - Closed

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.	Chipset Variant	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)	
5300	60	802.11n	OFDM	20	18.0	17.65	18.0	17.81	0.00	15 mm	MIMO	Q	1600S	13	back	99.7	0.021	0.000	1.084	1.003	0.000	
5300	60	802.11n	OFDM	20	18.0	17.96	18.0	17.83	0.02	15 mm	MIMO	N	0677M	13	back	99.8	0.020	0.010	1.040	1.002	0.010	
5720	144	802.11n	OFDM	20	18.0	17.59	18.0	17.79	0.01	15 mm	MIMO	Q	1600S	13	back	99.7	0.015	0.003	1.099	1.003	0.003	
5620	124	802.11n	OFDM	20	18.0	17.99	18.0	17.91	0.01	15 mm	MIMO	N	0677M	13	back	99.8	0.026	0.007	1.021	1.002	0.007	
5785	157	802.11n	OFDM	20	18.0	17.67	18.0	17.92	0.00	15 mm	MIMO	Q	1600S	13	back	99.7	0.017	0.012	1.079	1.003	0.013	
5745	149	802.11n	OFDM	20	18.0	17.98	18.0	17.73	0.02	15 mm	MIMO	N	0677M	13	back	99.8	0.016	0.007	1.064	1.002	0.007	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT											Body											
Spatial Peak											1.6 W/kg (mW/g)											
Uncontrolled Exposure/General Population											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 11-105
DSS Body-Worn SAR – Closed

MEASUREMENT RESULTS																		
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Chipset Variant	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	16.0	15.43	0.00	15 mm	1	Q	2044M	1	back	76.80	0.012	1.140	1.302	0.018	
2441	39	Bluetooth	FHSS	17.0	16.61	0.00	15 mm	2	Q	2044M	1	back	76.80	0.009	1.094	1.302	0.013	
2441	39	Bluetooth	FHSS	16.0	15.55	0.09	15 mm	1	N	0694M	1	back	76.80	0.009	1.109	1.302	0.013	
2480	78	Bluetooth	FHSS	17.0	16.60	0.00	15 mm	2	N	0694M	1	back	76.80	0.009	1.096	1.302	0.013	
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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11.6 Standalone Closed Hotspot SAR Data

Table 11-106
GPRS/UMTS/CDMA Hotspot SAR Data - Closed

MEASUREMENT RESULTS																	
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Tune State	Power Drift [dB]	Spacing	Device Serial Number	# of Time Slots	Duty Cycle	Side	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.												(W/kg)		(W/kg)		
824.70	1013	Cell. CDMA	EVDO Rev. 0	24.0	23.01	0	0.00	5mm	0747M	N/A	1:1	back	0.665	1.256	0.835	A33	
836.52	384	Cell. CDMA	EVDO Rev. 0	24.0	22.96	0	0.03	5mm	0747M	N/A	1:1	back	0.847	1.271	1.077		
848.31	777	Cell. CDMA	EVDO Rev. 0	24.0	22.95	0	0.06	5mm	0747M	N/A	1:1	back	0.719	1.274	0.916		
824.70	1013	Cell. CDMA	EVDO Rev. 0	24.0	23.01	0	0.05	5mm	0747M	N/A	1:1	front	0.141	1.256	0.177		
824.70	1013	Cell. CDMA	EVDO Rev. 0	24.0	23.01	109	0.00	5mm	0747M	N/A	1:1	bottom	0.202	1.256	0.254		
824.70	1013	Cell. CDMA	EVDO Rev. 0	24.0	23.01	3	0.04	5mm	0747M	N/A	1:1	right	0.084	1.256	0.106		
824.70	1013	Cell. CDMA	EVDO Rev. 0	24.0	23.01	0	0.00	5mm	0747M	N/A	1:1	left	0.121	1.256	0.152		
836.52	384	Cell. CDMA	EVDO Rev. 0	24.0	22.96	0	0.10	5mm	0747M	N/A	1:1	back	0.800	1.271	1.017		
1880.00	600	PCS CDMA	EVDO Rev. 0	19.0	18.29	23	-0.02	5 mm	0769M	N/A	1:1	back	0.470	1.178	0.554		A35
1880.00	600	PCS CDMA	EVDO Rev. 0	19.0	18.29	2	0.04	5 mm	0769M	N/A	1:1	front	0.134	1.178	0.158		
1851.25	25	PCS CDMA	EVDO Rev. 0	19.0	18.28	20	-0.09	5 mm	0769M	N/A	1:1	bottom	0.878	1.180	1.036		
1880.00	600	PCS CDMA	EVDO Rev. 0	19.0	18.29	2	-0.11	5 mm	0769M	N/A	1:1	bottom	0.880	1.178	1.037		
1908.75	1175	PCS CDMA	EVDO Rev. 0	19.0	18.15	8	-0.01	5 mm	0769M	N/A	1:1	bottom	0.769	1.216	0.935		
1880.00	600	PCS CDMA	EVDO Rev. 0	19.0	18.29	9	0.01	5 mm	0769M	N/A	1:1	right	0.029	1.178	0.034		
1880.00	600	PCS CDMA	EVDO Rev. 0	19.0	18.29	0	0.00	5 mm	0769M	N/A	1:1	left	0.080	1.178	0.094		
836.60	190	GSM 850	GPRS	26.0	24.24	N/A	-0.02	5 mm	0747M	4	1:2.076	back	0.365	1.500	0.548		A37
836.60	190	GSM 850	GPRS	26.0	24.24	N/A	0.07	5 mm	0747M	4	1:2.076	front	0.094	1.500	0.141		
836.60	190	GSM 850	GPRS	26.0	24.24	N/A	-0.17	5 mm	0747M	4	1:2.076	bottom	0.095	1.500	0.143		
836.60	190	GSM 850	GPRS	26.0	24.24	N/A	-0.16	5 mm	0747M	4	1:2.076	right	0.072	1.500	0.108		
836.60	190	GSM 850	GPRS	26.0	24.24	N/A	0.07	5 mm	0747M	4	1:2.076	left	0.082	1.500	0.123		
1909.80	810	GSM 1900	GPRS	23.0	22.34	N/A	0.01	5 mm	0769M	4	1:2.076	back	0.619	1.164	0.721		
1909.80	810	GSM 1900	GPRS	23.0	22.34	N/A	0.01	5 mm	0769M	4	1:2.076	front	0.121	1.164	0.141		
1850.20	512	GSM 1900	GPRS	23.0	22.31	N/A	0.00	5 mm	0769M	4	1:2.076	bottom	0.875	1.172	1.026		
1880.00	661	GSM 1900	GPRS	23.0	22.00	N/A	0.13	5 mm	0769M	4	1:2.076	bottom	0.899	1.259	1.132		
1909.80	810	GSM 1900	GPRS	23.0	22.34	N/A	0.04	5 mm	0769M	4	1:2.076	bottom	0.908	1.164	1.057		A39
1909.80	810	GSM 1900	GPRS	23.0	22.34	N/A	0.12	5 mm	0769M	4	1:2.076	right	0.032	1.164	0.037		
1909.80	810	GSM 1900	GPRS	23.0	22.34	N/A	0.13	5 mm	0769M	4	1:2.076	left	0.072	1.164	0.084		
826.40	4132	UMTS 850	RMC	24.0	23.00	0	-0.13	5 mm	0747M	N/A	1:1	back	0.808	1.259	1.017		
836.60	4183	UMTS 850	RMC	24.0	22.99	0	0.09	5 mm	0747M	N/A	1:1	back	0.812	1.262	1.025		
846.60	4233	UMTS 850	RMC	24.0	22.92	0	-0.07	5 mm	0747M	N/A	1:1	back	0.756	1.282	0.969		
826.40	4132	UMTS 850	RMC	24.0	23.00	0	0.01	5 mm	0747M	N/A	1:1	front	0.199	1.259	0.251		
826.40	4132	UMTS 850	RMC	24.0	23.00	109	0.00	5 mm	0747M	N/A	1:1	bottom	0.165	1.259	0.208		
826.40	4132	UMTS 850	RMC	24.0	23.00	0	0.07	5 mm	0747M	N/A	1:1	right	0.102	1.259	0.128		
826.40	4132	UMTS 850	RMC	24.0	23.00	0	0.06	5 mm	0747M	N/A	1:1	left	0.135	1.259	0.170		
1732.40	1412	UMTS 1750	RMC	19.0	18.45	2	0.03	5 mm	0760M	N/A	1:1	back	0.631	1.135	0.716		
1732.40	1412	UMTS 1750	RMC	19.0	18.45	0	-0.08	5 mm	0760M	N/A	1:1	front	0.191	1.135	0.217		
1712.40	1312	UMTS 1750	RMC	19.0	18.40	1	-0.01	5 mm	0760M	N/A	1:1	bottom	1.010	1.148	1.159		A43
1732.40	1412	UMTS 1750	RMC	19.0	18.45	116	-0.05	5 mm	0760M	N/A	1:1	bottom	0.906	1.135	1.028		
1752.60	1513	UMTS 1750	RMC	19.0	18.38	0	-0.07	5 mm	0760M	N/A	1:1	bottom	0.894	1.153	1.031		
1732.40	1412	UMTS 1750	RMC	19.0	18.45	18	0.00	5 mm	0760M	N/A	1:1	right	0.041	1.135	0.047		
1732.40	1412	UMTS 1750	RMC	19.0	18.45	0	0.10	5 mm	0760M	N/A	1:1	left	0.129	1.135	0.146		
1852.40	9262	UMTS 1900	RMC	19.0	18.01	20	0.16	5 mm	0760M	N/A	1:1	back	0.521	1.256	0.654		
1852.40	9262	UMTS 1900	RMC	19.0	18.01	20	0.04	5 mm	0760M	N/A	1:1	front	0.100	1.256	0.126		
1852.40	9262	UMTS 1900	RMC	19.0	18.01	73	-0.02	5 mm	0760M	N/A	1:1	bottom	0.651	1.256	0.818		
1880.00	9400	UMTS 1900	RMC	19.0	17.95	19	0.03	5 mm	0760M	N/A	1:1	bottom	0.749	1.274	0.954		
1907.60	9538	UMTS 1900	RMC	19.0	18.00	19	0.07	5 mm	0760M	N/A	1:1	bottom	0.798	1.259	1.005		A45
1852.40	9262	UMTS 1900	RMC	19.0	18.01	14	0.03	5 mm	0760M	N/A	1:1	right	0.039	1.256	0.049		
1852.40	9262	UMTS 1900	RMC	19.0	18.01	20	0.03	5 mm	0760M	N/A	1:1	left	0.077	1.256	0.097		
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: Blue Entry represents variability measurement.

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Table 11-107
LTE Band 71 Hotspot SAR - Closed

MEASUREMENT RESULTS																				
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Tune State	Power Drift [dB]	MPR [dB]	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	24.0	22.73	0	-0.02	0	0847M	QPSK	1	50	5 mm	back	1:1	0.482	1.340	0.646	A47
680.50	133297	Mid	LTE Band 71	20	24.0	22.78	0	0.00	0	0847M	QPSK	50	25	5 mm	back	1:1	0.494	1.324	0.654	
680.50	133297	Mid	LTE Band 71	20	24.0	22.73	0	0.04	0	0847M	QPSK	1	50	5 mm	front	1:1	0.151	1.340	0.202	
680.50	133297	Mid	LTE Band 71	20	24.0	22.78	0	0.02	0	0847M	QPSK	50	25	5 mm	front	1:1	0.155	1.324	0.205	
680.50	133297	Mid	LTE Band 71	20	24.0	22.73	0	-0.02	0	0847M	QPSK	1	50	5 mm	bottom	1:1	0.110	1.340	0.147	
680.50	133297	Mid	LTE Band 71	20	24.0	22.78	0	-0.16	0	0847M	QPSK	50	25	5 mm	bottom	1:1	0.111	1.324	0.147	
680.50	133297	Mid	LTE Band 71	20	24.0	22.73	0	0.16	0	0847M	QPSK	1	50	5 mm	right	1:1	0.058	1.340	0.078	
680.50	133297	Mid	LTE Band 71	20	24.0	22.78	0	0.09	0	0847M	QPSK	50	25	5 mm	right	1:1	0.059	1.324	0.078	
680.50	133297	Mid	LTE Band 71	20	24.0	22.73	0	0.11	0	0847M	QPSK	1	50	5 mm	left	1:1	0.150	1.340	0.201	
680.50	133297	Mid	LTE Band 71	20	24.0	22.78	0	0.13	0	0847M	QPSK	50	25	5 mm	left	1:1	0.154	1.324	0.204	
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 11-108
LTE Band 12 Hotspot SAR - Closed

MEASUREMENT RESULTS																				
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Tune State	Power Drift [dB]	MPR [dB]	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	24.0	22.78	0	0.01	0	0847M	QPSK	1	25	5 mm	back	1:1	0.555	1.324	0.735	A49
707.50	23095	Mid	LTE Band 12	10	24.0	22.85	0	0.00	0	0847M	QPSK	25	12	5 mm	back	1:1	0.568	1.303	0.740	
707.50	23095	Mid	LTE Band 12	10	24.0	22.78	0	0.02	0	0847M	QPSK	1	25	5 mm	front	1:1	0.145	1.324	0.192	
707.50	23095	Mid	LTE Band 12	10	24.0	22.85	0	-0.04	0	0847M	QPSK	25	12	5 mm	front	1:1	0.150	1.303	0.195	
707.50	23095	Mid	LTE Band 12	10	24.0	22.78	0	-0.02	0	0847M	QPSK	1	25	5 mm	bottom	1:1	0.110	1.324	0.146	
707.50	23095	Mid	LTE Band 12	10	24.0	22.85	0	-0.02	0	0847M	QPSK	25	12	5 mm	bottom	1:1	0.114	1.303	0.149	
707.50	23095	Mid	LTE Band 12	10	24.0	22.78	0	0.10	0	0847M	QPSK	1	25	5 mm	right	1:1	0.098	1.324	0.130	
707.50	23095	Mid	LTE Band 12	10	24.0	22.85	0	0.08	0	0847M	QPSK	25	12	5 mm	right	1:1	0.096	1.303	0.125	
707.50	23095	Mid	LTE Band 12	10	24.0	22.78	0	0.10	0	0847M	QPSK	1	25	5 mm	left	1:1	0.186	1.324	0.246	
707.50	23095	Mid	LTE Band 12	10	24.0	22.85	0	0.10	0	0847M	QPSK	25	12	5 mm	left	1:1	0.191	1.303	0.249	
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 11-109
LTE Band 13 Hotspot SAR – Closed

MEASUREMENT RESULTS																				
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Tune State	Power Drift [dB]	MPR [dB]	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	24.0	22.84	0	-0.14	0	0847M	QPSK	1	49	5 mm	back	1:1	0.561	1.306	0.733	A51
782.00	23230	Mid	LTE Band 13	10	24.0	22.89	0	-0.10	0	0847M	QPSK	25	12	5 mm	back	1:1	0.552	1.291	0.713	
782.00	23230	Mid	LTE Band 13	10	24.0	22.84	0	-0.05	0	0847M	QPSK	1	49	5 mm	front	1:1	0.075	1.306	0.098	
782.00	23230	Mid	LTE Band 13	10	24.0	22.89	0	-0.09	0	0847M	QPSK	25	12	5 mm	front	1:1	0.079	1.291	0.102	
782.00	23230	Mid	LTE Band 13	10	24.0	22.84	0	0.11	0	0847M	QPSK	1	49	5 mm	bottom	1:1	0.163	1.306	0.213	
782.00	23230	Mid	LTE Band 13	10	24.0	22.89	0	0.11	0	0847M	QPSK	25	12	5 mm	bottom	1:1	0.166	1.291	0.214	
782.00	23230	Mid	LTE Band 13	10	24.0	22.84	0	0.04	0	0847M	QPSK	1	49	5 mm	right	1:1	0.090	1.306	0.118	
782.00	23230	Mid	LTE Band 13	10	24.0	22.89	0	0.15	0	0847M	QPSK	25	12	5 mm	right	1:1	0.102	1.291	0.132	
782.00	23230	Mid	LTE Band 13	10	24.0	22.84	0	0.06	0	0847M	QPSK	1	49	5 mm	left	1:1	0.115	1.306	0.150	
782.00	23230	Mid	LTE Band 13	10	24.0	22.89	0	0.11	0	0847M	QPSK	25	12	5 mm	left	1:1	0.106	1.291	0.137	
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 11-110
LTE Band 14 Hotspot SAR – Closed

MEASUREMENT RESULTS																				
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Tune State	Power Drift [dB]	MPR [dB]	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	24.0	22.84	0	-0.18	0	0847M	QPSK	1	25	5 mm	back	1:1	0.646	1.306	0.844	
793.00	23330	Mid	LTE Band 14	10	24.0	22.89	0	-0.02	0	0847M	QPSK	25	12	5 mm	back	1:1	0.663	1.291	0.856	A53
793.00	23330	Mid	LTE Band 14	10	24.0	22.80	0	-0.17	0	0847M	QPSK	50	0	5 mm	back	1:1	0.645	1.318	0.850	
793.00	23330	Mid	LTE Band 14	10	24.0	22.84	0	-0.01	0	0847M	QPSK	1	25	5 mm	front	1:1	0.081	1.306	0.106	
793.00	23330	Mid	LTE Band 14	10	24.0	22.89	0	-0.01	0	0847M	QPSK	25	12	5 mm	front	1:1	0.081	1.291	0.105	
793.00	23330	Mid	LTE Band 14	10	24.0	22.84	0	-0.09	0	0847M	QPSK	1	25	5 mm	bottom	1:1	0.217	1.306	0.283	
793.00	23330	Mid	LTE Band 14	10	24.0	22.89	0	-0.03	0	0847M	QPSK	25	12	5 mm	bottom	1:1	0.218	1.291	0.281	
793.00	23330	Mid	LTE Band 14	10	24.0	22.84	0	0.16	0	0847M	QPSK	1	25	5 mm	right	1:1	0.094	1.306	0.123	
793.00	23330	Mid	LTE Band 14	10	24.0	22.89	0	0.01	0	0847M	QPSK	25	12	5 mm	right	1:1	0.091	1.291	0.117	
793.00	23330	Mid	LTE Band 14	10	24.0	22.84	0	0.16	0	0847M	QPSK	1	25	5 mm	left	1:1	0.133	1.306	0.174	
793.00	23330	Mid	LTE Band 14	10	24.0	22.89	0	0.12	0	0847M	QPSK	25	12	5 mm	left	1:1	0.134	1.291	0.173	
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 11-111
LTE Band 26 (Cell) Hotspot SAR - Closed

MEASUREMENT RESULTS																				
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Tune State	Power Drift [dB]	MPR [dB]	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	24.0	23.06	0	-0.14	0	0829M	QPSK	1	74	5 mm	back	1:1	0.595	1.242	0.739	A55
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.0	23.04	0	-0.12	0	0829M	QPSK	36	37	5 mm	back	1:1	0.574	1.247	0.716	
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.0	23.06	0	-0.02	0	0829M	QPSK	1	74	5 mm	front	1:1	0.109	1.242	0.135	
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.0	23.04	0	0.19	0	0829M	QPSK	36	37	5 mm	front	1:1	0.100	1.247	0.125	
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.0	23.06	109	0.02	0	0829M	QPSK	1	74	5 mm	bottom	1:1	0.142	1.242	0.176	
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.0	23.04	109	0.02	0	0829M	QPSK	36	37	5 mm	bottom	1:1	0.137	1.247	0.171	
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.0	23.06	3	0.17	0	0829M	QPSK	1	74	5 mm	right	1:1	0.086	1.242	0.107	
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.0	23.04	3	-0.08	0	0829M	QPSK	36	37	5 mm	right	1:1	0.084	1.247	0.105	
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.0	23.06	0	0.16	0	0829M	QPSK	1	74	5 mm	left	1:1	0.158	1.242	0.196	
831.50	26865	Mid	LTE Band 26 (Cell)	15	24.0	23.04	0	0.19	0	0829M	QPSK	36	37	5 mm	left	1:1	0.148	1.247	0.185	
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 11-112
LTE Band 5 (Cell) Hotspot SAR - Closed

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]	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	24.0	22.82	0	-0.01	0	0122M	QPSK	1	49	5 mm	back	1:1	0.677	1.312	0.888	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	24.0	23.00	0	0.02	0	0122M	QPSK	25	25	5 mm	back	1:1	0.697	1.259	0.878	A57
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	24.0	22.80	0	0.03	0	0122M	QPSK	50	0	5 mm	back	1:1	0.606	1.318	0.799	
2 CC Uplink	PCC	836.50	20525	Mid	LTE Band 5 (Cell)	10	24.0	22.75	0	-0.03	0	0122M	QPSK	1	49	5 mm	back	1:1	0.658	1.334	0.878	
	SCC	843.70	20597			5									0							
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	24.0	22.82	0	0.15	0	0122M	QPSK	1	49	5 mm	front	1:1	0.114	1.312	0.150	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	24.0	23.00	0	0.10	0	0122M	QPSK	25	25	5 mm	front	1:1	0.114	1.259	0.144	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	24.0	22.82	0	-0.02	0	0122M	QPSK	1	49	5 mm	bottom	1:1	0.173	1.312	0.227	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	24.0	23.00	0	-0.14	0	0122M	QPSK	25	25	5 mm	bottom	1:1	0.160	1.259	0.201	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	24.0	22.82	0	-0.05	0	0122M	QPSK	1	49	5 mm	right	1:1	0.085	1.312	0.112	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	24.0	23.00	0	0.04	0	0122M	QPSK	25	25	5 mm	right	1:1	0.093	1.259	0.117	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	24.0	22.82	0	0.01	0	0122M	QPSK	1	49	5 mm	left	1:1	0.091	1.312	0.119	
1 CC Uplink	N/A	836.50	20525	Mid	LTE Band 5 (Cell)	10	24.0	23.00	0	0.05	0	0122M	QPSK	25	25	5 mm	left	1:1	0.092	1.259	0.116	
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 11-113
LTE Band 66 (AWS) Hotspot SAR - Closed

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]	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	1770.00	132572	High	LTE Band 66 (AWS)	20	19.0	18.43	0	0.03	0	1916M	QPSK	1	99	5 mm	back	1:1	0.593	1.140	0.676	
1 CC Uplink	N/A	1770.00	132572	High	LTE Band 66 (AWS)	20	19.0	18.57	0	0.02	0	1916M	QPSK	50	25	5 mm	back	1:1	0.659	1.104	0.728	
1 CC Uplink	N/A	1770.00	132572	High	LTE Band 66 (AWS)	20	19.0	18.43	59	0.09	0	1916M	QPSK	1	99	5 mm	front	1:1	0.198	1.140	0.226	
1 CC Uplink	N/A	1770.00	132572	High	LTE Band 66 (AWS)	20	19.0	18.57	116	-0.15	0	1916M	QPSK	50	25	5 mm	front	1:1	0.206	1.104	0.227	
1 CC Uplink	N/A	1770.00	132572	High	LTE Band 66 (AWS)	20	19.0	18.43	62	-0.04	0	1916M	QPSK	1	99	5 mm	bottom	1:1	0.637	1.140	0.726	
1 CC Uplink	N/A	1720.00	132072	Low	LTE Band 66 (AWS)	20	19.0	18.39	9	-0.05	0	1916M	QPSK	50	25	5 mm	bottom	1:1	0.863	1.151	0.993	
1 CC Uplink	N/A	1745.00	132322	Mid	LTE Band 66 (AWS)	20	19.0	18.45	0	-0.16	0	1916M	QPSK	50	50	5 mm	bottom	1:1	0.976	1.135	1.108	
1 CC Uplink	N/A	1770.00	132572	High	LTE Band 66 (AWS)	20	19.0	18.57	62	-0.04	0	1916M	QPSK	50	25	5 mm	bottom	1:1	0.668	1.104	0.737	
1 CC Uplink	N/A	1770.00	132572	High	LTE Band 66 (AWS)	20	19.0	18.40	59	-0.18	0	1916M	QPSK	100	0	5 mm	bottom	1:1	0.787	1.148	0.903	
1 CC Uplink	N/A	1745.00	132322	Mid	LTE Band 66 (AWS)	10	19.0	18.35	0	0.01	0	1916M	QPSK	25	25	5 mm	bottom	1:1	1.000	1.161	1.161	A59
2 CC Uplink CA_66C	PCC	1745.00	132322	Mid	LTE Band 66 (AWS)	20	19.0	18.25	8	0.06	0	1916M	QPSK	50	50	5 mm	bottom	1:1	0.888	1.189	1.056	
	SCC	1764.80	132520												0							
2 CC Uplink CA_66B	PCC	1745.00	132322	Mid	LTE Band 66 (AWS)	10	19.0	18.30	0	-0.04	0	1916M	QPSK	25	25	5 mm	bottom	1:1	0.979	1.175	1.150	
	SCC	1754.90	132421												0							
1 CC Uplink	N/A	1770.00	132572	High	LTE Band 66 (AWS)	20	19.0	18.43	59	0.01	0	1916M	QPSK	1	99	5 mm	right	1:1	0.024	1.140	0.027	
1 CC Uplink	N/A	1770.00	132572	High	LTE Band 66 (AWS)	20	19.0	18.57	59	0.01	0	1916M	QPSK	50	25	5 mm	right	1:1	0.030	1.104	0.033	
1 CC Uplink	N/A	1770.00	132572	High	LTE Band 66 (AWS)	20	19.0	18.43	59	0.04	0	1916M	QPSK	1	99	5 mm	left	1:1	0.169	1.140	0.193	
1 CC Uplink	N/A	1770.00	132572	High	LTE Band 66 (AWS)	20	19.0	18.57	59	0.03	0	1916M	QPSK	50	25	5 mm	left	1:1	0.169	1.104	0.187	
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 11-114
LTE Band 25 (PCS) Hotspot SAR - Closed

MEASUREMENT RESULTS																				
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Tune State	Power Drift [dB]	MPR [dB]	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)		
1882.50	26365	Mid	LTE Band 25 (PCS)	20	19.0	18.45	2	0.01	0	0748M	QPSK	1	99	5 mm	back	1:1	0.562	1.135	0.638	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	19.0	18.48	2	-0.02	0	0748M	QPSK	50	25	5 mm	back	1:1	0.589	1.127	0.664	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	19.0	18.45	8	0.03	0	0748M	QPSK	1	99	5 mm	front	1:1	0.192	1.135	0.218	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	19.0	18.48	8	-0.01	0	0748M	QPSK	50	25	5 mm	front	1:1	0.177	1.127	0.199	
1860.00	26140	Low	LTE Band 25 (PCS)	20	19.0	18.09	9	-0.06	0	0748M	QPSK	1	99	5 mm	bottom	1:1	0.830	1.233	1.023	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	19.0	18.45	8	-0.01	0	0748M	QPSK	1	99	5 mm	bottom	1:1	0.954	1.135	1.083	
1905.00	26590	High	LTE Band 25 (PCS)	20	19.0	17.77	9	-0.01	0	0748M	QPSK	1	0	5 mm	bottom	1:1	0.874	1.327	1.160	
1860.00	26140	Low	LTE Band 25 (PCS)	20	19.0	18.07	9	-0.04	0	0748M	QPSK	50	50	5 mm	bottom	1:1	0.836	1.239	1.036	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	19.0	18.48	8	-0.01	0	0748M	QPSK	50	25	5 mm	bottom	1:1	1.030	1.127	1.161	A61
1905.00	26590	High	LTE Band 25 (PCS)	20	19.0	17.95	9	-0.09	0	0748M	QPSK	50	0	5 mm	bottom	1:1	0.906	1.274	1.154	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	18.0	18.05	8	-0.02	0	0748M	QPSK	100	0	5 mm	bottom	1:1	0.947	0.989	0.937	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	19.0	18.45	8	0.02	0	0748M	QPSK	1	99	5 mm	right	1:1	0.030	1.135	0.034	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	19.0	18.48	8	-0.06	0	0748M	QPSK	50	25	5 mm	right	1:1	0.036	1.127	0.041	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	19.0	18.45	10	0.12	0	0748M	QPSK	1	99	5 mm	left	1:1	0.088	1.135	0.100	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	19.0	18.48	10	0.21	0	0748M	QPSK	50	25	5 mm	left	1:1	0.094	1.127	0.106	
1882.50	26365	Mid	LTE Band 25 (PCS)	20	19.0	18.48	8	0.01	0	0748M	QPSK	50	25	5 mm	bottom	1:1	0.988	1.127	1.113	
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: Blue Entry represents variability measurement.

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Table 11-115
LTE Band 30 Hotspot SAR – Closed

MEASUREMENT RESULTS																		
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Device Serial Number	Modulation	RB Size	RB Offset	Spacing	Side	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
Ch.															(W/kg)		(W/kg)	
27710	Mid	LTE Band 30	10	18.5	17.95	0.01	0	0748M	QPSK	1	0	5 mm	back	1:1	0.564	1.135	0.640	
27710	Mid	LTE Band 30	10	18.5	18.00	0.01	0	0748M	QPSK	25	12	5 mm	back	1:1	0.565	1.122	0.634	
27710	Mid	LTE Band 30	10	18.5	17.95	0.01	0	0748M	QPSK	1	0	5 mm	front	1:1	0.038	1.135	0.043	
27710	Mid	LTE Band 30	10	18.5	18.00	0.01	0	0748M	QPSK	25	12	5 mm	front	1:1	0.038	1.122	0.043	
27710	Mid	LTE Band 30	10	18.5	17.95	-0.04	0	0748M	QPSK	1	0	5 mm	bottom	1:1	0.834	1.135	0.947	
27710	Mid	LTE Band 30	10	18.5	18.00	-0.03	0	0748M	QPSK	25	12	5 mm	bottom	1:1	0.837	1.122	0.939	A63
27710	Mid	LTE Band 30	10	18.5	17.82	0.01	0	0748M	QPSK	50	0	5 mm	bottom	1:1	0.825	1.169	0.964	
27710	Mid	LTE Band 30	10	18.5	17.95	0.01	0	0748M	QPSK	1	0	5 mm	right	1:1	0.026	1.135	0.030	
27710	Mid	LTE Band 30	10	18.5	18.00	0.01	0	0748M	QPSK	25	12	5 mm	right	1:1	0.025	1.122	0.028	
27710	Mid	LTE Band 30	10	18.5	17.95	0.01	0	0748M	QPSK	1	0	5 mm	left	1:1	0.048	1.135	0.054	
27710	Mid	LTE Band 30	10	18.5	18.00	0.01	0	0748M	QPSK	25	12	5 mm	left	1:1	0.048	1.122	0.054	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT							Body 1.6 W/kg (mW/g) averaged over 1 gram											
Spatial Peak Uncontrolled Exposure/General Population																		

Table 11-116
LTE Band 7 Hotspot SAR - Closed

MEASUREMENT RESULTS																			
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	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)		
2560.00	21350	High	LTE Band 7	20	18.5	18.34	0.00	0	0126M	QPSK	1	0	5 mm	back	1:1	0.280	1.038	0.291	
2560.00	21350	High	LTE Band 7	20	18.5	18.35	0.01	0	0126M	QPSK	50	25	5 mm	back	1:1	0.294	1.035	0.304	
2560.00	21350	High	LTE Band 7	20	18.5	18.34	0.00	0	0126M	QPSK	1	0	5 mm	front	1:1	0.078	1.038	0.081	
2560.00	21350	High	LTE Band 7	20	18.5	18.35	0.00	0	0126M	QPSK	50	25	5 mm	front	1:1	0.057	1.035	0.059	
2510.00	20850	Low	LTE Band 7	20	18.5	18.23	0.00	0	0126M	QPSK	1	99	5 mm	bottom	1:1	1.030	1.064	1.096	
2535.00	21100	Mid	LTE Band 7	20	18.5	17.98	0.00	0	0126M	QPSK	1	0	5 mm	bottom	1:1	0.920	1.127	1.037	
2560.00	21350	High	LTE Band 7	20	18.5	18.34	0.00	0	0126M	QPSK	1	0	5 mm	bottom	1:1	0.654	1.038	0.679	
2510.00	20850	Low	LTE Band 7	20	18.5	18.34	0.02	0	0126M	QPSK	50	25	5 mm	bottom	1:1	1.070	1.038	1.111	A65
2535.00	21100	Mid	LTE Band 7	20	18.5	18.10	0.01	0	0126M	QPSK	50	25	5 mm	bottom	1:1	0.964	1.096	1.057	
2560.00	21350	High	LTE Band 7	20	18.5	18.35	0.00	0	0126M	QPSK	50	25	5 mm	bottom	1:1	0.676	1.035	0.700	
2510.00	20850	Low	LTE Band 7	20	18.5	18.13	0.01	0	0126M	QPSK	100	0	5 mm	bottom	1:1	1.020	1.089	1.111	
2560.00	21350	High	LTE Band 7	20	18.5	18.34	0.00	0	0126M	QPSK	1	0	5 mm	left	1:1	0.156	1.038	0.162	
2560.00	21350	High	LTE Band 7	20	18.5	18.35	0.00	0	0126M	QPSK	50	25	5 mm	left	1:1	0.152	1.035	0.157	
2510.00	20850	Low	LTE Band 7	20	18.5	18.34	0.10	0	0126M	QPSK	50	25	5 mm	bottom	1:1	1.070	1.038	1.111	
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: Blue Entry represents variability measurement.

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Table 11-117
LTE Band 48 Hotspot SAR - Closed

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]	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	3690.00	56640	High	LTE Band 48	20	18.0	17.23	0.02	0	0881M	QPSK	1	0	5 mm	back	1:1.58	0.036	1.194	0.043	
1 CC Uplink	N/A	3690.00	56640	High	LTE Band 48	20	18.0	17.22	0.02	0	0881M	QPSK	50	0	5 mm	back	1:1.58	0.037	1.197	0.044	
1 CC Uplink	N/A	3690.00	56640	High	LTE Band 48	20	18.0	17.23	0.02	0	0881M	QPSK	1	0	5 mm	front	1:1.58	0.181	1.194	0.216	
1 CC Uplink	N/A	3690.00	56640	High	LTE Band 48	20	18.0	17.22	0.02	0	0881M	QPSK	50	0	5 mm	front	1:1.58	0.176	1.197	0.211	
1 CC Uplink	N/A	3690.00	56640	High	LTE Band 48	20	18.0	17.23	0.02	0	0881M	QPSK	1	0	5 mm	bottom	1:1.58	0.094	1.194	0.112	
1 CC Uplink	N/A	3690.00	56640	High	LTE Band 48	20	18.0	17.22	0.02	0	0881M	QPSK	50	0	5 mm	bottom	1:1.58	0.094	1.197	0.113	
1 CC Uplink	N/A	3690.00	56640	High	LTE Band 48	20	18.0	17.23	-0.05	0	0881M	QPSK	1	0	5 mm	left	1:1.58	0.415	1.194	0.496	A67
1 CC Uplink	N/A	3690.00	56640	High	LTE Band 48	20	18.0	17.22	0.02	0	0881M	QPSK	50	0	5 mm	left	1:1.58	0.407	1.197	0.487	
2 CC Uplink	PCC	3690.00	56640	High	LTE Band 48	20	18.0	17.21	0.04	0	0881M	QPSK	1	0	5 mm	left	1:1.58	0.403	1.199	0.483	
	SCC	3670.20	56442											99							
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 11-118
LTE Band 41 Hotspot SAR - Closed

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]	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	2506.00	39750	Low	LTE Band 41	20	20.5	20.40	0.01	0	0123M	QPSK	1	50	5 mm	back	1:1.58	0.472	1.023	0.483	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	20.5	20.48	0.01	0	0123M	QPSK	50	25	5 mm	back	1:1.58	0.486	1.005	0.488	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	20.5	20.40	0.01	0	0123M	QPSK	1	50	5 mm	front	1:1.58	0.041	1.023	0.042	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	20.5	20.48	0.01	0	0123M	QPSK	50	25	5 mm	front	1:1.58	0.042	1.005	0.042	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	20.5	20.40	0.01	0	0123M	QPSK	1	50	5 mm	bottom	1:1.58	0.905	1.023	0.926	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	20.5	20.30	0.01	0	0123M	QPSK	1	0	5 mm	bottom	1:1.58	0.864	1.047	0.905	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	20.5	20.25	0.01	0	0123M	QPSK	1	50	5 mm	bottom	1:1.58	0.703	1.059	0.744	
1 CC Uplink - Power Class 3	N/A	2636.50	41055	Mid-High	LTE Band 41	20	20.5	19.96	0.01	0	0123M	QPSK	1	0	5 mm	bottom	1:1.58	0.949	1.132	1.074	
1 CC Uplink - Power Class 3	N/A	2636.50	41055	Mid-High	LTE Band 41	20	20.5	20.15	0.01	0	0123M	QPSK	1	50	5 mm	bottom	1:1.58	1.020	1.084	1.106	A69
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	20.5	20.21	0.01	0	0123M	QPSK	1	99	5 mm	bottom	1:1.58	0.803	1.069	0.858	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	20.5	20.48	0.01	0	0123M	QPSK	50	25	5 mm	bottom	1:1.58	0.918	1.005	0.923	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	LTE Band 41	20	20.5	20.36	0.01	0	0123M	QPSK	50	25	5 mm	bottom	1:1.58	0.848	1.033	0.876	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	LTE Band 41	20	20.5	20.36	0.01	0	0123M	QPSK	50	50	5 mm	bottom	1:1.58	0.727	1.033	0.751	
1 CC Uplink - Power Class 3	N/A	2636.50	41055	Mid-High	LTE Band 41	20	20.5	20.22	0.01	0	0123M	QPSK	50	25	5 mm	bottom	1:1.58	1.000	1.067	1.067	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	LTE Band 41	20	20.5	20.24	0.01	0	0123M	QPSK	50	50	5 mm	bottom	1:1.58	0.868	1.062	0.922	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	20.5	20.34	0.01	0	0123M	QPSK	100	0	5 mm	bottom	1:1.58	0.904	1.038	0.938	
1 CC Uplink - Power Class 2	N/A	2636.50	41055	Mid-High	LTE Band 41	20	22.1	21.90	0.03	0	0123M	QPSK	1	0	5 mm	bottom	1:2.31	0.942	1.047	0.986	
1 CC Uplink - Power Class 2	N/A	2636.50	41055	Mid-High	LTE Band 41	20	22.1	22.01	0.17	0	0123M	QPSK	1	50	5 mm	bottom	1:2.31	0.992	1.021	1.013	
1 CC Uplink - Power Class 3	PCC	2636.50	41055	Mid-High	LTE Band 41	20	20.5	20.20	0.03	0	0123M	QPSK	1	0	5 mm	bottom	1:1.58	0.982	1.072	1.053	
	SCC	2616.70	40857	Mid-High										99							
1 CC Uplink - Power Class 2	PCC	2636.50	41055	Mid-High	LTE Band 41	20	22.1	22.09	-0.02	0	0123M	QPSK	1	0	5 mm	bottom	1:2.31	0.970	1.002	0.972	
	SCC	2616.70	40857	Mid-High										99							
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	20.5	20.40	0.01	0	0123M	QPSK	1	50	5 mm	left	1:1.58	0.086	1.023	0.088	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	LTE Band 41	20	20.5	20.48	0.01	0	0123M	QPSK	50	25	5 mm	left	1:1.58	0.089	1.005	0.089	
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 11-119
NR Band n71 Hotspot SAR - Closed

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Tune 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	24.0	22.75	-0.10	0	0	0175M	DFT-S-OFDM	QPSK	1	1	5 mm	back	1:1	0.509	1.334	0.679	
680.50	136100	Mid	NR Band n71	20	24.0	22.91	-0.06	0	0	0175M	DFT-S-OFDM	QPSK	50	0	5 mm	back	1:1	0.476	1.285	0.612	
680.50	136100	Mid	NR Band n71	20	24.0	22.90	0.10	0	0	0175M	CP-OFDM	QPSK	1	1	5 mm	back	1:1	0.515	1.288	0.663	A71
680.50	136100	Mid	NR Band n71	20	24.0	22.75	0.00	0	0	0175M	DFT-S-OFDM	QPSK	1	1	5 mm	front	1:1	0.092	1.334	0.123	
680.50	136100	Mid	NR Band n71	20	24.0	22.91	0.02	0	0	0175M	DFT-S-OFDM	QPSK	50	0	5 mm	front	1:1	0.088	1.285	0.113	
680.50	136100	Mid	NR Band n71	20	24.0	22.75	-0.02	0	0	0175M	DFT-S-OFDM	QPSK	1	1	5 mm	bottom	1:1	0.104	1.334	0.139	
680.50	136100	Mid	NR Band n71	20	24.0	22.91	0.02	0	0	0175M	DFT-S-OFDM	QPSK	50	0	5 mm	bottom	1:1	0.103	1.285	0.132	
680.50	136100	Mid	NR Band n71	20	24.0	22.75	0.07	0	0	0175M	DFT-S-OFDM	QPSK	1	1	5 mm	right	1:1	0.070	1.334	0.093	
680.50	136100	Mid	NR Band n71	20	24.0	22.91	0.09	0	0	0175M	DFT-S-OFDM	QPSK	50	0	5 mm	right	1:1	0.076	1.285	0.098	
680.50	136100	Mid	NR Band n71	20	24.0	22.75	0.08	0	0	0175M	DFT-S-OFDM	QPSK	1	1	5 mm	left	1:1	0.155	1.334	0.207	
680.50	136100	Mid	NR Band n71	20	24.0	22.91	0.06	0	0	0175M	DFT-S-OFDM	QPSK	50	0	5 mm	left	1:1	0.153	1.285	0.197	
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 11-120
NR Band n12 Hotspot SAR - Closed

MEASUREMENT RESULTS																					
FREQUENCY			Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Tune 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	Mid	NR Band n12	15	24.0	22.54	-0.04	0	0	0177M	DFT-S-OFDM	QPSK	1	1	5 mm	back	1:1	0.523	1.400	0.732	A73
707.50	141500	Mid	NR Band n12	15	24.0	22.58	-0.05	0	0	0177M	DFT-S-OFDM	QPSK	36	0	5 mm	back	1:1	0.542	1.387	0.752	
707.50	141500	Mid	NR Band n12	15	24.0	23.14	0.02	0	0	0177M	CP-OFDM	QPSK	1	1	5 mm	back	1:1	0.521	1.219	0.635	
707.50	141500	Mid	NR Band n12	15	24.0	22.54	-0.09	0	0	0177M	DFT-S-OFDM	QPSK	1	1	5 mm	front	1:1	0.116	1.400	0.162	
707.50	141500	Mid	NR Band n12	15	24.0	22.58	-0.03	0	0	0177M	DFT-S-OFDM	QPSK	36	0	5 mm	front	1:1	0.099	1.387	0.137	
707.50	141500	Mid	NR Band n12	15	24.0	22.54	-0.02	0	0	0177M	DFT-S-OFDM	QPSK	1	1	5 mm	bottom	1:1	0.101	1.400	0.141	
707.50	141500	Mid	NR Band n12	15	24.0	22.58	-0.19	0	0	0177M	DFT-S-OFDM	QPSK	36	0	5 mm	bottom	1:1	0.095	1.387	0.132	
707.50	141500	Mid	NR Band n12	15	24.0	22.54	0.10	0	0	0177M	DFT-S-OFDM	QPSK	1	1	5 mm	right	1:1	0.107	1.400	0.150	
707.50	141500	Mid	NR Band n12	15	24.0	22.58	0.04	0	0	0177M	DFT-S-OFDM	QPSK	36	0	5 mm	right	1:1	0.110	1.387	0.153	
707.50	141500	Mid	NR Band n12	15	24.0	22.54	0.02	0	0	0177M	DFT-S-OFDM	QPSK	1	1	5 mm	left	1:1	0.116	1.400	0.162	
707.50	141500	Mid	NR Band n12	15	24.0	22.58	0.11	0	0	0177M	DFT-S-OFDM	QPSK	36	0	5 mm	left	1:1	0.114	1.387	0.158	
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 11-121
NR Band n5 Hotspot SAR - Closed

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	MPR [dB]	Tune 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)		
836.50	167300	Mid	NR Band n5 (Cell)	20	24.0	22.82	-0.03	0	0	0183M	DFT-S-OFDM	QPSK	1	53	5 mm	back	1:1	0.758	1.312	0.994	A75
836.50	167300	Mid	NR Band n5 (Cell)	20	24.0	22.96	0.05	0	0	0183M	DFT-S-OFDM	QPSK	50	56	5 mm	back	1:1	0.764	1.271	0.971	
836.50	167300	Mid	NR Band n5 (Cell)	20	24.0	22.79	0.03	0	0	0183M	DFT-S-OFDM	QPSK	100	0	5 mm	back	1:1	0.744	1.321	0.983	
836.50	167300	Mid	NR Band n5 (Cell)	20	23.8	22.55	-0.12	0.2	0	0183M	CP-OFDM	QPSK	1	1	5 mm	back	1:1	0.644	1.334	0.859	
836.50	167300	Mid	NR Band n5 (Cell)	20	24.0	22.82	-0.12	0	0	0183M	DFT-S-OFDM	QPSK	1	53	5 mm	front	1:1	0.147	1.312	0.193	
836.50	167300	Mid	NR Band n5 (Cell)	20	24.0	22.96	0.10	0	0	0183M	DFT-S-OFDM	QPSK	50	56	5 mm	front	1:1	0.165	1.271	0.210	
836.50	167300	Mid	NR Band n5 (Cell)	20	24.0	22.82	0.17	0	0	0183M	DFT-S-OFDM	QPSK	1	53	5 mm	bottom	1:1	0.206	1.312	0.270	
836.50	167300	Mid	NR Band n5 (Cell)	20	24.0	22.96	0.05	0	0	0183M	DFT-S-OFDM	QPSK	50	56	5 mm	bottom	1:1	0.210	1.271	0.267	
836.50	167300	Mid	NR Band n5 (Cell)	20	24.0	22.82	0.03	0	0	0183M	DFT-S-OFDM	QPSK	1	53	5 mm	right	1:1	0.101	1.312	0.133	
836.50	167300	Mid	NR Band n5 (Cell)	20	24.0	22.96	0.04	0	0	0183M	DFT-S-OFDM	QPSK	50	56	5 mm	right	1:1	0.104	1.271	0.132	
836.50	167300	Mid	NR Band n5 (Cell)	20	24.0	22.82	0.14	0	0	0183M	DFT-S-OFDM	QPSK	1	53	5 mm	left	1:1	0.144	1.312	0.189	
836.50	167300	Mid	NR Band n5 (Cell)	20	24.0	22.96	0.08	0	0	0183M	DFT-S-OFDM	QPSK	50	56	5 mm	left	1:1	0.143	1.271	0.182	
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 11-122
NR Band n66 Hotspot SAR - Closed

MEASUREMENT RESULTS																						
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Antenna Config	Power Drift [dB]	MPR [dB]	Tune State	Serial Number	Waveform	Modulation	RB Size	RB Offset	Spacing	MPR [dB]	Duty Cycle	SAR (1g) (W/kg)	Scaling Factor	Reported SAR (1g) (W/kg)	Plot #	
MHz	Ch.																					
1745.00	349000	Mid	NR Band n66 (AWS)	40	18.5	18.08	A	-0.04	0	0	0218M	DFT-S-OFDM	QPSK	1	214	5 mm	back	1:1	0.640	1.102	0.705	A77
1745.00	349000	Mid	NR Band n66 (AWS)	40	18.5	18.05	A	0.01	0	0	0218M	DFT-S-OFDM	QPSK	108	108	5 mm	back	1:1	0.661	1.109	0.733	
1745.00	349000	Mid	NR Band n66 (AWS)	40	18.5	18.08	A	0.00	0	59	0218M	DFT-S-OFDM	QPSK	1	214	5 mm	front	1:1	0.209	1.102	0.230	
1745.00	349000	Mid	NR Band n66 (AWS)	40	18.5	18.05	A	0.02	0	116	0218M	DFT-S-OFDM	QPSK	108	108	5 mm	front	1:1	0.211	1.109	0.234	
1745.00	349000	Mid	NR Band n66 (AWS)	40	18.5	18.08	A	0.00	0	62	0218M	DFT-S-OFDM	QPSK	1	214	5 mm	bottom	1:1	0.714	1.102	0.787	
1745.00	349000	Mid	NR Band n66 (AWS)	40	18.5	18.05	A	0.01	0	0	0218M	DFT-S-OFDM	QPSK	108	108	5 mm	bottom	1:1	1.080	1.109	1.198	
1745.00	349000	Mid	NR Band n66 (AWS)	40	18.5	17.99	A	0.00	0	59	0218M	DFT-S-OFDM	QPSK	216	0	5 mm	bottom	1:1	0.764	1.125	0.860	
1745.00	349000	Mid	NR Band n66 (AWS)	40	18.5	17.91	A	-0.08	0	62	0218M	CP-OFDM	QPSK	1	1	5 mm	bottom	1:1	0.707	1.146	0.810	
1745.00	349000	Mid	NR Band n66 (AWS)	40	18.5	18.08	A	0.05	0	59	0218M	DFT-S-OFDM	QPSK	1	214	5 mm	right	1:1	0.055	1.102	0.061	
1745.00	349000	Mid	NR Band n66 (AWS)	40	18.5	18.05	A	0.02	0	59	0218M	DFT-S-OFDM	QPSK	108	108	5 mm	right	1:1	0.056	1.109	0.062	
1745.00	349000	Mid	NR Band n66 (AWS)	40	18.5	18.08	A	0.00	0	59	0218M	DFT-S-OFDM	QPSK	1	214	5 mm	left	1:1	0.100	1.102	0.110	
1745.00	349000	Mid	NR Band n66 (AWS)	40	18.5	18.05	A	0.01	0	59	0218M	DFT-S-OFDM	QPSK	108	108	5 mm	left	1:1	0.107	1.109	0.119	
1745.00	349000	Mid	NR Band n66 (AWS)	40	19.0	18.62	I	0.02	0	N/A	0879M	DFT-S-OFDM	QPSK	1	1	5 mm	back	1:1	0.045	1.091	0.049	
1745.00	349000	Mid	NR Band n66 (AWS)	40	19.0	18.67	I	0.01	0	N/A	0879M	DFT-S-OFDM	QPSK	108	0	5 mm	back	1:1	0.045	1.079	0.049	
1745.00	349000	Mid	NR Band n66 (AWS)	40	19.0	18.62	I	0.01	0	N/A	0879M	DFT-S-OFDM	QPSK	1	1	5 mm	front	1:1	0.557	1.091	0.608	
1745.00	349000	Mid	NR Band n66 (AWS)	40	19.0	18.67	I	0.01	0	N/A	0879M	DFT-S-OFDM	QPSK	108	0	5 mm	front	1:1	0.578	1.079	0.624	
1745.00	349000	Mid	NR Band n66 (AWS)	40	19.0	18.62	I	0.01	0	N/A	0879M	DFT-S-OFDM	QPSK	1	1	5 mm	top	1:1	0.020	1.091	0.022	
1745.00	349000	Mid	NR Band n66 (AWS)	40	19.0	18.67	I	0.01	0	N/A	0879M	DFT-S-OFDM	QPSK	108	0	5 mm	top	1:1	0.020	1.079	0.022	
1745.00	349000	Mid	NR Band n66 (AWS)	40	19.0	18.62	I	0.01	0	N/A	0879M	DFT-S-OFDM	QPSK	1	1	5 mm	bottom	1:1	0.031	1.091	0.034	
1745.00	349000	Mid	NR Band n66 (AWS)	40	19.0	18.67	I	0.02	0	N/A	0879M	DFT-S-OFDM	QPSK	108	0	5 mm	bottom	1:1	0.031	1.079	0.033	
1745.00	349000	Mid	NR Band n66 (AWS)	40	19.0	18.62	I	-0.13	0	N/A	0879M	DFT-S-OFDM	QPSK	1	1	5 mm	right	1:1	1.110	1.091	1.211	
1745.00	349000	Mid	NR Band n66 (AWS)	40	19.0	18.67	I	0.02	0	N/A	0879M	DFT-S-OFDM	QPSK	108	0	5 mm	right	1:1	1.100	1.079	1.187	
1745.00	349000	Mid	NR Band n66 (AWS)	40	19.0	18.59	I	0.02	0	N/A	0879M	DFT-S-OFDM	QPSK	216	0	5 mm	right	1:1	1.080	1.099	1.187	
1745.00	349000	Mid	NR Band n66 (AWS)	40	19.0	18.72	I	0.01	0	N/A	0879M	CP-OFDM	QPSK	1	1	5 mm	right	1:1	1.110	1.067	1.184	
1745.00	349000	Mid	NR Band n66 (AWS)	40	19.0	18.62	I	0.02	0	N/A	0879M	DFT-S-OFDM	QPSK	1	1	5 mm	right	1:1	1.100	1.091	1.200	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT												Body										
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 11-123
NR Band n25 Hotspot SAR - Closed

MEASUREMENT RESULTS																						
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Antenna Config	Power Drift [dB]	MPR [dB]	Tune 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)		
1882.50	376500	Mid	NR Band n25 (PCS)	40	18.5	17.63	A	0.15	0	2	0195M	DFT-S-OFDM	QPSK	1	1	5 mm	back	1:1	0.474	1.222	0.579	
1882.50	376500	Mid	NR Band n25 (PCS)	40	18.5	17.55	A	0.02	0	2	0195M	DFT-S-OFDM	QPSK	108	0	5 mm	back	1:1	0.478	1.245	0.595	
1882.50	376500	Mid	NR Band n25 (PCS)	40	18.5	17.63	A	0.02	0	8	0195M	DFT-S-OFDM	QPSK	1	1	5 mm	front	1:1	0.107	1.222	0.131	
1882.50	376500	Mid	NR Band n25 (PCS)	40	18.5	17.55	A	0.00	0	8	0195M	DFT-S-OFDM	QPSK	108	0	5 mm	front	1:1	0.094	1.245	0.117	
1882.50	376500	Mid	NR Band n25 (PCS)	40	18.5	17.63	A	0.02	0	8	0195M	DFT-S-OFDM	QPSK	1	1	5 mm	bottom	1:1	0.672	1.222	0.821	
1882.50	376500	Mid	NR Band n25 (PCS)	40	18.5	17.55	A	0.02	0	8	0195M	DFT-S-OFDM	QPSK	108	0	5 mm	bottom	1:1	0.647	1.245	0.806	
1882.50	376500	Mid	NR Band n25 (PCS)	40	18.5	17.49	A	0.02	0	8	0195M	DFT-S-OFDM	QPSK	216	0	5 mm	bottom	1:1	0.666	1.262	0.840	
1882.50	376500	Mid	NR Band n25 (PCS)	40	18.5	17.54	A	0.02	0	8	0195M	CP-OFDM	QPSK	1	1	5 mm	bottom	1:1	0.657	1.247	0.819	
1882.50	376500	Mid	NR Band n25 (PCS)	40	18.5	17.63	A	0.02	0	8	0195M	DFT-S-OFDM	QPSK	1	1	5 mm	right	1:1	0.026	1.222	0.032	
1882.50	376500	Mid	NR Band n25 (PCS)	40	18.5	17.55	A	0.02	0	8	0195M	DFT-S-OFDM	QPSK	108	0	5 mm	right	1:1	0.022	1.245	0.027	
1882.50	376500	Mid	NR Band n25 (PCS)	40	18.5	17.63	A	0.02	0	10	0195M	DFT-S-OFDM	QPSK	1	1	5 mm	left	1:1	0.046	1.222	0.056	
1882.50	376500	Mid	NR Band n25 (PCS)	40	18.5	17.55	A	0.02	0	10	0195M	DFT-S-OFDM	QPSK	108	0	5 mm	left	1:1	0.041	1.245	0.051	
1882.50	376500	Mid	NR Band n25 (PCS)	40	19.0	19.00	I	0.01	0	N/A	0818M	DFT-S-OFDM	QPSK	1	214	5 mm	back	1:1	0.041	1.000	0.041	
1882.50	376500	Mid	NR Band n25 (PCS)	40	19.0	18.97	I	0.02	0	N/A	0818M	DFT-S-OFDM	QPSK	108	54	5 mm	back	1:1	0.044	1.007	0.044	
1882.50	376500	Mid	NR Band n25 (PCS)	40	19.0	19.00	I	0.02	0	N/A	0818M	DFT-S-OFDM	QPSK	1	214	5 mm	front	1:1	0.504	1.000	0.504	
1882.50	376500	Mid	NR Band n25 (PCS)	40	19.0	18.97	I	0.02	0	N/A	0818M	DFT-S-OFDM	QPSK	108	54	5 mm	front	1:1	0.590	1.007	0.594	
1882.50	376500	Mid	NR Band n25 (PCS)	40	19.0	19.00	I	0.02	0	N/A	0818M	DFT-S-OFDM	QPSK	1	214	5 mm	top	1:1	0.028	1.000	0.028	
1882.50	376500	Mid	NR Band n25 (PCS)	40	19.0	18.97	I	0.01	0	N/A	0818M	DFT-S-OFDM	QPSK	108	54	5 mm	top	1:1	0.025	1.007	0.025	
1882.50	376500	Mid	NR Band n25 (PCS)	40	19.0	19.00	I	0.00	0	N/A	0818M	DFT-S-OFDM	QPSK	1	214	5 mm	bottom	1:1	0.053	1.000	0.053	
1882.50	376500	Mid	NR Band n25 (PCS)	40	19.0	18.97	I	0.00	0	N/A	0818M	DFT-S-OFDM	QPSK	108	54	5 mm	bottom	1:1	0.059	1.007	0.059	
1882.50	376500	Mid	NR Band n25 (PCS)	40	19.0	19.00	I	0.00	0	N/A	0818M	DFT-S-OFDM	QPSK	1	214	5 mm	right	1:1	0.542	1.000	0.542	
1882.50	376500	Mid	NR Band n25 (PCS)	40	19.0	18.97	I	0.00	0	N/A	0818M	DFT-S-OFDM	QPSK	108	54	5 mm	right	1:1	0.646	1.007	0.651	
1882.50	376500	Mid	NR Band n25 (PCS)	40	19.0	18.82	I	-0.04	0	N/A	0818M	CP-OFDM	QPSK	1	1	5 mm	right	1:1	0.789	1.042	0.822	A79
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 11-124
NR Band n30 Hotspot SAR - Closed

MEASUREMENT RESULTS																				
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	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	18.5	18.00	-0.07	0	0181M	DFT-S-OFDM	QPSK	1	26	5 mm	back	1:1	0.560	1.122	0.628	
2310.00	462000	Mid	NR Band n30	10	18.5	18.00	0.06	0	0181M	DFT-S-OFDM	QPSK	25	27	5 mm	back	1:1	0.564	1.122	0.633	
2310.00	462000	Mid	NR Band n30	10	18.5	18.00	0.04	0	0181M	DFT-S-OFDM	QPSK	1	26	5 mm	front	1:1	0.076	1.122	0.085	
2310.00	462000	Mid	NR Band n30	10	18.5	18.00	0.01	0	0181M	DFT-S-OFDM	QPSK	25	27	5 mm	front	1:1	0.072	1.122	0.081	
2310.00	462000	Mid	NR Band n30	10	18.5	18.00	0.01	0	0181M	DFT-S-OFDM	QPSK	1	26	5 mm	bottom	1:1	1.040	1.122	1.167	
2310.00	462000	Mid	NR Band n30	10	18.5	18.00	-0.05	0	0181M	DFT-S-OFDM	QPSK	25	27	5 mm	bottom	1:1	1.070	1.122	1.201	A81
2310.00	462000	Mid	NR Band n30	10	18.5	17.90	0.21	0	0181M	DFT-S-OFDM	QPSK	50	0	5 mm	bottom	1:1	0.981	1.148	1.126	
2310.00	462000	Mid	NR Band n30	10	18.5	17.92	0.03	0	0181M	CP-OFDM	QPSK	1	1	5 mm	bottom	1:1	1.020	1.143	1.166	
2310.00	462000	Mid	NR Band n30	10	18.5	18.00	0.01	0	0181M	DFT-S-OFDM	QPSK	1	26	5 mm	right	1:1	0.033	1.122	0.037	
2310.00	462000	Mid	NR Band n30	10	18.5	18.00	0.01	0	0181M	DFT-S-OFDM	QPSK	25	27	5 mm	right	1:1	0.033	1.122	0.037	
2310.00	462000	Mid	NR Band n30	10	18.5	18.00	0.02	0	0181M	DFT-S-OFDM	QPSK	1	26	10 mm	left	1:1	0.056	1.122	0.063	
2310.00	462000	Mid	NR Band n30	10	18.5	17.90	0.01	0	0181M	DFT-S-OFDM	QPSK	50	0	10 mm	left	1:1	0.059	1.148	0.068	
2310.00	462000	Mid	NR Band n30	10	18.5	18.00	0.01	0	0181M	DFT-S-OFDM	QPSK	25	27	5 mm	bottom	1:1	0.923	1.122	1.036	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT								Body												
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 11-125
NR Band n41 Hotspot SAR - Closed

MEASUREMENT RESULTS																				
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	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	20.0	19.65	0.00	0	0897M	DFT-S-OFDM	QPSK	1	137	5 mm	back	1:1	0.227	1.084	0.246	
2592.99	518598	Mid	NR Band n41	100	20.0	19.64	0.01	0	0897M	DFT-S-OFDM	QPSK	135	0	5 mm	back	1:1	0.250	1.086	0.272	
2592.99	518598	Mid	NR Band n41	100	20.0	19.65	0.01	0	0897M	DFT-S-OFDM	QPSK	1	137	5 mm	front	1:1	0.586	1.084	0.635	
2592.99	518598	Mid	NR Band n41	100	20.0	19.64	0.04	0	0897M	DFT-S-OFDM	QPSK	135	0	5 mm	front	1:1	0.675	1.086	0.733	
2592.99	518598	Mid	NR Band n41	100	20.0	19.57	0.02	0	0897M	DFT-S-OFDM	QPSK	270	0	5 mm	front	1:1	0.595	1.104	0.657	
2592.99	518598	Mid	NR Band n41	100	20.0	19.65	0.01	0	0897M	DFT-S-OFDM	QPSK	1	137	5 mm	top	1:1	0.047	1.084	0.051	
2592.99	518598	Mid	NR Band n41	100	20.0	19.64	0.02	0	0897M	DFT-S-OFDM	QPSK	135	0	5 mm	top	1:1	0.054	1.086	0.059	
2592.99	518598	Mid	NR Band n41	100	20.0	19.65	0.01	0	0897M	DFT-S-OFDM	QPSK	1	137	5 mm	bottom	1:1	0.174	1.084	0.189	
2592.99	518598	Mid	NR Band n41	100	20.0	19.64	0.01	0	0897M	DFT-S-OFDM	QPSK	135	0	5 mm	bottom	1:1	0.180	1.086	0.195	
2592.99	518598	Mid	NR Band n41	100	20.0	19.65	0.02	0	0897M	DFT-S-OFDM	QPSK	1	137	5 mm	right	1:1	0.903	1.084	0.979	
2592.99	518598	Mid	NR Band n41	100	20.0	19.64	-0.18	0	0897M	DFT-S-OFDM	QPSK	135	0	5 mm	right	1:1	0.990	1.086	1.075	
2592.99	518598	Mid	NR Band n41	100	20.0	19.57	0.01	0	0897M	DFT-S-OFDM	QPSK	270	0	5 mm	right	1:1	0.932	1.104	1.029	
2592.99	518598	Mid	NR Band n41	100	20.0	19.57	-0.17	0	0897M	CP-OFDM	QPSK	1	1	5 mm	right	1:1	1.080	1.104	1.192	A83
2592.99	518598	Mid	NR Band n41	100	20.0	19.57	0.02	0	0897M	CP-OFDM	QPSK	1	1	5 mm	right	1:1	1.030	1.104	1.137	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak								Body 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 11-126
NR Band n77 DoD Hotspot SAR - Closed

MEASUREMENT RESULTS																					
FREQUENCY		Mode	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Antenna Config	Power Dvlt [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	18.5	17.44	Ant F	0.01	0	0831M	DFT-S-OFDM	QPSK	1	137	5 mm	back	1:1	0.040	1.276	0.051	
3500.01	633334	Mid	NR Band n77	100	18.5	17.43	Ant F	0.02	0	0831M	DFT-S-OFDM	QPSK	135	69	5 mm	back	1:1	0.041	1.279	0.052	
3500.01	633334	Mid	NR Band n77	100	18.5	17.44	Ant F	0.01	0	0831M	DFT-S-OFDM	QPSK	1	137	5 mm	front	1:1	0.229	1.276	0.292	
3500.01	633334	Mid	NR Band n77	100	18.5	17.43	Ant F	0.02	0	0831M	DFT-S-OFDM	QPSK	135	69	5 mm	front	1:1	0.231	1.279	0.295	
3500.01	633334	Mid	NR Band n77	100	18.5	17.44	Ant F	0.01	0	0831M	DFT-S-OFDM	QPSK	1	137	5 mm	bottom	1:1	0.119	1.276	0.152	
3500.01	633334	Mid	NR Band n77	100	18.5	17.43	Ant F	0.02	0	0831M	DFT-S-OFDM	QPSK	135	69	5 mm	bottom	1:1	0.114	1.279	0.146	
3500.01	633334	Mid	NR Band n77	100	18.5	17.44	Ant F	0.01	0	0831M	DFT-S-OFDM	QPSK	1	137	5 mm	left	1:1	0.329	1.276	0.420	
3500.01	633334	Mid	NR Band n77	100	18.5	17.43	Ant F	0.01	0	0831M	DFT-S-OFDM	QPSK	135	69	5 mm	left	1:1	0.337	1.279	0.431	
3500.01	633334	Mid	NR Band n77	100	18.5	17.32	Ant F	0.01	0	0831M	CP-OFDM	QPSK	1	1	5 mm	left	1:1	0.311	1.312	0.408	
3500.01	633334	Mid	NR Band n77	100	16.5	15.57	Ant I	0.01	0	0831M	DFT-S-OFDM	QPSK	1	137	5 mm	back	1:1	0.027	1.239	0.033	
3500.01	633334	Mid	NR Band n77	100	16.5	15.59	Ant I	0.01	0	0831M	DFT-S-OFDM	QPSK	135	69	5 mm	back	1:1	0.030	1.233	0.037	
3500.01	633334	Mid	NR Band n77	100	16.5	15.57	Ant I	0.01	0	0831M	DFT-S-OFDM	QPSK	1	137	5 mm	front	1:1	0.228	1.239	0.282	
3500.01	633334	Mid	NR Band n77	100	16.5	15.59	Ant I	0.01	0	0831M	DFT-S-OFDM	QPSK	135	69	5 mm	front	1:1	0.233	1.233	0.287	
3500.01	633334	Mid	NR Band n77	100	16.5	15.57	Ant I	0.00	0	0831M	DFT-S-OFDM	QPSK	1	137	5 mm	top	1:1	0.015	1.239	0.019	
3500.01	633334	Mid	NR Band n77	100	16.5	15.59	Ant I	0.01	0	0831M	DFT-S-OFDM	QPSK	135	69	5 mm	top	1:1	0.017	1.233	0.021	
3500.01	633334	Mid	NR Band n77	100	16.5	15.57	Ant I	0.01	0	0831M	DFT-S-OFDM	QPSK	1	137	5 mm	bottom	1:1	0.024	1.239	0.030	
3500.01	633334	Mid	NR Band n77	100	16.5	15.59	Ant I	0.01	0	0831M	DFT-S-OFDM	QPSK	135	69	5 mm	bottom	1:1	0.024	1.233	0.030	
3500.01	633334	Mid	NR Band n77	100	16.5	15.57	Ant I	0.01	0	0831M	DFT-S-OFDM	QPSK	1	137	5 mm	right	1:1	0.397	1.239	0.492	
3500.01	633334	Mid	NR Band n77	100	16.5	15.59	Ant I	0.01	0	0831M	DFT-S-OFDM	QPSK	135	69	5 mm	right	1:1	0.397	1.233	0.490	
3500.01	633334	Mid	NR Band n77	100	16.5	15.56	Ant I	0.01	0	0831M	DFT-S-OFDM	QPSK	270	0	5 mm	right	1:1	0.441	1.242	0.548	
3500.01	633334	Mid	NR Band n77	100	16.5	15.40	Ant I	0.01	0	0831M	CP-OFDM	QPSK	1	1	5 mm	right	1:1	0.466	1.288	0.600	
3500.01	633334	Mid	NR Band n77	100	16.5	15.05	Ant E	0.01	0	0831M	DFT-S-OFDM	QPSK	1	137	5 mm	back	1:1	0.055	1.396	0.077	
3500.01	633334	Mid	NR Band n77	100	16.5	15.06	Ant E	0.02	0	0831M	DFT-S-OFDM	QPSK	135	69	5 mm	back	1:1	0.056	1.393	0.078	
3500.01	633334	Mid	NR Band n77	100	16.5	15.05	Ant E	0.02	0	0831M	DFT-S-OFDM	QPSK	1	137	5 mm	front	1:1	0.136	1.396	0.190	
3500.01	633334	Mid	NR Band n77	100	16.5	15.06	Ant E	0.02	0	0831M	DFT-S-OFDM	QPSK	135	69	5 mm	front	1:1	0.130	1.393	0.181	
3500.01	633334	Mid	NR Band n77	100	16.5	15.05	Ant E	0.02	0	0831M	DFT-S-OFDM	QPSK	1	137	5 mm	top	1:1	0.014	1.396	0.020	
3500.01	633334	Mid	NR Band n77	100	16.5	15.06	Ant E	0.02	0	0831M	DFT-S-OFDM	QPSK	135	69	5 mm	top	1:1	0.015	1.393	0.021	
3500.01	633334	Mid	NR Band n77	100	16.5	15.05	Ant E	0.01	0	0831M	DFT-S-OFDM	QPSK	1	137	5 mm	bottom	1:1	0.028	1.396	0.039	
3500.01	633334	Mid	NR Band n77	100	16.5	15.06	Ant E	0.02	0	0831M	DFT-S-OFDM	QPSK	135	69	5 mm	bottom	1:1	0.028	1.393	0.039	
3500.01	633334	Mid	NR Band n77	100	16.5	15.05	Ant E	0.01	0	0831M	DFT-S-OFDM	QPSK	1	137	5 mm	left	1:1	0.336	1.396	0.469	
3500.01	633334	Mid	NR Band n77	100	16.5	15.06	Ant E	0.03	0	0831M	DFT-S-OFDM	QPSK	135	69	5 mm	left	1:1	0.332	1.393	0.462	
3500.01	633334	Mid	NR Band n77	100	16.5	15.02	Ant E	0.02	0	0831M	CP-OFDM	QPSK	1	1	5 mm	left	1:1	0.321	1.406	0.451	
3500.01	633334	Mid	NR Band n77	100	12.0	11.82	Ant C	0.02	0	0831M	DFT-S-OFDM	QPSK	1	137	5 mm	back	1:1	0.323	1.042	0.337	
3500.01	633334	Mid	NR Band n77	100	12.0	11.78	Ant C	0.02	0	0831M	DFT-S-OFDM	QPSK	135	69	5 mm	back	1:1	0.314	1.052	0.330	
3500.01	633334	Mid	NR Band n77	100	12.0	11.82	Ant C	0.02	0	0831M	DFT-S-OFDM	QPSK	1	137	5 mm	front	1:1	0.029	1.042	0.030	
3500.01	633334	Mid	NR Band n77	100	12.0	11.78	Ant C	0.02	0	0831M	DFT-S-OFDM	QPSK	135	69	5 mm	front	1:1	0.028	1.052	0.029	
3500.01	633334	Mid	NR Band n77	100	12.0	11.82	Ant C	0.01	0	0831M	DFT-S-OFDM	QPSK	1	137	5 mm	top	1:1	0.017	1.042	0.018	
3500.01	633334	Mid	NR Band n77	100	12.0	11.78	Ant C	0.02	0	0831M	DFT-S-OFDM	QPSK	135	69	5 mm	top	1:1	0.015	1.052	0.016	
3500.01	633334	Mid	NR Band n77	100	12.0	11.82	Ant C	0.02	0	0831M	DFT-S-OFDM	QPSK	1	137	5 mm	bottom	1:1	0.042	1.042	0.044	
3500.01	633334	Mid	NR Band n77	100	12.0	11.78	Ant C	0.01	0	0831M	DFT-S-OFDM	QPSK	135	69	5 mm	bottom	1:1	0.043	1.052	0.045	
3500.01	633334	Mid	NR Band n77	100	12.0	11.82	Ant C	0.02	0	0831M	DFT-S-OFDM	QPSK	1	137	5 mm	left	1:1	0.515	1.042	0.537	
3500.01	633334	Mid	NR Band n77	100	12.0	11.78	Ant C	0.02	0	0831M	DFT-S-OFDM	QPSK	135	69	5 mm	left	1:1	0.499	1.052	0.525	
3500.01	633334	Mid	NR Band n77	100	12.0	11.70	Ant C	-0.01	0	0831M	CP-OFDM	QPSK	1	1	5 mm	left	1:1	0.555	1.072	0.595	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												

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Table 11-127
NR Band n77 Hotspot SAR – Closed

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) (W/kg)	Plot #	
MHz	Ch.																				
3930.00	662000	High	NR Band n77	100	18.5	18.50	Ant F	0.01	0	0831M	DFT-S-OFDM	QPSK	1	137	5 mm	back	1:1	0.070	1.000	0.070	
3930.00	662000	High	NR Band n77	100	18.5	18.47	Ant F	0.00	0	0831M	DFT-S-OFDM	QPSK	135	69	5 mm	back	1:1	0.065	1.007	0.065	
3750.00	650000	Low	NR Band n77	100	18.5	18.48	Ant F	0.01	0	0831M	DFT-S-OFDM	QPSK	1	137	5 mm	front	1:1	0.458	1.005	0.460	
3930.00	662000	High	NR Band n77	100	18.5	18.50	Ant F	0.02	0	0831M	DFT-S-OFDM	QPSK	1	137	5 mm	front	1:1	0.516	1.000	0.516	
3750.00	650000	Low	NR Band n77	100	18.5	18.45	Ant F	0.10	0	0831M	DFT-S-OFDM	QPSK	135	69	5 mm	front	1:1	0.595	1.012	0.602	
3930.00	662000	High	NR Band n77	100	18.5	18.47	Ant F	0.01	0	0831M	DFT-S-OFDM	QPSK	135	69	5 mm	front	1:1	0.517	1.007	0.521	
3930.00	662000	High	NR Band n77	100	18.5	18.34	Ant F	0.01	0	0831M	DFT-S-OFDM	QPSK	270	0	5 mm	front	1:1	0.473	1.038	0.491	
3930.00	662000	High	NR Band n77	100	18.5	18.50	Ant F	0.02	0	0831M	DFT-S-OFDM	QPSK	1	137	5 mm	bottom	1:1	0.033	1.000	0.033	
3930.00	662000	High	NR Band n77	100	18.5	18.47	Ant F	0.00	0	0831M	DFT-S-OFDM	QPSK	135	69	5 mm	bottom	1:1	0.034	1.007	0.034	
3750.00	650000	Low	NR Band n77	100	18.5	18.48	Ant F	-0.04	0	0831M	DFT-S-OFDM	QPSK	1	137	5 mm	left	1:1	0.881	1.005	0.885	
3930.00	662000	High	NR Band n77	100	18.5	18.50	Ant F	0.02	0	0831M	DFT-S-OFDM	QPSK	1	137	5 mm	left	1:1	0.581	1.000	0.581	
3750.00	650000	Low	NR Band n77	100	18.5	18.45	Ant F	0.00	0	0831M	DFT-S-OFDM	QPSK	135	69	5 mm	left	1:1	0.804	1.012	0.814	
3930.00	662000	High	NR Band n77	100	18.5	18.47	Ant F	0.00	0	0831M	DFT-S-OFDM	QPSK	135	69	5 mm	left	1:1	0.582	1.007	0.586	
3930.00	662000	High	NR Band n77	100	18.5	18.34	Ant F	0.01	0	0831M	DFT-S-OFDM	QPSK	270	0	5 mm	left	1:1	0.649	1.038	0.674	
3930.00	662000	High	NR Band n77	100	18.5	18.24	Ant F	0.00	0	0831M	CP-OFDM	QPSK	1	1	5 mm	left	1:1	0.559	1.062	0.594	
3750.00	650000	Low	NR Band n77	100	18.5	18.48	Ant F	0.02	0	0831M	DFT-S-OFDM	QPSK	1	137	5 mm	left	1:1	0.824	1.005	0.828	
3750.00	650000	Low	NR Band n77	100	16.5	15.66	Ant I	0.01	0	0641M	DFT-S-OFDM	QPSK	1	1	5 mm	back	1:1	0.010	1.213	0.012	
3750.00	650000	Low	NR Band n77	100	16.5	15.68	Ant I	0.01	0	0641M	DFT-S-OFDM	QPSK	135	0	5 mm	back	1:1	0.010	1.208	0.012	
3750.00	650000	Low	NR Band n77	100	16.5	15.66	Ant I	0.01	0	0641M	DFT-S-OFDM	QPSK	1	1	5 mm	front	1:1	0.217	1.213	0.263	
3750.00	650000	Low	NR Band n77	100	16.5	15.68	Ant I	0.01	0	0641M	DFT-S-OFDM	QPSK	135	0	5 mm	front	1:1	0.207	1.208	0.250	
3750.00	650000	Low	NR Band n77	100	16.5	15.66	Ant I	0.02	0	0641M	DFT-S-OFDM	QPSK	1	1	5 mm	top	1:1	0.013	1.213	0.016	
3750.00	650000	Low	NR Band n77	100	16.5	15.68	Ant I	0.02	0	0641M	DFT-S-OFDM	QPSK	135	0	5 mm	top	1:1	0.014	1.208	0.017	
3750.00	650000	Low	NR Band n77	100	16.5	15.66	Ant I	0.01	0	0641M	DFT-S-OFDM	QPSK	1	1	5 mm	bottom	1:1	0.018	1.213	0.022	
3750.00	650000	Low	NR Band n77	100	16.5	15.68	Ant I	0.01	0	0641M	DFT-S-OFDM	QPSK	135	0	5 mm	bottom	1:1	0.013	1.208	0.016	
3750.00	650000	Low	NR Band n77	100	16.5	15.66	Ant I	0.01	0	0641M	DFT-S-OFDM	QPSK	1	1	5 mm	right	1:1	0.309	1.213	0.375	
3750.00	650000	Low	NR Band n77	100	16.5	15.68	Ant I	0.01	0	0641M	DFT-S-OFDM	QPSK	135	0	5 mm	right	1:1	0.301	1.208	0.364	
3750.00	650000	Low	NR Band n77	100	16.5	15.61	Ant I	0.01	0	0641M	CP-OFDM	QPSK	1	1	5 mm	right	1:1	0.273	1.227	0.335	
3930.00	662000	High	NR Band n77	100	16.5	16.15	Ant E	0.01	0	0641M	DFT-S-OFDM	QPSK	1	137	5 mm	back	1:1	0.052	1.084	0.056	
3930.00	662000	High	NR Band n77	100	16.5	16.10	Ant E	0.02	0	0641M	DFT-S-OFDM	QPSK	135	0	5 mm	back	1:1	0.053	1.096	0.058	
3930.00	662000	High	NR Band n77	100	16.5	16.15	Ant E	0.01	0	0641M	DFT-S-OFDM	QPSK	1	137	5 mm	front	1:1	0.290	1.084	0.314	
3930.00	662000	High	NR Band n77	100	16.5	16.10	Ant E	0.01	0	0641M	DFT-S-OFDM	QPSK	135	0	5 mm	front	1:1	0.291	1.096	0.319	
3930.00	662000	High	NR Band n77	100	16.5	16.15	Ant E	0.01	0	0641M	DFT-S-OFDM	QPSK	1	137	5 mm	top	1:1	0.036	1.084	0.039	
3930.00	662000	High	NR Band n77	100	16.5	16.10	Ant E	0.02	0	0641M	DFT-S-OFDM	QPSK	135	0	5 mm	top	1:1	0.042	1.096	0.046	
3930.00	662000	High	NR Band n77	100	16.5	16.15	Ant E	0.01	0	0641M	DFT-S-OFDM	QPSK	1	137	5 mm	bottom	1:1	0.060	1.084	0.065	
3930.00	662000	High	NR Band n77	100	16.5	16.10	Ant E	0.01	0	0641M	DFT-S-OFDM	QPSK	135	0	5 mm	bottom	1:1	0.062	1.096	0.068	
3750.00	650000	Low	NR Band n77	100	16.5	15.62	Ant E	0.01	0	0641M	DFT-S-OFDM	QPSK	1	137	5 mm	left	1:1	0.405	1.225	0.496	
3930.00	662000	High	NR Band n77	100	16.5	16.15	Ant E	0.01	0	0641M	DFT-S-OFDM	QPSK	1	137	5 mm	left	1:1	0.757	1.084	0.821	
3750.00	650000	Low	NR Band n77	100	16.5	15.60	Ant E	0.01	0	0641M	DFT-S-OFDM	QPSK	135	0	5 mm	left	1:1	0.445	1.230	0.547	
3930.00	662000	High	NR Band n77	100	16.5	16.10	Ant E	0.01	0	0641M	DFT-S-OFDM	QPSK	135	0	5 mm	left	1:1	0.752	1.096	0.824	
3930.00	662000	High	NR Band n77	100	16.5	15.82	Ant E	0.01	0	0641M	DFT-S-OFDM	QPSK	270	0	5 mm	left	1:1	0.681	1.169	0.796	
3930.00	662000	High	NR Band n77	100	16.5	15.90	Ant E	0.01	0	0641M	CP-OFDM	QPSK	1	1	5 mm	left	1:1	0.692	1.148	0.794	
3930.00	662000	High	NR Band n77	100	12.0	11.74	Ant C	0.00	0	0831M	DFT-S-OFDM	QPSK	1	137	5 mm	back	1:1	0.000	1.062	0.000	
3930.00	662000	High	NR Band n77	100	12.0	11.66	Ant C	0.00	0	0831M	DFT-S-OFDM	QPSK	135	0	5 mm	back	1:1	0.000	1.081	0.000	
3930.00	662000	High	NR Band n77	100	12.0	11.74	Ant C	0.02	0	0831M	DFT-S-OFDM	QPSK	1	137	5 mm	front	1:1	0.000	1.062	0.000	
3930.00	662000	High	NR Band n77	100	12.0	11.66	Ant C	0.01	0	0831M	DFT-S-OFDM	QPSK	135	0	5 mm	front	1:1	0.000	1.081	0.000	
3930.00	662000	High	NR Band n77	100	12.0	11.74	Ant C	0.02	0	0831M	DFT-S-OFDM	QPSK	1	137	5 mm	top	1:1	0.002	1.062	0.002	
3930.00	662000	High	NR Band n77	100	12.0	11.66	Ant C	0.00	0	0831M	DFT-S-OFDM	QPSK	135	0	5 mm	top	1:1	0.000	1.081	0.000	
3930.00	662000	High	NR Band n77	100	12.0	11.74	Ant C	0.00	0	0831M	DFT-S-OFDM	QPSK	1	137	5 mm	bottom	1:1	0.000	1.062	0.000	
3930.00	662000	High	NR Band n77	100	12.0	11.66	Ant C	0.02	0	0831M	DFT-S-OFDM	QPSK	135	0	5 mm	bottom	1:1	0.000	1.081	0.000	
3750.00	650000	Low	NR Band n77	100	12.0	11.51	Ant C	0.02	0	0831M	DFT-S-OFDM	QPSK	1	271	5 mm	left	1:1	0.363	1.119	0.406	
3930.00	662000	High	NR Band n77	100	12.0	11.74	Ant C	0.02	0	0831M	DFT-S-OFDM	QPSK	1	137	5 mm	left	1:1	0.524	1.062	0.556	
3750.00	650000	Low	NR Band n77	100	12.0	11.52	Ant C	0.02	0	0831M	DFT-S-OFDM	QPSK	135	138	5 mm	left	1:1	0.400	1.117	0.447	
3930.00	662000	High	NR Band n77	100	12.0	11.66	Ant C	0.01	0	0831M	DFT-S-OFDM	QPSK	135	0	5 mm	left	1:1	0.512	1.081	0.553	
3930.00	662000	High	NR Band n77	100	12.0	11.46	Ant C	0.02	0	0831M	DFT-S-OFDM	QPSK	270	0	5 mm	left	1:1	0.406	1.132	0.460	
3930.00	662000	High	NR Band n77	100	12.0	11.63	Ant C	0.01	0	0831M	CP-OFDM	QPSK	1	1	5 mm	left	1:1	0.459	1.089	0.500	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT										Body											
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 11-128
WLAN Hotspot SAR - Closed

MEASUREMENT RESULTS																				
FREQUENCY		Mode	Service	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Chipset Variant	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	18.95	0.01	5 mm	2	Q	1598S	1	back	99.9	0.084	-	1.012	1.001	-	
2462	11	802.11b	DSSS	22	19.0	18.95	0.01	5 mm	2	Q	1598S	1	front	99.9	0.275	0.197	1.012	1.001	0.200	
2462	11	802.11b	DSSS	22	19.0	18.95	0.01	5 mm	2	Q	1598S	1	bottom	99.9	0.191	0.129	1.012	1.001	0.131	
2462	11	802.11b	DSSS	22	19.0	18.95	0.01	5 mm	2	Q	1598S	1	left	99.9	0.409	0.254	1.012	1.001	0.257	
2437	6	802.11b	DSSS	22	19.0	18.85	0.02	5 mm	2	N	0115S	1	back	99.9	0.072	-	1.035	1.001	-	
2437	6	802.11b	DSSS	22	19.0	18.85	0.03	5 mm	2	N	0115S	1	front	99.9	0.253	0.189	1.035	1.001	0.196	
2437	6	802.11b	DSSS	22	19.0	18.85	0.03	5 mm	2	N	0115S	1	bottom	99.9	0.200	0.152	1.035	1.001	0.157	
2437	6	802.11b	DSSS	22	19.0	18.85	0.01	5 mm	2	N	0115S	1	left	99.9	0.393	0.300	1.035	1.001	0.311	
5785	157	802.11a	OFDM	20	18.0	17.84	0.01	5 mm	1	Q	1600S	6	back	98.9	0.056	0.026	1.038	1.011	0.027	
5785	157	802.11a	OFDM	20	18.0	17.84	0.02	5 mm	1	Q	1600S	6	front	98.9	0.226	-	1.038	1.011	-	
5785	157	802.11a	OFDM	20	18.0	17.84	0.01	5 mm	1	Q	1600S	6	bottom	98.9	0.367	0.214	1.038	1.011	0.225	
5785	157	802.11a	OFDM	20	18.0	17.84	0.02	5 mm	1	Q	1600S	6	right	98.9	0.069	-	1.038	1.011	-	
5825	165	802.11a	OFDM	20	18.0	17.96	0.02	5 mm	1	N	0677M	6	back	98.9	0.034	0.014	1.009	1.011	0.014	
5825	165	802.11a	OFDM	20	18.0	17.96	0.01	5 mm	1	N	0677M	6	front	98.9	0.207	-	1.009	1.011	-	
5825	165	802.11a	OFDM	20	18.0	17.96	0.02	5 mm	1	N	0677M	6	bottom	98.9	0.285	0.203	1.009	1.011	0.207	
5825	165	802.11a	OFDM	20	18.0	17.96	0.01	5 mm	1	N	0677M	6	right	98.9	0.040	-	1.009	1.011	-	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak								Body 1.6 W/kg (mW/g) averaged over 1 gram												
Uncontrolled Exposure/General Population																				

Table 11-129

WLAN SISO Hotspot SAR for Conditions with 2.4 GHz and 5 GHz WLAN SAR and/or with 5G NR - Closed

MEASUREMENT RESULTS																				
FREQUENCY		Mode	Service	Bandwidth [MHz]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Chipset Variant	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)	
2437	6	802.11b	DSSS	22	15.0	14.99	0.02	5 mm	2	Q	1598S	1	back	99.9	0.044	-	1.002	1.001	-	
2437	6	802.11b	DSSS	22	15.0	14.99	0.01	5 mm	2	Q	1598S	1	front	99.9	0.098	0.072	1.002	1.001	0.072	
2437	6	802.11b	DSSS	22	15.0	14.99	0.02	5 mm	2	Q	1598S	1	bottom	99.9	0.095	-	1.002	1.001	-	
2437	6	802.11b	DSSS	22	15.0	14.99	0.01	5 mm	2	Q	1598S	1	left	99.9	0.197	0.137	1.002	1.001	0.137	
2412	1	802.11b	DSSS	22	15.0	14.99	0.01	5 mm	2	N	0115S	1	back	99.9	0.028	-	1.002	1.001	-	
2412	1	802.11b	DSSS	22	15.0	14.99	0.02	5 mm	2	N	0115S	1	front	99.9	0.109	0.087	1.002	1.001	0.087	
2412	1	802.11b	DSSS	22	15.0	14.99	0.02	5 mm	2	N	0115S	1	bottom	99.9	0.108	-	1.002	1.001	-	
2412	1	802.11b	DSSS	22	15.0	14.99	0.02	5 mm	2	N	0115S	1	left	99.9	0.199	0.149	1.002	1.001	0.149	
5775	155	802.11ac	OFDM	80	15.0	14.55	0.01	5 mm	1	Q	1600S	29.3	back	99.7	0.005	-	1.109	1.003	-	
5775	155	802.11ac	OFDM	80	15.0	14.55	0.02	5 mm	1	Q	1600S	29.3	front	99.7	0.069	0.034	1.109	1.003	0.038	
5775	155	802.11ac	OFDM	80	15.0	14.55	0.02	5 mm	1	Q	1600S	29.3	bottom	99.7	0.074	0.044	1.109	1.003	0.049	
5775	155	802.11ac	OFDM	80	15.0	14.55	0.02	5 mm	1	Q	1600S	29.3	right	99.7	0.004	-	1.109	1.003	-	
5775	155	802.11ac	OFDM	80	15.0	14.57	0.00	5 mm	1	N	0677M	29.3	back	99.7	0.005	-	1.104	1.003	-	
5775	155	802.11ac	OFDM	80	15.0	14.57	0.00	5 mm	1	N	0677M	29.3	front	99.7	0.102	0.049	1.104	1.003	0.054	
5775	155	802.11ac	OFDM	80	15.0	14.57	0.00	5 mm	1	N	0677M	29.3	bottom	99.7	0.115	0.056	1.104	1.003	0.062	
5775	155	802.11ac	OFDM	80	15.0	14.57	0.01	5 mm	1	N	0677M	29.3	right	99.7	0.003	-	1.104	1.003	-	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak								Body 1.6 W/kg (mW/g) averaged over 1 gram												
Uncontrolled Exposure/General Population																				

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

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Table 11-130
WLAN MIMO Hotspot SAR - Closed

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.	Chipset Variant	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	18.96	19.0	18.95	0.00	5 mm	MIMO	Q	1598S	1	back	99.9	0.285	0.228	1.012	1.001	0.231	
2462	11	802.11b	DSSS	22	19.0	18.96	19.0	18.95	0.02	5 mm	MIMO	Q	1598S	1	front	99.9	0.716	-	1.012	1.001	-	
2462	11	802.11b	DSSS	22	19.0	18.96	19.0	18.95	0.00	5 mm	MIMO	Q	1598S	1	bottom	99.9	0.799	0.406	1.012	1.001	0.411	
2462	11	802.11b	DSSS	22	19.0	18.96	19.0	18.95	0.00	5 mm	MIMO	Q	1598S	1	right	99.9	0.322	0.231	1.012	1.001	0.234	
2412	1	802.11b	DSSS	22	19.0	18.63	19.0	18.77	0.00	5 mm	MIMO	Q	1598S	1	left	99.9	0.716	0.504	1.089	1.001	0.549	
2437	6	802.11b	DSSS	22	19.0	18.80	19.0	18.85	0.01	5 mm	MIMO	Q	1598S	1	left	99.9	1.180	0.758	1.047	1.001	0.794	
2462	11	802.11b	DSSS	22	19.0	18.96	19.0	18.95	-0.10	5 mm	MIMO	Q	1598S	1	left	99.9	1.250	0.767	1.012	1.001	0.777	A89
2437	6	802.11b	DSSS	22	19.0	18.66	19.0	18.97	0.02	5 mm	MIMO	N	0115S	1	back	99.9	0.269	0.230	1.081	1.001	0.249	
2437	6	802.11b	DSSS	22	19.0	18.66	19.0	18.97	0.03	5 mm	MIMO	N	0115S	1	front	99.9	0.650	0.544	1.081	1.001	0.589	
2437	6	802.11b	DSSS	22	19.0	18.66	19.0	18.97	0.00	5 mm	MIMO	N	0115S	1	bottom	99.9	0.553	-	1.081	1.001	-	
2437	6	802.11b	DSSS	22	19.0	18.66	19.0	18.97	0.00	5 mm	MIMO	N	0115S	1	right	99.9	0.242	0.198	1.081	1.001	0.214	
2412	1	802.11b	DSSS	22	19.0	18.85	19.0	18.69	0.00	5 mm	MIMO	N	0115S	1	left	99.9	0.877	0.684	1.074	1.001	0.735	
2437	6	802.11b	DSSS	22	19.0	18.66	19.0	18.97	0.01	5 mm	MIMO	N	0115S	1	left	99.9	0.902	0.644	1.081	1.001	0.697	
2462	11	802.11b	DSSS	22	19.0	18.72	19.0	18.90	0.02	5 mm	MIMO	N	0115S	1	left	99.9	0.954	0.741	1.067	1.001	0.791	
5785	157	802.11n	OFDM	20	18.0	17.67	18.0	17.92	0.01	5 mm	MIMO	Q	1600S	13	back	99.7	0.062	0.022	1.079	1.003	0.024	
5785	157	802.11n	OFDM	20	18.0	17.67	18.0	17.92	0.06	5 mm	MIMO	Q	1600S	13	front	99.7	0.839	0.529	1.079	1.003	0.573	A91
5785	157	802.11n	OFDM	20	18.0	17.67	18.0	17.92	0.01	5 mm	MIMO	Q	1600S	13	Bottom	99.7	0.283	0.178	1.079	1.003	0.193	
5785	157	802.11n	OFDM	20	18.0	17.67	18.0	17.92	0.01	5 mm	MIMO	Q	1600S	13	right	99.7	0.059	0.044	1.079	1.003	0.048	
5785	157	802.11n	OFDM	20	18.0	17.67	18.0	17.92	0.01	5 mm	MIMO	Q	1600S	13	left	99.7	0.597	0.468	1.079	1.003	0.506	
5745	149	802.11n	OFDM	20	18.0	17.98	18.0	17.73	0.01	5 mm	MIMO	N	0677M	13	back	99.8	0.068	0.033	1.064	1.002	0.035	
5745	149	802.11n	OFDM	20	18.0	17.98	18.0	17.73	0.02	5 mm	MIMO	N	0677M	13	front	99.8	0.630	0.457	1.064	1.002	0.487	
5745	149	802.11n	OFDM	20	18.0	17.98	18.0	17.73	0.01	5 mm	MIMO	N	0677M	13	bottom	99.8	0.287	0.172	1.064	1.002	0.183	
5745	149	802.11n	OFDM	20	18.0	17.98	18.0	17.73	0.02	5 mm	MIMO	N	0677M	13	right	99.8	0.057	0.016	1.064	1.002	0.017	
5745	149	802.11n	OFDM	20	18.0	17.98	18.0	17.73	0.02	5 mm	MIMO	N	0677M	13	left	99.8	0.478	0.376	1.064	1.002	0.401	
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 22.0 dBm maximum allowed MIMO power shown in the documentation, for channel 1, 6, 11 each antenna transmits at a maximum allowed power of 19.0 dBm. To achieve the 21.0 dBm maximum allowed MIMO power shown in the documentation, for channel 149,157 each antenna transmits at a maximum allowed power of 18.0 dBm.

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Table 11-131

WLAN MIMO Hotspot SAR for Conditions with 2.4 GHz and 5 GHz WLAN SAR and/or with 5G NR - Closed

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.	Chipset Variant	Device Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	Peak SAR of Area Scan		SAR (1g) (W/kg)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g) (W/kg)	Plot #
MHz	Ch.																W/kg	(W/kg)					
2437	6	802.11n	OFDM	20	15.0	14.75	15.0	14.92	0.01	5 mm	MIMO	Q	1598S	13	back	99.7	0.063	-	1.059	1.003	-	-	
2437	6	802.11n	OFDM	20	15.0	14.75	15.0	14.92	0.02	5 mm	MIMO	Q	1598S	13	front	99.7	0.147	0.121	1.059	1.003	0.129	-	
2437	6	802.11n	OFDM	20	15.0	14.75	15.0	14.92	0.01	5 mm	MIMO	Q	1598S	13	bottom	99.7	0.111	-	1.059	1.003	-	-	
2437	6	802.11n	OFDM	20	15.0	14.75	15.0	14.92	0.01	5 mm	MIMO	Q	1598S	13	right	99.7	0.046	-	1.059	1.003	-	-	
2437	6	802.11n	OFDM	20	15.0	14.75	15.0	14.92	0.02	5 mm	MIMO	Q	1598S	13	left	99.7	0.133	0.106	1.059	1.003	0.113	-	
2437	6	802.11n	OFDM	20	15.0	14.73	15.0	14.89	0.01	5 mm	MIMO	N	0115S	13	back	99.7	0.052	-	1.064	1.003	-	-	
2437	6	802.11n	OFDM	20	15.0	14.73	15.0	14.89	0.02	5 mm	MIMO	N	0115S	13	front	99.7	0.146	0.124	1.064	1.003	0.132	-	
2437	6	802.11n	OFDM	20	15.0	14.73	15.0	14.89	0.02	5 mm	MIMO	N	0115S	13	bottom	99.7	0.125	-	1.064	1.003	-	-	
2437	6	802.11n	OFDM	20	15.0	14.73	15.0	14.89	0.02	5 mm	MIMO	N	0115S	13	right	99.7	0.046	-	1.064	1.003	-	-	
2437	6	802.11n	OFDM	20	15.0	14.73	15.0	14.89	0.02	5 mm	MIMO	N	0115S	13	left	99.7	0.261	0.171	1.064	1.003	0.182	-	
5775	155	802.11ac	OFDM	80	15.0	14.01	15.0	14.73	0.00	5 mm	MIMO	Q	1600S	58.5	back	99.7	0.000	-	1.256	1.003	-	-	
5775	155	802.11ac	OFDM	80	15.0	14.01	15.0	14.73	0.00	5 mm	MIMO	Q	1600S	58.5	front	99.7	0.166	0.096	1.256	1.003	0.121	-	
5775	155	802.11ac	OFDM	80	15.0	14.01	15.0	14.73	0.02	5 mm	MIMO	Q	1600S	58.5	bottom	99.7	0.086	0.040	1.256	1.003	0.050	-	
5775	155	802.11ac	OFDM	80	15.0	14.01	15.0	14.73	0.03	5 mm	MIMO	Q	1600S	58.5	right	99.7	0.013	0.000	1.256	1.003	0.000	-	
5775	155	802.11ac	OFDM	80	15.0	14.01	15.0	14.73	0.01	5 mm	MIMO	Q	1600S	58.5	left	99.7	0.142	0.109	1.256	1.003	0.137	-	
5775	155	802.11ac	OFDM	80	15.0	14.59	15.0	14.76	0.01	5 mm	MIMO	N	0677M	58.5	back	99.7	0.048	-	1.099	1.003	-	-	
5775	155	802.11ac	OFDM	80	15.0	14.59	15.0	14.76	0.01	5 mm	MIMO	N	0677M	58.5	front	99.7	0.346	0.239	1.099	1.003	0.263	-	
5775	155	802.11ac	OFDM	80	15.0	14.59	15.0	14.76	0.03	5 mm	MIMO	N	0677M	58.5	bottom	99.7	0.212	0.127	1.099	1.003	0.140	-	
5775	155	802.11ac	OFDM	80	15.0	14.59	15.0	14.76	0.01	5 mm	MIMO	N	0677M	58.5	right	99.7	0.034	0.017	1.099	1.003	0.019	-	
5775	155	802.11ac	OFDM	80	15.0	14.59	15.0	14.76	0.02	5 mm	MIMO	N	0677M	58.5	left	99.7	0.325	0.248	1.099	1.003	0.273	-	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT										Body													
Spatial Peak										1.6 W/kg (mW/g)													
Uncontrolled Exposure/General Population										averaged over 1 gram													

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

Table 11-132
DSS Hotspot SAR – Closed

MEASUREMENT RESULTS																			
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Chipset Variant	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	16.0	15.43	0.02	5 mm	1	Q	2044M	1	back	76.80	0.046	1.140	1.302	0.068		
2441	39	Bluetooth	FHSS	16.0	15.43	0.00	5 mm	1	Q	2044M	1	front	76.80	0.194	1.140	1.302	0.288		
2441	39	Bluetooth	FHSS	16.0	15.43	0.02	5 mm	1	Q	2044M	1	bottom	76.80	0.068	1.140	1.302	0.101		
2441	39	Bluetooth	FHSS	16.0	15.43	0.00	5 mm	1	Q	2044M	1	right	76.80	0.045	1.140	1.302	0.067		
2441	39	Bluetooth	FHSS	17.0	16.61	0.00	5 mm	2	Q	2044M	1	back	76.80	0.036	1.094	1.302	0.051		
2441	39	Bluetooth	FHSS	17.0	16.61	0.00	5 mm	2	Q	2044M	1	front	76.80	0.177	1.094	1.302	0.252		
2441	39	Bluetooth	FHSS	17.0	16.61	0.00	5 mm	2	Q	2044M	1	bottom	76.80	0.115	1.094	1.302	0.164		
2441	39	Bluetooth	FHSS	17.0	16.61	0.00	5 mm	2	Q	2044M	1	left	76.80	0.053	1.094	1.302	0.075		
2441	39	Bluetooth	FHSS	16.0	15.55	0.02	5 mm	1	N	0694M	1	back	76.80	0.039	1.109	1.302	0.056		
2441	39	Bluetooth	FHSS	16.0	15.55	0.00	5 mm	1	N	0694M	1	front	76.80	0.133	1.109	1.302	0.192		
2441	39	Bluetooth	FHSS	16.0	15.55	0.00	5 mm	1	N	0694M	1	bottom	76.80	0.085	1.109	1.302	0.123		
2441	39	Bluetooth	FHSS	16.0	15.55	0.01	5 mm	1	N	0694M	1	right	76.80	0.053	1.109	1.302	0.077		
2480	78	Bluetooth	FHSS	17.0	16.60	0.01	5 mm	2	N	0694M	1	back	76.80	0.059	1.096	1.302	0.084		
2480	78	Bluetooth	FHSS	17.0	16.60	0.00	5 mm	2	N	0694M	1	front	76.80	0.194	1.096	1.302	0.277		
2480	78	Bluetooth	FHSS	17.0	16.60	0.02	5 mm	2	N	0694M	1	bottom	76.80	0.142	1.096	1.302	0.203		
2480	78	Bluetooth	FHSS	17.0	16.60	0.05	5 mm	2	N	0694M	1	left	76.80	0.197	1.096	1.302	0.281	A93	
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 11-133
DSS Hotspot SAR for Conditions with 5G NR – Closed

MEASUREMENT RESULTS																		
FREQUENCY		Mode	Service	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Spacing	Antenna Config.	Chipset Variant	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	14.0	13.10	0.02	5 mm	1	Q	2044M	1	back	76.80	0.013	1.230	1.302	0.021	
2441	39	Bluetooth	FHSS	14.0	13.10	0.02	5 mm	1	Q	2044M	1	front	76.80	0.065	1.230	1.302	0.104	
2441	39	Bluetooth	FHSS	14.0	13.10	0.02	5 mm	1	Q	2044M	1	bottom	76.80	0.031	1.230	1.302	0.050	
2441	39	Bluetooth	FHSS	14.0	13.10	0.02	5 mm	1	Q	2044M	1	right	76.80	0.012	1.230	1.302	0.019	
2441	39	Bluetooth	FHSS	14.0	13.93	0.00	5 mm	2	Q	2044M	1	back	76.80	0.016	1.016	1.302	0.021	
2441	39	Bluetooth	FHSS	14.0	13.93	0.00	5 mm	2	Q	2044M	1	front	76.80	0.076	1.016	1.302	0.101	
2441	39	Bluetooth	FHSS	14.0	13.93	0.00	5 mm	2	Q	2044M	1	bottom	76.80	0.043	1.016	1.302	0.057	
2441	39	Bluetooth	FHSS	14.0	13.93	0.00	5 mm	2	Q	2044M	1	left	76.80	0.016	1.016	1.302	0.021	
2441	39	Bluetooth	FHSS	14.0	13.11	0.02	5 mm	1	N	0694M	1	back	76.80	0.018	1.227	1.302	0.029	
2441	39	Bluetooth	FHSS	14.0	13.11	0.02	5 mm	1	N	0694M	1	front	76.80	0.070	1.227	1.302	0.112	
2441	39	Bluetooth	FHSS	14.0	13.11	0.02	5 mm	1	N	0694M	1	bottom	76.80	0.035	1.227	1.302	0.056	
2441	39	Bluetooth	FHSS	14.0	13.11	0.01	5 mm	1	N	0694M	1	right	76.80	0.020	1.227	1.302	0.032	
2480	78	Bluetooth	FHSS	14.0	13.67	0.02	5 mm	2	N	0694M	1	back	76.80	0.025	1.079	1.302	0.035	
2480	78	Bluetooth	FHSS	14.0	13.67	0.01	5 mm	2	N	0694M	1	front	76.80	0.080	1.079	1.302	0.112	
2480	78	Bluetooth	FHSS	14.0	13.67	0.01	5 mm	2	N	0694M	1	bottom	76.80	0.063	1.079	1.302	0.089	
2480	78	Bluetooth	FHSS	14.0	13.67	0.02	5 mm	2	N	0694M	1	left	76.80	0.078	1.079	1.302	0.110	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT							Body											
Spatial Peak							1.6 W/kg (mW/g)											
Uncontrolled Exposure/General Population							averaged over 1 gram											

Note: BT was additionally evaluated at the maximum allowed output power during operations with Simultaneous 5G NR active. 5G NR was not transmitting during BT evaluations.

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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.
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" 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.
11. Unless otherwise noted, when 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds below.
12. 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.
13. Additional SAR tests for phablet SAR were evaluated per KDB 616217 Section 6 (See Section 6.9 for more information).
14. This device has an open and closed configuration. When closed, 1g SAR test are required for back side at a test separation distance of 15mm for body-worn, and on all surfaces and edges with an antenna ≤ 25 mm from that surface or edge at a test separation distance 10mm for hotspot.
15. 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

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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.
3. 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.
4. Head SAR was additionally evaluated using EVDO Rev. A to determine compliance for VoIP operations.
5. 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.
6. 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:

1. 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.
2. 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:

1. 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.
2. 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.
3. A-MPR was disabled for all SAR tests by setting NS=01 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).
4. Per FCC KDB Publication 447498 D01v06, when the reported LTE Band 48 and 41 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.
5. 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.

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6. 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.
7. 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.
8. 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 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. 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. Simultaneous transmission analysis for EN-DC operations is addressed in the Part 2 Test Report (Serial Number can be found in the bibliography).
3. Due to test setup limitations, SAR testing for NR was performed using test mode software to establish the connection.
4. Simultaneous transmission analysis for EN-DC operations is included in Section 12. This device additionally supports some EN-DC conditions where additional LTE carriers are added on the downlink only. Per FCC guidance, all unique uplink combinations were assessed.
5. 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.
6. 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.
7. 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.
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

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WLAN Notes:

1. For held-to-ear, hotspot, and phablet operations, the initial test position procedures were applied. The test position with the highest extrapolated peak SAR will be used as the initial test position. 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 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) 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 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. 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.
5. 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 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.
6. 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.
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.

Qualcomm Smart Transmit algorithm in WWAN adds directly the time-averaged RF exposure from 4G and time-averaged 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.

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12.3 Head SAR Simultaneous Transmission Analysis

Table 12-1
Simultaneous Transmission Scenario with 5 GHz WLAN Antenna 1 (Held to Ear)

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
Head SAR	Cell. CDMA/EVDO	0.236	0.147	0.383
	PCS CDMA/EVDO	0.098	0.147	0.245
	GSM 850	0.131	0.147	0.278
	GSM 1900	0.048	0.147	0.195
	UMTS 850	0.207	0.147	0.354
	UMTS 1750	0.093	0.147	0.240
	UMTS 1900	0.094	0.147	0.241
	LTE Band 71	0.224	0.147	0.371
	LTE Band 12	0.260	0.147	0.407
	LTE Band 13	0.287	0.147	0.434
	LTE Band 14	0.279	0.147	0.426
	LTE Band 26 (Cell)	0.309	0.147	0.456
	LTE Band 5 (Cell)	0.272	0.147	0.419
	LTE Band 66 (AWS)	0.151	0.147	0.298
	LTE Band 25 (PCS)	0.120	0.147	0.267
	LTE Band 30	0.042	0.147	0.189
	LTE Band 7	0.056	0.147	0.203
	LTE Band 48	0.613	0.147	0.760
	LTE Band 41	0.121	0.147	0.268
	NR Band n71	0.279	0.147	0.426
	NR Band n12	0.340	0.147	0.487
	NR Band n5 (Cell)	0.322	0.147	0.469
	NR Band n66 (AWS)	1.019	0.147	1.166
	NR Band n25 (PCS)	0.957	0.147	1.104
	NR Band n30	0.082	0.147	0.229
	NR Band n41	1.052	0.147	1.199
	NR Band n77 DoD	0.658	0.147	0.805
	NR Band n77	0.753	0.147	0.900

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

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
Head SAR	Cell. CDMA/EVDO	0.236	0.266	0.502
	PCS CDMA/EVDO	0.098	0.266	0.364
	GSM 850	0.131	0.266	0.397
	GSM 1900	0.048	0.266	0.314
	UMTS 850	0.207	0.266	0.473
	UMTS 1750	0.093	0.266	0.359
	UMTS 1900	0.094	0.266	0.360
	LTE Band 71	0.224	0.266	0.490
	LTE Band 12	0.260	0.266	0.526
	LTE Band 13	0.287	0.266	0.553
	LTE Band 14	0.279	0.266	0.545
	LTE Band 26 (Cell)	0.309	0.266	0.575
	LTE Band 5 (Cell)	0.272	0.266	0.538
	LTE Band 66 (AWS)	0.151	0.266	0.417
	LTE Band 25 (PCS)	0.120	0.266	0.386
	LTE Band 30	0.042	0.266	0.308
	LTE Band 7	0.056	0.266	0.322
	LTE Band 48	0.613	0.266	0.879
	LTE Band 41	0.121	0.266	0.387
	NR Band n71	0.279	0.266	0.545
	NR Band n12	0.340	0.266	0.606
	NR Band n5 (Cell)	0.322	0.266	0.588
	NR Band n66 (AWS)	1.019	0.266	1.285
	NR Band n25 (PCS)	0.957	0.266	1.223
	NR Band n30	0.082	0.266	0.348
	NR Band n41	1.052	0.266	1.318
	NR Band n77 DoD	0.658	0.266	0.924
	NR Band n77	0.753	0.266	1.019

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Table 12-3
Simultaneous Transmission Scenario with 2.4 GHz MIMO 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	Cell. CDMA/EVDO	0.236	0.481	0.717
	PCS CDMA/EVDO	0.098	0.481	0.579
	GSM 850	0.131	0.481	0.612
	GSM 1900	0.048	0.481	0.529
	UMTS 850	0.207	0.481	0.688
	UMTS 1750	0.093	0.481	0.574
	UMTS 1900	0.094	0.481	0.575
	LTE Band 71	0.224	0.481	0.705
	LTE Band 12	0.260	0.481	0.741
	LTE Band 13	0.287	0.481	0.768
	LTE Band 14	0.279	0.481	0.760
	LTE Band 26 (Cell)	0.309	0.481	0.790
	LTE Band 5 (Cell)	0.272	0.481	0.753
	LTE Band 66 (AWS)	0.151	0.481	0.632
	LTE Band 25 (PCS)	0.120	0.481	0.601
	LTE Band 30	0.042	0.481	0.523
	LTE Band 7	0.056	0.481	0.537
	LTE Band 48	0.613	0.481	1.094
	LTE Band 41	0.121	0.481	0.602
	NR Band n71	0.279	0.481	0.760
	NR Band n12	0.340	0.481	0.821
	NR Band n5 (Cell)	0.322	0.481	0.803
	NR Band n66 (AWS)	1.019	0.481	1.500
	NR Band n25 (PCS)	0.957	0.481	1.438
	NR Band n30	0.082	0.481	0.563
	NR Band n41	1.052	0.481	1.533
	NR Band n77 DoD	0.658	0.481	1.139
	NR Band n77	0.753	0.481	1.234

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Table 12-4
Simultaneous Transmission Scenario with Bluetooth Antenna 1 (Held to Ear)

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
Head SAR	Cell. CDMA/EVDO	0.236	0.125	0.361
	PCS CDMA/EVDO	0.098	0.125	0.223
	GSM 850	0.131	0.125	0.256
	GSM 1900	0.048	0.125	0.173
	UMTS 850	0.207	0.125	0.332
	UMTS 1750	0.093	0.125	0.218
	UMTS 1900	0.094	0.125	0.219
	LTE Band 71	0.224	0.125	0.349
	LTE Band 12	0.260	0.125	0.385
	LTE Band 13	0.287	0.125	0.412
	LTE Band 14	0.279	0.125	0.404
	LTE Band 26 (Cell)	0.309	0.125	0.434
	LTE Band 5 (Cell)	0.272	0.125	0.397
	LTE Band 66 (AWS)	0.151	0.125	0.276
	LTE Band 25 (PCS)	0.120	0.125	0.245
	LTE Band 30	0.042	0.125	0.167
	LTE Band 7	0.056	0.125	0.181
	LTE Band 48	0.613	0.125	0.738
	LTE Band 41	0.121	0.125	0.246
	NR Band n71	0.279	0.125	0.404
	NR Band n12	0.340	0.125	0.465
	NR Band n5 (Cell)	0.322	0.125	0.447
	NR Band n66 (AWS)	1.019	0.125	1.144
	NR Band n25 (PCS)	0.957	0.125	1.082
	NR Band n30	0.082	0.125	0.207
	NR Band n41	1.052	0.125	1.177
	NR Band n77 DoD	0.658	0.125	0.783
	NR Band n77	0.753	0.125	0.878

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Table 12-5
Simultaneous Transmission Scenario with Bluetooth Antenna 2 (Held to Ear)

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
Head SAR	Cell. CDMA/EVDO	0.236	0.207	0.443
	PCS CDMA/EVDO	0.098	0.207	0.305
	GSM 850	0.131	0.207	0.338
	GSM 1900	0.048	0.207	0.255
	UMTS 850	0.207	0.207	0.414
	UMTS 1750	0.093	0.207	0.300
	UMTS 1900	0.094	0.207	0.301
	LTE Band 71	0.224	0.207	0.431
	LTE Band 12	0.260	0.207	0.467
	LTE Band 13	0.287	0.207	0.494
	LTE Band 14	0.279	0.207	0.486
	LTE Band 26 (Cell)	0.309	0.207	0.516
	LTE Band 5 (Cell)	0.272	0.207	0.479
	LTE Band 66 (AWS)	0.151	0.207	0.358
	LTE Band 25 (PCS)	0.120	0.207	0.327
	LTE Band 30	0.042	0.207	0.249
	LTE Band 7	0.056	0.207	0.263
	LTE Band 48	0.613	0.207	0.820
	LTE Band 41	0.121	0.207	0.328
	NR Band n71	0.279	0.207	0.486
	NR Band n12	0.340	0.207	0.547
	NR Band n5 (Cell)	0.322	0.207	0.529
	NR Band n66 (AWS)	1.019	0.207	1.226
	NR Band n25 (PCS)	0.957	0.207	1.164
	NR Band n30	0.082	0.207	0.289
	NR Band n41	1.052	0.207	1.259
	NR Band n77 DoD	0.658	0.207	0.865
	NR Band n77	0.753	0.207	0.960

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Table 12-6

Simultaneous Transmission Scenario with Bluetooth Antenna 1 and 5 GHz Antenna 1 WLAN (Held to Ear)

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Head SAR	Cell. CDMA/EVDO	0.236	0.125	0.147	0.508
	PCS CDMA/EVDO	0.098	0.125	0.147	0.370
	GSM 850	0.131	0.125	0.147	0.403
	GSM 1900	0.048	0.125	0.147	0.320
	UMTS 850	0.207	0.125	0.147	0.479
	UMTS 1750	0.093	0.125	0.147	0.365
	UMTS 1900	0.094	0.125	0.147	0.366
	LTE Band 71	0.224	0.125	0.147	0.496
	LTE Band 12	0.260	0.125	0.147	0.532
	LTE Band 13	0.287	0.125	0.147	0.559
	LTE Band 14	0.279	0.125	0.147	0.551
	LTE Band 26 (Cell)	0.309	0.125	0.147	0.581
	LTE Band 5 (Cell)	0.272	0.125	0.147	0.544
	LTE Band 66 (AWS)	0.151	0.125	0.147	0.423
	LTE Band 25 (PCS)	0.120	0.125	0.147	0.392
	LTE Band 30	0.042	0.125	0.147	0.314
	LTE Band 7	0.056	0.125	0.147	0.328
	LTE Band 48	0.613	0.125	0.147	0.885
	LTE Band 41	0.121	0.125	0.147	0.393
	NR Band n71	0.279	0.125	0.147	0.551
	NR Band n12	0.340	0.125	0.147	0.612
	NR Band n5 (Cell)	0.322	0.125	0.147	0.594
	NR Band n66 (AWS)	1.019	0.125	0.147	1.291
	NR Band n25 (PCS)	0.957	0.125	0.147	1.229
	NR Band n30	0.082	0.125	0.147	0.354
	NR Band n41	1.052	0.125	0.147	1.324
	NR Band n77 DoD	0.658	0.125	0.147	0.930
	NR Band n77	0.753	0.125	0.147	1.025

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Table 12-7

Simultaneous Transmission Scenario with Bluetooth Antenna 2 and 5 GHz Antenna 1 WLAN (Held to Ear)

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Head SAR	Cell. CDMA/EVDO	0.236	0.207	0.147	0.590
	PCS CDMA/EVDO	0.098	0.207	0.147	0.452
	GSM 850	0.131	0.207	0.147	0.485
	GSM 1900	0.048	0.207	0.147	0.402
	UMTS 850	0.207	0.207	0.147	0.561
	UMTS 1750	0.093	0.207	0.147	0.447
	UMTS 1900	0.094	0.207	0.147	0.448
	LTE Band 71	0.224	0.207	0.147	0.578
	LTE Band 12	0.260	0.207	0.147	0.614
	LTE Band 13	0.287	0.207	0.147	0.641
	LTE Band 14	0.279	0.207	0.147	0.633
	LTE Band 26 (Cell)	0.309	0.207	0.147	0.663
	LTE Band 5 (Cell)	0.272	0.207	0.147	0.626
	LTE Band 66 (AWS)	0.151	0.207	0.147	0.505
	LTE Band 25 (PCS)	0.120	0.207	0.147	0.474
	LTE Band 30	0.042	0.207	0.147	0.396
	LTE Band 7	0.056	0.207	0.147	0.410
	LTE Band 48	0.613	0.207	0.147	0.967
	LTE Band 41	0.121	0.207	0.147	0.475
	NR Band n71	0.279	0.207	0.147	0.633
	NR Band n12	0.340	0.207	0.147	0.694
	NR Band n5 (Cell)	0.322	0.207	0.147	0.676
	NR Band n66 (AWS)	1.019	0.207	0.147	1.373
	NR Band n25 (PCS)	0.957	0.207	0.147	1.311
	NR Band n30	0.082	0.207	0.147	0.436
	NR Band n41	1.052	0.207	0.147	1.406
	NR Band n77 DoD	0.658	0.207	0.147	1.012
	NR Band n77	0.753	0.207	0.147	1.107

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Table 12-8
Simultaneous Transmission Scenario with Bluetooth Antenna 1 and 5GHz MIMO WLAN (Held to Ear)

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Head SAR	Cell. CDMA/EVDO	0.236	0.125	0.266	0.627
	PCS CDMA/EVDO	0.098	0.125	0.266	0.489
	GSM 850	0.131	0.125	0.266	0.522
	GSM 1900	0.048	0.125	0.266	0.439
	UMTS 850	0.207	0.125	0.266	0.598
	UMTS 1750	0.093	0.125	0.266	0.484
	UMTS 1900	0.094	0.125	0.266	0.485
	LTE Band 71	0.224	0.125	0.266	0.615
	LTE Band 12	0.260	0.125	0.266	0.651
	LTE Band 13	0.287	0.125	0.266	0.678
	LTE Band 14	0.279	0.125	0.266	0.670
	LTE Band 26 (Cell)	0.309	0.125	0.266	0.700
	LTE Band 5 (Cell)	0.272	0.125	0.266	0.663
	LTE Band 66 (AWS)	0.151	0.125	0.266	0.542
	LTE Band 25 (PCS)	0.120	0.125	0.266	0.511
	LTE Band 30	0.042	0.125	0.266	0.433
	LTE Band 7	0.056	0.125	0.266	0.447
	LTE Band 48	0.613	0.125	0.266	1.004
	LTE Band 41	0.121	0.125	0.266	0.512
	NR Band n71	0.279	0.125	0.266	0.670
	NR Band n12	0.340	0.125	0.266	0.731
	NR Band n5 (Cell)	0.322	0.125	0.266	0.713
	NR Band n66 (AWS)	1.019	0.125	0.266	1.410
	NR Band n25 (PCS)	0.957	0.125	0.266	1.348
	NR Band n30	0.082	0.125	0.266	0.473
	NR Band n41	1.052	0.125	0.266	1.443
	NR Band n77 DoD	0.658	0.125	0.266	1.049
	NR Band n77	0.753	0.125	0.266	1.144

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Table 12-9
Simultaneous Transmission Scenario with Bluetooth Antenna 2 and 5GHz MIMO WLAN (Held to Ear)

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Head SAR	Cell. CDMA/EVDO	0.236	0.207	0.266	0.709
	PCS CDMA/EVDO	0.098	0.207	0.266	0.571
	GSM 850	0.131	0.207	0.266	0.604
	GSM 1900	0.048	0.207	0.266	0.521
	UMTS 850	0.207	0.207	0.266	0.680
	UMTS 1750	0.093	0.207	0.266	0.566
	UMTS 1900	0.094	0.207	0.266	0.567
	LTE Band 71	0.224	0.207	0.266	0.697
	LTE Band 12	0.260	0.207	0.266	0.733
	LTE Band 13	0.287	0.207	0.266	0.760
	LTE Band 14	0.279	0.207	0.266	0.752
	LTE Band 26 (Cell)	0.309	0.207	0.266	0.782
	LTE Band 5 (Cell)	0.272	0.207	0.266	0.745
	LTE Band 66 (AWS)	0.151	0.207	0.266	0.624
	LTE Band 25 (PCS)	0.120	0.207	0.266	0.593
	LTE Band 30	0.042	0.207	0.266	0.515
	LTE Band 7	0.056	0.207	0.266	0.529
	LTE Band 48	0.613	0.207	0.266	1.086
	LTE Band 41	0.121	0.207	0.266	0.594
	NR Band n71	0.279	0.207	0.266	0.752
	NR Band n12	0.340	0.207	0.266	0.813
	NR Band n5 (Cell)	0.322	0.207	0.266	0.795
	NR Band n66 (AWS)	1.019	0.207	0.266	1.492
	NR Band n25 (PCS)	0.957	0.207	0.266	1.430
	NR Band n30	0.082	0.207	0.266	0.555
	NR Band n41	1.052	0.207	0.266	1.525
	NR Band n77 DoD	0.658	0.207	0.266	1.131
	NR Band n77	0.753	0.207	0.266	1.226

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

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Head SAR	Cell. CDMA/EVDO	0.236	0.125	0.514	0.875
	PCS CDMA/EVDO	0.098	0.125	0.514	0.737
	GSM 850	0.131	0.125	0.514	0.770
	GSM 1900	0.048	0.125	0.514	0.687
	UMTS 850	0.207	0.125	0.514	0.846
	UMTS 1750	0.093	0.125	0.514	0.732
	UMTS 1900	0.094	0.125	0.514	0.733
	LTE Band 71	0.224	0.125	0.514	0.863
	LTE Band 12	0.260	0.125	0.514	0.899
	LTE Band 13	0.287	0.125	0.514	0.926
	LTE Band 14	0.279	0.125	0.514	0.918
	LTE Band 26 (Cell)	0.309	0.125	0.514	0.948
	LTE Band 5 (Cell)	0.272	0.125	0.514	0.911
	LTE Band 66 (AWS)	0.151	0.125	0.514	0.790
	LTE Band 25 (PCS)	0.120	0.125	0.514	0.759
	LTE Band 30	0.042	0.125	0.514	0.681
	LTE Band 7	0.056	0.125	0.514	0.695
	LTE Band 48	0.613	0.125	0.514	1.252
	LTE Band 41	0.121	0.125	0.514	0.760
	NR Band n71	0.279	0.125	0.514	0.918
	NR Band n12	0.340	0.125	0.514	0.979
	NR Band n5 (Cell)	0.322	0.125	0.514	0.961
	NR Band n66 (AWS)	1.019	0.125	0.514	See Table Below
	NR Band n25 (PCS)	0.957	0.125	0.514	See Table Below
	NR Band n30	0.082	0.125	0.514	0.721
	NR Band n41	1.052	0.125	0.514	See Table Below
	NR Band n77 DoD	0.658	0.125	0.514	1.297
	NR Band n77	0.753	0.125	0.514	1.392

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Simult Tx	Configuration	NR Band n66 (AWS) Ant A SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	NR Band n25 (PCS) Ant A SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3			1	2	3	1+2+3
Head SAR	Right Cheek	0.140	0.125	0.514	0.779	Head SAR	Right Cheek	0.084	0.125	0.514	0.723
	Right Tilt	0.057	0.093	0.393	0.543		Right Tilt	0.053	0.093	0.393	0.539
	Left Cheek	0.072	0.125	0.123	0.320		Left Cheek	0.099	0.125	0.123	0.347
	Left Tilt	0.062	0.073	0.514*	0.649		Left Tilt	0.044	0.073	0.514*	0.631
Simult Tx	Configuration	NR Band n66 (AWS) Ant I SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	NR Band n25 (PCS) Ant I SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3			1	2	3	1+2+3
Head SAR	Right Cheek	0.475	0.125	0.514	1.114	Head SAR	Right Cheek	0.299	0.125	0.514	0.938
	Right Tilt	0.093	0.093	0.393	0.579		Right Tilt	0.088	0.093	0.393	0.574
	Left Cheek	1.019	0.125	0.123	1.267		Left Cheek	0.957	0.125	0.123	1.205
	Left Tilt	0.198	0.073	0.514*	0.785		Left Tilt	0.144	0.073	0.514*	0.731
Simult Tx	Configuration	NR Band n41 SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	NR Band n41 SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3			1	2	3	1+2+3
Head SAR	Right Cheek	0.321	0.125	0.514	0.960	Head SAR	Right Cheek	0.321	0.125	0.514	0.960
	Right Tilt	0.068	0.093	0.393	0.554		Right Tilt	0.068	0.093	0.393	0.554
	Left Cheek	1.052	0.125	0.123	1.300		Left Cheek	1.052	0.125	0.123	1.300
	Left Tilt	0.199	0.073	0.514*	0.786		Left Tilt	0.199	0.073	0.514*	0.786

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Table 12-11
Simultaneous Transmission Scenario with Bluetooth Antenna 1, 2.4 GHz Antenna 2 WLAN,
and 5 GHz Antenna 1 WLAN (Held to Ear)

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Head SAR	Cell. CDMA/EVDO	0.236	0.125	0.514	0.147	1.022
	PCS CDMA/EVDO	0.098	0.125	0.514	0.147	0.884
	GSM 850	0.131	0.125	0.514	0.147	0.917
	GSM 1900	0.048	0.125	0.514	0.147	0.834
	UMTS 850	0.207	0.125	0.514	0.147	0.993
	UMTS 1750	0.093	0.125	0.514	0.147	0.879
	UMTS 1900	0.094	0.125	0.514	0.147	0.880
	LTE Band 71	0.224	0.125	0.514	0.147	1.010
	LTE Band 12	0.260	0.125	0.514	0.147	1.046
	LTE Band 13	0.287	0.125	0.514	0.147	1.073
	LTE Band 14	0.279	0.125	0.514	0.147	1.065
	LTE Band 26 (Cell)	0.309	0.125	0.514	0.147	1.095
	LTE Band 5 (Cell)	0.272	0.125	0.514	0.147	1.058
	LTE Band 66 (AWS)	0.151	0.125	0.514	0.147	0.937
	LTE Band 25 (PCS)	0.120	0.125	0.514	0.147	0.906
	LTE Band 30	0.042	0.125	0.514	0.147	0.828
	LTE Band 7	0.056	0.125	0.514	0.147	0.842
	LTE Band 48	0.613	0.125	0.514	0.147	1.399
	LTE Band 41	0.121	0.125	0.514	0.147	0.907
	NR Band n71	0.279	0.125	0.514	0.147	1.065
	NR Band n12	0.340	0.125	0.514	0.147	1.126
	NR Band n5 (Cell)	0.322	0.125	0.514	0.147	1.108
	NR Band n66 (AWS)	1.019	0.125	0.514	0.147	See Table Below
	NR Band n25 (PCS)	0.957	0.125	0.514	0.147	See Table Below
	NR Band n30	0.082	0.125	0.514	0.147	0.868
	NR Band n41	1.052	0.125	0.514	0.147	See Table Below
	NR Band n77 DoD	0.658	0.125	0.514	0.147	1.444
	NR Band n77	0.753	0.125	0.514	0.147	1.539

Simult Tx	Configuration	NR Band n66 (AWS) Ant A SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	NR Band n25 (PCS) Ant A SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	5 GHz WLAN 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
Head SAR	Right Cheek	0.140	0.125	0.514	0.147*	0.926	Head SAR	Right Cheek	0.084	0.125	0.514	0.147*	0.870
	Right Tilt	0.057	0.093	0.393	0.147*	0.690		Right Tilt	0.053	0.093	0.393	0.147*	0.686
	Left Cheek	0.072	0.125	0.123	0.114	0.434		Left Cheek	0.099	0.125	0.123	0.114	0.461
	Left Tilt	0.062	0.073	0.514*	0.147	0.796		Left Tilt	0.044	0.073	0.514*	0.147	0.778
Simult Tx	Configuration	NR Band n66 (AWS) Ant I SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	NR Band n25 (PCS) Ant I SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	5 GHz WLAN 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		
Head SAR	Right Cheek	0.475	0.125	0.514	0.147*	1.261	Head SAR	Right Cheek	0.299	0.125	0.514	0.147*	1.085
	Right Tilt	0.093	0.093	0.393	0.147*	0.726		Right Tilt	0.088	0.093	0.393	0.147*	0.721
	Left Cheek	1.019	0.125	0.123	0.114	1.381		Left Cheek	0.957	0.125	0.123	0.114	1.319
	Left Tilt	0.198	0.073	0.514*	0.147	0.932		Left Tilt	0.144	0.073	0.514*	0.147	0.878

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Simult Tx	Configuration	NR Band n41 SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Head SAR	Right Cheek	0.321	0.125	0.514	0.147*	1.107
	Right Tilt	0.068	0.093	0.393	0.147*	0.701
	Left Cheek	1.052	0.125	0.123	0.114	1.414
	Left Tilt	0.199	0.073	0.514*	0.147	0.933

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

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	2.4 GHz Bluetooth 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
Head SAR	Cell. CDMA/EVDO	0.236	0.125	0.514	0.266	1.141
	PCS CDMA/EVDO	0.098	0.125	0.514	0.266	1.003
	GSM 850	0.131	0.125	0.514	0.266	1.036
	GSM 1900	0.048	0.125	0.514	0.266	0.953
	UMTS 850	0.207	0.125	0.514	0.266	1.112
	UMTS 1750	0.093	0.125	0.514	0.266	0.998
	UMTS 1900	0.094	0.125	0.514	0.266	0.999
	LTE Band 71	0.224	0.125	0.514	0.266	1.129
	LTE Band 12	0.260	0.125	0.514	0.266	1.165
	LTE Band 13	0.287	0.125	0.514	0.266	1.192
	LTE Band 14	0.279	0.125	0.514	0.266	1.184
	LTE Band 26 (Cell)	0.309	0.125	0.514	0.266	1.214
	LTE Band 5 (Cell)	0.272	0.125	0.514	0.266	1.177
	LTE Band 66 (AWS)	0.151	0.125	0.514	0.266	1.056
	LTE Band 25 (PCS)	0.120	0.125	0.514	0.266	1.025
	LTE Band 30	0.042	0.125	0.514	0.266	0.947
	LTE Band 7	0.056	0.125	0.514	0.266	0.961
	LTE Band 48	0.613	0.125	0.514	0.266	1.518
	LTE Band 41	0.121	0.125	0.514	0.266	1.026
	NR Band n71	0.279	0.125	0.514	0.266	1.184
	NR Band n12	0.340	0.125	0.514	0.266	1.245
	NR Band n5 (Cell)	0.322	0.125	0.514	0.266	1.227
	NR Band n66 (AWS)	1.019	0.125	0.514	0.266	See Table Below
	NR Band n25 (PCS)	0.957	0.125	0.514	0.266	See Table Below
	NR Band n30	0.082	0.125	0.514	0.266	0.987
	NR Band n41	1.052	0.125	0.514	0.266	See Table Below
	NR Band n77 DoD	0.658	0.125	0.514	0.266	1.563
	NR Band n77	0.753	0.125	0.514	0.266	See Table Below

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Simult Tx	Configuration	NR Band n66 (AWS) Ant A SAR (W/kg)	2.4 GHz Bluetooth 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)	Simult Tx	Configuration	NR Band n25 (PCS) Ant A SAR (W/kg)	2.4 GHz Bluetooth 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			1	2	3	4	1+2+3+4
Head SAR	Right Cheek	0.140	0.125	0.514	0.119	0.898	Head SAR	Right Cheek	0.084	0.125	0.514	0.119	0.842
	Right Tilt	0.057	0.093	0.393	0.266*	0.809		Right Tilt	0.053	0.093	0.393	0.266*	0.805
	Left Cheek	0.072	0.125	0.123	0.266	0.586		Left Cheek	0.099	0.125	0.123	0.266	0.613
	Left Tilt	0.062	0.073	0.514*	0.062	0.711		Left Tilt	0.044	0.073	0.514*	0.062	0.693
Simult Tx	Configuration	NR Band n66 (AWS) Ant I SAR (W/kg)	2.4 GHz Bluetooth 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)	Simult Tx	Configuration	NR Band n25 (PCS) Ant I SAR (W/kg)	2.4 GHz Bluetooth 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			1	2	3	2	1+2+3+4
Head SAR	Right Cheek	0.475	0.125	0.514	0.119	1.233	Head SAR	Right Cheek	0.299	0.125	0.514	0.119	1.057
	Right Tilt	0.093	0.093	0.393	0.266*	0.845		Right Tilt	0.088	0.093	0.393	0.266*	0.840
	Left Cheek	1.019	0.125	0.123	0.266	1.533		Left Cheek	0.957	0.125	0.123	0.266	1.471
	Left Tilt	0.198	0.073	0.514*	0.062	0.847		Left Tilt	0.144	0.073	0.514*	0.062	0.793

Simult Tx	Configuration	NR Band n41 SAR (W/kg)	2.4 GHz Bluetooth 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
Head SAR	Right Cheek	0.321	0.125	0.514	0.119	1.079
	Right Tilt	0.068	0.093	0.393	0.266*	0.820
	Left Cheek	1.052	0.125	0.123	0.266	1.566
	Left Tilt	0.199	0.073	0.514*	0.062	0.848

Simult Tx	Configuration	NR Band n77 Ant F SAR (W/kg)	2.4 GHz Bluetooth 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)	Simult Tx	Configuration	NR Band n77 Ant E SAR (W/kg)	2.4 GHz Bluetooth 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	2	1+2+3+4			1	2	3	2	1+2+3+4
Head SAR	Right Cheek	0.753	0.125	0.514	0.119	1.511	Head SAR	Right Cheek	0.568	0.125	0.514	0.119	1.326
	Right Tilt	0.376	0.093	0.393	0.266*	1.128		Right Tilt	0.155	0.093	0.393	0.266*	0.907
	Left Cheek	0.238	0.125	0.123	0.266	0.752		Left Cheek	0.749	0.125	0.123	0.266	1.263
	Left Tilt	0.233	0.073	0.514*	0.062	0.882		Left Tilt	0.093	0.073	0.514*	0.062	0.742
Simult Tx	Configuration	NR Band n77 Ant I SAR (W/kg)	2.4 GHz Bluetooth 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)	Simult Tx	Configuration	NR Band n77 Ant C SAR (W/kg)	2.4 GHz Bluetooth 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	2	1+2+3+4			1	2	3	2	1+2+3+4
Head SAR	Right Cheek	0.545	0.125	0.514	0.119	1.303	Head SAR	Right Cheek	0.022	0.125	0.514	0.119	0.780
	Right Tilt	0.022	0.093	0.393	0.266*	0.774		Right Tilt	0.040	0.093	0.393	0.266*	0.792
	Left Cheek	0.334	0.125	0.123	0.266	0.848		Left Cheek	0.064	0.125	0.123	0.266	0.578
	Left Tilt	0.031	0.073	0.514*	0.062	0.680		Left Tilt	0.018	0.073	0.514*	0.062	0.667

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Table 12-13
Simultaneous Transmission Scenario with 2.4 GHz MIMO WLAN and 5 GHz MIMO WLAN (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	Cell. CDMA/EVDO	0.236	0.481	0.266	0.983
	PCS CDMA/EVDO	0.098	0.481	0.266	0.845
	GSM 850	0.131	0.481	0.266	0.878
	GSM 1900	0.048	0.481	0.266	0.795
	UMTS 850	0.207	0.481	0.266	0.954
	UMTS 1750	0.093	0.481	0.266	0.840
	UMTS 1900	0.094	0.481	0.266	0.841
	LTE Band 71	0.224	0.481	0.266	0.971
	LTE Band 12	0.260	0.481	0.266	1.007
	LTE Band 13	0.287	0.481	0.266	1.034
	LTE Band 14	0.279	0.481	0.266	1.026
	LTE Band 26 (Cell)	0.309	0.481	0.266	1.056
	LTE Band 5 (Cell)	0.272	0.481	0.266	1.019
	LTE Band 66 (AWS)	0.151	0.481	0.266	0.898
	LTE Band 25 (PCS)	0.120	0.481	0.266	0.867
	LTE Band 30	0.042	0.481	0.266	0.789
	LTE Band 7	0.056	0.481	0.266	0.803
	LTE Band 48	0.613	0.481	0.266	1.360
	LTE Band 41	0.121	0.481	0.266	0.868
	NR Band n71	0.279	0.481	0.266	1.026
	NR Band n12	0.340	0.481	0.266	1.087
	NR Band n5 (Cell)	0.322	0.481	0.266	1.069
	NR Band n66 (AWS)	1.019	0.481	0.266	See Table Below
	NR Band n25 (PCS)	0.957	0.481	0.266	See Table Below
	NR Band n30	0.082	0.481	0.266	0.829
	NR Band n41	1.052	0.481	0.266	See Table Below
	NR Band n77 DoD	0.658	0.481	0.266	1.405
	NR Band n77	0.753	0.481	0.266	1.500

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Simult Tx	Configuration	NR Band n66 (AWS) Ant A SAR (W/kg)	2.4 GHz WLAN MIMO SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	NR Band n25 (PCS) Ant A 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			1	2	3	1+2+3
Head SAR	Right Cheek	0.140	0.481	0.119	0.740	Head SAR	Right Cheek	0.084	0.481	0.119	0.684
	Right Tilt	0.057	0.328	0.266*	0.651		Right Tilt	0.053	0.328	0.266*	0.647
	Left Cheek	0.072	0.275	0.266	0.613		Left Cheek	0.099	0.275	0.266	0.640
	Left Tilt	0.062	0.481*	0.062	0.605		Left Tilt	0.044	0.481*	0.062	0.587
Simult Tx	Configuration	NR Band n66 (AWS) Ant I SAR (W/kg)	2.4 GHz WLAN MIMO SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	NR Band n25 (PCS) Ant I 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			1	2	3	1+2+3
Head SAR	Right Cheek	0.475	0.481	0.119	1.075	Head SAR	Right Cheek	0.299	0.481	0.119	0.899
	Right Tilt	0.093	0.328	0.266*	0.687		Right Tilt	0.088	0.328	0.266*	0.682
	Left Cheek	1.019	0.275	0.266	1.560		Left Cheek	0.957	0.275	0.266	1.498
	Left Tilt	0.198	0.481*	0.062	0.741		Left Tilt	0.144	0.481*	0.062	0.687
Simult Tx	Configuration	NR Band n41 SAR (W/kg)	2.4 GHz WLAN MIMO SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	NR Band n41 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			1	2	3	1+2+3
Head SAR	Right Cheek	0.321	0.481	0.119	0.921	Head SAR	Right Cheek	0.321	0.481	0.119	0.921
	Right Tilt	0.068	0.328	0.266*	0.662		Right Tilt	0.068	0.328	0.266*	0.662
	Left Cheek	1.052	0.275	0.266	1.593		Left Cheek	1.052	0.275	0.266	1.593
	Left Tilt	0.199	0.481*	0.062	0.742		Left Tilt	0.199	0.481*	0.062	0.742

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12.4 Open Body-Worn Simultaneous Transmission Analysis

Table 12-14
Simultaneous Transmission Scenario with 5 GHz WLAN Antenna 1 (Body-Worn at 1.5 cm)

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
Body-Worn SAR	Cell. CDMA	0.234	0.128	0.362
	PCS CDMA	1.017	0.128	1.145
	GSM 850	0.136	0.128	0.264
	GSM 1900	0.332	0.128	0.460
	UMTS 850	0.215	0.128	0.343
	UMTS 1750	0.560	0.128	0.688
	UMTS 1900	0.462	0.128	0.590
	LTE Band 71	0.368	0.128	0.496
	LTE Band 12	0.272	0.128	0.400
	LTE Band 13	0.224	0.128	0.352
	LTE Band 14	0.283	0.128	0.411
	LTE Band 26 (Cell)	0.248	0.128	0.376
	LTE Band 5 (Cell)	0.274	0.128	0.402
	LTE Band 66 (AWS)	1.075	0.128	1.203
	LTE Band 25 (PCS)	1.019	0.128	1.147
	LTE Band 30	0.473	0.128	0.601
	LTE Band 7	0.570	0.128	0.698
	LTE Band 48	0.185	0.128	0.313
	LTE Band 41	0.451	0.128	0.579
	NR Band n71	0.368	0.128	0.496
	NR Band n12	0.433	0.128	0.561
	NR Band n5 (Cell)	0.268	0.128	0.396
	NR Band n66 (AWS)	0.863	0.128	0.991
	NR Band n25 (PCS)	0.722	0.128	0.850
	NR Band n30	0.578	0.128	0.706
	NR Band n41	0.233	0.128	0.361
	NR Band n77 DoD	0.210	0.128	0.338
	NR Band n77	0.261	0.128	0.389

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

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
Body-Worn SAR	Cell. CDMA	0.234	0.148	0.382
	PCS CDMA	1.017	0.148	1.165
	GSM 850	0.136	0.148	0.284
	GSM 1900	0.332	0.148	0.480
	UMTS 850	0.215	0.148	0.363
	UMTS 1750	0.560	0.148	0.708
	UMTS 1900	0.462	0.148	0.610
	LTE Band 71	0.368	0.148	0.516
	LTE Band 12	0.272	0.148	0.420
	LTE Band 13	0.224	0.148	0.372
	LTE Band 14	0.283	0.148	0.431
	LTE Band 26 (Cell)	0.248	0.148	0.396
	LTE Band 5 (Cell)	0.274	0.148	0.422
	LTE Band 66 (AWS)	1.075	0.148	1.223
	LTE Band 25 (PCS)	1.019	0.148	1.167
	LTE Band 30	0.473	0.148	0.621
	LTE Band 7	0.570	0.148	0.718
	LTE Band 48	0.185	0.148	0.333
	LTE Band 41	0.451	0.148	0.599
	NR Band n71	0.368	0.148	0.516
	NR Band n12	0.433	0.148	0.581
	NR Band n5 (Cell)	0.268	0.148	0.416
	NR Band n66 (AWS)	0.863	0.148	1.011
	NR Band n25 (PCS)	0.722	0.148	0.870
	NR Band n30	0.578	0.148	0.726
	NR Band n41	0.233	0.148	0.381
	NR Band n77 DoD	0.210	0.148	0.358
	NR Band n77	0.261	0.148	0.409

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

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
Body-Worn SAR	Cell. CDMA	0.234	0.253	0.487
	PCS CDMA	1.017	0.253	1.270
	GSM 850	0.136	0.253	0.389
	GSM 1900	0.332	0.253	0.585
	UMTS 850	0.215	0.253	0.468
	UMTS 1750	0.560	0.253	0.813
	UMTS 1900	0.462	0.253	0.715
	LTE Band 71	0.368	0.253	0.621
	LTE Band 12	0.272	0.253	0.525
	LTE Band 13	0.224	0.253	0.477
	LTE Band 14	0.283	0.253	0.536
	LTE Band 26 (Cell)	0.248	0.253	0.501
	LTE Band 5 (Cell)	0.274	0.253	0.527
	LTE Band 66 (AWS)	1.075	0.253	1.328
	LTE Band 25 (PCS)	1.019	0.253	1.272
	LTE Band 30	0.473	0.253	0.726
	LTE Band 7	0.570	0.253	0.823
	LTE Band 48	0.185	0.253	0.438
	LTE Band 41	0.451	0.253	0.704
	NR Band n71	0.368	0.253	0.621
	NR Band n12	0.433	0.253	0.686
	NR Band n5 (Cell)	0.268	0.253	0.521
	NR Band n66 (AWS)	0.863	0.253	1.116
	NR Band n25 (PCS)	0.722	0.253	0.975
	NR Band n30	0.578	0.253	0.831
	NR Band n41	0.233	0.253	0.486
	NR Band n77 DoD	0.210	0.253	0.463
	NR Band n77	0.261	0.253	0.514

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Table 12-17
Simultaneous Transmission Scenario with Bluetooth Antenna 1 (Body-Worn at 1.5 cm)

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
Body-Worn SAR	Cell. CDMA	0.234	0.071	0.305
	PCS CDMA	1.017	0.071	1.088
	GSM 850	0.136	0.071	0.207
	GSM 1900	0.332	0.071	0.403
	UMTS 850	0.215	0.071	0.286
	UMTS 1750	0.560	0.071	0.631
	UMTS 1900	0.462	0.071	0.533
	LTE Band 71	0.368	0.071	0.439
	LTE Band 12	0.272	0.071	0.343
	LTE Band 13	0.224	0.071	0.295
	LTE Band 14	0.283	0.071	0.354
	LTE Band 26 (Cell)	0.248	0.071	0.319
	LTE Band 5 (Cell)	0.274	0.071	0.345
	LTE Band 66 (AWS)	1.075	0.071	1.146
	LTE Band 25 (PCS)	1.019	0.071	1.090
	LTE Band 30	0.473	0.071	0.544
	LTE Band 7	0.570	0.071	0.641
	LTE Band 48	0.185	0.071	0.256
	LTE Band 41	0.451	0.071	0.522
	NR Band n71	0.368	0.071	0.439
	NR Band n12	0.433	0.071	0.504
	NR Band n5 (Cell)	0.268	0.071	0.339
	NR Band n66 (AWS)	0.863	0.071	0.934
	NR Band n25 (PCS)	0.722	0.071	0.793
	NR Band n30	0.578	0.071	0.649
	NR Band n41	0.233	0.071	0.304
	NR Band n77 DoD	0.210	0.071	0.281
	NR Band n77	0.261	0.071	0.332

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Table 12-18
Simultaneous Transmission Scenario with Bluetooth Antenna 2 (Body-Worn at 1.5 cm)

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
Body-Worn SAR	Cell. CDMA	0.234	0.059	0.293
	PCS CDMA	1.017	0.059	1.076
	GSM 850	0.136	0.059	0.195
	GSM 1900	0.332	0.059	0.391
	UMTS 850	0.215	0.059	0.274
	UMTS 1750	0.560	0.059	0.619
	UMTS 1900	0.462	0.059	0.521
	LTE Band 71	0.368	0.059	0.427
	LTE Band 12	0.272	0.059	0.331
	LTE Band 13	0.224	0.059	0.283
	LTE Band 14	0.283	0.059	0.342
	LTE Band 26 (Cell)	0.248	0.059	0.307
	LTE Band 5 (Cell)	0.274	0.059	0.333
	LTE Band 66 (AWS)	1.075	0.059	1.134
	LTE Band 25 (PCS)	1.019	0.059	1.078
	LTE Band 30	0.473	0.059	0.532
	LTE Band 7	0.570	0.059	0.629
	LTE Band 48	0.185	0.059	0.244
	LTE Band 41	0.451	0.059	0.510
	NR Band n71	0.368	0.059	0.427
	NR Band n12	0.433	0.059	0.492
	NR Band n5 (Cell)	0.268	0.059	0.327
	NR Band n66 (AWS)	0.863	0.059	0.922
	NR Band n25 (PCS)	0.722	0.059	0.781
	NR Band n30	0.578	0.059	0.637
	NR Band n41	0.233	0.059	0.292
	NR Band n77 DoD	0.210	0.059	0.269
	NR Band n77	0.261	0.059	0.320

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Table 12-19
Simultaneous Transmission Scenario with Bluetooth Antenna 1 and 5 GHz Antenna 1 WLAN (Body-Worn at 1.5 cm)

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body-Worn SAR	Cell. CDMA	0.234	0.071	0.128	0.433
	PCS CDMA	1.017	0.071	0.128	1.216
	GSM 850	0.136	0.071	0.128	0.335
	GSM 1900	0.332	0.071	0.128	0.531
	UMTS 850	0.215	0.071	0.128	0.414
	UMTS 1750	0.560	0.071	0.128	0.759
	UMTS 1900	0.462	0.071	0.128	0.661
	LTE Band 71	0.368	0.071	0.128	0.567
	LTE Band 12	0.272	0.071	0.128	0.471
	LTE Band 13	0.224	0.071	0.128	0.423
	LTE Band 14	0.283	0.071	0.128	0.482
	LTE Band 26 (Cell)	0.248	0.071	0.128	0.447
	LTE Band 5 (Cell)	0.274	0.071	0.128	0.473
	LTE Band 66 (AWS)	1.075	0.071	0.128	1.274
	LTE Band 25 (PCS)	1.019	0.071	0.128	1.218
	LTE Band 30	0.473	0.071	0.128	0.672
	LTE Band 7	0.570	0.071	0.128	0.769
	LTE Band 48	0.185	0.071	0.128	0.384
	LTE Band 41	0.451	0.071	0.128	0.650
	NR Band n71	0.368	0.071	0.128	0.567
	NR Band n12	0.433	0.071	0.128	0.632
	NR Band n5 (Cell)	0.268	0.071	0.128	0.467
	NR Band n66 (AWS)	0.863	0.071	0.128	1.062
	NR Band n25 (PCS)	0.722	0.071	0.128	0.921
	NR Band n30	0.578	0.071	0.128	0.777
	NR Band n41	0.233	0.071	0.128	0.432
	NR Band n77 DoD	0.210	0.071	0.128	0.409
	NR Band n77	0.261	0.071	0.128	0.460

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Table 12-20
Simultaneous Transmission Scenario with Bluetooth Antenna 2 and 5 GHz Antenna 1 WLAN (Body-Worn at 1.5 cm)

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body-Worn SAR	Cell. CDMA	0.234	0.059	0.128	0.421
	PCS CDMA	1.017	0.059	0.128	1.204
	GSM 850	0.136	0.059	0.128	0.323
	GSM 1900	0.332	0.059	0.128	0.519
	UMTS 850	0.215	0.059	0.128	0.402
	UMTS 1750	0.560	0.059	0.128	0.747
	UMTS 1900	0.462	0.059	0.128	0.649
	LTE Band 71	0.368	0.059	0.128	0.555
	LTE Band 12	0.272	0.059	0.128	0.459
	LTE Band 13	0.224	0.059	0.128	0.411
	LTE Band 14	0.283	0.059	0.128	0.470
	LTE Band 26 (Cell)	0.248	0.059	0.128	0.435
	LTE Band 5 (Cell)	0.274	0.059	0.128	0.461
	LTE Band 66 (AWS)	1.075	0.059	0.128	1.262
	LTE Band 25 (PCS)	1.019	0.059	0.128	1.206
	LTE Band 30	0.473	0.059	0.128	0.660
	LTE Band 7	0.570	0.059	0.128	0.757
	LTE Band 48	0.185	0.059	0.128	0.372
	LTE Band 41	0.451	0.059	0.128	0.638
	NR Band n71	0.368	0.059	0.128	0.555
	NR Band n12	0.433	0.059	0.128	0.620
	NR Band n5 (Cell)	0.268	0.059	0.128	0.455
	NR Band n66 (AWS)	0.863	0.059	0.128	1.050
	NR Band n25 (PCS)	0.722	0.059	0.128	0.909
	NR Band n30	0.578	0.059	0.128	0.765
	NR Band n41	0.233	0.059	0.128	0.420
	NR Band n77 DoD	0.210	0.059	0.128	0.397
	NR Band n77	0.261	0.059	0.128	0.448

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

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body-Worn SAR	Cell. CDMA	0.234	0.071	0.148	0.453
	PCS CDMA	1.017	0.071	0.148	1.236
	GSM 850	0.136	0.071	0.148	0.355
	GSM 1900	0.332	0.071	0.148	0.551
	UMTS 850	0.215	0.071	0.148	0.434
	UMTS 1750	0.560	0.071	0.148	0.779
	UMTS 1900	0.462	0.071	0.148	0.681
	LTE Band 71	0.368	0.071	0.148	0.587
	LTE Band 12	0.272	0.071	0.148	0.491
	LTE Band 13	0.224	0.071	0.148	0.443
	LTE Band 14	0.283	0.071	0.148	0.502
	LTE Band 26 (Cell)	0.248	0.071	0.148	0.467
	LTE Band 5 (Cell)	0.274	0.071	0.148	0.493
	LTE Band 66 (AWS)	1.075	0.071	0.148	1.294
	LTE Band 25 (PCS)	1.019	0.071	0.148	1.238
	LTE Band 30	0.473	0.071	0.148	0.692
	LTE Band 7	0.570	0.071	0.148	0.789
	LTE Band 48	0.185	0.071	0.148	0.404
	LTE Band 41	0.451	0.071	0.148	0.670
	NR Band n71	0.368	0.071	0.148	0.587
	NR Band n12	0.433	0.071	0.148	0.652
	NR Band n5 (Cell)	0.268	0.071	0.148	0.487
	NR Band n66 (AWS)	0.863	0.071	0.148	1.082
	NR Band n25 (PCS)	0.722	0.071	0.148	0.941
	NR Band n30	0.578	0.071	0.148	0.797
	NR Band n41	0.233	0.071	0.148	0.452
	NR Band n77 DoD	0.210	0.071	0.148	0.429
	NR Band n77	0.261	0.071	0.148	0.480

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Table 12-22
Simultaneous Transmission Scenario with Bluetooth Antenna 2 and 5GHz MIMO WLAN (Body-Worn at 1.5 cm)

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body-Worn SAR	Cell. CDMA	0.234	0.059	0.148	0.441
	PCS CDMA	1.017	0.059	0.148	1.224
	GSM 850	0.136	0.059	0.148	0.343
	GSM 1900	0.332	0.059	0.148	0.539
	UMTS 850	0.215	0.059	0.148	0.422
	UMTS 1750	0.560	0.059	0.148	0.767
	UMTS 1900	0.462	0.059	0.148	0.669
	LTE Band 71	0.368	0.059	0.148	0.575
	LTE Band 12	0.272	0.059	0.148	0.479
	LTE Band 13	0.224	0.059	0.148	0.431
	LTE Band 14	0.283	0.059	0.148	0.490
	LTE Band 26 (Cell)	0.248	0.059	0.148	0.455
	LTE Band 5 (Cell)	0.274	0.059	0.148	0.481
	LTE Band 66 (AWS)	1.075	0.059	0.148	1.282
	LTE Band 25 (PCS)	1.019	0.059	0.148	1.226
	LTE Band 30	0.473	0.059	0.148	0.680
	LTE Band 7	0.570	0.059	0.148	0.777
	LTE Band 48	0.185	0.059	0.148	0.392
	LTE Band 41	0.451	0.059	0.148	0.658
	NR Band n71	0.368	0.059	0.148	0.575
	NR Band n12	0.433	0.059	0.148	0.640
	NR Band n5 (Cell)	0.268	0.059	0.148	0.475
	NR Band n66 (AWS)	0.863	0.059	0.148	1.070
	NR Band n25 (PCS)	0.722	0.059	0.148	0.929
	NR Band n30	0.578	0.059	0.148	0.785
	NR Band n41	0.233	0.059	0.148	0.440
	NR Band n77 DoD	0.210	0.059	0.148	0.417
	NR Band n77	0.261	0.059	0.148	0.468

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Table 12-23
Simultaneous Transmission Scenario with Bluetooth Antenna 1 and 2.4 GHz WLAN Antenna 2
(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 WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body-Worn SAR	Cell. CDMA	0.234	0.071	0.051	0.356
	PCS CDMA	1.017	0.071	0.051	1.139
	GSM 850	0.136	0.071	0.051	0.258
	GSM 1900	0.332	0.071	0.051	0.454
	UMTS 850	0.215	0.071	0.051	0.337
	UMTS 1750	0.560	0.071	0.051	0.682
	UMTS 1900	0.462	0.071	0.051	0.584
	LTE Band 71	0.368	0.071	0.051	0.490
	LTE Band 12	0.272	0.071	0.051	0.394
	LTE Band 13	0.224	0.071	0.051	0.346
	LTE Band 14	0.283	0.071	0.051	0.405
	LTE Band 26 (Cell)	0.248	0.071	0.051	0.370
	LTE Band 5 (Cell)	0.274	0.071	0.051	0.396
	LTE Band 66 (AWS)	1.075	0.071	0.051	1.197
	LTE Band 25 (PCS)	1.019	0.071	0.051	1.141
	LTE Band 30	0.473	0.071	0.051	0.595
	LTE Band 7	0.570	0.071	0.051	0.692
	LTE Band 48	0.185	0.071	0.051	0.307
	LTE Band 41	0.451	0.071	0.051	0.573
	NR Band n71	0.368	0.071	0.051	0.490
	NR Band n12	0.433	0.071	0.051	0.555
	NR Band n5 (Cell)	0.268	0.071	0.051	0.390
	NR Band n66 (AWS)	0.863	0.071	0.051	0.985
	NR Band n25 (PCS)	0.722	0.071	0.051	0.844
	NR Band n30	0.578	0.071	0.051	0.700
	NR Band n41	0.233	0.071	0.051	0.355
	NR Band n77 DoD	0.210	0.071	0.051	0.332
	NR Band n77	0.261	0.071	0.051	0.383

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Table 12-24
Simultaneous Transmission Scenario with Bluetooth Antenna 1, 2.4 GHz Antenna 2 WLAN,
and 5 GHz Antenna 1 WLAN (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 WLAN Ant 2 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body-Worn SAR	Cell. CDMA	0.234	0.071	0.051	0.128	0.484
	PCS CDMA	1.017	0.071	0.051	0.128	1.267
	GSM 850	0.136	0.071	0.051	0.128	0.386
	GSM 1900	0.332	0.071	0.051	0.128	0.582
	UMTS 850	0.215	0.071	0.051	0.128	0.465
	UMTS 1750	0.560	0.071	0.051	0.128	0.810
	UMTS 1900	0.462	0.071	0.051	0.128	0.712
	LTE Band 71	0.368	0.071	0.051	0.128	0.618
	LTE Band 12	0.272	0.071	0.051	0.128	0.522
	LTE Band 13	0.224	0.071	0.051	0.128	0.474
	LTE Band 14	0.283	0.071	0.051	0.128	0.533
	LTE Band 26 (Cell)	0.248	0.071	0.051	0.128	0.498
	LTE Band 5 (Cell)	0.274	0.071	0.051	0.128	0.524
	LTE Band 66 (AWS)	1.075	0.071	0.051	0.128	1.325
	LTE Band 25 (PCS)	1.019	0.071	0.051	0.128	1.269
	LTE Band 30	0.473	0.071	0.051	0.128	0.723
	LTE Band 7	0.570	0.071	0.051	0.128	0.820
	LTE Band 48	0.185	0.071	0.051	0.128	0.435
	LTE Band 41	0.451	0.071	0.051	0.128	0.701
	NR Band n71	0.368	0.071	0.051	0.128	0.618
	NR Band n12	0.433	0.071	0.051	0.128	0.683
	NR Band n5 (Cell)	0.268	0.071	0.051	0.128	0.518
	NR Band n66 (AWS)	0.863	0.071	0.051	0.128	0.985
	NR Band n25 (PCS)	0.722	0.071	0.051	0.128	0.972
	NR Band n30	0.578	0.071	0.051	0.128	0.700
	NR Band n41	0.233	0.071	0.051	0.128	0.355
	NR Band n77 DoD	0.210	0.071	0.051	0.128	0.332
	NR Band n77	0.261	0.071	0.051	0.128	0.383

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Table 12-25
Simultaneous Transmission Scenario with Bluetooth Antenna 1, 2.4 GHz Antenna 2 WLAN, and 5 GHz MIMO WLAN (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 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	Cell. CDMA	0.234	0.071	0.051	0.148	0.504
	PCS CDMA	1.017	0.071	0.051	0.148	1.287
	GSM 850	0.136	0.071	0.051	0.148	0.406
	GSM 1900	0.332	0.071	0.051	0.148	0.602
	UMTS 850	0.215	0.071	0.051	0.148	0.485
	UMTS 1750	0.560	0.071	0.051	0.148	0.830
	UMTS 1900	0.462	0.071	0.051	0.148	0.732
	LTE Band 71	0.368	0.071	0.051	0.148	0.638
	LTE Band 12	0.272	0.071	0.051	0.148	0.542
	LTE Band 13	0.224	0.071	0.051	0.148	0.494
	LTE Band 14	0.283	0.071	0.051	0.148	0.553
	LTE Band 26 (Cell)	0.248	0.071	0.051	0.148	0.518
	LTE Band 5 (Cell)	0.274	0.071	0.051	0.148	0.544
	LTE Band 66 (AWS)	1.075	0.071	0.051	0.148	1.345
	LTE Band 25 (PCS)	1.019	0.071	0.051	0.148	1.289
	LTE Band 30	0.473	0.071	0.051	0.148	0.743
	LTE Band 7	0.570	0.071	0.051	0.148	0.840
	LTE Band 48	0.185	0.071	0.051	0.148	0.455
	LTE Band 41	0.451	0.071	0.051	0.148	0.721
	NR Band n71	0.368	0.071	0.051	0.148	0.638
	NR Band n12	0.433	0.071	0.051	0.148	0.703
	NR Band n5 (Cell)	0.268	0.071	0.051	0.148	0.538
	NR Band n66 (AWS)	0.863	0.071	0.051	0.148	1.133
	NR Band n25 (PCS)	0.722	0.071	0.051	0.148	0.992
	NR Band n30	0.578	0.071	0.051	0.148	0.700
	NR Band n41	0.233	0.071	0.051	0.148	0.355
	NR Band n77 DoD	0.210	0.071	0.051	0.148	0.332
	NR Band n77	0.261	0.071	0.051	0.148	0.383

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Table 12-26
Simultaneous Transmission Scenario with 2.4 GHz MIMO WLAN and 5 GHz MIMO WLAN (Body-Worn at 1.5 cm)

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
Body-Worn SAR	Cell. CDMA	0.234	0.253	0.148	0.635
	PCS CDMA	1.017	0.253	0.148	1.418
	GSM 850	0.136	0.253	0.148	0.537
	GSM 1900	0.332	0.253	0.148	0.733
	UMTS 850	0.215	0.253	0.148	0.616
	UMTS 1750	0.560	0.253	0.148	0.961
	UMTS 1900	0.462	0.253	0.148	0.863
	LTE Band 71	0.368	0.253	0.148	0.769
	LTE Band 12	0.272	0.253	0.148	0.673
	LTE Band 13	0.224	0.253	0.148	0.625
	LTE Band 14	0.283	0.253	0.148	0.684
	LTE Band 26 (Cell)	0.248	0.253	0.148	0.649
	LTE Band 5 (Cell)	0.274	0.253	0.148	0.675
	LTE Band 66 (AWS)	1.075	0.253	0.148	1.476
	LTE Band 25 (PCS)	1.019	0.253	0.148	1.420
	LTE Band 30	0.473	0.253	0.148	0.874
	LTE Band 7	0.570	0.253	0.148	0.971
	LTE Band 48	0.185	0.253	0.148	0.586
	LTE Band 41	0.451	0.253	0.148	0.852
	NR Band n71	0.368	0.253	0.148	0.769
	NR Band n12	0.433	0.253	0.148	0.834
	NR Band n5 (Cell)	0.268	0.253	0.148	0.669
	NR Band n66 (AWS)	0.863	0.253	0.148	1.264
	NR Band n25 (PCS)	0.722	0.253	0.148	1.123
	NR Band n30	0.578	0.253	0.148	0.979
	NR Band n41	0.233	0.253	0.148	0.634
	NR Band n77 DoD	0.210	0.253	0.148	0.611
	NR Band n77	0.261	0.253	0.148	0.662

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12.5 Open Hotspot SAR Simultaneous Transmission Analysis

Table 12-27

Simultaneous Transmission Scenario with 5 GHz WLAN Antenna 1 (Hotspot at 1.0 cm)

Configuration	Mode	2G/3G/4G SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
Hotspot SAR	Cell. EVDO	0.445	0.231	0.676
	PCS EVDO	0.595	0.231	0.826
	GPRS 850	0.221	0.231	0.452
	GPRS 1900	0.882	0.231	1.113
	UMTS 850	0.392	0.231	0.623
	UMTS 1750	0.770	0.231	1.001
	UMTS 1900	0.896	0.231	1.127
	LTE Band 71	0.302	0.231	0.533
	LTE Band 12	0.286	0.231	0.517
	LTE Band 13	0.341	0.231	0.572
	LTE Band 14	0.337	0.231	0.568
	LTE Band 26 (Cell)	0.299	0.231	0.530
	LTE Band 5 (Cell)	0.388	0.231	0.619
	LTE Band 66 (AWS)	0.796	0.231	1.027
	LTE Band 25 (PCS)	1.115	0.231	1.346
	LTE Band 30	0.747	0.231	0.978
	LTE Band 7	0.420	0.231	0.651
	LTE Band 48	0.183	0.231	0.414
	LTE Band 41	0.448	0.231	0.679

Configuration	Mode	5G SAR (W/kg)	5 GHz WLAN Ant 1 at 14 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
Hotspot SAR	NR Band n71	0.299	0.022	0.321
	NR Band n12	0.327	0.022	0.349
	NR Band n5 (Cell)	0.413	0.022	0.435
	NR Band n66 (AWS)	0.845	0.022	0.867
	NR Band n25 (PCS)	0.589	0.022	0.611
	NR Band n30	0.896	0.022	0.918
	NR Band n41	0.489	0.022	0.511
	NR Band n77 DoD	0.370	0.022	0.392
	NR Band n77	0.381	0.022	0.403

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

Configuration	Mode	2G/3G/4G SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
Hotspot SAR	Cell. EVDO	0.445	0.289	0.734
	PCS EVDO	0.595	0.289	0.884
	GPRS 850	0.221	0.289	0.510
	GPRS 1900	0.882	0.289	1.171
	UMTS 850	0.392	0.289	0.681
	UMTS 1750	0.770	0.289	1.059
	UMTS 1900	0.896	0.289	1.185
	LTE Band 71	0.302	0.289	0.591
	LTE Band 12	0.286	0.289	0.575
	LTE Band 13	0.341	0.289	0.630
	LTE Band 14	0.337	0.289	0.626
	LTE Band 26 (Cell)	0.299	0.289	0.588
	LTE Band 5 (Cell)	0.388	0.289	0.677
	LTE Band 66 (AWS)	0.796	0.289	1.085
	LTE Band 25 (PCS)	1.115	0.289	1.404
	LTE Band 30	0.747	0.289	1.036
	LTE Band 7	0.420	0.289	0.709
	LTE Band 48	0.183	0.289	0.472
	LTE Band 41	0.448	0.289	0.737
Configuration	Mode	5G SAR (W/kg)	5 GHz WLAN MIMO at 17 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
Hotspot SAR	NR Band n71	0.299	0.078	0.377
	NR Band n12	0.327	0.078	0.405
	NR Band n5 (Cell)	0.413	0.078	0.491
	NR Band n66 (AWS)	0.845	0.078	0.923
	NR Band n25 (PCS)	0.589	0.078	0.667
	NR Band n30	0.896	0.078	0.974
	NR Band n41	0.489	0.078	0.567
	NR Band n77 DoD	0.370	0.078	0.448
	NR Band n77	0.381	0.078	0.459

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Table 12-29
Simultaneous Transmission Scenario with 2.4 GHz MIMO WLAN (Hotspot at 1.0 cm)

Configuration	Mode	2G/3G/4G SAR (W/kg)	2.4 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
Hotspot SAR	Cell. EVDO	0.445	0.546	0.991
	PCS EVDO	0.595	0.546	1.141
	GPRS 850	0.221	0.546	0.767
	GPRS 1900	0.882	0.546	1.428
	UMTS 850	0.392	0.546	0.938
	UMTS 1750	0.770	0.546	1.316
	UMTS 1900	0.896	0.546	1.442
	LTE Band 71	0.302	0.546	0.848
	LTE Band 12	0.286	0.546	0.832
	LTE Band 13	0.341	0.546	0.887
	LTE Band 14	0.337	0.546	0.883
	LTE Band 26 (Cell)	0.299	0.546	0.845
	LTE Band 5 (Cell)	0.388	0.546	0.934
	LTE Band 66 (AWS)	0.796	0.546	1.342
	LTE Band 25 (PCS)	1.115	0.546	See Table Below
	LTE Band 30	0.747	0.546	1.293
	LTE Band 7	0.420	0.546	0.966
	LTE Band 48	0.183	0.546	0.729
	LTE Band 41	0.448	0.546	0.994

Simult Tx	Configuration	LTE Band 25 (PCS) SAR (W/kg)	2.4 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
Hotspot SAR	Back	0.574	0.546	1.120
	Front	0.389	0.439	0.828
	Top	-	0.546*	0.546
	Bottom	1.115	-	1.115
	Right	0.063	0.147	0.210
	Left	0.047	0.546*	0.593

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Configuration	Mode	5G SAR (W/kg)	2.4 GHz WLAN MIMO at 17 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
Hotspot SAR	NR Band n71	0.299	0.089	0.388
	NR Band n12	0.327	0.089	0.416
	NR Band n5 (Cell)	0.413	0.089	0.502
	NR Band n66 (AWS)	0.845	0.089	0.934
	NR Band n25 (PCS)	0.589	0.089	0.678
	NR Band n30	0.896	0.089	0.985
	NR Band n41	0.489	0.089	0.578
	NR Band n77 DoD	0.370	0.089	0.459
	NR Band n77	0.381	0.089	0.470

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Table 12-30
Simultaneous Transmission Scenario with Bluetooth Antenna 1 (Hotspot at 1.0 cm)

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
Hotspot SAR	Cell. EVDO	0.445	0.153	0.598
	PCS EVDO	0.595	0.153	0.748
	GPRS 850	0.221	0.153	0.374
	GPRS 1900	0.882	0.153	1.035
	UMTS 850	0.392	0.153	0.545
	UMTS 1750	0.770	0.153	0.923
	UMTS 1900	0.896	0.153	1.049
	LTE Band 71	0.302	0.153	0.455
	LTE Band 12	0.286	0.153	0.439
	LTE Band 13	0.341	0.153	0.494
	LTE Band 14	0.337	0.153	0.490
	LTE Band 26 (Cell)	0.299	0.153	0.452
	LTE Band 5 (Cell)	0.388	0.153	0.541
	LTE Band 66 (AWS)	0.796	0.153	0.949
	LTE Band 25 (PCS)	1.115	0.153	1.268
	LTE Band 30	0.747	0.153	0.900
	LTE Band 7	0.420	0.153	0.573
	LTE Band 48	0.183	0.153	0.336
	LTE Band 41	0.448	0.153	0.601
	NR Band n71	0.299	0.153	0.452
	NR Band n12	0.327	0.153	0.480
	NR Band n5 (Cell)	0.413	0.153	0.566
	NR Band n66 (AWS)	0.845	0.153	0.998
	NR Band n25 (PCS)	0.589	0.153	0.742
	NR Band n30	0.896	0.153	1.049
	NR Band n41	0.489	0.153	0.642
	NR Band n77 DoD	0.370	0.153	0.523
	NR Band n77	0.381	0.153	0.534

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Table 12-31
Simultaneous Transmission Scenario with Bluetooth Antenna 2 (Hotspot at 1.0 cm)

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
Hotspot SAR	Cell. EVDO	0.445	0.166	0.611
	PCS EVDO	0.595	0.166	0.761
	GPRS 850	0.221	0.166	0.387
	GPRS 1900	0.882	0.166	1.048
	UMTS 850	0.392	0.166	0.558
	UMTS 1750	0.770	0.166	0.936
	UMTS 1900	0.896	0.166	1.062
	LTE Band 71	0.302	0.166	0.468
	LTE Band 12	0.286	0.166	0.452
	LTE Band 13	0.341	0.166	0.507
	LTE Band 14	0.337	0.166	0.503
	LTE Band 26 (Cell)	0.299	0.166	0.465
	LTE Band 5 (Cell)	0.388	0.166	0.554
	LTE Band 66 (AWS)	0.796	0.166	0.962
	LTE Band 25 (PCS)	1.115	0.166	1.281
	LTE Band 30	0.747	0.166	0.913
	LTE Band 7	0.420	0.166	0.586
	LTE Band 48	0.183	0.166	0.349
	LTE Band 41	0.448	0.166	0.614
	NR Band n71	0.299	0.166	0.465
	NR Band n12	0.327	0.166	0.493
	NR Band n5 (Cell)	0.413	0.166	0.579
	NR Band n66 (AWS)	0.845	0.166	1.011
	NR Band n25 (PCS)	0.589	0.166	0.755
	NR Band n30	0.896	0.166	1.062
	NR Band n41	0.489	0.166	0.655
	NR Band n77 DoD	0.370	0.166	0.536
	NR Band n77	0.381	0.166	0.547

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Table 12-32

Simultaneous Transmission Scenario with Bluetooth Antenna 1 and 5 GHz Antenna 1 WLAN (Hotspot at 1.0 cm)

Configuration	Mode	2G/3G/4G SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Hotspot SAR	Cell. EVDO	0.445	0.153	0.231	0.829
	PCS EVDO	0.595	0.153	0.231	0.979
	GPRS 850	0.221	0.153	0.231	0.605
	GPRS 1900	0.882	0.153	0.231	1.266
	UMTS 850	0.392	0.153	0.231	0.776
	UMTS 1750	0.770	0.153	0.231	1.154
	UMTS 1900	0.896	0.153	0.231	1.280
	LTE Band 71	0.302	0.153	0.231	0.686
	LTE Band 12	0.286	0.153	0.231	0.670
	LTE Band 13	0.341	0.153	0.231	0.725
	LTE Band 14	0.337	0.153	0.231	0.721
	LTE Band 26 (Cell)	0.299	0.153	0.231	0.683
	LTE Band 5 (Cell)	0.388	0.153	0.231	0.772
	LTE Band 66 (AWS)	0.796	0.153	0.231	1.180
	LTE Band 25 (PCS)	1.115	0.153	0.231	1.499
	LTE Band 30	0.747	0.153	0.231	1.131
	LTE Band 7	0.420	0.153	0.231	0.804
	LTE Band 48	0.183	0.153	0.231	0.567
	LTE Band 41	0.448	0.153	0.231	0.832
Configuration	Mode	5G SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	5 GHz WLAN Ant 1 at 14 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Hotspot SAR	NR Band n71	0.299	0.153	0.022	0.474
	NR Band n12	0.327	0.153	0.022	0.502
	NR Band n5 (Cell)	0.413	0.153	0.022	0.588
	NR Band n66 (AWS)	0.845	0.153	0.022	1.020
	NR Band n25 (PCS)	0.589	0.153	0.022	0.764
	NR Band n30	0.896	0.153	0.022	1.071
	NR Band n41	0.489	0.153	0.022	0.664
	NR Band n77 DoD	0.370	0.153	0.022	0.545
	NR Band n77	0.381	0.153	0.022	0.556

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Table 12-33

Simultaneous Transmission Scenario with Bluetooth Antenna 2 and 5 GHz Antenna 1 WLAN (Hotspot at 1.0 cm)

Configuration	Mode	2G/3G/4G SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Hotspot SAR	Cell. EVDO	0.445	0.166	0.231	0.842
	PCS EVDO	0.595	0.166	0.231	0.992
	GPRS 850	0.221	0.166	0.231	0.618
	GPRS 1900	0.882	0.166	0.231	1.279
	UMTS 850	0.392	0.166	0.231	0.789
	UMTS 1750	0.770	0.166	0.231	1.167
	UMTS 1900	0.896	0.166	0.231	1.293
	LTE Band 71	0.302	0.166	0.231	0.699
	LTE Band 12	0.286	0.166	0.231	0.683
	LTE Band 13	0.341	0.166	0.231	0.738
	LTE Band 14	0.337	0.166	0.231	0.734
	LTE Band 26 (Cell)	0.299	0.166	0.231	0.696
	LTE Band 5 (Cell)	0.388	0.166	0.231	0.785
	LTE Band 66 (AWS)	0.796	0.166	0.231	1.193
	LTE Band 25 (PCS)	1.115	0.166	0.231	1.512
	LTE Band 30	0.747	0.166	0.231	1.144
	LTE Band 7	0.420	0.166	0.231	0.817
	LTE Band 48	0.183	0.166	0.231	0.580
	LTE Band 41	0.448	0.166	0.231	0.845
Configuration	Mode	5G SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	5 GHz WLAN MIMO at 17 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Hotspot SAR	NR Band n71	0.299	0.166	0.078	0.543
	NR Band n12	0.327	0.166	0.078	0.571
	NR Band n5 (Cell)	0.413	0.166	0.078	0.657
	NR Band n66 (AWS)	0.845	0.166	0.078	1.089
	NR Band n25 (PCS)	0.589	0.166	0.078	0.833
	NR Band n30	0.896	0.166	0.078	1.140
	NR Band n41	0.489	0.166	0.078	0.733
	NR Band n77 DoD	0.370	0.166	0.078	0.614
	NR Band n77	0.381	0.166	0.078	0.625

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Table 12-34
Simultaneous Transmission Scenario with Bluetooth Antenna 1 and 5GHz MIMO WLAN (Hotspot at 1.0 cm)

Configuration	Mode	2G/3G/4G SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Hotspot SAR	Cell. EVDO	0.445	0.153	0.289	0.887
	PCS EVDO	0.595	0.153	0.289	1.037
	GPRS 850	0.221	0.153	0.289	0.663
	GPRS 1900	0.882	0.153	0.289	1.324
	UMTS 850	0.392	0.153	0.289	0.834
	UMTS 1750	0.770	0.153	0.289	1.212
	UMTS 1900	0.896	0.153	0.289	1.338
	LTE Band 71	0.302	0.153	0.289	0.744
	LTE Band 12	0.286	0.153	0.289	0.728
	LTE Band 13	0.341	0.153	0.289	0.783
	LTE Band 14	0.337	0.153	0.289	0.779
	LTE Band 26 (Cell)	0.299	0.153	0.289	0.741
	LTE Band 5 (Cell)	0.388	0.153	0.289	0.830
	LTE Band 66 (AWS)	0.796	0.153	0.289	1.238
	LTE Band 25 (PCS)	1.115	0.153	0.289	1.557
	LTE Band 30	0.747	0.153	0.289	1.189
	LTE Band 7	0.420	0.153	0.289	0.862
	LTE Band 48	0.183	0.153	0.289	0.625
	LTE Band 41	0.448	0.153	0.289	0.890
Configuration	Mode	5G SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	5 GHz WLAN MIMO at 17 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Hotspot SAR	NR Band n71	0.299	0.153	0.078	0.530
	NR Band n12	0.327	0.153	0.078	0.558
	NR Band n5 (Cell)	0.413	0.153	0.078	0.644
	NR Band n66 (AWS)	0.845	0.153	0.078	1.076
	NR Band n25 (PCS)	0.589	0.153	0.078	0.820
	NR Band n30	0.896	0.153	0.078	1.127
	NR Band n41	0.489	0.153	0.078	0.720
	NR Band n77 DoD	0.370	0.153	0.078	0.601
	NR Band n77	0.381	0.153	0.078	0.612

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Table 12-35
Simultaneous Transmission Scenario with Bluetooth Antenna 2 and 5GHz MIMO WLAN (Hotspot at 1.0 cm)

Configuration	Mode	2G/3G/4G SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Hotspot SAR	Cell. EVDO	0.445	0.166	0.289	0.900
	PCS EVDO	0.595	0.166	0.289	1.050
	GPRS 850	0.221	0.166	0.289	0.676
	GPRS 1900	0.882	0.166	0.289	1.337
	UMTS 850	0.392	0.166	0.289	0.847
	UMTS 1750	0.770	0.166	0.289	1.225
	UMTS 1900	0.896	0.166	0.289	1.351
	LTE Band 71	0.302	0.166	0.289	0.757
	LTE Band 12	0.286	0.166	0.289	0.741
	LTE Band 13	0.341	0.166	0.289	0.796
	LTE Band 14	0.337	0.166	0.289	0.792
	LTE Band 26 (Cell)	0.299	0.166	0.289	0.754
	LTE Band 5 (Cell)	0.388	0.166	0.289	0.843
	LTE Band 66 (AWS)	0.796	0.166	0.289	1.251
	LTE Band 25 (PCS)	1.115	0.166	0.289	1.570
	LTE Band 30	0.747	0.166	0.289	1.202
	LTE Band 7	0.420	0.166	0.289	0.875
	LTE Band 48	0.183	0.166	0.289	0.638
	LTE Band 41	0.448	0.166	0.289	0.903
Configuration	Mode	5G SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	5 GHz WLAN MIMO at 17 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Hotspot SAR	NR Band n71	0.299	0.166	0.078	0.543
	NR Band n12	0.327	0.166	0.078	0.571
	NR Band n5 (Cell)	0.413	0.166	0.078	0.657
	NR Band n66 (AWS)	0.845	0.166	0.078	1.089
	NR Band n25 (PCS)	0.589	0.166	0.078	0.833
	NR Band n30	0.896	0.166	0.078	1.140
	NR Band n41	0.489	0.166	0.078	0.733
	NR Band n77 DoD	0.370	0.166	0.078	0.614
	NR Band n77	0.381	0.166	0.078	0.625

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Table 12-36
Simultaneous Transmission Scenario with Bluetooth Antenna 1 and 2.4 GHz WLAN Antenna 2
(Hotspot at 1.0 cm)

Configuration	Mode	2G/3G/4G SAR (W/kg)	2.4 GHz Bluetooth 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	Cell. EVDO	0.445	0.153	0.128	0.726
	PCS EVDO	0.595	0.153	0.128	0.876
	GPRS 850	0.221	0.153	0.128	0.502
	GPRS 1900	0.882	0.153	0.128	1.163
	UMTS 850	0.392	0.153	0.128	0.673
	UMTS 1750	0.770	0.153	0.128	1.051
	UMTS 1900	0.896	0.153	0.128	1.177
	LTE Band 71	0.302	0.153	0.128	0.583
	LTE Band 12	0.286	0.153	0.128	0.567
	LTE Band 13	0.341	0.153	0.128	0.622
	LTE Band 14	0.337	0.153	0.128	0.618
	LTE Band 26 (Cell)	0.299	0.153	0.128	0.580
	LTE Band 5 (Cell)	0.388	0.153	0.128	0.669
	LTE Band 66 (AWS)	0.796	0.153	0.128	1.077
	LTE Band 25 (PCS)	1.115	0.153	0.128	1.396
	LTE Band 30	0.747	0.153	0.128	1.028
	LTE Band 7	0.420	0.153	0.128	0.701
	LTE Band 48	0.183	0.153	0.128	0.464
	LTE Band 41	0.448	0.153	0.128	0.729
Configuration	Mode	5G SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 at 14 dBm SAR (W/Kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Hotspot SAR	NR Band n71	0.299	0.153	0.086	0.538
	NR Band n12	0.327	0.153	0.086	0.566
	NR Band n5 (Cell)	0.413	0.153	0.086	0.652
	NR Band n66 (AWS)	0.845	0.153	0.086	1.084
	NR Band n25 (PCS)	0.589	0.153	0.086	0.828
	NR Band n30	0.896	0.153	0.086	1.135
	NR Band n41	0.489	0.153	0.086	0.728
	NR Band n77 DoD	0.370	0.153	0.086	0.609
	NR Band n77	0.381	0.153	0.086	0.620

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Table 12-37
Simultaneous Transmission Scenario with Bluetooth Antenna 1, 2.4 GHz Antenna 2 WLAN,
and 5 GHz Antenna 1 WLAN (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 WLAN Ant 2 at 14 dBm SAR (W/Kg)	5 GHz WLAN Ant 1 at 14 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Hotspot SAR	Cell. EVDO	0.445	0.153	0.086	0.022	0.706
	PCS EVDO	0.595	0.153	0.086	0.022	0.856
	GPRS 850	0.221	0.153	0.086	0.022	0.482
	GPRS 1900	0.882	0.153	0.086	0.022	1.143
	UMTS 850	0.392	0.153	0.086	0.022	0.653
	UMTS 1750	0.770	0.153	0.086	0.022	1.031
	UMTS 1900	0.896	0.153	0.086	0.022	1.157
	LTE Band 71	0.302	0.153	0.086	0.022	0.563
	LTE Band 12	0.286	0.153	0.086	0.022	0.547
	LTE Band 13	0.341	0.153	0.086	0.022	0.602
	LTE Band 14	0.337	0.153	0.086	0.022	0.598
	LTE Band 26 (Cell)	0.299	0.153	0.086	0.022	0.560
	LTE Band 5 (Cell)	0.388	0.153	0.086	0.022	0.649
	LTE Band 66 (AWS)	0.796	0.153	0.086	0.022	1.057
	LTE Band 25 (PCS)	1.115	0.153	0.086	0.022	1.376
	LTE Band 30	0.747	0.153	0.086	0.022	1.008
	LTE Band 7	0.420	0.153	0.086	0.022	0.681
	LTE Band 48	0.183	0.153	0.086	0.022	0.444
	LTE Band 41	0.448	0.153	0.086	0.022	0.709
	NR Band n71	0.299	0.153	0.086	0.022	0.560
	NR Band n12	0.327	0.153	0.086	0.022	0.588
	NR Band n5 (Cell)	0.413	0.153	0.086	0.022	0.674
	NR Band n66 (AWS)	0.845	0.153	0.086	0.022	1.106
	NR Band n25 (PCS)	0.589	0.153	0.086	0.022	0.850
	NR Band n30	0.896	0.153	0.086	0.022	1.157
	NR Band n41	0.489	0.153	0.086	0.022	0.750
	NR Band n77 DoD	0.370	0.153	0.086	0.022	0.631
	NR Band n77	0.381	0.153	0.086	0.022	0.642

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Table 12-38
Simultaneous Transmission Scenario with Bluetooth Antenna 1, 2.4 GHz Antenna 2 WLAN, and 5 GHz
MIMO WLAN (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 WLAN Ant 2 at 14 dBm SAR (W/Kg)	5 GHz WLAN MIMO at 17 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Hotspot SAR	Cell. EVDO	0.445	0.153	0.086	0.078	0.762
	PCS EVDO	0.595	0.153	0.086	0.078	0.912
	GPRS 850	0.221	0.153	0.086	0.078	0.538
	GPRS 1900	0.882	0.153	0.086	0.078	1.199
	UMTS 850	0.392	0.153	0.086	0.078	0.709
	UMTS 1750	0.770	0.153	0.086	0.078	1.087
	UMTS 1900	0.896	0.153	0.086	0.078	1.213
	LTE Band 71	0.302	0.153	0.086	0.078	0.619
	LTE Band 12	0.286	0.153	0.086	0.078	0.603
	LTE Band 13	0.341	0.153	0.086	0.078	0.658
	LTE Band 14	0.337	0.153	0.086	0.078	0.654
	LTE Band 26 (Cell)	0.299	0.153	0.086	0.078	0.616
	LTE Band 5 (Cell)	0.388	0.153	0.086	0.078	0.705
	LTE Band 66 (AWS)	0.796	0.153	0.086	0.078	1.113
	LTE Band 25 (PCS)	1.115	0.153	0.086	0.078	1.432
	LTE Band 30	0.747	0.153	0.086	0.078	1.064
	LTE Band 7	0.420	0.153	0.086	0.078	0.737
	LTE Band 48	0.183	0.153	0.086	0.078	0.500
	LTE Band 41	0.448	0.153	0.086	0.078	0.765
	NR Band n71	0.299	0.153	0.086	0.078	0.616
	NR Band n12	0.327	0.153	0.086	0.078	0.644
	NR Band n5 (Cell)	0.413	0.153	0.086	0.078	0.730
	NR Band n66 (AWS)	0.845	0.153	0.086	0.078	1.162
	NR Band n25 (PCS)	0.589	0.153	0.086	0.078	0.906
	NR Band n30	0.896	0.153	0.086	0.078	1.213
	NR Band n41	0.489	0.153	0.086	0.078	0.806
	NR Band n77 DoD	0.370	0.153	0.086	0.078	0.687
	NR Band n77	0.381	0.153	0.086	0.078	0.698

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Table 12-39
Simultaneous Transmission Scenario with 2.4 GHz MIMO WLAN and 5 GHz MIMO WLAN (Hotspot at 1.0 cm)

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	2.4 GHz WLAN MIMO at 17 dBm SAR (W/kg)	5 GHz WLAN MIMO at 17 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Hotspot SAR	Cell. EVDO	0.445	0.089	0.078	0.612
	PCS EVDO	0.595	0.089	0.078	0.762
	GPRS 850	0.221	0.089	0.078	0.388
	GPRS 1900	0.882	0.089	0.078	1.049
	UMTS 850	0.392	0.089	0.078	0.559
	UMTS 1750	0.770	0.089	0.078	0.937
	UMTS 1900	0.896	0.089	0.078	1.063
	LTE Band 71	0.302	0.089	0.078	0.469
	LTE Band 12	0.286	0.089	0.078	0.453
	LTE Band 13	0.341	0.089	0.078	0.508
	LTE Band 14	0.337	0.089	0.078	0.504
	LTE Band 26 (Cell)	0.299	0.089	0.078	0.466
	LTE Band 5 (Cell)	0.388	0.089	0.078	0.555
	LTE Band 66 (AWS)	0.796	0.089	0.078	0.963
	LTE Band 25 (PCS)	1.115	0.089	0.078	1.282
	LTE Band 30	0.747	0.089	0.078	0.914
	LTE Band 7	0.420	0.089	0.078	0.587
	LTE Band 48	0.183	0.089	0.078	0.350
	LTE Band 41	0.448	0.089	0.078	0.615
	NR Band n71	0.299	0.089	0.078	0.466
	NR Band n12	0.327	0.089	0.078	0.494
	NR Band n5 (Cell)	0.413	0.089	0.078	0.580
	NR Band n66 (AWS)	0.845	0.089	0.078	1.012
	NR Band n25 (PCS)	0.589	0.089	0.078	0.756
	NR Band n30	0.896	0.089	0.078	1.063
	NR Band n41	0.489	0.089	0.078	0.656
	NR Band n77 DoD	0.370	0.089	0.078	0.537
	NR Band n77	0.381	0.089	0.078	0.548

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12.6 Phablet Simultaneous Transmission Analysis

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 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 12-40
Simultaneous Transmission Scenario with 5 GHz WLAN Antenna 1

Configuration	Mode	2G/3G/4G SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
Phablet SAR	PCS EVDO	1.269	0.758	2.027
	GPRS 1900	1.914	0.758	2.672
	UMTS 1750	2.412	0.758	3.170
	UMTS 1900	2.929	0.758	3.687
	LTE Band 66 (AWS)	3.146	0.758	3.904
	LTE Band 25 (PCS)	2.981	0.758	3.739
	LTE Band 30	1.810	0.758	2.568
	LTE Band 7	1.898	0.758	2.656
	LTE Band 41	2.602	0.758	3.360
Configuration	Mode	5G SAR (W/kg)	5 GHz WLAN Ant 1 at 14 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
Phablet SAR	NR Band n66 (AWS)	2.978	0.196	3.174
	NR Band n25 (PCS)	2.970	0.196	3.166
	NR Band n30	1.918	0.196	2.114
	NR Band n41	2.241	0.196	2.437
	NR Band n77 DoD	2.754	0.196	2.950
	NR Band n77	2.741	0.196	2.937

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Table 12-41
Simultaneous Transmission Scenario with 5 GHz MIMO WLAN

Configuration	Mode	2G/3G/4G SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	
		1	2	1+2	
Phablet SAR	PCS EVDO	1.269	1.044	2.313	
	GPRS 1900	1.914	1.044	2.958	
	UMTS 1750	2.412	1.044	3.456	
	UMTS 1900	2.929	1.044	3.973	
	LTE Band 66 (AWS)	3.146	1.044	See Table Below	
	LTE Band 25 (PCS)	2.981	1.044	See Table Below	
	LTE Band 30	1.810	1.044	2.854	
	LTE Band 7	1.898	1.044	2.942	
	LTE Band 41	2.602	1.044	3.646	

Simult Tx	Configuration	LTE Band 66 (AWS) SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	SPLSR	Simult Tx	Configuration	LTE Band 25 (PCS) SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2	1+2			1	2	1+2
Phablet SAR	Back	3.146	0.989	See Note 1	0.05	Phablet SAR	Back	2.981	0.989	3.970
	Front	1.811	1.044*	2.855	N/A		Front	1.997	1.044*	3.041
	Top	-	1.044*	1.044	N/A		Top	-	1.044*	1.044
	Bottom	1.863	-	1.863	N/A		Bottom	1.930	-	1.930
	Right	0.388	1.044*	1.432	N/A		Right	0.575	1.044*	1.619
	Left	0.394	1.044	1.438	N/A		Left	0.516	1.044	1.560

Configuration	Mode	5G SAR (W/kg)	5 GHz WLAN MIMO at 17 dBm SAR (W/kg)	Σ SAR (W/kg)	
		1	2	1+2	
Phablet SAR	NR Band n66 (AWS)	2.978	0.662	3.640	
	NR Band n25 (PCS)	2.970	0.662	3.632	
	NR Band n30	1.918	0.662	2.580	
	NR Band n41	2.241	0.662	2.903	
	NR Band n77 DoD	2.754	0.662	3.416	
	NR Band n77	2.741	0.662	3.403	

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12.7 Closed Body-Worn Simultaneous Transmission Analysis

Table 12-42
Simultaneous Transmission Scenario with 5 GHz WLAN Antenna 1 (Body-Worn at 1.5 cm)

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
Body-Worn SAR	Cell. CDMA	0.465	0.001	0.466
	PCS CDMA	0.271	0.001	0.272
	GSM 850	0.342	0.001	0.343
	GSM 1900	0.131	0.001	0.132
	UMTS 850	0.416	0.001	0.417
	UMTS 1750	0.176	0.001	0.177
	UMTS 1900	0.232	0.001	0.233
	LTE Band 71	0.328	0.001	0.329
	LTE Band 12	0.325	0.001	0.326
	LTE Band 13	0.276	0.001	0.277
	LTE Band 14	0.283	0.001	0.284
	LTE Band 26 (Cell)	0.447	0.001	0.448
	LTE Band 5 (Cell)	0.443	0.001	0.444
	LTE Band 66 (AWS)	0.220	0.001	0.221
	LTE Band 25 (PCS)	0.509	0.001	0.510
	LTE Band 30	0.336	0.001	0.337
	LTE Band 7	0.442	0.001	0.443
	LTE Band 48	0.028	0.001	0.029
	LTE Band 41	0.234	0.001	0.235
	NR Band n71	0.303	0.001	0.304
	NR Band n12	0.233	0.001	0.234
	NR Band n5 (Cell)	0.498	0.001	0.499
	NR Band n66 (AWS)	0.304	0.001	0.305
	NR Band n25 (PCS)	0.416	0.001	0.417
	NR Band n30	0.377	0.001	0.378
	NR Band n41	0.087	0.001	0.088
	NR Band n77 DoD	0.072	0.001	0.073
	NR Band n77	0.073	0.001	0.074

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Table 12-43
Simultaneous Transmission Scenario with 5 GHz MIMO WLAN (Body-Worn at 1.5 cm)

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
Body-Worn SAR	Cell. CDMA	0.465	0.013	0.478
	PCS CDMA	0.271	0.013	0.284
	GSM 850	0.342	0.013	0.355
	GSM 1900	0.131	0.013	0.144
	UMTS 850	0.416	0.013	0.429
	UMTS 1750	0.176	0.013	0.189
	UMTS 1900	0.232	0.013	0.245
	LTE Band 71	0.328	0.013	0.341
	LTE Band 12	0.325	0.013	0.338
	LTE Band 13	0.276	0.013	0.289
	LTE Band 14	0.283	0.013	0.296
	LTE Band 26 (Cell)	0.447	0.013	0.460
	LTE Band 5 (Cell)	0.443	0.013	0.456
	LTE Band 66 (AWS)	0.220	0.013	0.233
	LTE Band 25 (PCS)	0.509	0.013	0.522
	LTE Band 30	0.336	0.013	0.349
	LTE Band 7	0.442	0.013	0.455
	LTE Band 48	0.028	0.013	0.041
	LTE Band 41	0.234	0.013	0.247
	NR Band n71	0.303	0.013	0.316
	NR Band n12	0.233	0.013	0.246
	NR Band n5 (Cell)	0.498	0.013	0.511
	NR Band n66 (AWS)	0.304	0.013	0.317
	NR Band n25 (PCS)	0.416	0.013	0.429
	NR Band n30	0.377	0.013	0.390
	NR Band n41	0.087	0.013	0.100
	NR Band n77 DoD	0.072	0.013	0.085
	NR Band n77	0.073	0.013	0.086

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Table 12-44
Simultaneous Transmission Scenario with 2.4 GHz MIMO WLAN (Body-Worn at 1.5 cm)

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
Body-Worn SAR	Cell. CDMA	0.465	0.072	0.537
	PCS CDMA	0.271	0.072	0.343
	GSM 850	0.342	0.072	0.414
	GSM 1900	0.131	0.072	0.203
	UMTS 850	0.416	0.072	0.488
	UMTS 1750	0.176	0.072	0.248
	UMTS 1900	0.232	0.072	0.304
	LTE Band 71	0.328	0.072	0.400
	LTE Band 12	0.325	0.072	0.397
	LTE Band 13	0.276	0.072	0.348
	LTE Band 14	0.283	0.072	0.355
	LTE Band 26 (Cell)	0.447	0.072	0.519
	LTE Band 5 (Cell)	0.443	0.072	0.515
	LTE Band 66 (AWS)	0.220	0.072	0.292
	LTE Band 25 (PCS)	0.509	0.072	0.581
	LTE Band 30	0.336	0.072	0.408
	LTE Band 7	0.442	0.072	0.514
	LTE Band 48	0.028	0.072	0.100
	LTE Band 41	0.234	0.072	0.306
	NR Band n71	0.303	0.072	0.375
	NR Band n12	0.233	0.072	0.305
	NR Band n5 (Cell)	0.498	0.072	0.570
	NR Band n66 (AWS)	0.304	0.072	0.376
	NR Band n25 (PCS)	0.416	0.072	0.488
	NR Band n30	0.377	0.072	0.449
	NR Band n41	0.087	0.072	0.159
	NR Band n77 DoD	0.072	0.072	0.144
	NR Band n77	0.073	0.072	0.145

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Table 12-45
Simultaneous Transmission Scenario with Bluetooth Antenna 1 (Body-Worn at 1.5 cm)

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
Body-Worn SAR	Cell. CDMA	0.465	0.018	0.483
	PCS CDMA	0.271	0.018	0.289
	GSM 850	0.342	0.018	0.360
	GSM 1900	0.131	0.018	0.149
	UMTS 850	0.416	0.018	0.434
	UMTS 1750	0.176	0.018	0.194
	UMTS 1900	0.232	0.018	0.250
	LTE Band 71	0.328	0.018	0.346
	LTE Band 12	0.325	0.018	0.343
	LTE Band 13	0.276	0.018	0.294
	LTE Band 14	0.283	0.018	0.301
	LTE Band 26 (Cell)	0.447	0.018	0.465
	LTE Band 5 (Cell)	0.443	0.018	0.461
	LTE Band 66 (AWS)	0.220	0.018	0.238
	LTE Band 25 (PCS)	0.509	0.018	0.527
	LTE Band 30	0.336	0.018	0.354
	LTE Band 7	0.442	0.018	0.460
	LTE Band 48	0.028	0.018	0.046
	LTE Band 41	0.234	0.018	0.252
	NR Band n71	0.303	0.018	0.321
	NR Band n12	0.233	0.018	0.251
	NR Band n5 (Cell)	0.498	0.018	0.516
	NR Band n66 (AWS)	0.304	0.018	0.322
	NR Band n25 (PCS)	0.416	0.018	0.434
	NR Band n30	0.377	0.018	0.395
	NR Band n41	0.087	0.018	0.105
	NR Band n77 DoD	0.072	0.018	0.090
	NR Band n77	0.073	0.018	0.091

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Table 12-46
Simultaneous Transmission Scenario with Bluetooth Antenna 2 (Body-Worn at 1.5 cm)

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
Body-Worn SAR	Cell. CDMA	0.465	0.013	0.478
	PCS CDMA	0.271	0.013	0.284
	GSM 850	0.342	0.013	0.355
	GSM 1900	0.131	0.013	0.144
	UMTS 850	0.416	0.013	0.429
	UMTS 1750	0.176	0.013	0.189
	UMTS 1900	0.232	0.013	0.245
	LTE Band 71	0.328	0.013	0.341
	LTE Band 12	0.325	0.013	0.338
	LTE Band 13	0.276	0.013	0.289
	LTE Band 14	0.283	0.013	0.296
	LTE Band 26 (Cell)	0.447	0.013	0.460
	LTE Band 5 (Cell)	0.443	0.013	0.456
	LTE Band 66 (AWS)	0.220	0.013	0.233
	LTE Band 25 (PCS)	0.509	0.013	0.522
	LTE Band 30	0.336	0.013	0.349
	LTE Band 7	0.442	0.013	0.455
	LTE Band 48	0.028	0.013	0.041
	LTE Band 41	0.234	0.013	0.247
	NR Band n71	0.303	0.013	0.316
	NR Band n12	0.233	0.013	0.246
	NR Band n5 (Cell)	0.498	0.013	0.511
	NR Band n66 (AWS)	0.304	0.013	0.317
	NR Band n25 (PCS)	0.416	0.013	0.429
	NR Band n30	0.377	0.013	0.390
	NR Band n41	0.087	0.013	0.100
	NR Band n77 DoD	0.072	0.013	0.085
	NR Band n77	0.073	0.013	0.086

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Table 12-47

Simultaneous Transmission Scenario with Bluetooth Antenna 1 and 5 GHz Antenna 1 WLAN (Body-Worn at 1.5 cm)

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body-Worn SAR	Cell. CDMA	0.465	0.018	0.001	0.484
	PCS CDMA	0.271	0.018	0.001	0.290
	GSM 850	0.342	0.018	0.001	0.361
	GSM 1900	0.131	0.018	0.001	0.150
	UMTS 850	0.416	0.018	0.001	0.435
	UMTS 1750	0.176	0.018	0.001	0.195
	UMTS 1900	0.232	0.018	0.001	0.251
	LTE Band 71	0.328	0.018	0.001	0.347
	LTE Band 12	0.325	0.018	0.001	0.344
	LTE Band 13	0.276	0.018	0.001	0.295
	LTE Band 14	0.283	0.018	0.001	0.302
	LTE Band 26 (Cell)	0.447	0.018	0.001	0.466
	LTE Band 5 (Cell)	0.443	0.018	0.001	0.462
	LTE Band 66 (AWS)	0.220	0.018	0.001	0.239
	LTE Band 25 (PCS)	0.509	0.018	0.001	0.528
	LTE Band 30	0.336	0.018	0.001	0.355
	LTE Band 7	0.442	0.018	0.001	0.461
	LTE Band 48	0.028	0.018	0.001	0.047
	LTE Band 41	0.234	0.018	0.001	0.253
	NR Band n71	0.303	0.018	0.001	0.322
	NR Band n12	0.233	0.018	0.001	0.252
	NR Band n5 (Cell)	0.498	0.018	0.001	0.517
	NR Band n66 (AWS)	0.304	0.018	0.001	0.323
	NR Band n25 (PCS)	0.416	0.018	0.001	0.435
	NR Band n30	0.377	0.018	0.001	0.396
	NR Band n41	0.087	0.018	0.001	0.106
	NR Band n77 DoD	0.072	0.018	0.001	0.091
	NR Band n77	0.073	0.018	0.001	0.092

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Table 12-48

Simultaneous Transmission Scenario with Bluetooth Antenna 2 and 5 GHz Antenna 1 WLAN (Body-Worn at 1.5 cm)

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body-Worn SAR	Cell. CDMA	0.465	0.013	0.001	0.479
	PCS CDMA	0.271	0.013	0.001	0.285
	GSM 850	0.342	0.013	0.001	0.356
	GSM 1900	0.131	0.013	0.001	0.145
	UMTS 850	0.416	0.013	0.001	0.430
	UMTS 1750	0.176	0.013	0.001	0.190
	UMTS 1900	0.232	0.013	0.001	0.246
	LTE Band 71	0.328	0.013	0.001	0.342
	LTE Band 12	0.325	0.013	0.001	0.339
	LTE Band 13	0.276	0.013	0.001	0.290
	LTE Band 14	0.283	0.013	0.001	0.297
	LTE Band 26 (Cell)	0.447	0.013	0.001	0.461
	LTE Band 5 (Cell)	0.443	0.013	0.001	0.457
	LTE Band 66 (AWS)	0.220	0.013	0.001	0.234
	LTE Band 25 (PCS)	0.509	0.013	0.001	0.523
	LTE Band 30	0.336	0.013	0.001	0.350
	LTE Band 7	0.442	0.013	0.001	0.456
	LTE Band 48	0.028	0.013	0.001	0.042
	LTE Band 41	0.234	0.013	0.001	0.248
	NR Band n71	0.303	0.013	0.001	0.317
	NR Band n12	0.233	0.013	0.001	0.247
	NR Band n5 (Cell)	0.498	0.013	0.001	0.512
	NR Band n66 (AWS)	0.304	0.013	0.001	0.318
	NR Band n25 (PCS)	0.416	0.013	0.001	0.430
	NR Band n30	0.377	0.013	0.001	0.391
	NR Band n41	0.087	0.013	0.001	0.101
	NR Band n77 DoD	0.072	0.013	0.001	0.086
	NR Band n77	0.073	0.013	0.001	0.087

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Table 12-49
Simultaneous Transmission Scenario with Bluetooth Antenna 1 and 5GHz MIMO WLAN (Body-Worn at 1.5 cm)

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body-Worn SAR	Cell. CDMA	0.465	0.018	0.013	0.496
	PCS CDMA	0.271	0.018	0.013	0.302
	GSM 850	0.342	0.018	0.013	0.373
	GSM 1900	0.131	0.018	0.013	0.162
	UMTS 850	0.416	0.018	0.013	0.447
	UMTS 1750	0.176	0.018	0.013	0.207
	UMTS 1900	0.232	0.018	0.013	0.263
	LTE Band 71	0.328	0.018	0.013	0.359
	LTE Band 12	0.325	0.018	0.013	0.356
	LTE Band 13	0.276	0.018	0.013	0.307
	LTE Band 14	0.283	0.018	0.013	0.314
	LTE Band 26 (Cell)	0.447	0.018	0.013	0.478
	LTE Band 5 (Cell)	0.443	0.018	0.013	0.474
	LTE Band 66 (AWS)	0.220	0.018	0.013	0.251
	LTE Band 25 (PCS)	0.509	0.018	0.013	0.540
	LTE Band 30	0.336	0.018	0.013	0.367
	LTE Band 7	0.442	0.018	0.013	0.473
	LTE Band 48	0.028	0.018	0.013	0.059
	LTE Band 41	0.234	0.018	0.013	0.265
	NR Band n71	0.303	0.018	0.013	0.334
	NR Band n12	0.233	0.018	0.013	0.264
	NR Band n5 (Cell)	0.498	0.018	0.013	0.529
	NR Band n66 (AWS)	0.304	0.018	0.013	0.335
	NR Band n25 (PCS)	0.416	0.018	0.013	0.447
	NR Band n30	0.377	0.018	0.013	0.408
	NR Band n41	0.087	0.018	0.013	0.118
	NR Band n77 DoD	0.072	0.018	0.013	0.103
	NR Band n77	0.073	0.018	0.013	0.104

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Table 12-50
Simultaneous Transmission Scenario with Bluetooth Antenna 2 and 5GHz MIMO WLAN (Body-Worn at 1.5 cm)

Configuration	Mode	2G/3G/4G/5G SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body-Worn SAR	Cell. CDMA	0.465	0.013	0.013	0.491
	PCS CDMA	0.271	0.013	0.013	0.297
	GSM 850	0.342	0.013	0.013	0.368
	GSM 1900	0.131	0.013	0.013	0.157
	UMTS 850	0.416	0.013	0.013	0.442
	UMTS 1750	0.176	0.013	0.013	0.202
	UMTS 1900	0.232	0.013	0.013	0.258
	LTE Band 71	0.328	0.013	0.013	0.354
	LTE Band 12	0.325	0.013	0.013	0.351
	LTE Band 13	0.276	0.013	0.013	0.302
	LTE Band 14	0.283	0.013	0.013	0.309
	LTE Band 26 (Cell)	0.447	0.013	0.013	0.473
	LTE Band 5 (Cell)	0.443	0.013	0.013	0.469
	LTE Band 66 (AWS)	0.220	0.013	0.013	0.246
	LTE Band 25 (PCS)	0.509	0.013	0.013	0.535
	LTE Band 30	0.336	0.013	0.013	0.362
	LTE Band 7	0.442	0.013	0.013	0.468
	LTE Band 48	0.028	0.013	0.013	0.054
	LTE Band 41	0.234	0.013	0.013	0.260
	NR Band n71	0.303	0.013	0.013	0.329
	NR Band n12	0.233	0.013	0.013	0.259
	NR Band n5 (Cell)	0.498	0.013	0.013	0.524
	NR Band n66 (AWS)	0.304	0.013	0.013	0.330
	NR Band n25 (PCS)	0.416	0.013	0.013	0.442
	NR Band n30	0.377	0.013	0.013	0.403
	NR Band n41	0.087	0.013	0.013	0.113
	NR Band n77 DoD	0.072	0.013	0.013	0.098
	NR Band n77	0.073	0.013	0.013	0.099

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Table 12-51
Simultaneous Transmission Scenario with Bluetooth Antenna 1 and 2.4 GHz WLAN Antenna 2
(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 WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Body-Worn SAR	Cell. CDMA	0.465	0.018	0.019	0.502
	PCS CDMA	0.271	0.018	0.019	0.308
	GSM 850	0.342	0.018	0.019	0.379
	GSM 1900	0.131	0.018	0.019	0.168
	UMTS 850	0.416	0.018	0.019	0.453
	UMTS 1750	0.176	0.018	0.019	0.213
	UMTS 1900	0.232	0.018	0.019	0.269
	LTE Band 71	0.328	0.018	0.019	0.365
	LTE Band 12	0.325	0.018	0.019	0.362
	LTE Band 13	0.276	0.018	0.019	0.313
	LTE Band 14	0.283	0.018	0.019	0.320
	LTE Band 26 (Cell)	0.447	0.018	0.019	0.484
	LTE Band 5 (Cell)	0.443	0.018	0.019	0.480
	LTE Band 66 (AWS)	0.220	0.018	0.019	0.257
	LTE Band 25 (PCS)	0.509	0.018	0.019	0.546
	LTE Band 30	0.336	0.018	0.019	0.373
	LTE Band 7	0.442	0.018	0.019	0.479
	LTE Band 48	0.028	0.018	0.019	0.065
	LTE Band 41	0.234	0.018	0.019	0.271
	NR Band n71	0.303	0.018	0.019	0.340
	NR Band n12	0.233	0.018	0.019	0.270
	NR Band n5 (Cell)	0.498	0.018	0.019	0.535
	NR Band n66 (AWS)	0.304	0.018	0.019	0.341
	NR Band n25 (PCS)	0.416	0.018	0.019	0.453
	NR Band n30	0.377	0.018	0.019	0.414
	NR Band n41	0.087	0.018	0.019	0.124
	NR Band n77 DoD	0.072	0.018	0.019	0.109
	NR Band n77	0.073	0.018	0.019	0.110

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Table 12-52
Simultaneous Transmission Scenario with Bluetooth Antenna 1, 2.4 GHz Antenna 2 WLAN,
and 5 GHz Antenna 1 WLAN (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 WLAN Ant 2 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Body-Worn SAR	Cell. CDMA	0.465	0.018	0.019	0.001	0.503
	PCS CDMA	0.271	0.018	0.019	0.001	0.309
	GSM 850	0.342	0.018	0.019	0.001	0.380
	GSM 1900	0.131	0.018	0.019	0.001	0.169
	UMTS 850	0.416	0.018	0.019	0.001	0.454
	UMTS 1750	0.176	0.018	0.019	0.001	0.214
	UMTS 1900	0.232	0.018	0.019	0.001	0.270
	LTE Band 71	0.328	0.018	0.019	0.001	0.366
	LTE Band 12	0.325	0.018	0.019	0.001	0.363
	LTE Band 13	0.276	0.018	0.019	0.001	0.314
	LTE Band 14	0.283	0.018	0.019	0.001	0.321
	LTE Band 26 (Cell)	0.447	0.018	0.019	0.001	0.485
	LTE Band 5 (Cell)	0.443	0.018	0.019	0.001	0.481
	LTE Band 66 (AWS)	0.220	0.018	0.019	0.001	0.258
	LTE Band 25 (PCS)	0.509	0.018	0.019	0.001	0.547
	LTE Band 30	0.336	0.018	0.019	0.001	0.374
	LTE Band 7	0.442	0.018	0.019	0.001	0.480
	LTE Band 48	0.028	0.018	0.019	0.001	0.066
	LTE Band 41	0.234	0.018	0.019	0.001	0.272
	NR Band n71	0.303	0.018	0.019	0.001	0.341
	NR Band n12	0.233	0.018	0.019	0.001	0.271
	NR Band n5 (Cell)	0.498	0.018	0.019	0.001	0.536
	NR Band n66 (AWS)	0.304	0.018	0.019	0.001	0.341
	NR Band n25 (PCS)	0.416	0.018	0.019	0.001	0.454
	NR Band n30	0.377	0.018	0.019	0.001	0.414
	NR Band n41	0.087	0.018	0.019	0.001	0.124
	NR Band n77 DoD	0.072	0.018	0.019	0.001	0.109
	NR Band n77	0.073	0.018	0.019	0.001	0.110

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Table 12-53
Simultaneous Transmission Scenario with Bluetooth Antenna 1, 2.4 GHz Antenna 2 WLAN, and 5 GHz MIMO WLAN (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 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	Cell. CDMA	0.465	0.018	0.019	0.013	0.515
	PCS CDMA	0.271	0.018	0.019	0.013	0.321
	GSM 850	0.342	0.018	0.019	0.013	0.392
	GSM 1900	0.131	0.018	0.019	0.013	0.181
	UMTS 850	0.416	0.018	0.019	0.013	0.466
	UMTS 1750	0.176	0.018	0.019	0.013	0.226
	UMTS 1900	0.232	0.018	0.019	0.013	0.282
	LTE Band 71	0.328	0.018	0.019	0.013	0.378
	LTE Band 12	0.325	0.018	0.019	0.013	0.375
	LTE Band 13	0.276	0.018	0.019	0.013	0.326
	LTE Band 14	0.283	0.018	0.019	0.013	0.333
	LTE Band 26 (Cell)	0.447	0.018	0.019	0.013	0.497
	LTE Band 5 (Cell)	0.443	0.018	0.019	0.013	0.493
	LTE Band 66 (AWS)	0.220	0.018	0.019	0.013	0.270
	LTE Band 25 (PCS)	0.509	0.018	0.019	0.013	0.559
	LTE Band 30	0.336	0.018	0.019	0.013	0.386
	LTE Band 7	0.442	0.018	0.019	0.013	0.492
	LTE Band 48	0.028	0.018	0.019	0.013	0.078
	LTE Band 41	0.234	0.018	0.019	0.013	0.284
	NR Band n71	0.303	0.018	0.019	0.013	0.353
	NR Band n12	0.233	0.018	0.019	0.013	0.283
	NR Band n5 (Cell)	0.498	0.018	0.019	0.013	0.548
	NR Band n66 (AWS)	0.304	0.018	0.019	0.013	0.354
	NR Band n25 (PCS)	0.416	0.018	0.019	0.013	0.466
	NR Band n30	0.377	0.018	0.019	0.013	0.414
	NR Band n41	0.087	0.018	0.019	0.013	0.124
	NR Band n77 DoD	0.072	0.018	0.019	0.013	0.109
	NR Band n77	0.073	0.018	0.019	0.013	0.110

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Table 12-54
Simultaneous Transmission Scenario with 2.4 GHz MIMO WLAN and 5 GHz MIMO WLAN (Body-Worn at 1.5 cm)

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
Body-Worn SAR	Cell. CDMA	0.465	0.072	0.013	0.550
	PCS CDMA	0.271	0.072	0.013	0.356
	GSM 850	0.342	0.072	0.013	0.427
	GSM 1900	0.131	0.072	0.013	0.216
	UMTS 850	0.416	0.072	0.013	0.501
	UMTS 1750	0.176	0.072	0.013	0.261
	UMTS 1900	0.232	0.072	0.013	0.317
	LTE Band 71	0.328	0.072	0.013	0.413
	LTE Band 12	0.325	0.072	0.013	0.410
	LTE Band 13	0.276	0.072	0.013	0.361
	LTE Band 14	0.283	0.072	0.013	0.368
	LTE Band 26 (Cell)	0.447	0.072	0.013	0.532
	LTE Band 5 (Cell)	0.443	0.072	0.013	0.528
	LTE Band 66 (AWS)	0.220	0.072	0.013	0.305
	LTE Band 25 (PCS)	0.509	0.072	0.013	0.594
	LTE Band 30	0.336	0.072	0.013	0.421
	LTE Band 7	0.442	0.072	0.013	0.527
	LTE Band 48	0.028	0.072	0.013	0.113
	LTE Band 41	0.234	0.072	0.013	0.319
	NR Band n71	0.303	0.072	0.013	0.388
	NR Band n12	0.233	0.072	0.013	0.318
	NR Band n5 (Cell)	0.498	0.072	0.013	0.583
	NR Band n66 (AWS)	0.304	0.072	0.013	0.389
	NR Band n25 (PCS)	0.416	0.072	0.013	0.501
	NR Band n30	0.377	0.072	0.013	0.462
	NR Band n41	0.087	0.072	0.013	0.172
	NR Band n77 DoD	0.072	0.072	0.013	0.157
	NR Band n77	0.073	0.072	0.013	0.158

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12.8 Closed Hotspot SAR Simultaneous Transmission Analysis

Table 12-55
Simultaneous Transmission Scenario with 5 GHz WLAN Antenna 1 (Hotspot at 1.0 cm)

Configuration	Mode	2G/3G/4G SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
Hotspot SAR	Cell. EVDO	1.077	0.225	1.302
	PCS EVDO	1.037	0.225	1.262
	GPRS 850	0.548	0.225	0.773
	GPRS 1900	1.132	0.225	1.357
	UMTS 850	1.025	0.225	1.250
	UMTS 1750	1.159	0.225	1.384
	UMTS 1900	1.005	0.225	1.230
	LTE Band 71	0.654	0.225	0.879
	LTE Band 12	0.740	0.225	0.965
	LTE Band 13	0.733	0.225	0.958
	LTE Band 14	0.856	0.225	1.081
	LTE Band 26 (Cell)	0.739	0.225	0.964
	LTE Band 5 (Cell)	0.888	0.225	1.113
	LTE Band 66 (AWS)	1.161	0.225	1.386
	LTE Band 25 (PCS)	1.161	0.225	1.386
	LTE Band 30	0.964	0.225	1.189
	LTE Band 7	1.111	0.225	1.336
	LTE Band 48	0.496	0.225	0.721
	LTE Band 41	1.106	0.225	1.331

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Configuration	Mode	5G SAR (W/kg)	5 GHz WLAN Ant 1 at 14 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
Hotspot SAR	NR Band n71	0.679	0.062	0.741
	NR Band n12	0.752	0.062	0.814
	NR Band n5 (Cell)	0.994	0.062	1.056
	NR Band n66 (AWS)	1.211	0.062	1.273
	NR Band n25 (PCS)	0.840	0.062	0.902
	NR Band n30	1.201	0.062	1.263
	NR Band n41	1.192	0.062	1.254
	NR Band n77 DoD	0.600	0.062	0.662
	NR Band n77	0.885	0.062	0.947

Table 12-56
Simultaneous Transmission Scenario with 5 GHz MIMO WLAN (Hotspot at 1.0 cm)

Configuration	Mode	2G/3G/4G SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
Hotspot SAR	Cell. EVDO	1.077	0.573	See Table Below
	PCS EVDO	1.037	0.573	See Table Below
	GPRS 850	0.548	0.573	1.121
	GPRS 1900	1.132	0.573	See Table Below
	UMTS 850	1.025	0.573	See Table Below
	UMTS 1750	1.159	0.573	See Table Below
	UMTS 1900	1.005	0.573	1.578
	LTE Band 71	0.654	0.573	1.227
	LTE Band 12	0.740	0.573	1.313
	LTE Band 13	0.733	0.573	1.306
	LTE Band 14	0.856	0.573	1.429
	LTE Band 26 (Cell)	0.739	0.573	1.312
	LTE Band 5 (Cell)	0.888	0.573	1.461
	LTE Band 66 (AWS)	1.161	0.573	See Table Below
	LTE Band 25 (PCS)	1.161	0.573	See Table Below
	LTE Band 30	0.964	0.573	1.537
	LTE Band 7	1.111	0.573	See Table Below
	LTE Band 48	0.496	0.573	1.069
	LTE Band 41	1.106	0.573	See Table Below

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Simult Tx	Configuration	Cell. EVDO SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	UMTS 1750 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2			1	2	1+2
Hotspot SAR	Back	1.077	0.035	1.112	Hotspot SAR	Back	0.716	0.035	0.751
	Front	0.177	0.573	0.750		Front	0.217	0.573	0.790
	Bottom	0.254	0.193	0.447		Bottom	1.159	0.193	1.352
	Right	0.106	0.048	0.154		Right	0.047	0.048	0.095
	Left	0.152	0.506	0.658		Left	0.146	0.506	0.652
Simult Tx	Configuration	PCS EVDO SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 66 (AWS) SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2			1	2	1+2
Hotspot SAR	Back	0.554	0.035	0.589	Hotspot SAR	Back	0.728	0.035	0.763
	Front	0.158	0.573	0.731		Front	0.227	0.573	0.800
	Bottom	1.037	0.193	1.230		Bottom	1.161	0.193	1.354
	Right	0.034	0.048	0.082		Right	0.033	0.048	0.081
	Left	0.094	0.506	0.600		Left	0.193	0.506	0.699
Simult Tx	Configuration	GPRS 1900 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 25 (PCS) SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2			1	2	1+2
Hotspot SAR	Back	0.721	0.035	0.756	Hotspot SAR	Back	0.664	0.035	0.699
	Front	0.141	0.573	0.714		Front	0.218	0.573	0.791
	Bottom	1.132	0.193	1.325		Bottom	1.161	0.193	1.354
	Right	0.037	0.048	0.085		Right	0.041	0.048	0.089
	Left	0.084	0.506	0.590		Left	0.106	0.506	0.612
Simult Tx	Configuration	UMTS 850 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 7 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2			1	2	1+2
Hotspot SAR	Back	1.025	0.035	1.060	Hotspot SAR	Back	0.304	0.035	0.339
	Front	0.251	0.573	0.824		Front	0.081	0.573	0.654
	Bottom	0.208	0.193	0.401		Bottom	1.111	0.193	1.304
	Right	0.128	0.048	0.176		Right	-	0.048	0.048
	Left	0.170	0.506	0.676		Left	0.162	0.506	0.668

Simult Tx	Configuration	LTE Band 41 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
Hotspot SAR	Back	0.488	0.035	0.523
	Front	0.042	0.573	0.615
	Bottom	1.106	0.193	1.299
	Right	-	0.048	0.048
	Left	0.089	0.506	0.595

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Configuration	Mode	5G SAR (W/kg)	5 GHz WLAN MIMO at 17 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
Hotspot	NR Band n71	0.679	0.273	0.952
	NR Band n12	0.752	0.273	1.025
	NR Band n5 (Cell)	0.994	0.273	1.267
	NR Band n25 (PCS)	0.840	0.273	1.113
	NR Band n66 (AWS)	1.211	0.273	1.484
	NR Band n30	1.201	0.273	1.474
	NR Band n41	1.192	0.273	1.465
	NR Band n77 DoD	0.600	0.273	0.873
	NR Band n77	0.885	0.273	1.158

Table 12-57
Simultaneous Transmission Scenario with 2.4 GHz MIMO WLAN (Hotspot at 1.0 cm)

Configuration	Mode	2G/3G/4G SAR (W/kg)	2.4 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
Hotspot SAR	Cell. EVDO	1.077	0.794	See Table Below
	PCS EVDO	1.037	0.794	See Table Below
	GPRS 850	0.548	0.794	1.342
	GPRS 1900	1.132	0.794	See Table Below
	UMTS 850	1.025	0.794	See Table Below
	UMTS 1750	1.159	0.794	See Table Below
	UMTS 1900	1.005	0.794	See Table Below
	LTE Band 71	0.654	0.794	1.448
	LTE Band 12	0.740	0.794	1.534
	LTE Band 13	0.733	0.794	1.527
	LTE Band 14	0.856	0.794	See Table Below
	LTE Band 26 (Cell)	0.739	0.794	1.533
	LTE Band 5 (Cell)	0.888	0.794	See Table Below
	LTE Band 66 (AWS)	1.161	0.794	See Table Below
	LTE Band 25 (PCS)	1.161	0.794	See Table Below
	LTE Band 30	0.964	0.794	See Table Below
	LTE Band 7	1.111	0.794	See Table Below
	LTE Band 48	0.496	0.794	1.290
	LTE Band 41	1.106	0.794	See Table Below

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Simult Tx	Configuration	Cell. EVDO SAR (W/kg)	2.4 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 14 SAR (W/kg)	2.4 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2			1	2	1+2
Hotspot SAR	Back	1.077	0.249	1.326	Hotspot SAR	Back	0.856	0.249	1.105
	Front	0.177	0.589	0.766		Front	0.106	0.589	0.695
	Bottom	0.254	0.411	0.665		Bottom	0.283	0.411	0.694
	Right	0.106	0.234	0.340		Right	0.123	0.234	0.357
	Left	0.152	0.794	0.946		Left	0.174	0.794	0.968
Simult Tx	Configuration	PCS EVDO SAR (W/kg)	2.4 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 5 (Cell) SAR (W/kg)	2.4 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2			1	2	1+2
Hotspot SAR	Back	0.554	0.249	0.803	Hotspot SAR	Back	0.888	0.249	1.137
	Front	0.158	0.589	0.747		Front	0.150	0.589	0.739
	Bottom	1.037	0.411	1.448		Bottom	0.227	0.411	0.638
	Right	0.034	0.234	0.268		Right	0.117	0.234	0.351
	Left	0.094	0.794	0.888		Left	0.119	0.794	0.913
Simult Tx	Configuration	GPRS 1900 SAR (W/kg)	2.4 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 66 (AWS) SAR (W/kg)	2.4 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2			1	2	1+2
Hotspot SAR	Back	0.721	0.249	0.970	Hotspot SAR	Back	0.728	0.249	0.977
	Front	0.141	0.589	0.730		Front	0.227	0.589	0.816
	Bottom	1.132	0.411	1.543		Bottom	1.161	0.411	1.572
	Right	0.037	0.234	0.271		Right	0.033	0.234	0.267
	Left	0.084	0.794	0.878		Left	0.193	0.794	0.987
Simult Tx	Configuration	UMTS 850 SAR (W/kg)	2.4 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 25 (PCS) SAR (W/kg)	2.4 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2			1	2	1+2
Hotspot SAR	Back	1.025	0.249	1.274	Hotspot SAR	Back	0.664	0.249	0.913
	Front	0.251	0.589	0.840		Front	0.218	0.589	0.807
	Bottom	0.208	0.411	0.619		Bottom	1.161	0.411	1.572
	Right	0.128	0.234	0.362		Right	0.041	0.234	0.275
	Left	0.170	0.794	0.964		Left	0.106	0.794	0.900
Simult Tx	Configuration	UMTS 1750 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)
		1	2	1+2			1	2	1+2
Hotspot SAR	Back	0.716	0.249	0.965	Hotspot SAR	Back	0.640	0.249	0.889
	Front	0.217	0.589	0.806		Front	0.043	0.589	0.632
	Bottom	1.159	0.411	1.570		Bottom	0.964	0.411	1.375
	Right	0.047	0.234	0.281		Right	0.030	0.234	0.264
	Left	0.146	0.794	0.940		Left	0.054	0.794	0.848
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 7 SAR (W/kg)	2.4 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2			1	2	1+2
Hotspot SAR	Back	0.654	0.249	0.903	Hotspot SAR	Back	0.304	0.249	0.553
	Front	0.126	0.589	0.715		Front	0.081	0.589	0.670
	Bottom	1.005	0.411	1.416		Bottom	1.111	0.411	1.522
	Right	0.049	0.234	0.283		Right	-	0.234	0.234
	Left	0.097	0.794	0.891		Left	0.162	0.794	0.956
Simult Tx	Configuration	LTE Band 41 SAR (W/kg)	2.4 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)					
		1	2	1+2					
Hotspot SAR	Back	0.488	0.249	0.737					
	Front	0.042	0.589	0.631					
	Bottom	1.106	0.411	1.517					
	Right	-	0.234	0.234					
	Left	0.089	0.794	0.883					

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Configuration	Mode	5G SAR (W/kg)	2.4 GHz WLAN MIMO at 17 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
Hotspot	NR Band n71	0.679	0.182	0.861
	NR Band n12	0.752	0.182	0.934
	NR Band n5 (Cell)	0.994	0.182	1.176
	NR Band n66 (AWS)	1.211	0.182	1.393
	NR Band n25 (PCS)	0.840	0.182	1.022
	NR Band n30	1.201	0.182	1.383
	NR Band n41	1.192	0.182	1.374
	NR Band n77 DoD	0.600	0.182	0.782
	NR Band n77	0.885	0.182	1.067

Table 12-58
Simultaneous Transmission Scenario with Bluetooth Antenna 1 (Hotspot at 1.0 cm)

Configuration	Mode	2G/3G/4G SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
Hotspot SAR	Cell. EVDO	1.077	0.288	1.365
	PCS EVDO	1.037	0.288	1.325
	GPRS 850	0.548	0.288	0.836
	GPRS 1900	1.132	0.288	1.420
	UMTS 850	1.025	0.288	1.313
	UMTS 1750	1.159	0.288	1.447
	UMTS 1900	1.005	0.288	1.293
	LTE Band 71	0.654	0.288	0.942
	LTE Band 12	0.740	0.288	1.028
	LTE Band 13	0.733	0.288	1.021
	LTE Band 14	0.856	0.288	1.144
	LTE Band 26 (Cell)	0.739	0.288	1.027
	LTE Band 5 (Cell)	0.888	0.288	1.176
	LTE Band 66 (AWS)	1.161	0.288	1.449
	LTE Band 25 (PCS)	1.161	0.288	1.449
	LTE Band 30	0.964	0.288	1.252
	LTE Band 7	1.111	0.288	1.399
	LTE Band 48	0.496	0.288	0.784
	LTE Band 41	1.106	0.288	1.394

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Configuration	Mode	5G SAR (W/kg)	2.4 GHz Bluetooth Ant 1 at 13 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
Hotspot SAR	NR Band n71	0.679	0.112	0.791
	NR Band n12	0.752	0.112	0.864
	NR Band n5 (Cell)	0.994	0.112	1.106
	NR Band n66 (AWS)	1.211	0.112	1.323
	NR Band n25 (PCS)	0.840	0.112	0.952
	NR Band n30	1.201	0.112	1.313
	NR Band n41	1.192	0.112	1.304
	NR Band n77 DoD	0.600	0.112	0.712
	NR Band n77	0.885	0.112	0.997

Table 12-59
Simultaneous Transmission Scenario with Bluetooth Antenna 2 (Hotspot at 1.0 cm)

Configuration	Mode	2G/3G/4G SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
Hotspot SAR	Cell. EVDO	1.077	0.281	1.358
	PCS EVDO	1.037	0.281	1.318
	GPRS 850	0.548	0.281	0.829
	GPRS 1900	1.132	0.281	1.413
	UMTS 850	1.025	0.281	1.306
	UMTS 1750	1.159	0.281	1.440
	UMTS 1900	1.005	0.281	1.286
	LTE Band 71	0.654	0.281	0.935
	LTE Band 12	0.740	0.281	1.021
	LTE Band 13	0.733	0.281	1.014
	LTE Band 14	0.856	0.281	1.137
	LTE Band 26 (Cell)	0.739	0.281	1.020
	LTE Band 5 (Cell)	0.888	0.281	1.169
	LTE Band 66 (AWS)	1.161	0.281	1.442
	LTE Band 25 (PCS)	1.161	0.281	1.442
	LTE Band 30	0.964	0.281	1.245
	LTE Band 7	1.111	0.281	1.392
	LTE Band 48	0.496	0.281	0.777
	LTE Band 41	1.106	0.281	1.387

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Configuration	Mode	5G SAR (W/kg)	2.4 GHz Bluetooth Ant 2 at 13 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	1+2
Hotspot SAR	NR Band n71	0.679	0.112	0.791
	NR Band n12	0.752	0.112	0.864
	NR Band n5 (Cell)	0.994	0.112	1.106
	NR Band n66 (AWS)	1.211	0.112	1.323
	NR Band n25 (PCS)	0.840	0.112	0.952
	NR Band n30	1.201	0.112	1.313
	NR Band n41	1.192	0.112	1.304
	NR Band n77 DoD	0.600	0.112	0.712
	NR Band n77	0.885	0.112	0.997

Table 12-60

Simultaneous Transmission Scenario with Bluetooth Antenna 1 and 5 GHz Antenna 1 WLAN (Hotspot at 1.0 cm)

Configuration	Mode	2G/3G/4G SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Hotspot SAR	Cell. EVDO	1.077	0.288	0.225	1.590
	PCS EVDO	1.037	0.288	0.225	1.550
	GPRS 850	0.548	0.288	0.225	1.061
	GPRS 1900	1.132	0.288	0.225	See Table Below
	UMTS 850	1.025	0.288	0.225	1.538
	UMTS 1750	1.159	0.288	0.225	See Table Below
	UMTS 1900	1.005	0.288	0.225	1.518
	LTE Band 71	0.654	0.288	0.225	1.167
	LTE Band 12	0.740	0.288	0.225	1.253
	LTE Band 13	0.733	0.288	0.225	1.246
	LTE Band 14	0.856	0.288	0.225	1.369
	LTE Band 26 (Cell)	0.739	0.288	0.225	1.252
	LTE Band 5 (Cell)	0.888	0.288	0.225	1.401
	LTE Band 66 (AWS)	1.161	0.288	0.225	See Table Below
	LTE Band 25 (PCS)	1.161	0.288	0.225	See Table Below
	LTE Band 30	0.964	0.288	0.225	1.477
	LTE Band 7	1.111	0.288	0.225	See Table Below
	LTE Band 48	0.496	0.288	0.225	1.009
	LTE Band 41	1.106	0.288	0.225	See Table Below

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Simult Tx	Configuration	GPRS 1900 SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 66 (AWS) SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	2	1+2+3			1	2	2	1+2+3
Hotspot SAR	Back	0.721	0.068	0.027	0.816	Hotspot SAR	Back	0.728	0.068	0.027	0.823
	Front	0.141	0.288	0.225*	0.654		Front	0.227	0.288	0.225*	0.740
	Bottom	1.132	0.123	0.225	1.480		Bottom	1.161	0.123	0.225	1.509
	Right	0.037	0.077	0.225*	0.339		Right	0.033	0.077	0.225*	0.335
	Left	0.084	-	-	0.084		Left	0.193	-	-	0.193
Simult Tx	Configuration	UMTS 1750 SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 25 (PCS) SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	2	1+2+3			1	2	2	1+2+3
Hotspot SAR	Back	0.716	0.068	0.027	0.811	Hotspot SAR	Back	0.664	0.068	0.027	0.759
	Front	0.217	0.288	0.225*	0.730		Front	0.218	0.288	0.225*	0.731
	Bottom	1.159	0.123	0.225	1.507		Bottom	1.161	0.123	0.225	1.509
	Right	0.047	0.077	0.225*	0.349		Right	0.041	0.077	0.225*	0.343
	Left	0.146	-	-	0.146		Left	0.106	-	-	0.106

Simult Tx	Configuration	LTE Band 7 SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	2	1+2+3
Hotspot SAR	Back	0.304	0.068	0.027	0.399
	Front	0.081	0.288	0.225*	0.594
	Bottom	1.111	0.123	0.225	1.459
	Right	-	0.077	0.225*	0.302
	Left	0.162	-	-	0.162
Simult Tx	Configuration	LTE Band 41 SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	2	1+2+3
Hotspot SAR	Back	0.488	0.068	0.027	0.583
	Front	0.042	0.288	0.225*	0.555
	Bottom	1.106	0.123	0.225	1.454
	Right	-	0.077	0.225*	0.302
	Left	0.089	-	-	0.089

Configuration	Mode	5G SAR (W/kg)	2.4 GHz Bluetooth Ant 1 at 13 dBm SAR (W/kg)	5 GHz WLAN Ant 1 at 14 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Hotspot SAR	NR Band n71	0.679	0.112	0.062	0.853
	NR Band n12	0.752	0.112	0.062	0.926
	NR Band n5 (Cell)	0.994	0.112	0.062	1.168
	NR Band n66 (AWS)	1.211	0.112	0.062	1.385
	NR Band n25 (PCS)	0.840	0.112	0.062	1.014
	NR Band n30	1.201	0.112	0.062	1.375
	NR Band n41	1.192	0.112	0.062	1.366
	NR Band n77 DoD	0.600	0.112	0.062	0.774
	NR Band n77	0.885	0.112	0.062	1.059

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Table 12-61

Simultaneous Transmission Scenario with Bluetooth Antenna 2 and 5 GHz Antenna 1 WLAN (Hotspot at 1.0 cm)

Configuration	Mode	2G/3G/4G SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Hotspot SAR	Cell. EVDO	1.077	0.281	0.225	1.583
	PCS EVDO	1.037	0.281	0.225	1.543
	GPRS 850	0.548	0.281	0.225	1.054
	GPRS 1900	1.132	0.281	0.225	See Table Below
	UMTS 850	1.025	0.281	0.225	1.531
	UMTS 1750	1.159	0.281	0.225	See Table Below
	UMTS 1900	1.005	0.281	0.225	1.511
	LTE Band 71	0.654	0.281	0.225	1.160
	LTE Band 12	0.740	0.281	0.225	1.246
	LTE Band 13	0.733	0.281	0.225	1.239
	LTE Band 14	0.856	0.281	0.225	1.362
	LTE Band 26 (Cell)	0.739	0.281	0.225	1.245
	LTE Band 5 (Cell)	0.888	0.281	0.225	1.394
	LTE Band 66 (AWS)	1.161	0.281	0.225	See Table Below
	LTE Band 25 (PCS)	1.161	0.281	0.225	See Table Below
	LTE Band 30	0.964	0.281	0.225	1.470
	LTE Band 7	1.111	0.281	0.225	See Table Below
	LTE Band 48	0.496	0.281	0.225	1.002
	LTE Band 41	1.106	0.281	0.225	See Table Below

Simult Tx	Configuration	GPRS 1900 SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	2	1+2+3
Hotspot SAR	Back	0.721	0.084	0.027	0.832
	Front	0.141	0.277	0.225*	0.643
	Bottom	1.132	0.203	0.225	1.560
	Right	0.037	-	0.225*	0.262
	Left	0.084	0.281	-	0.365
Simult Tx	Configuration	UMTS 1750 SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	2	1+2+3
Hotspot SAR	Back	0.716	0.084	0.027	0.827
	Front	0.217	0.277	0.225*	0.719
	Bottom	1.159	0.203	0.225	1.587
	Right	0.047	-	0.225*	0.272
	Left	0.146	0.281	-	0.427
Simult Tx	Configuration	LTE Band 66 (AWS) SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	2	1+2+3
Hotspot SAR	Back	0.728	0.084	0.027	0.839
	Front	0.227	0.277	0.225*	0.729
	Bottom	1.161	0.203	0.225	1.589
	Right	0.033	-	0.225*	0.258
	Left	0.193	0.281	-	0.474

Simult Tx	Configuration	LTE Band 25 (PCS) SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	2	1+2+3
Hotspot SAR	Back	0.664	0.084	0.027	0.775
	Front	0.218	0.277	0.225*	0.720
	Bottom	1.161	0.203	0.225	1.589
	Right	0.041	-	0.225*	0.266
	Left	0.106	0.281	-	0.387
Simult Tx	Configuration	LTE Band 7 SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	2	1+2+3
Hotspot SAR	Back	0.304	0.084	0.027	0.415
	Front	0.081	0.277	0.225*	0.583
	Bottom	1.111	0.203	0.225	1.539
	Right	-	-	0.225*	0.225
	Left	0.162	0.281	-	0.443
Simult Tx	Configuration	LTE Band 41 SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	5 GHz WLAN Ant 1 SAR (W/kg)	Σ SAR (W/kg)
		1	2	2	1+2+3
Hotspot SAR	Back	0.488	0.084	0.027	0.599
	Front	0.042	0.277	0.225*	0.544
	Bottom	1.106	0.203	0.225	1.534
	Right	-	-	0.225*	0.225
	Left	0.089	0.281	-	0.370

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Configuration	Mode	5G SAR (W/kg)	2.4 GHz Bluetooth Ant 2 at 13 dBm SAR (W/kg)	5 GHz WLAN Ant 1 at 14 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Hotspot SAR	NR Band n71	0.679	0.112	0.062	0.853
	NR Band n12	0.752	0.112	0.062	0.926
	NR Band n5 (Cell)	0.994	0.112	0.062	1.168
	NR Band n66 (AWS)	1.211	0.112	0.062	1.385
	NR Band n25 (PCS)	0.840	0.112	0.062	1.014
	NR Band n30	1.201	0.112	0.062	1.375
	NR Band n41	1.192	0.112	0.062	1.366
	NR Band n77 DoD	0.600	0.112	0.062	0.774
	NR Band n77	0.885	0.112	0.062	1.059

Table 12-62
Simultaneous Transmission Scenario with Bluetooth Antenna 1 and 5GHz MIMO WLAN (Hotspot at 1.0cm)

Configuration	Mode	2G/3G/4G SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	2	1+2+3
Hotspot SAR	Cell. EVDO	1.077	0.288	0.573	See Table Below
	PCS EVDO	1.037	0.288	0.573	See Table Below
	GPRS 850	0.548	0.288	0.573	1.409
	GPRS 1900	1.132	0.288	0.573	See Table Below
	UMTS 850	1.025	0.288	0.573	See Table Below
	UMTS 1750	1.159	0.288	0.573	See Table Below
	UMTS 1900	1.005	0.288	0.573	See Table Below
	LTE Band 71	0.654	0.288	0.573	1.515
	LTE Band 12	0.740	0.288	0.573	See Table Below
	LTE Band 13	0.733	0.288	0.573	1.594
	LTE Band 14	0.856	0.288	0.573	See Table Below
	LTE Band 26 (Cell)	0.739	0.288	0.573	See Table Below
	LTE Band 5 (Cell)	0.888	0.288	0.573	See Table Below
	LTE Band 66 (AWS)	1.161	0.288	0.573	See Table Below
	LTE Band 25 (PCS)	1.161	0.288	0.573	See Table Below
	LTE Band 30	0.964	0.288	0.573	See Table Below
	LTE Band 7	1.111	0.288	0.573	See Table Below
	LTE Band 48	0.496	0.288	0.573	1.357
	LTE Band 41	1.106	0.288	0.573	See Table Below

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Simult Tx	Configuration	Cell. EVDO SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 12 SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3			1	2	3	1+2+3
Hotspot SAR	Back	1.077	0.068	0.035	1.180	Hotspot SAR	Back	0.740	0.068	0.035	0.843
	Front	0.177	0.288	0.573	1.038		Front	0.195	0.288	0.573	1.056
	Bottom	0.254	0.123	0.193	0.570		Bottom	0.149	0.123	0.193	0.465
	Right	0.106	0.077	0.048	0.231		Right	0.130	0.077	0.048	0.255
	Left	0.152	-	0.506	0.658		Left	0.249	-	0.506	0.755
Simult Tx	Configuration	PCS EVDO SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 14 SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3			1	2	3	1+2+3
Hotspot SAR	Back	0.554	0.068	0.035	0.657	Hotspot SAR	Back	0.856	0.068	0.035	0.959
	Front	0.158	0.288	0.573	1.019		Front	0.106	0.288	0.573	0.967
	Bottom	1.037	0.123	0.193	1.353		Bottom	0.283	0.123	0.193	0.599
	Right	0.034	0.077	0.048	0.159		Right	0.123	0.077	0.048	0.248
	Left	0.094	-	0.506	0.600		Left	0.174	-	0.506	0.680
Simult Tx	Configuration	GPRS 1900 SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 26 (Cell) SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3			1	2	3	1+2+3
Hotspot SAR	Back	0.721	0.068	0.035	0.824	Hotspot SAR	Back	0.739	0.068	0.035	0.842
	Front	0.141	0.288	0.573	1.002		Front	0.135	0.288	0.573	0.996
	Bottom	1.132	0.123	0.193	1.448		Bottom	0.176	0.123	0.193	0.492
	Right	0.037	0.077	0.048	0.162		Right	0.107	0.077	0.048	0.232
	Left	0.084	-	0.506	0.590		Left	0.196	-	0.506	0.702
Simult Tx	Configuration	UMTS 850 SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 5 (Cell) SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3			1	2	3	1+2+3
Hotspot SAR	Back	1.025	0.068	0.035	1.128	Hotspot SAR	Back	0.888	0.068	0.035	0.991
	Front	0.251	0.288	0.573	1.112		Front	0.150	0.288	0.573	1.011
	Bottom	0.208	0.123	0.193	0.524		Bottom	0.227	0.123	0.193	0.543
	Right	0.128	0.077	0.048	0.253		Right	0.117	0.077	0.048	0.242
	Left	0.170	-	0.506	0.676		Left	0.119	-	0.506	0.625
Simult Tx	Configuration	UMTS 1750 SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 66 (AWS) SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3			1	2	3	1+2+3
Hotspot SAR	Back	0.716	0.068	0.035	0.819	Hotspot SAR	Back	0.728	0.068	0.035	0.831
	Front	0.217	0.288	0.573	1.078		Front	0.227	0.288	0.573	1.088
	Bottom	1.159	0.123	0.193	1.475		Bottom	1.161	0.123	0.193	1.477
	Right	0.047	0.077	0.048	0.172		Right	0.033	0.077	0.048	0.158
	Left	0.146	-	0.506	0.652		Left	0.193	-	0.506	0.699
Simult Tx	Configuration	UMTS 1900 SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 25 (PCS) SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3			1	2	3	1+2+3
Hotspot SAR	Back	0.654	0.068	0.035	0.757	Hotspot SAR	Back	0.664	0.068	0.035	0.767
	Front	0.126	0.288	0.573	0.987		Front	0.218	0.288	0.573	1.079
	Bottom	1.005	0.123	0.193	1.321		Bottom	1.161	0.123	0.193	1.477
	Right	0.049	0.077	0.048	0.174		Right	0.041	0.077	0.048	0.166
	Left	0.097	-	0.506	0.603		Left	0.106	-	0.506	0.612

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Simult Tx	Configuration	LTE Band 30 SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 7 SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3			1	2	3	1+2+3
Hotspot SAR	Back	0.640	0.068	0.035	0.743	Hotspot SAR	Back	0.304	0.068	0.035	0.407
	Front	0.043	0.288	0.573	0.904		Front	0.081	0.288	0.573	0.942
	Bottom	0.964	0.123	0.193	1.280		Bottom	1.111	0.123	0.193	1.427
	Right	0.030	0.077	0.048	0.155		Right	-	0.077	0.048	0.125
	Left	0.054	-	0.506	0.560		Left	0.162	-	0.506	0.668

Simult Tx	Configuration	LTE Band 41 SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Hotspot SAR	Back	0.488	0.068	0.035	0.591
	Front	0.042	0.288	0.573	0.903
	Bottom	1.106	0.123	0.193	1.422
	Right	-	0.077	0.048	0.125
	Left	0.089	-	0.506	0.595

Configuration	Mode	5G SAR (W/kg)	2.4 GHz Bluetooth Ant 1 at 13 dBm SAR (W/kg)	5 GHz WLAN MIMO at 17 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Hotspot SAR	NR Band n71	0.679	0.112	0.273	1.064
	NR Band n12	0.752	0.112	0.273	1.137
	NR Band n5 (Cell)	0.994	0.112	0.273	1.379
	NR Band n25 (PCS)	0.840	0.112	0.273	1.225
	NR Band n66 (AWS)	1.211	0.112	0.273	See Table Below
	NR Band n30	1.201	0.112	0.273	1.586
	NR Band n41	1.192	0.112	0.273	1.577
	NR Band n77 DoD	0.600	0.112	0.273	0.985
	NR Band n77	0.885	0.112	0.273	1.270

Simult Tx	Configuration	NR Band n66 (AWS) Ant A SAR (W/kg)	2.4 GHz Bluetooth Ant 1 at 13 dBm SAR (W/kg)	5 GHz WLAN MIMO at 17 dBm SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	NR Band n66 (AWS) Ant I SAR (W/kg)	2.4 GHz Bluetooth Ant 1 at 13 dBm SAR (W/kg)	5 GHz WLAN MIMO at 17 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	2	1+2+3			1	2	2	1+2+3
Hotspot SAR	Back	0.733	0.029	0.273*	1.035	Hotspot SAR	Back	0.049	0.029	0.273*	0.351
	Front	0.234	0.112	0.263	0.609		Front	0.624	0.112	0.263	0.999
	Bottom	1.198	0.056	0.140	1.394		Top	0.022	-	-	0.022
	Right	0.062	0.032	0.019	0.113		Bottom	0.034	0.056	0.140	0.230
	Left	0.119	-	0.273	0.392		Right	1.211	0.032	0.019	1.262
							Left	-	-	0.273	0.273

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Table 12-63
Simultaneous Transmission Scenario with Bluetooth Antenna 2 and 5GHz MIMO WLAN (Hotspot at 1.0 cm)

Configuration	Mode	2G/3G/4G SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Hotspot SAR	Cell. EVDO	1.077	0.281	0.573	See Table Below
	PCS EVDO	1.037	0.281	0.573	See Table Below
	GPRS 850	0.548	0.281	0.573	1.402
	GPRS 1900	1.132	0.281	0.573	See Table Below
	UMTS 850	1.025	0.281	0.573	See Table Below
	UMTS 1750	1.159	0.281	0.573	See Table Below
	UMTS 1900	1.005	0.281	0.573	See Table Below
	LTE Band 71	0.654	0.281	0.573	1.508
	LTE Band 12	0.740	0.281	0.573	1.594
	LTE Band 13	0.733	0.281	0.573	1.587
	LTE Band 14	0.856	0.281	0.573	See Table Below
	LTE Band 26 (Cell)	0.739	0.281	0.573	1.593
	LTE Band 5 (Cell)	0.888	0.281	0.573	See Table Below
	LTE Band 66 (AWS)	1.161	0.281	0.573	See Table Below
	LTE Band 25 (PCS)	1.161	0.281	0.573	See Table Below
	LTE Band 30	0.964	0.281	0.573	See Table Below
	LTE Band 7	1.111	0.281	0.573	See Table Below
	LTE Band 48	0.496	0.281	0.573	1.350
	LTE Band 41	1.106	0.281	0.573	See Table Below

Simult Tx	Configuration	Cell. EVDO SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	GPRS 1900 SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3			1	2	3	1+2+3
Hotspot SAR	Back	1.077	0.084	0.035	1.196	Hotspot SAR	Back	0.721	0.084	0.035	0.840
	Front	0.177	0.277	0.573	1.027		Front	0.141	0.277	0.573	0.991
	Bottom	0.254	0.203	0.193	0.650		Bottom	1.132	0.203	0.193	1.528
	Right	0.106	-	0.048	0.154		Right	0.037	-	0.048	0.085
	Left	0.152	0.281	0.506	0.939		Left	0.084	0.281	0.506	0.871
Simult Tx	Configuration	PCS EVDO SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	UMTS 850 SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3			1	2	3	1+2+3
Hotspot SAR	Back	0.554	0.084	0.035	0.673	Hotspot SAR	Back	1.025	0.084	0.035	1.144
	Front	0.158	0.277	0.573	1.008		Front	0.251	0.277	0.573	1.101
	Bottom	1.037	0.203	0.193	1.433		Bottom	0.208	0.203	0.193	0.604
	Right	0.034	-	0.048	0.082		Right	0.128	-	0.048	0.176
	Left	0.094	0.281	0.506	0.881		Left	0.170	0.281	0.506	0.957

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Simult Tx	Configuration	UMTS 1750 SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 66 (AWS) SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3			1	2	3	1+2+3
Hotspot SAR	Back	0.716	0.084	0.035	0.835	Hotspot SAR	Back	0.728	0.084	0.035	0.847
	Front	0.217	0.277	0.573	1.067		Front	0.227	0.277	0.573	1.077
	Bottom	1.159	0.203	0.193	1.557		Bottom	1.161	0.203	0.193	1.557
	Right	0.047	-	0.048	0.095		Right	0.033	-	0.048	0.081
	Left	0.146	0.281	0.506	0.933		Left	0.193	0.281	0.506	0.980
Simult Tx	Configuration	UMTS 1900 SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 25 (PCS) SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3			1	2	3	1+2+3
Hotspot SAR	Back	0.654	0.084	0.035	0.773	Hotspot SAR	Back	0.664	0.084	0.035	0.783
	Front	0.126	0.277	0.573	0.976		Front	0.218	0.277	0.573	1.068
	Bottom	1.005	0.203	0.193	1.401		Bottom	1.161	0.203	0.193	1.557
	Right	0.049	-	0.048	0.097		Right	0.041	-	0.048	0.089
	Left	0.097	0.281	0.506	0.884		Left	0.106	0.281	0.506	0.893
Simult Tx	Configuration	LTE Band 14 SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 30 SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3			1	2	3	1+2+3
Hotspot SAR	Back	0.856	0.084	0.035	0.975	Hotspot SAR	Back	0.640	0.084	0.035	0.759
	Front	0.106	0.277	0.573	0.956		Front	0.043	0.277	0.573	0.893
	Bottom	0.283	0.203	0.193	0.679		Bottom	0.964	0.203	0.193	1.360
	Right	0.123	-	0.048	0.171		Right	0.030	-	0.048	0.078
	Left	0.174	0.281	0.506	0.961		Left	0.054	0.281	0.506	0.841
Simult Tx	Configuration	LTE Band 5 (Cell) SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 7 SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3			1	2	3	1+2+3
Hotspot SAR	Back	0.888	0.084	0.035	1.007	Hotspot SAR	Back	0.304	0.084	0.035	0.423
	Front	0.150	0.277	0.573	1.000		Front	0.081	0.277	0.573	0.931
	Bottom	0.227	0.203	0.193	0.623		Bottom	1.111	0.203	0.193	1.507
	Right	0.117	-	0.048	0.165		Right	-	-	0.048	0.048
	Left	0.119	0.281	0.506	0.906		Left	0.162	0.281	0.506	0.949

Simult Tx	Configuration	LTE Band 41 SAR (W/kg)	2.4 GHz Bluetooth Ant 2 SAR (W/kg)	5 GHz WLAN MIMO SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Hotspot SAR	Back	0.488	0.084	0.035	0.607
	Front	0.042	0.277	0.573	0.892
	Bottom	1.106	0.203	0.193	1.502
	Right	-	-	0.048	0.048
	Left	0.089	0.281	0.506	0.876

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Configuration	Mode	5G SAR (W/kg)	2.4 GHz Bluetooth Ant 2 at 13 dBm SAR (W/kg)	5 GHz WLAN MIMO at 17 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Hotspot SAR	NR Band n71	0.679	0.112	0.273	1.064
	NR Band n12	0.752	0.112	0.273	1.137
	NR Band n5 (Cell)	0.994	0.112	0.273	1.379
	NR Band n66 (AWS)	1.211	0.112	0.273	See Table Below
	NR Band n25 (PCS)	0.840	0.112	0.273	1.225
	NR Band n30	1.201	0.112	0.273	1.586
	NR Band n41	1.192	0.112	0.273	1.577
	NR Band n77 DoD	0.600	0.112	0.273	0.985
	NR Band n77	0.885	0.112	0.273	1.270

Simult Tx	Configuration	NR Band n66 (AWS) Ant A SAR (W/kg)	2.4 GHz Bluetooth Ant 2 at 13 dBm SAR (W/kg)	5 GHz WLAN MIMO at 17 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Hotspot SAR	Back	0.733	0.035	0.273*	1.041
	Front	0.234	0.112	0.263	0.609
	Bottom	1.198	0.089	0.140	1.427
	Right	0.062	-	0.019	0.081
	Left	0.119	0.110	0.273	0.502
Simult Tx	Configuration	NR Band n66 (AWS) Ant I SAR (W/kg)	2.4 GHz Bluetooth Ant 2 at 13 dBm SAR (W/kg)	5 GHz WLAN MIMO at 17 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Hotspot SAR	Back	0.049	0.035	0.273*	0.357
	Front	0.624	0.112	0.263	0.999
	Top	0.022	-	-	0.022
	Bottom	0.034	0.089	0.140	0.263
	Right	1.211	-	0.019	1.230
	Left	-	0.110	0.273	0.383

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Table 12-64
Simultaneous Transmission Scenario with Bluetooth Antenna 1 and 2.4 GHz WLAN Antenna 2
(Hotspot at 1.0 cm)

Configuration	Mode	2G/3G/4G SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	2	1+2+3
Hotspot SAR	Cell. EVDO	1.077	0.288	0.311	See Table Below
	PCS EVDO	1.037	0.288	0.311	See Table Below
	GPRS 850	0.548	0.288	0.311	1.147
	GPRS 1900	1.132	0.288	0.311	See Table Below
	UMTS 850	1.025	0.288	0.311	See Table Below
	UMTS 1750	1.159	0.288	0.311	See Table Below
	UMTS 1900	1.005	0.288	0.311	See Table Below
	LTE Band 71	0.654	0.288	0.311	1.253
	LTE Band 12	0.740	0.288	0.311	1.339
	LTE Band 13	0.733	0.288	0.311	1.332
	LTE Band 14	0.856	0.288	0.311	1.455
	LTE Band 26 (Cell)	0.739	0.288	0.311	1.338
	LTE Band 5 (Cell)	0.888	0.288	0.311	1.487
	LTE Band 66 (AWS)	1.161	0.288	0.311	See Table Below
	LTE Band 25 (PCS)	1.161	0.288	0.311	See Table Below
	LTE Band 30	0.964	0.288	0.311	1.563
	LTE Band 7	1.111	0.288	0.311	See Table Below
	LTE Band 48	0.496	0.288	0.311	1.095
	LTE Band 41	1.106	0.288	0.311	See Table Below

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Simult Tx	Configuration	Cell. EVDO SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	UMTS 1900 SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3			1	2	3	1+2+3
Hotspot SAR	Back	1.077	0.068	0.311*	1.456	Hotspot SAR	Back	0.654	0.068	0.311*	1.033
	Front	0.177	0.288	0.200	0.665		Front	0.126	0.288	0.200	0.614
	Bottom	0.254	0.123	0.157	0.534		Bottom	1.005	0.123	0.157	1.285
	Right	0.106	0.077	-	0.183		Right	0.049	0.077	-	0.126
	Left	0.152	-	0.311	0.463		Left	0.097	-	0.311	0.408
Simult Tx	Configuration	PCS EVDO SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 66 (AWS) SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3			1	2	3	1+2+3
Hotspot SAR	Back	0.554	0.068	0.311*	0.933	Hotspot SAR	Back	0.728	0.068	0.311*	1.107
	Front	0.158	0.288	0.200	0.646		Front	0.227	0.288	0.200	0.715
	Bottom	1.037	0.123	0.157	1.317		Bottom	1.161	0.123	0.157	1.441
	Right	0.034	0.077	-	0.111		Right	0.033	0.077	-	0.110
	Left	0.094	-	0.311	0.405		Left	0.193	-	0.311	0.504
Simult Tx	Configuration	GPRS 1900 SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 25 (PCS) SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3			1	2	3	1+2+3
Hotspot SAR	Back	0.721	0.068	0.311*	1.100	Hotspot SAR	Back	0.664	0.068	0.311*	1.043
	Front	0.141	0.288	0.200	0.629		Front	0.218	0.288	0.200	0.706
	Bottom	1.132	0.123	0.157	1.412		Bottom	1.161	0.123	0.157	1.441
	Right	0.037	0.077	-	0.114		Right	0.041	0.077	-	0.118
	Left	0.084	-	0.311	0.395		Left	0.106	-	0.311	0.417
Simult Tx	Configuration	UMTS 850 SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 7 SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3			1	2	3	1+2+3
Hotspot SAR	Back	1.025	0.068	0.311*	1.404	Hotspot SAR	Back	0.304	0.068	0.311*	0.683
	Front	0.251	0.288	0.200	0.739		Front	0.081	0.288	0.200	0.569
	Bottom	0.208	0.123	0.157	0.488		Bottom	1.111	0.123	0.157	1.391
	Right	0.128	0.077	-	0.205		Right	-	0.077	-	0.077
	Left	0.170	-	0.311	0.481		Left	0.162	-	0.311	0.473
Simult Tx	Configuration	UMTS 1750 SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 41 SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3			1	2	3	1+2+3
Hotspot SAR	Back	0.716	0.068	0.311*	1.095	Hotspot SAR	Back	0.488	0.068	0.311*	0.867
	Front	0.217	0.288	0.200	0.705		Front	0.042	0.288	0.200	0.530
	Bottom	1.159	0.123	0.157	1.439		Bottom	1.106	0.123	0.157	1.386
	Right	0.047	0.077	-	0.124		Right	-	0.077	-	0.077
	Left	0.146	-	0.311	0.457		Left	0.089	-	0.311	0.400

Configuration	Mode	5G SAR (W/kg)	2.4 GHz Bluetooth Ant 1 at 13 dBm SAR (W/kg)	2.4 GHz WLAN Ant 2 at 14 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Hotspot SAR	NR Band n71	0.679	0.112	0.149	0.940
	NR Band n12	0.752	0.112	0.149	1.013
	NR Band n5 (Cell)	0.994	0.112	0.149	1.255
	NR Band n66 (AWS)	1.211	0.112	0.149	1.472
	NR Band n25 (PCS)	0.840	0.112	0.149	1.101
	NR Band n30	1.201	0.112	0.149	1.462
	NR Band n41	1.192	0.112	0.149	1.453
	NR Band n77 DoD	0.600	0.112	0.149	0.861
	NR Band n77	0.885	0.112	0.149	1.146

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Table 12-65
Simultaneous Transmission Scenario with Bluetooth Antenna 1, 2.4 GHz Antenna 2 WLAN,
and 5 GHz Antenna 1 WLAN (Hotspot at 1.0 cm)

Configuration	Mode	2G/3G/4G SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 at 14 dBm SAR (W/kg)	5 GHz WLAN Ant 1 at 14 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Hotspot SAR	Cell. EVDO	1.077	0.288	0.149	0.062	1.576
	PCS EVDO	1.037	0.288	0.149	0.062	1.536
	GPRS 850	0.548	0.288	0.149	0.062	1.047
	GPRS 1900	1.132	0.288	0.149	0.062	See Table Below
	UMTS 850	1.025	0.288	0.149	0.062	1.524
	UMTS 1750	1.159	0.288	0.149	0.062	See Table Below
	UMTS 1900	1.005	0.288	0.149	0.062	1.504
	LTE Band 71	0.654	0.288	0.149	0.062	1.153
	LTE Band 12	0.740	0.288	0.149	0.062	1.239
	LTE Band 13	0.733	0.288	0.149	0.062	1.232
	LTE Band 14	0.856	0.288	0.149	0.062	1.355
	LTE Band 26 (Cell)	0.739	0.288	0.149	0.062	1.238
	LTE Band 5 (Cell)	0.888	0.288	0.149	0.062	1.387
	LTE Band 66 (AWS)	1.161	0.288	0.149	0.062	See Table Below
	LTE Band 25 (PCS)	1.161	0.288	0.149	0.062	See Table Below
	LTE Band 30	0.964	0.288	0.149	0.062	1.463
	LTE Band 7	1.111	0.288	0.149	0.062	See Table Below
	LTE Band 48	0.496	0.288	0.149	0.062	0.995
	LTE Band 41	1.106	0.288	0.149	0.062	See Table Below

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Simult Tx	Configuration	GPRS 1900 SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 at 14 dBm SAR (W/kg)	5 GHz WLAN Ant 1 at 14 dBm SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 25 (PCS) SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 at 14 dBm SAR (W/kg)	5 GHz WLAN Ant 1 at 14 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4			1	2	3	4	1+2+3+4
Hotspot SAR	Back	0.721	0.068	0.149*	0.062*	1.000	Hotspot SAR	Back	0.664	0.068	0.149*	0.062*	0.943
	Front	0.141	0.288	0.087	0.054	0.570		Front	0.218	0.288	0.087	0.054	0.647
	Bottom	1.132	0.123	0.149*	0.062	1.466		Bottom	1.161	0.123	0.149*	0.062	1.495
	Right	0.037	0.077	-	0.062*	0.176		Right	0.041	0.077	-	0.062*	0.180
	Left	0.084	-	0.149	-	0.233		Left	0.106	-	0.149	-	0.255
Simult Tx	Configuration	UMTS 1750 SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 at 14 dBm SAR (W/kg)	5 GHz WLAN Ant 1 at 14 dBm SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 7 SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 at 14 dBm SAR (W/kg)	5 GHz WLAN Ant 1 at 14 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4			1	2	3	4	1+2+3+4
Hotspot SAR	Back	0.716	0.068	0.149*	0.062*	0.995	Hotspot SAR	Back	0.304	0.068	0.149*	0.062*	0.583
	Front	0.217	0.288	0.087	0.054	0.646		Front	0.081	0.288	0.087	0.054	0.510
	Bottom	1.159	0.123	0.149*	0.062	1.493		Bottom	1.111	0.123	0.149*	0.062	1.445
	Right	0.047	0.077	-	0.062*	0.186		Right	-	0.077	-	0.062*	0.139
	Left	0.146	-	0.149	-	0.295		Left	0.162	-	0.149	-	0.311
Simult Tx	Configuration	LTE Band 66 (AWS) SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 at 14 dBm SAR (W/kg)	5 GHz WLAN Ant 1 at 14 dBm SAR (W/kg)	Σ SAR (W/kg)	Simult Tx	Configuration	LTE Band 41 SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 at 14 dBm SAR (W/kg)	5 GHz WLAN Ant 1 at 14 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4			1	2	3	4	1+2+3+4
Hotspot SAR	Back	0.728	0.068	0.149*	0.062*	1.007	Hotspot SAR	Back	0.488	0.068	0.149*	0.062*	0.767
	Front	0.227	0.288	0.087	0.054	0.656		Front	0.042	0.288	0.087	0.054	0.471
	Bottom	1.161	0.123	0.149*	0.062	1.495		Bottom	1.106	0.123	0.149*	0.062	1.440
	Right	0.033	0.077	-	0.062*	0.172		Right	-	0.077	-	0.062*	0.139
	Left	0.193	-	0.149	-	0.342		Left	0.089	-	0.149	-	0.238

Configuration	Mode	5G SAR (W/kg)	2.4 GHz Bluetooth Ant 1 at 13 dBm SAR (W/kg)	2.4 GHz WLAN Ant 2 at 14 dBm SAR (W/kg)	5 GHz WLAN Ant 1 at 14 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Hotspot SAR	NR Band n71	0.679	0.112	0.149	0.062	1.002
	NR Band n12	0.752	0.112	0.149	0.062	1.075
	NR Band n5 (Cell)	0.994	0.112	0.149	0.062	1.317
	NR Band n66 (AWS)	1.211	0.112	0.149	0.062	1.534
	NR Band n25 (PCS)	0.840	0.112	0.149	0.062	1.163
	NR Band n30	1.201	0.112	0.149	0.062	1.524
	NR Band n41	1.192	0.112	0.149	0.062	1.515
	NR Band n77 DoD	0.600	0.112	0.149	0.062	0.923
	NR Band n77	0.885	0.112	0.149	0.062	1.208

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Table 12-66
Simultaneous Transmission Scenario with Bluetooth Antenna 1, 2.4 GHz Antenna 2 WLAN, and 5 GHz
MIMO WLAN (Hotspot at 1.0 cm)

Configuration	Mode	2G/3G/4G SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 at 14 dBm SAR (W/kg)	5 GHz WLAN MIMO at 17 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Hotspot SAR	Cell. EVDO	1.077	0.288	0.149	0.273	See Table Below
	PCS EVDO	1.037	0.288	0.149	0.273	See Table Below
	GPRS 850	0.548	0.288	0.149	0.273	1.258
	GPRS 1900	1.132	0.288	0.149	0.273	See Table Below
	UMTS 850	1.025	0.288	0.149	0.273	See Table Below
	UMTS 1750	1.159	0.288	0.149	0.273	See Table Below
	UMTS 1900	1.005	0.288	0.149	0.273	See Table Below
	LTE Band 71	0.654	0.288	0.149	0.273	1.364
	LTE Band 12	0.740	0.288	0.149	0.273	1.450
	LTE Band 13	0.733	0.288	0.149	0.273	1.443
	LTE Band 14	0.856	0.288	0.149	0.273	1.566
	LTE Band 26 (Cell)	0.739	0.288	0.149	0.273	1.449
	LTE Band 5 (Cell)	0.888	0.288	0.149	0.273	See Table Below
	LTE Band 66 (AWS)	1.161	0.288	0.149	0.273	See Table Below
	LTE Band 25 (PCS)	1.161	0.288	0.149	0.273	See Table Below
	LTE Band 30	0.964	0.288	0.149	0.273	See Table Below
	LTE Band 7	1.111	0.288	0.149	0.273	See Table Below
	LTE Band 48	0.496	0.288	0.149	0.273	1.206
	LTE Band 41	1.106	0.288	0.149	0.273	See Table Below

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Simult Tx	Configuration	Cell. EVDO SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 at 14 dBm SAR (W/kg)	5 GHz WLAN MIMO at 17 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Hotspot SAR	Back	1.077	0.068	0.149*	0.273*	1.567
	Front	0.177	0.288	0.087	0.263	0.815
	Bottom	0.254	0.123	0.149*	0.140	0.666
	Right	0.106	0.077	-	0.019	0.202
	Left	0.152	-	0.149	0.273	0.574
Simult Tx	Configuration	PCS EVDO SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 at 14 dBm SAR (W/kg)	5 GHz WLAN MIMO at 17 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Hotspot SAR	Back	0.554	0.068	0.149*	0.273*	1.044
	Front	0.158	0.288	0.087	0.263	0.796
	Bottom	1.037	0.123	0.149*	0.140	1.449
	Right	0.034	0.077	-	0.019	0.130
	Left	0.094	-	0.149	0.273	0.516
Simult Tx	Configuration	GPRS 1900 SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 at 14 dBm SAR (W/kg)	5 GHz WLAN MIMO at 17 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Hotspot SAR	Back	0.721	0.068	0.149*	0.273*	1.211
	Front	0.141	0.288	0.087	0.263	0.779
	Bottom	1.132	0.123	0.149*	0.140	1.544
	Right	0.037	0.077	-	0.019	0.133
	Left	0.084	-	0.149	0.273	0.506
Simult Tx	Configuration	UMTS 850 SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 at 14 dBm SAR (W/kg)	5 GHz WLAN MIMO at 17 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Hotspot SAR	Back	1.025	0.068	0.149*	0.273*	1.515
	Front	0.251	0.288	0.087	0.263	0.889
	Bottom	0.208	0.123	0.149*	0.140	0.620
	Right	0.128	0.077	-	0.019	0.224
	Left	0.170	-	0.149	0.273	0.592
Simult Tx	Configuration	UMTS 1750 SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 at 14 dBm SAR (W/kg)	5 GHz WLAN MIMO at 17 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Hotspot SAR	Back	0.716	0.068	0.149*	0.273*	1.206
	Front	0.217	0.288	0.087	0.263	0.855
	Bottom	1.159	0.123	0.149*	0.140	1.571
	Right	0.047	0.077	-	0.019	0.143
	Left	0.146	-	0.149	0.273	0.568
Simult Tx	Configuration	UMTS 1900 SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 at 14 dBm SAR (W/kg)	5 GHz WLAN MIMO at 17 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Hotspot SAR	Back	0.654	0.068	0.149*	0.273*	1.144
	Front	0.126	0.288	0.087	0.263	0.764
	Bottom	1.005	0.123	0.149*	0.140	1.417
	Right	0.049	0.077	-	0.019	0.145
	Left	0.097	-	0.149	0.273	0.519

Simult Tx	Configuration	LTE Band 5 (Cell) SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 at 14 dBm SAR (W/kg)	5 GHz WLAN MIMO at 17 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Hotspot SAR	Back	0.888	0.068	0.149*	0.273*	1.378
	Front	0.150	0.288	0.087	0.263	0.788
	Bottom	0.227	0.123	0.149*	0.140	0.639
	Right	0.117	0.077	-	0.019	0.213
	Left	0.119	-	0.149	0.273	0.541
Simult Tx	Configuration	LTE Band 66 (AWS) SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 at 14 dBm SAR (W/kg)	5 GHz WLAN MIMO at 17 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Hotspot SAR	Back	0.728	0.068	0.149*	0.273*	1.218
	Front	0.227	0.288	0.087	0.263	0.865
	Bottom	1.161	0.123	0.149*	0.140	1.573
	Right	0.033	0.077	-	0.019	0.129
	Left	0.193	-	0.149	0.273	0.615
Simult Tx	Configuration	LTE Band 25 (PCS) SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 at 14 dBm SAR (W/kg)	5 GHz WLAN MIMO at 17 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Hotspot SAR	Back	0.664	0.068	0.149*	0.273*	1.154
	Front	0.218	0.288	0.087	0.263	0.856
	Bottom	1.161	0.123	0.149*	0.140	1.573
	Right	0.041	0.077	-	0.019	0.137
	Left	0.106	-	0.149	0.273	0.528
Simult Tx	Configuration	LTE Band 30 SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 at 14 dBm SAR (W/kg)	5 GHz WLAN MIMO at 17 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Hotspot SAR	Back	0.640	0.068	0.149*	0.273*	1.130
	Front	0.043	0.288	0.087	0.263	0.681
	Bottom	0.964	0.123	0.149*	0.140	1.376
	Right	0.030	0.077	-	0.019	0.126
	Left	0.054	-	0.149	0.273	0.476
Simult Tx	Configuration	LTE Band 7 SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 at 14 dBm SAR (W/kg)	5 GHz WLAN MIMO at 17 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Hotspot SAR	Back	0.304	0.068	0.149*	0.273*	0.794
	Front	0.081	0.288	0.087	0.263	0.719
	Bottom	1.111	0.123	0.149*	0.140	1.523
	Right	-	0.077	-	0.019	0.096
	Left	0.162	-	0.149	0.273	0.584
Simult Tx	Configuration	LTE Band 41 SAR (W/kg)	2.4 GHz Bluetooth Ant 1 SAR (W/kg)	2.4 GHz WLAN Ant 2 at 14 dBm SAR (W/kg)	5 GHz WLAN MIMO at 17 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Hotspot SAR	Back	0.488	0.068	0.149*	0.273*	0.978
	Front	0.042	0.288	0.087	0.263	0.680
	Bottom	1.106	0.123	0.149*	0.140	1.518
	Right	-	0.077	-	0.019	0.096
	Left	0.089	-	0.149	0.273	0.511

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Configuration	Mode	5G SAR (W/kg)	2.4 GHz Bluetooth Ant 1 at 13 dBm SAR (W/kg)	2.4 GHz WLAN Ant 2 at 14 dBm SAR (W/kg)	5 GHz WLAN MIMO at 17 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	4	1+2+3+4
Hotspot SAR	NR Band n71	0.679	0.112	0.149	0.273	1.213
	NR Band n12	0.752	0.112	0.149	0.273	1.286
	NR Band n5 (Cell)	0.994	0.112	0.149	0.273	1.528
	NR Band n66 (AWS)	1.211	0.112	0.149	0.273	See Table Below
	NR Band n25 (PCS)	0.840	0.112	0.149	0.273	1.374
	NR Band n30	1.201	0.112	0.149	0.273	See Table Below
	NR Band n41	1.192	0.112	0.149	0.273	See Table Below
	NR Band n77 DoD	0.600	0.112	0.149	0.273	1.134
	NR Band n77	0.885	0.112	0.149	0.273	1.419

Simult Tx	Configuration	NR Band n66 (AWS) Ant A SAR (W/kg)	2.4 GHz Bluetooth Ant 1 at 13 dBm SAR (W/kg)	2.4 GHz WLAN Ant 2 at 14 dBm SAR (W/kg)	5 GHz WLAN MIMO at 17 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	2	4	1+2+3+4
Hotspot SAR	Back	0.733	0.029	0.149*	0.273*	1.184
	Front	0.234	0.112	0.087	0.263	0.696
	Bottom	1.198	0.056	0.149*	0.140	1.543
	Right	0.062	0.032	-	0.019	0.113
	Left	0.119	-	0.149	0.273	0.541
Simult Tx	Configuration	NR Band n66 (AWS) Ant I SAR (W/kg)	2.4 GHz Bluetooth Ant 1 at 13 dBm SAR (W/kg)	2.4 GHz WLAN Ant 2 at 14 dBm SAR (W/kg)	5 GHz WLAN MIMO at 17 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	2	4	1+2+3+4
Hotspot SAR	Back	0.049	0.029	0.149*	0.273*	0.500
	Front	0.624	0.112	0.087	0.263	1.086
	Top	0.022	-	-	-	0.022
	Bottom	0.034	0.056	0.149*	0.140	0.379
	Right	1.211	0.032	-	0.019	1.262
	Left	-	-	0.149	0.273	0.422

Simult Tx	Configuration	NR Band n30 SAR (W/kg)	2.4 GHz Bluetooth Ant 1 at 13 dBm SAR (W/kg)	2.4 GHz WLAN Ant 2 at 14 dBm SAR (W/kg)	5 GHz WLAN MIMO at 17 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	2	4	1+2+3+4
Hotspot SAR	Back	0.633	0.029	0.149*	0.273*	1.084
	Front	0.085	0.112	0.087	0.263	0.547
	Bottom	1.201	0.056	0.149*	0.140	1.546
	Right	0.037	0.032	-	0.019	0.088
	Left	0.068	-	0.149	0.273	0.490
Simult Tx	Configuration	NR Band n41 SAR (W/kg)	2.4 GHz Bluetooth Ant 1 at 13 dBm SAR (W/kg)	2.4 GHz WLAN Ant 2 at 14 dBm SAR (W/kg)	5 GHz WLAN MIMO at 17 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	2	4	1+2+3+4
Hotspot SAR	Back	0.272	0.029	0.149*	0.273*	0.723
	Front	0.733	0.112	0.087	0.263	1.195
	Top	0.059	-	-	-	0.059
	Bottom	0.195	0.056	0.149*	0.140	0.540
	Right	1.192	0.032	-	0.019	1.243
	Left	-	-	0.149	0.273	0.422

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Table 12-67
Simultaneous Transmission Scenario with 2.4 GHz MIMO WLAN and 5 GHz MIMO WLAN (Hotspot at 1.0cm)

Configuration	Mode	2G/3G/4G/5 G SAR (W/kg)	2.4 GHz WLAN MIMO at 17 dBm SAR (W/kg)	5 GHz WLAN MIMO at 17 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Hotspot SAR	Cell. EVDO	1.077	0.182	0.273	1.532
	PCS EVDO	1.037	0.182	0.273	1.492
	GPRS 850	0.548	0.182	0.273	1.003
	GPRS 1900	1.132	0.182	0.273	1.587
	UMTS 850	1.025	0.182	0.273	1.480
	UMTS 1750	1.159	0.182	0.273	See Table Below
	UMTS 1900	1.005	0.182	0.273	1.460
	LTE Band 71	0.654	0.182	0.273	1.109
	LTE Band 12	0.740	0.182	0.273	1.195
	LTE Band 13	0.733	0.182	0.273	1.188
	LTE Band 14	0.856	0.182	0.273	1.311
	LTE Band 26 (Cell)	0.739	0.182	0.273	1.194
	LTE Band 5 (Cell)	0.888	0.182	0.273	1.343
	LTE Band 66 (AWS)	1.161	0.182	0.273	See Table Below
	LTE Band 25 (PCS)	1.161	0.182	0.273	See Table Below
	LTE Band 30	0.964	0.182	0.273	1.419
	LTE Band 7	1.111	0.182	0.273	1.566
	LTE Band 48	0.496	0.182	0.273	0.951
	LTE Band 41	1.106	0.182	0.273	1.561
	NR Band n71	0.679	0.182	0.273	1.134
	NR Band n12	0.752	0.182	0.273	1.207
	NR Band n5 (Cell)	0.994	0.182	0.273	1.449
	NR Band n66 (AWS)	1.211	0.182	0.273	See Table Below
	NR Band n25 (PCS)	0.840	0.182	0.273	1.295
	NR Band n30	1.201	0.182	0.273	See Table Below
	NR Band n41	1.192	0.182	0.273	See Table Below
	NR Band n77 DoD	0.600	0.182	0.273	1.055
	NR Band n77	0.885	0.182	0.273	1.340

Simult Tx	Configuration	UMTS 1750 SAR (W/kg)	2.4 GHz WLAN MIMO at 17 dBm SAR (W/kg)	5 GHz WLAN MIMO at 17 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Hotspot SAR	Back	0.716	0.182*	0.273*	1.171
	Front	0.217	0.132	0.263	0.612
	Bottom	1.159	0.182*	0.140	1.481
	Right	0.047	0.182*	0.019	0.248
	Left	0.146	0.182	0.273	0.601

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Simult Tx	Configuration	LTE Band 66 (AWS) SAR (W/kg)	2.4 GHz WLAN MIMO at 17 dBm SAR (W/kg)	5 GHz WLAN MIMO at 17 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Hotspot SAR	Back	0.728	0.182*	0.273*	1.183
	Front	0.227	0.132	0.263	0.622
	Bottom	1.161	0.182*	0.140	1.483
	Right	0.033	0.182*	0.019	0.234
	Left	0.193	0.182	0.273	0.648
Simult Tx	Configuration	LTE Band 25 (PCS) SAR (W/kg)	2.4 GHz WLAN MIMO at 17 dBm SAR (W/kg)	5 GHz WLAN MIMO at 17 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Hotspot SAR	Back	0.664	0.182*	0.273*	1.119
	Front	0.218	0.132	0.263	0.613
	Bottom	1.161	0.182*	0.140	1.483
	Right	0.041	0.182*	0.019	0.242
	Left	0.106	0.182	0.273	0.561
Simult Tx	Configuration	NR Band n66 (AWS) A SAR (W/kg)	2.4 GHz WLAN MIMO at 17 dBm SAR (W/kg)	5 GHz WLAN MIMO at 17 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Hotspot SAR	Back	0.733	0.182*	0.273*	1.188
	Front	0.234	0.132	0.263	0.629
	Bottom	1.198	0.182*	0.140	1.520
	Right	0.062	0.182*	0.019	0.263
	Left	0.119	0.182	0.273	0.574

Simult Tx	Configuration	NR Band n66 (AWS) I SAR (W/kg)	2.4 GHz WLAN MIMO at 17 dBm SAR (W/kg)	5 GHz WLAN MIMO at 17 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	2	1+2+3
Hotspot SAR	Back	0.049	0.182*	0.273*	0.504
	Front	0.624	0.132	0.263	1.019
	Bottom	0.034	0.182*	0.140	0.356
	Right	1.211	0.182*	0.019	1.412
	Left	-	0.182	0.273	0.455
Simult Tx	Configuration	NR Band n30 SAR (W/kg)	2.4 GHz WLAN MIMO at 17 dBm SAR (W/kg)	5 GHz WLAN MIMO at 17 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	2	1+2+3
Hotspot SAR	Back	0.633	0.182*	0.273*	1.088
	Front	0.085	0.132	0.263	0.480
	Bottom	1.201	0.182*	0.140	1.523
	Right	0.037	0.182*	0.019	0.238
	Left	0.068	0.182	0.273	0.523
Simult Tx	Configuration	NR Band n41 SAR (W/kg)	2.4 GHz WLAN MIMO at 17 dBm SAR (W/kg)	5 GHz WLAN MIMO at 17 dBm SAR (W/kg)	Σ SAR (W/kg)
		1	2	3	1+2+3
Hotspot SAR	Back	0.272	0.182*	0.273*	0.727
	Front	0.733	0.132	0.263	1.128
	Top	0.059	-	-	0.059
	Bottom	0.195	0.182*	0.140	0.517
	Right	1.192	0.182*	0.019	1.393
	Left	-	0.182	0.273	0.455

12.9 SPLSR Evaluation and Analysis

Per FCC KDB Publication 447498 D01v06, when the sum of the standalone transmitters is more than 1.6 W/kg for 1g and 4 W/kg for 10g, the SAR sum to peak locations can be analyzed to determine SAR distribution overlaps. When the SAR peak to location ratio (shown below) for each pair of antennas is ≤ 0.04 for 1g and ≤ 0.10 for 10g, simultaneous SAR evaluation is not required. The distance between the transmitters was calculated using the following formula.

$$\text{Distance}_{\text{Tx1} - \text{Tx2}} = R_i = \sqrt{(x_1 - x_2)^2 + (y_1 - y_2)^2} \text{ (Phablet)}$$

$$\text{SPLS Ratio} = \frac{(SAR_1 + SAR_2)^{1.5}}{R_i}$$

12.9.1 Phablet Back Side SPLSR Evaluation and Analysis

Table 12-68
Peak SAR Locations for Phablet Back Side

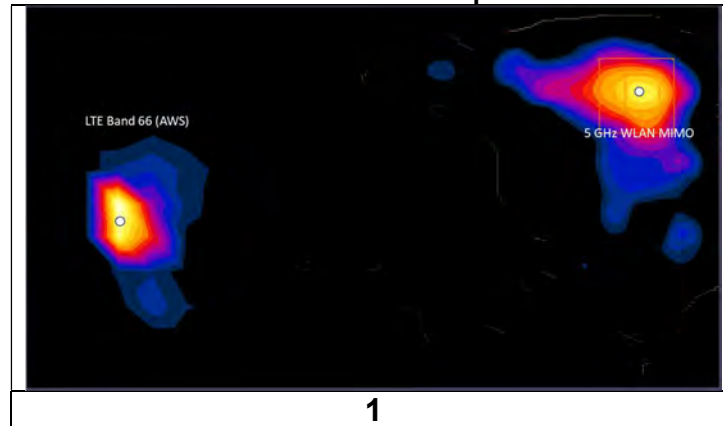
Mode/Band	x (mm)	y (mm)
5 GHz WLAN MIMO	-52.31	75.79
LTE Band 66 (AWS)	-32.50	-81.00

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Table 12-69
Phablet Back Side SAR to Peak Location Separation Ratio Calculations

Antenna Pair		Standalone SAR (W/kg)		Standalone SAR Sum (W/kg)	Peak SAR Separation Distance (mm)	SPLS Ratio	Plot Number
Ant "a"	Ant "b"	a	b	a+b	D _{a-b}	$(a+b)^{1.5}/D_{a-b}$	
5 GHz WLAN MIMO	LTE Band 66 (AWS)	0.989	3.146	4.135	158.04	0.05	1

Table 12-70
Back Side SAR to Peak Location Separation Ratio Plots



12.10 Simultaneous Transmission Conclusion

The above numerical summed SAR results and SPLSR analysis 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
Body SAR Measurement Variability Results

BODY VARIABILITY RESULTS														
Band	FREQUENCY		Mode	Service	Antenna Cong	Side	Spacing	Measured SAR (1g)	1st Repeated SAR (1g)	Ratio	2nd Repeated SAR (1g)	Ratio	3rd Repeated SAR (1g)	Ratio
	MHz	Ch.						(W/kg)	(W/kg)		(W/kg)		(W/kg)	
835	836.52	384	Cell. CDMA	EVDO Rev. 0	A	back	5mm	0.847	0.800	1.06	N/A	N/A	N/A	N/A
1750	1745.00	349000	NR Band n66 (AWS), 40 MHz Bandwidth	DFT-S-OFDM, QPSK, 1 RB, 1 RB Offset	I	right	5 mm	1.110	1.100	1.00	N/A	N/A	N/A	N/A
1900	1882.50	26365	LTE Band 25 (PCS), 20 MHz Bandwidth	QPSK, 50 RB, 25 RB Offset	A	bottom	5 mm	1.030	0.988	1.04	N/A	N/A	N/A	N/A
2300	2310.00	462000	NR Band n30, 10 MHz Bandwidth	DFT-S-OFDM, QPSK, 25 RB, 27 RB Offset	A	bottom	5 mm	1.070	0.923	1.16	N/A	N/A	N/A	N/A
2450	2510.00	20850	LTE Band 7, 20 MHz Bandwidth	QPSK, 50 RB, 25 RB Offset	B	bottom	5 mm	1.070	1.070	1.00	N/A	N/A	N/A	N/A
2600	2592.99	518598	NR Band n41, 100 MHz Bandwidth	CP-OFDM, QPSK, 1 RB, 1 RB Offset	I	right	5 mm	1.080	1.030	1.05	N/A	N/A	N/A	N/A
3700	3750.00	650000	NR Band n77, 100 MHz Bandwidth	DFT-S-OFDM, QPSK, 1 RB, 137 RB Offset	F	left	5 mm	0.824	0.824	1.00	N/A	N/A	N/A	N/A
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 13-2
Phablet SAR Measurement Variability Results

PHABLET VARIABILITY RESULTS														
Band	FREQUENCY		Mode	Service	Antenna Cong	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	1745.00	132322	LTE Band 66 (AWS) ULCA CA_66B, 10 MHz Bandwidth	QPSK, 1 RB, 49 RB Offset	A	back	0 mm	2.920	2.870	1.02	N/A	N/A	N/A	N/A
	1754.90	132421		QPSK, 1 RB, 0 RB Offset										
1900	1882.50	26365	LTE Band 25 (PCS), 20 MHz Bandwidth	QPSK, 50 RB, 25 RB Offset	A	back	0 mm	2.650	2.460	1.08	N/A	N/A	N/A	N/A
2600	2680.00	41490	LTE Band 41 ULCA PC2, 20 MHz Bandwidth	QPSK, 50 RB, 0 RB Offset	B	back	0 mm	2.250	2.230	1.00	N/A	N/A	N/A	N/A
	2660.20	41292		QPSK, 50 RB, 50 RB Offset										
3500	3500.01	633334	NR Band n77 DoD, 100 MHz Bandwidth	CP-OFDM, QPSK, 1 RB, 1 RB Offset	F	left	0 mm	2.270	2.220	1.02	N/A	N/A	N/A	N/A
3700	3750.00	650000	NR Band n77, 100 MHz Bandwidth	DFT-S-OFDM, QPSK, 1 RB, 137 RB Offset	F	Left	0 mm	2.250	2.190	1.03	N/A	N/A	N/A	N/A
3900	3930.00	662000	NR Band n77, 100 MHz Bandwidth	CP-OFDM, QPSK, 1 RB, 1 RB Offset	F	left	0 mm	2.540	2.520	1.01	N/A	N/A	N/A	N/A
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							Phablet 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 120 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 120 states.

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

Table 14-1
UMTS/CDMA Supplemental Head SAR Data

Supplemental Head SAR Data									
UMTS B5		UMTS B4		UMTS B2		CDMA BC0		CDMA BC1	
RMC		RMC		RMC		EVDO Rev.A		EVDO	
Test Position	Right Cheek	Test Position	Right Cheek	Test Position	Right Cheek	Test Position	Right Cheek	Test Position	Left Cheek
Frequency (MHz)	836.60	Frequency (MHz)	1732.40	Frequency (MHz)	1880.00	Frequency (MHz)	848.31	Frequency (MHz)	1880.00
Channel	4183	Channel	1412	Channel	9400	Channel	777	Channel	600
Measured 1g SAR (W/kg)	0.184	Measured 1g SAR (W/kg)	0.087	Measured 1g SAR (W/kg)	0.090	Measured 1g SAR (W/kg)	0.170	Measured 1g SAR (W/kg)	0.083
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		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)	0.265	Auto-tune (State 0)	0.156	Auto-tune (State 15)	0.097	Auto-tune (State 0)	0.226	Auto-tune (State 15)	0.120
Default (State 0)	0.264	Default (State 0)	0.159	Default (State 13)	0.101	Default (State 0)	0.226	Default (State 13)	0.109
State 0	0.264	State 0	0.159	State 15	0.100	State 0	0.226	State 14	0.107
State 43	0.210	State 42	0.058	State 41	0.020	State 39	0.178	State 15	0.120
State 81	0.138	State 60	0.112	State 79	0.012	State 77	0.004	State 38	0.000
State 100	0.047	State 80	0.047	State 106	0.096	State 92	0.117	State 76	0.075
State 119	0.072	State 118	0.088	State 117	0.020	State 115	0.073	State 114	0.096

Table 14-2
LTE Supplemental Head SAR Data

Supplemental Head SAR Data											
LTE B71		LTE B12		LTE B13		LTE B14		LTE B5		LTE B26	
QPSK, 20 MHz Bandwidth, 1 RB, 50 RB Offset		QPSK, 10 MHz Bandwidth, 1 RB, 25 RB Offset		QPSK, 10 MHz Bandwidth, 1 RB, 49 RB Offset		QPSK, 10 MHz Bandwidth, 1 RB, 0 RB Offset		QPSK, 10 MHz Bandwidth, 1 RB, 49 RB Offset		QPSK, 15 MHz Bandwidth, 1 RB, 74 RB Offset	
Test Position	Left Cheek	Test Position	Left Cheek	Test Position	Right Cheek	Test Position	Right Cheek	Test Position	Right Cheek	Test Position	Right Cheek
Frequency (MHz)	880.50	Frequency (MHz)	707.50	Frequency (MHz)	782.00	Frequency (MHz)	793.00	Frequency (MHz)	835.50	Frequency (MHz)	831.50
Channel	133297	Channel	23095	Channel	23230	Channel	23330	Channel	20525	Channel	28665
Measured 1g SAR (W/kg)	0.163	Measured 1g SAR (W/kg)	0.195	Measured 1g SAR (W/kg)	0.216	Measured 1g SAR (W/kg)	0.207	Measured 1g SAR (W/kg)	0.187	Measured 1g SAR (W/kg)	0.229
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		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)	0.191	Auto-tune (State 0)	0.252	Auto-tune (State 0)	0.304	Auto-tune (State 0)	0.264	Auto-tune (State 0)	0.245	Auto-tune (State 0)	0.301
Default (State 0)	0.197	Default (State 0)	0.257	Default (State 0)	0.305	Default (State 0)	0.288	Default (State 0)	0.253	Default (State 0)	0.251
State 0	0.197	State 0	0.257	State 0	0.305	State 0	0.288	State 0	0.253	State 3	0.295
State 22	0.023	State 6	0.253	State 25	0.015	State 34	0.058	State 33	0.111	State 32	0.139
State 37	0.006	State 36	0.062	State 35	0.043	State 72	0.132	State 36	0.025	State 70	0.198
State 75	0.000	State 74	0.004	State 73	0.091	State 76	0.005	State 71	0.193	State 109	0.235
State 113	0.002	State 112	0.006	State 111	0.162	State 110	0.157	State 109	0.220	State 118	0.048

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Table 14-3
NR Supplemental Head SAR Data

Supplemental Head SAR Data									
NR Band n71		NR Band n12		NR Band n5		NR Band n66		NR Band n25	
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, 1 RB, 53 RB Offset		DFT-s-OFDM QPSK, 40 MHz Bandwidth, 108 RB, 54 RB Offset		DFT-s-OFDM QPSK, 40 MHz Bandwidth, 108 RB, 54 RB Offset	
Test Position	Left Cheek	Test Position	Left Cheek	Test Position	Right Cheek	Test Position	Right Cheek	Test Position	Left Cheek
Frequency (MHz)	680.50	Frequency (MHz)	707.50	Frequency (MHz)	836.50	Frequency (MHz)	1745.00	Frequency (MHz)	1882.50
Channel	136100	Channel	141500	Channel	167300	Channel	349000	Channel	376500
Measured 1g SAR (W/kg)	0.208	Measured 1g SAR (W/kg)	0.242	Measured 1g SAR (W/kg)	0.228	Measured 1g SAR (W/kg)	0.121	Measured 1g SAR (W/kg)	0.079
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		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)	0.268	Auto-tune (State 0)	0.302	Auto-tune (State 0)	0.299	Auto-tune (State 13)	0.175	Auto-tune (State 2)	0.108
Default (State 0)	0.268	Default (State 0)	0.302	Default (State 0)	0.299	Default (State 0)	0.178	Default (State 13)	0.124
State 0	0.268	State 0	0.302	State 0	0.299	State 1	0.186	State 2	0.108
State 29	0.203	State 28	0.228	State 27	0.255	State 13	0.175	State 13	0.124
State 67	0.107	State 66	0.116	State 65	0.054	State 26	0.028	State 21	0.088
State 86	0.028	State 76	0.035	State 84	0.091	State 64	0.062	State 25	0.037
State 105	0.259	State 104	0.278	State 103	0.001	State 102	0.026	State 101	0.032

Table 14-4
UMTS/CDMA Supplemental Body SAR Data

Supplemental Body SAR Data									
UMTS B1		UMTS B4		UMTS B2		CDMA BC1		CDMA BC1	
RAC		RAC		RAC		RAC		RAC	
Test Position	Back	Test Position	Bottom	Test Position	Bottom	Test Position	Back	Test Position	Bottom
Frequency (MHz)	813.0	Frequency (MHz)	1312.0	Frequency (MHz)	813.0	Frequency (MHz)	813.0	Frequency (MHz)	813.0
Channel	4183	Channel	1312	Channel	838	Channel	384	Channel	838
Measured 1g SAR (W/kg)	0.812	Measured 1g SAR (W/kg)	1.010	Measured 1g SAR (W/kg)	0.798	Measured 1g SAR (W/kg)	0.847	Measured 1g SAR (W/kg)	0.880
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		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)	1.241	Auto-tune (State 0)	1.478	Auto-tune (State 0)	1.311	Auto-tune (State 0)	1.300	Auto-tune (State 0)	1.240
Default (State 0)	1.241	Default (State 0)	1.478	Default (State 0)	1.311	Default (State 0)	1.300	Default (State 0)	1.240
State 1	1.192	State 1	1.389	State 1	1.451	State 1	1.254	State 1	1.489
State 2	1.128	State 2	1.473	State 2	1.471	State 2	1.214	State 2	1.471
State 3	1.097	State 3	1.360	State 3	1.441	State 3	1.204	State 3	1.460
State 4	1.050	State 4	1.404	State 4	1.453	State 4	1.194	State 4	1.473
State 5	0.984	State 5	1.371	State 5	1.454	State 5	1.059	State 5	1.427
State 6	0.950	State 6	1.355	State 6	1.433	State 6	0.950	State 6	1.460
State 7	0.835	State 7	1.330	State 7	1.385	State 7	0.711	State 7	1.422
State 8	0.785	State 8	1.355	State 8	1.316	State 8	0.685	State 8	1.400
State 9	0.538	State 9	1.485	State 9	1.199	State 9	0.538	State 9	1.250
State 10	0.528	State 10	1.380	State 10	1.081	State 10	0.520	State 10	1.104
State 11	0.183	State 11	1.050	State 11	0.955	State 11	0.213	State 11	1.000
State 12	0.112	State 12	0.815	State 12	0.655	State 12	0.135	State 12	0.788
State 13	0.462	State 13	1.300	State 13	1.111	State 13	0.588	State 13	1.200
State 14	1.008	State 14	1.390	State 14	1.357	State 14	1.044	State 14	1.382
State 15	0.888	State 15	1.410	State 15	1.316	State 15	1.082	State 15	1.205
State 16	0.969	State 16	1.488	State 16	1.385	State 16	1.019	State 16	1.303
State 17	0.553	State 17	1.485	State 17	1.007	State 17	0.553	State 17	1.216
State 18	0.873	State 18	1.489	State 18	1.400	State 18	0.955	State 18	1.315
State 19	0.716	State 19	1.517	State 19	1.233	State 19	0.717	State 19	1.230
State 20	0.769	State 20	1.553	State 20	1.232	State 20	0.595	State 20	1.348
State 21	0.407	State 21	0.917	State 21	0.889	State 21	0.407	State 21	0.917
State 22	0.384	State 22	1.504	State 22	1.505	State 22	0.303	State 22	1.379
State 23	0.271	State 23	1.430	State 23	1.143	State 23	0.220	State 23	1.104
State 24	1.118	State 24	1.407	State 24	0.905	State 24	0.905	State 24	1.097
State 25	0.590	State 25	0.937	State 25	0.690	State 25	0.590	State 25	0.779
State 26	1.127	State 26	0.287	State 26	0.717	State 26	0.717	State 26	0.514
State 27	0.959	State 27	0.287	State 27	0.189	State 27	0.959	State 27	0.189
State 28	0.300	State 28	0.211	State 28	0.175	State 28	0.300	State 28	0.175
State 29	0.884	State 29	0.281	State 29	0.189	State 29	0.788	State 29	0.129
State 30	0.811	State 30	0.282	State 30	0.184	State 30	0.184	State 30	0.129
State 31	0.750	State 31	0.240	State 31	0.154	State 31	0.305	State 31	0.125
State 32	0.598	State 32	0.282	State 32	0.184	State 32	0.184	State 32	0.129
State 33	0.465	State 33	0.130	State 33	0.113	State 33	0.524	State 33	0.101
State 34	0.465	State 34	0.130	State 34	0.113	State 34	0.524	State 34	0.101
State 35	0.264	State 35	0.120	State 35	0.090	State 35	0.264	State 35	0.090
State 36	0.183	State 36	0.070	State 36	0.040	State 36	0.214	State 36	0.070
State 37	0.148	State 37	0.040	State 37	0.040	State 37	0.148	State 37	0.040
State 38	0.018	State 38	0.020	State 38	0.008	State 38	0.008	State 38	0.018
State 39	0.081	State 39	0.108	State 39	0.009	State 39	0.009	State 39	0.081
State 40	0.190	State 40	0.107	State 40	0.076	State 40	0.190	State 40	0.076
State 41	0.190	State 41	0.107	State 41	0.076	State 41	0.190	State 41	0.076
State 42	0.161	State 42	0.107	State 42	0.084	State 42	0.161	State 42	0.084
State 43	0.080	State 43	0.050	State 43	0.077	State 43	0.080	State 43	0.050
State 44	0.084	State 44	0.084	State 44	0.072	State 44	0.084	State 44	0.072
State 45	0.177	State 45	0.104	State 45	0.071	State 45	0.177	State 45	0.071
State 46	0.108	State 46	0.111	State 46	0.103	State 46	0.108	State 46	0.103
State 47	0.100	State 47	0.107	State 47	0.107	State 47	0.100	State 47	0.107
State 48	0.104	State 48	0.104	State 48	0.106	State 48	0.104	State 48	0.106
State 49	0.104	State 49	0.104	State 49	0.106	State 49	0.104	State 49	0.106
State 50	0.113	State 50	0.102	State 50	0.108	State 50	0.113	State 50	0.108
State 51	0.107	State 51	0.108	State 51	0.102	State 51	0.108	State 51	0.102
State 52	0.107	State 52	0.108	State 52	0.102	State 52	0.108	State 52	0.102
State 53	0.107	State 53	0.108	State 53	0.102	State 53	0.108	State 53	0.102
State 54	0.107	State 54	0.108	State 54	0.102	State 54	0.108	State 54	0.102
State 55	0.107	State 55	0.108	State 55	0.102	State 55	0.108	State 55	0.102
State 56	0.107	State 56	0.108	State 56	0.102	State 56	0.108	State 56	0.102
State 57	0.107	State 57	0.108	State 57	0.102	State 57	0.108	State 57	0.102
State 58	0.107	State 58	0.108	State 58	0.102	State 58	0.108	State 58	0.102
State 59	0.107	State 59	0.108	State 59	0.102	State 59	0.108	State 59	0.102
State 60	0.107	State 60	0.108	State 60	0.102	State 60	0.108	State 60	0.102
State 61	0.107	State 61	0.108	State 61	0.102	State 61	0.108	State 61	0.102
State 62	0.107	State 62	0.108	State 62	0.102	State 62	0.108	State 62	0.102
State 63	0.107	State 63	0.108	State 63	0.102	State 63	0.108	State 63	0.102
State 64	0.107	State 64	0.108	State 64	0.102	State 64	0.108	State 64	0.102
State 65	0.107	State 65	0.108	State 65	0.102	State 65	0.108	State 65	0.102
State 66	0.107	State 66	0.108	State 66	0.102	State 66	0.108	State 66	0.102
State 67	0.107	State 67	0.108	State 67	0.102	State 67	0.108	State 67	0.102
State 68	0.107	State 68	0.108	State 68	0.102	State 68	0.108	State 68	0.102
State 69	0.107	State 69	0.108	State 69	0.102	State 69	0.108	State 69	0.102
State 70	0.107	State 70	0.108	State 70	0.102	State 70	0.108	State 70	0.102
State 71	0.107	State 71	0.108	State 71	0.102	State 71	0.108	State 71	0.102
State 72	0.107	State 72	0.108	State 72	0.102	State 72	0.108	State 72	0.102
State 73	0.107	State 73	0.108	State 73	0.102	State 73	0.108	State 73	0.102
State 74	0.107	State 74	0.108	State 74	0.102	State 74	0.108	State 74	0.102
State 75	0.107	State 75	0.108	State 75	0.102	State 75	0.108	State 75	0.102
State 76	0.107	State 76	0.108	State 76	0.102	State 76	0.108	State 76	0.102
State 77	0.107	State 77	0.108	State 77	0.102	State 77	0.108	State 77	0.102
State 78	0.107	State 78	0.108	State 78	0.102	State 78	0.108	State 78	0.102
State 79	0.107	State 79	0.108	State 79	0.102	State 79	0.108	State 79	0.102
State 80	0.107	State 80	0.108	State 80	0.102	State 80	0.108	State 80	0.102
State 81	0.107	State 81	0.108	State 81	0.102	State 81	0.108	State 81	0.102
State 82	0.107	State 82	0.108	State 82	0.102	State 82	0.108	State 82	0.102
State 83	0.107	State 83	0.108	State 83	0.102	State 83	0.108	State 83	0.102
State 84	0.107	State 84	0.108	State 84	0.102	State 84	0.108	State 84	0.102
State 85	0.107	State 85	0.108	State 85	0.102	State 85	0.108	State 85	0.102
State 86	0.107	State 86	0.108	State 86	0.102	State 86	0.108	State 86	0.102
State 87	0.107	State 87	0.108	State 87	0.102	State 87	0.108	State 87	0.102
State 88	0.107	State 88	0.108	State 88	0.102	State 88	0.108	State 88	0.102
State 89	0.107	State 89	0.108	State 89	0.102	State 89	0.108	State 89	0.102
State 90	0.107	State 90	0.108	State 90	0.102	State 90	0.108	State 90	0.102
State 91	0.107	State 91	0.108	State 91	0.102	State 91	0.108	State 91	0.102
State 92	0.107	State 92	0.108	State 92	0.102	State 92	0.108	State 92	0.102
State 93	0.107	State 93	0.108	State 93	0.102	State 93	0.108	State 93	0.102
State 94	0.107	State 94	0.108	State 94	0.102	State 94	0.108	State 94	0.102
State 95	0.107	State 95	0.108	State 95	0.102	State 95	0.108	State 95	0.102
State 96	0.107	State 96	0.108	State 96	0.102	State 96	0.108	State 96	0.102
State 97	0.107	State 97	0.108	State 97	0.102	State 97	0.108	State 97	0.102
State 98	0.107	State 98	0.108	State 98	0.102	State 98	0.108	State 98	0.102
State 99	0.107	State 99	0.108	State 99	0.102	State 99	0.108	State 99	0.102
State 100	0.107	State 100	0.108	State 100	0.102	State 100	0.108	State 100	0.102
State 101	0.107	State 101	0.108	State 101	0.102	State 101	0.108	State 101	0.102
State 102	0.107	State 102	0.108	State 102	0.102	State 102	0.108	State 102	0.102
State 103	0.107	State 103	0.108	State 103	0.102	State 103	0.108	State 103	0.102
State 104	0.107	State 104	0.108	State 104	0.102	State 104	0.108	State 104	0.102
State 105	0.107	State 105	0.108	State 105	0.102	State 105	0.108	State 105	0.102
State 106	0.107	State 106	0.108	State 106	0.102	State 106	0.108	State 106	0.102
State 107	0.107	State 107	0.108	State 107	0.102	State 107	0.108	State 107	0.102
State 108	0.107	State 108	0.108	State 108	0.102	State 108	0.108	State 108	0.102
State 109	0.107	State 109	0.108	State 109	0.102	State 109	0.108	State 109	0.102
State 110	0.107	State 110	0.108	State 110	0.102	State 110	0.108	State 110	0.102
State 111	0.107	State 111	0.108	State 111	0.102	State 111	0.108	State 111	0.102
State 112	0.107	State 112	0.108	State 112	0.102	State 112	0.108	State 112	0.102
State 113	0.107	State 113	0.108	State 113	0.102	State 113	0.108	State 113	0.102
State 114	0.107	State 114	0.108	State 114	0.102	State 114	0.108	State 114	0.102
State 115	0.107	State 115	0.108	State 115	0.102	State 115	0.108	State 115	0.102
State 116	0.107	State 116	0.108	State 116	0.102	State 116	0.108	State 116	0.102
State 117	0.107	State 117	0.108	State 117	0.102</				

LTE Supplemental Body SAR Data

Supplemental Body SAR Data

LIE B11				LIE B12				LIE B13				LIE B14				LIE B5				LIE B28				LIE B69				LIE B25			
QPSK, 20 MHz Bandwidth, 50 RB, 25 RB Offset				QPSK, 10 Mhz Bandwidth, 25 RB, 12 RB Offset				QPSK, 10 Mhz Bandwidth, 1 RB, 4B Offset				QPSK, 10 Mhz Bandwidth, 25 RB, 12 RB Offset				QPSK, 10 Mhz Bandwidth, 1 RB, 4B Offset				QPSK, 15 Mhz Bandwidth, 1 RB, 74 RB Offset				QPSK, 20 Mhz Bandwidth, 50 RB, 50 RB Offset				QPSK, 20 Mhz Bandwidth, 50 RB, 25 RB Offset			
Test Position	Back	Test Position	Back	Test Position	Back	Test Position	Back	Test Position	Back	Test Position	Back	Test Position	Back	Test Position	Back	Test Position	Back	Test Position	Back	Test Position	Back	Test Position	Bottom	Test Position	Bottom	Test Position	Bottom	Test Position	Bottom		
Spacing	890.50	Spacing (MHz)	707.50	Spacing	782.50	Spacing (MHz)	793.00	Spacing	5 mm	Spacing	5 mm	Spacing	5 mm	Spacing	5 mm	Spacing	5 mm	Spacing	5 mm	Spacing	5 mm	Frequency (MHz)	1745.50	Frequency (MHz)	1882.50	Frequency (MHz)	1882.50	Frequency (MHz)	1882.50		
Channel	1329F	Channel	239D	Channel	25C20	Channel	25C20	Channel	25C20	Channel	25C20	Channel	25C20	Channel	25C20	Channel	25C20	Channel	25C20	Channel	25C20	Channel	25C20	Measured Ig SAR (W/kg)	0.976	Measured Ig SAR (W/kg)	1.000	Measured Ig SAR (W/kg)	1.000		
Measured Ig SAR (W/kg)	0.494	Measured Ig SAR (W/kg)	0.568	Measured Ig SAR (W/kg)	0.561	Measured Ig SAR (W/kg)	0.663	Measured Ig SAR (W/kg)	0.677	Measured Ig SAR (W/kg)	0.596	Measured Ig SAR (W/kg)	0.596	Measured Ig SAR (W/kg)	0.596	Measured Ig SAR (W/kg)	0.596	Measured Ig SAR (W/kg)	0.596	Measured Ig SAR (W/kg)	0.596	Measured Ig SAR (W/kg)	0.976	Measured Ig SAR (W/kg)	1.000	Measured Ig SAR (W/kg)	1.000	Measured Ig SAR (W/kg)	1.000		
Average Value of Time Steep (W/kg)	0.999	Average Value of Time Steep (W/kg)	0.995	Average Value of Time Steep (W/kg)	0.939	Average Value of Time Steep (W/kg)	1.135	Average Value of Time Steep (W/kg)	1.070	Average Value of Time Steep (W/kg)	0.960	Average Value of Time Steep (W/kg)	0.960	Average Value of Time Steep (W/kg)	0.965	Average Value of Time Steep (W/kg)	0.965	Average Value of Time Steep (W/kg)	0.965	Average Value of Time Steep (W/kg)	0.960	Average Value of Time Steep (W/kg)	0.965	Average Value of Time Steep (W/kg)	0.965	Average Value of Time Steep (W/kg)	0.965	Average Value of Time Steep (W/kg)	0.965		
Auto-kune (State 0)	0.999	Auto-kune (State 0)	0.995	Auto-kune (State 0)	0.939	Auto-kune (State 0)	1.135	Auto-kune (State 0)	1.070	Auto-kune (State 0)	0.960	Auto-kune (State 0)	0.960	Auto-kune (State 0)	0.965	Auto-kune (State 0)	0.965	Auto-kune (State 0)	0.965	Auto-kune (State 0)	0.960	Auto-kune (State 0)	0.965	Auto-kune (State 0)	0.965	Auto-kune (State 0)	0.965	Auto-kune (State 0)	0.965		
Default (State 0)	0.996	Default (State 0)	0.930	Default (State 0)	0.964	Default (State 0)	0.964	Default (State 0)	1.093	Default (State 0)	0.963	Default (State 0)	0.963	Default (State 0)	0.963	Default (State 0)	0.963	Default (State 0)	0.963	Default (State 0)	0.963	Default (State 0)	0.963	Default (State 0)	0.963	Default (State 0)	0.963	Default (State 0)	0.963		
State 1	0.996	State 0	0.930	State 0	0.964	State 0	0.964	State 0	1.093	State 0	0.963	State 0	0.963	State 0	0.963	State 0	0.963	State 0	0.963	State 0	0.963	State 0	0.963	State 0	0.963	State 0	0.963	State 0	0.963		
State 18	0.927	State 5	0.848	State 16	0.649	State 15	0.862	State 15	0.651	State 13	0.621	State 13	0.621	State 13	0.621	State 13	0.621	State 13	0.621	State 13	0.621	State 13	0.621	State 13	0.621	State 13	0.621	State 13	0.621		
State 50	0.533	State 17	0.910	State 54	0.563	State 53	0.621	State 54	0.640	State 51	0.569	State 51	0.569	State 51	0.569	State 51	0.569	State 51	0.569	State 51	0.569	State 51	0.569	State 51	0.569	State 51	0.569	State 51	0.569		
State 69	0.468	State 55	0.635	State 83	0.450	State 83	0.551	State 82	0.571	State 89	0.070	State 89	0.070	State 89	0.070	State 89	0.070	State 89	0.070	State 89	0.070	State 89	0.070	State 89	0.070	State 89	0.070	State 89	0.070		
State 94	0.461	State 93	0.839	State 92	0.476	State 91	0.458	State 91	0.047	State 90	0.047	State 90	0.047	State 90	0.047	State 90	0.047	State 90	0.047	State 90	0.047	State 90	0.047	State 90	0.047	State 90	0.047	State 90	0.047		
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Table 14-6
NR Supplemental Body SAR Data

Supplemental Body SAR Data					
NR Band n71		NR Band n72		NR Band n66	
DFT-s-OFDM QPSK, 20 MHz Bandwidth, 1 RB, 1 RB Offset		DFT-s-OFDM QPSK, 15 MHz Bandwidth, 36 RB, 0 RB Offset		DFT-s-OFDM QPSK, 40 MHz Bandwidth, 108 RB, 108 RB Offset	
NR Band n71		NR Band n72		NR Band n66	
Test Position	Back	Test Position	Back	Test Position	Bottom
Spacing	5 mm	Spacing	5 mm	Spacing	5 mm
Frequency (MHz)	680.50	Frequency (MHz)	707.50	Frequency (MHz)	1745.00
Channel	132100	Channel	141500	Channel	349000
Measured 1g SAR (W/kg)	0.509	Measured 1g SAR (W/kg)	0.542	Measured 1g SAR (W/kg)	1.080
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)	1.017	Auto-tune (State 0)	0.872	Auto-tune (State 0)	1.738
Default (State 0)	1.017	Default (State 0)	0.872	Default (State 0)	1.738
State 0	1.017	State 0	0.872	State 0	1.738
State 10	0.185	State 9	0.363	State 1	1.735
State 48	0.235	State 47	0.287	State 2	1.730
State 55	0.478	State 85	0.182	State 3	1.725
State 86	0.078	State 105	0.024	State 4	1.713
				State 5	1.710
				State 6	1.677
				State 7	1.624
				State 8	1.568
				State 9	1.444
				State 10	1.305
				State 11	1.126
				State 12	0.835
				State 13	1.420
				State 14	1.465
				State 15	1.476
				State 16	1.467
				State 17	1.504
				State 18	1.507
				State 19	1.560
				State 20	1.568
				State 21	1.552
				State 22	1.468
				State 23	1.356
				State 24	1.159
				State 25	0.830
				State 26	0.224
				State 27	0.280
				State 28	0.281
				State 29	0.273
				State 30	0.259
				State 31	0.268
				State 32	0.233
				State 33	0.212
				State 34	0.176
				State 35	0.131
				State 36	0.101
				State 37	0.069
				State 38	0.037
				State 39	0.722
				State 40	0.715
				State 41	0.702
				State 42	0.686
				State 43	0.664
				State 44	0.671
				State 45	0.596
				State 46	0.558
				State 47	0.484
				State 48	0.387
				State 49	0.323
				State 50	0.240
				State 51	0.154
				State 52	1.239
				State 53	1.302
				State 54	1.319
				State 55	1.333
				State 56	1.288
				State 57	1.265
				State 58	1.409
				State 59	1.455
				State 60	1.424
				State 61	1.468
				State 62	1.441
				State 63	1.287
				State 64	1.014
				State 65	0.820
				State 66	0.802
				State 67	0.613
				State 68	0.593
				State 69	0.677
				State 70	0.686
				State 71	1.110
				State 72	1.210
				State 73	1.367
				State 74	1.643
				State 75	1.610
				State 76	1.660
				State 77	1.680
				State 78	0.951
				State 79	0.466
				State 80	0.600
				State 81	0.560
				State 82	0.516
				State 83	0.565
				State 84	0.671
				State 85	0.571
				State 86	0.560
				State 87	0.407
				State 88	0.320
				State 89	0.239
				State 90	0.154
				State 91	0.460
				State 92	1.125
				State 93	1.120
				State 94	1.125
				State 95	1.118
				State 96	1.142
				State 97	1.100
				State 98	1.070
				State 99	0.963
				State 100	0.883
				State 101	0.880
				State 102	0.514
				State 103	0.340
				State 104	1.060
				State 105	0.287
				State 106	1.122
				State 107	0.363
				State 108	1.072
				State 109	0.285
				State 110	1.122
				State 111	0.364
				State 112	1.595
				State 113	0.780
				State 114	0.251
				State 115	0.990
				State 116	1.387
				State 117	0.785
				State 118	0.947
				State 119	0.989

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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 14-7
LTE Band 41 Head Linearity Data

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	25.50	28.00
Measured Output Power (dBm)	24.12	26.51
Measured SAR (W/kg)	0.072	0.084
Measured Power (mW)	258.23	447.71
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	163.46	193.86
% deviation from expected linearity		-0.84%

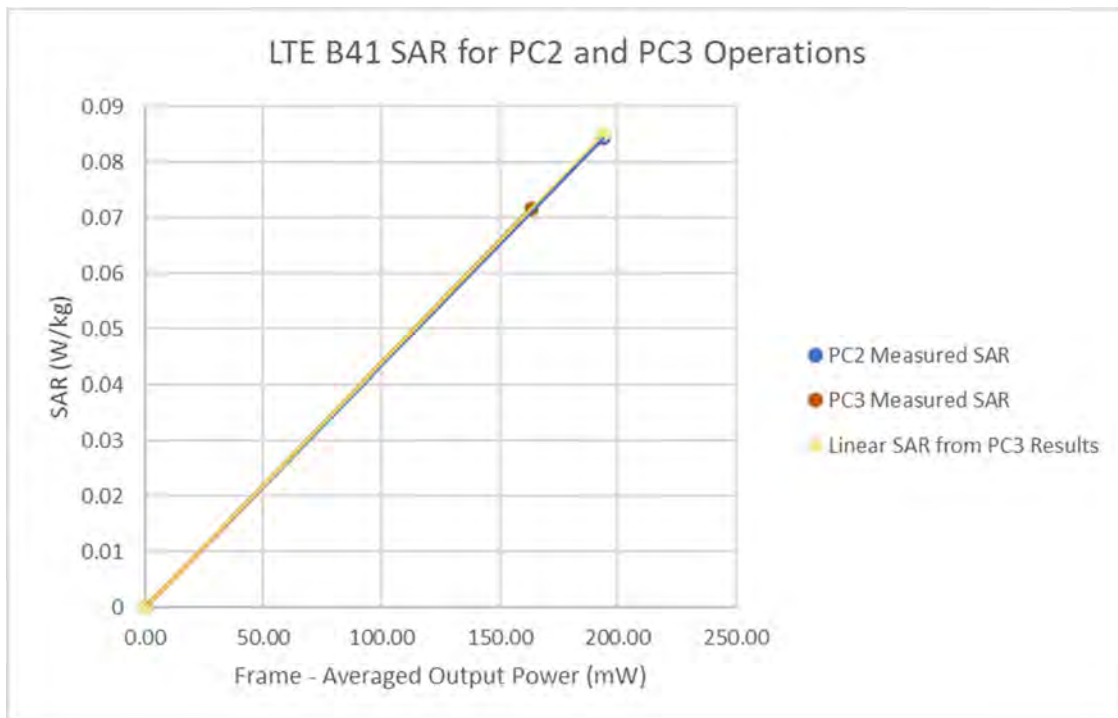


Figure 14-1
LTE Band 41 Head Linearity

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Table 14-8
LTE Band 41 ULCA Head Linearity Data

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	25.50	28.00
Measured Output Power (dBm)	24.85	26.67
Measured SAR (W/kg)	0.081	0.080
Measured Power (mW)	305.49	464.52
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	193.38	201.14
% deviation from expected linearity		-5.04%

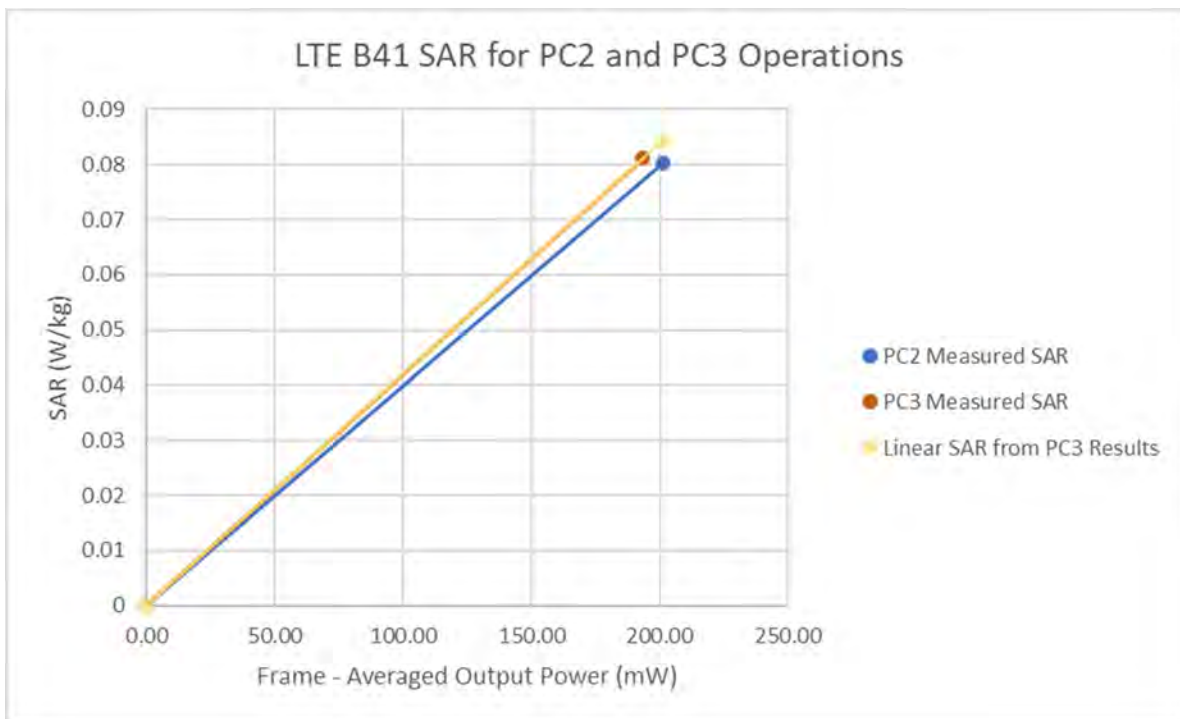


Figure 14-2
LTE Band 41 ULCA Head Linearity

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Table 14-9
LTE Band 41 Body-Worn Linearity Data

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	25.50	28.00
Measured Output Power (dBm)	24.54	26.99
Measured SAR (W/kg)	0.284	0.319
Measured Power (mW)	284.45	500.03
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	180.05	216.51
% deviation from expected linearity		-6.59%

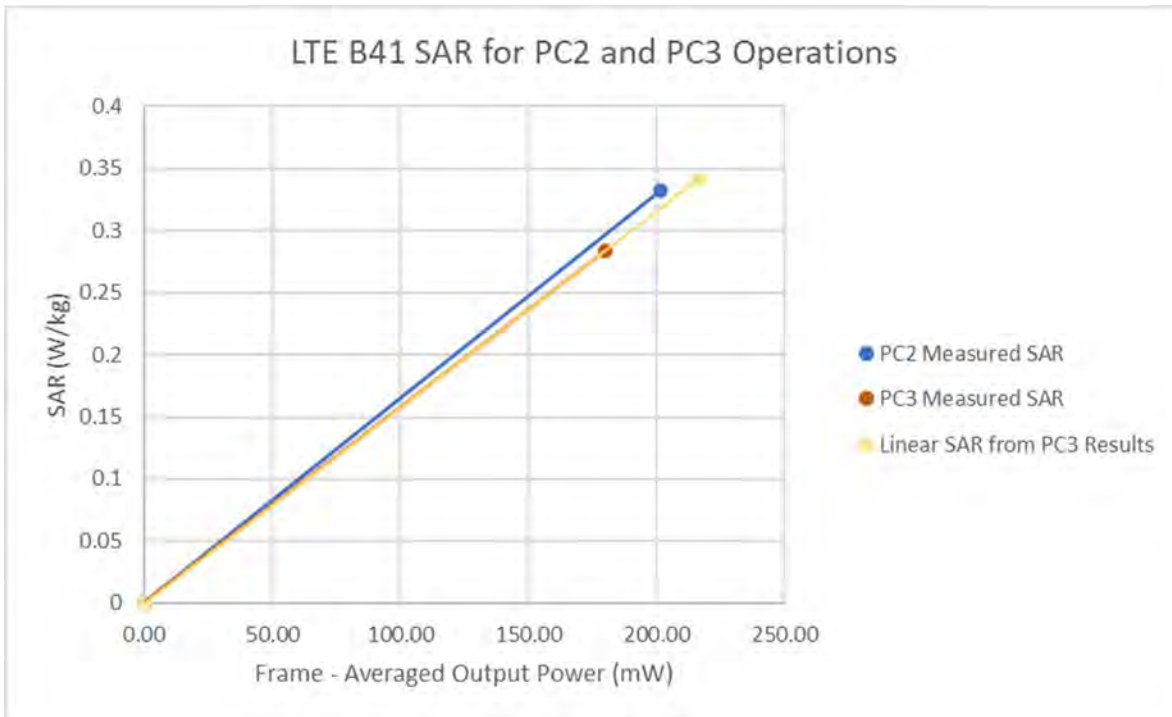


Figure 14-3
LTE Band 41 Body-Worn Linearity

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

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	25.50	28.00
Measured Output Power (dBm)	24.85	26.67
Measured SAR (W/kg)	0.324	0.332
Measured Power (mW)	305.49	464.52
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	193.38	201.14
% deviation from expected linearity		-1.48%

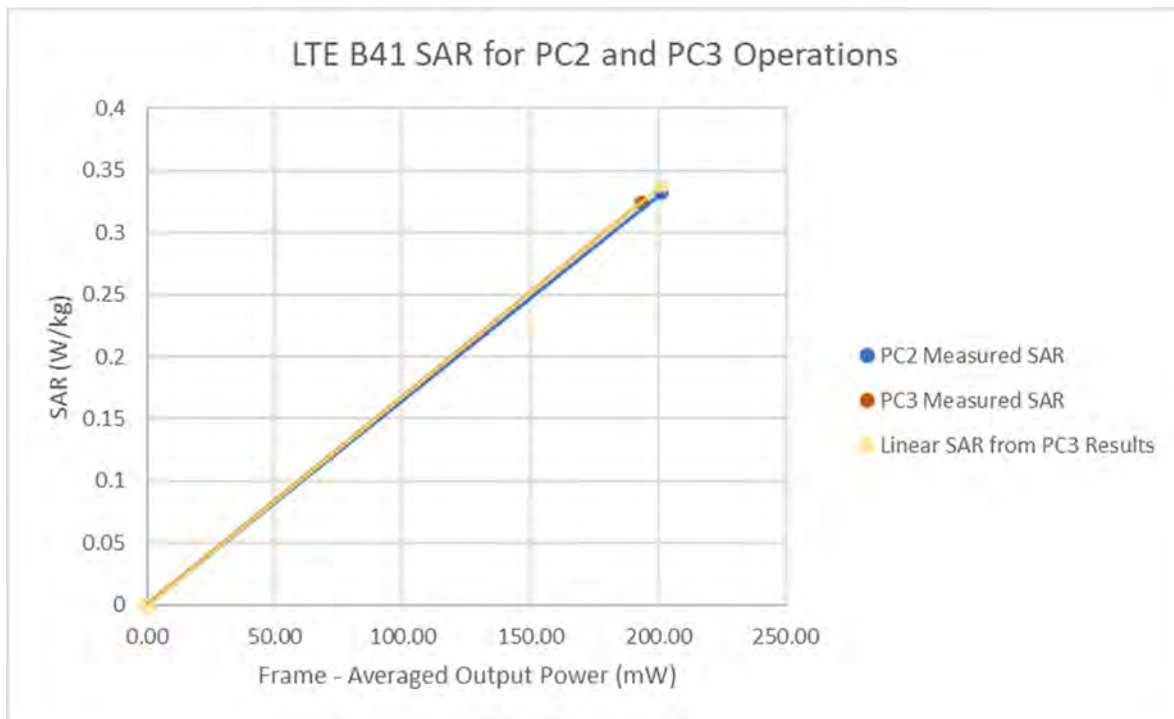


Figure 14-4
LTE Band 41 ULCA Body-Worn Linearity

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Table 14-11
LTE Band 41 Hotspot Linearity Data

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	20.50	22.10
Measured Output Power (dBm)	20.15	22.01
Measured SAR (W/kg)	1.020	0.992
Measured Power (mW)	103.51	158.85
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	65.52	68.78
% deviation from expected linearity		-7.35%

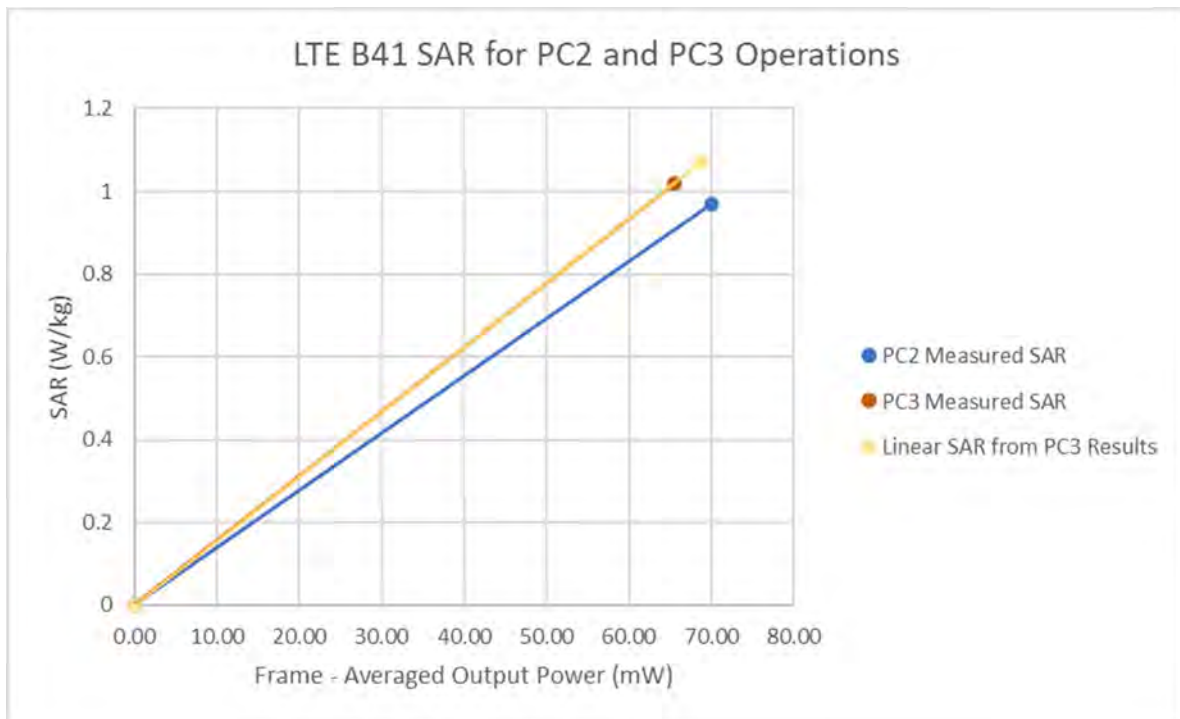


Figure 14-5
LTE Band 41 Hotspot Linearity

FCC ID: A3LSMF711U	 PCTEST PRODUCTS BY TEST LABORATORY	SAR EVALUATION REPORT		Approved by: Quality Manager
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Table 14-12
LTE Band 41 ULCA Hotspot Linearity Data

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	20.50	22.10
Measured Output Power (dBm)	20.20	22.09
Measured SAR (W/kg)	0.982	0.970
Measured Power (mW)	104.71	161.81
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	66.28	70.06
% deviation from expected linearity		-6.55%

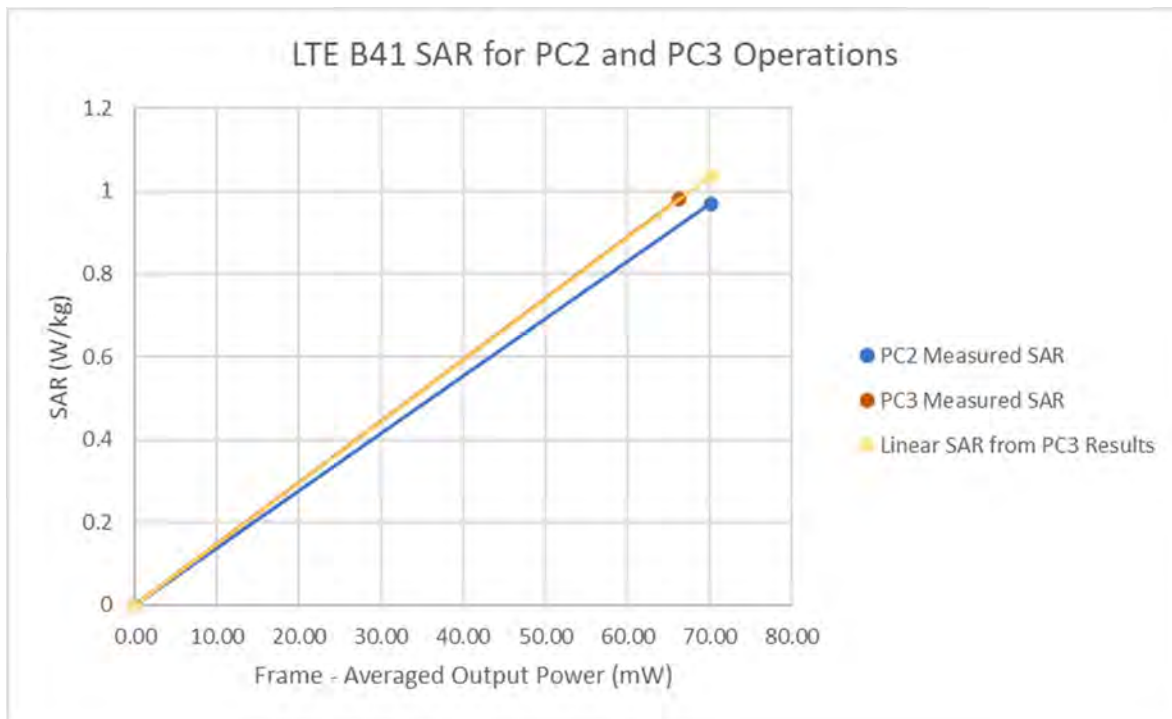


Figure 14-6
LTE Band 41 ULCA Hotspot Linearity

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Table 14-13
LTE Band 41 Phablet Linearity Data

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	24.00	25.60
Measured Output Power (dBm)	23.34	25.10
Measured SAR (W/kg)	2.090	2.220
Measured Power (mW)	215.77	323.59
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	136.59	140.12
% deviation from expected linearity		3.54%

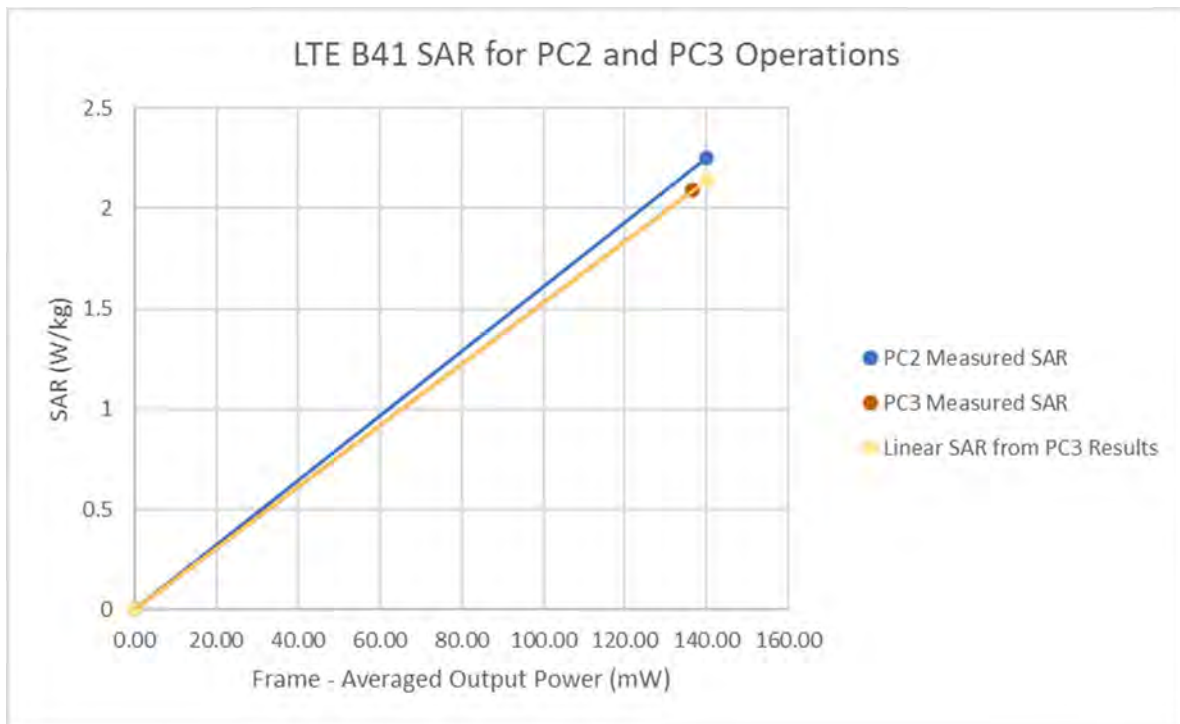


Figure 14-7
LTE Band 41 Phablet Linearity

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Table 14-14
LTE Band 41 ULCA Phablet Linearity Data

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	24.00	25.60
Measured Output Power (dBm)	23.21	25.09
Measured SAR (W/kg)	2.170	2.250
Measured Power (mW)	209.41	322.85
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	132.56	139.79
% deviation from expected linearity		-1.68%

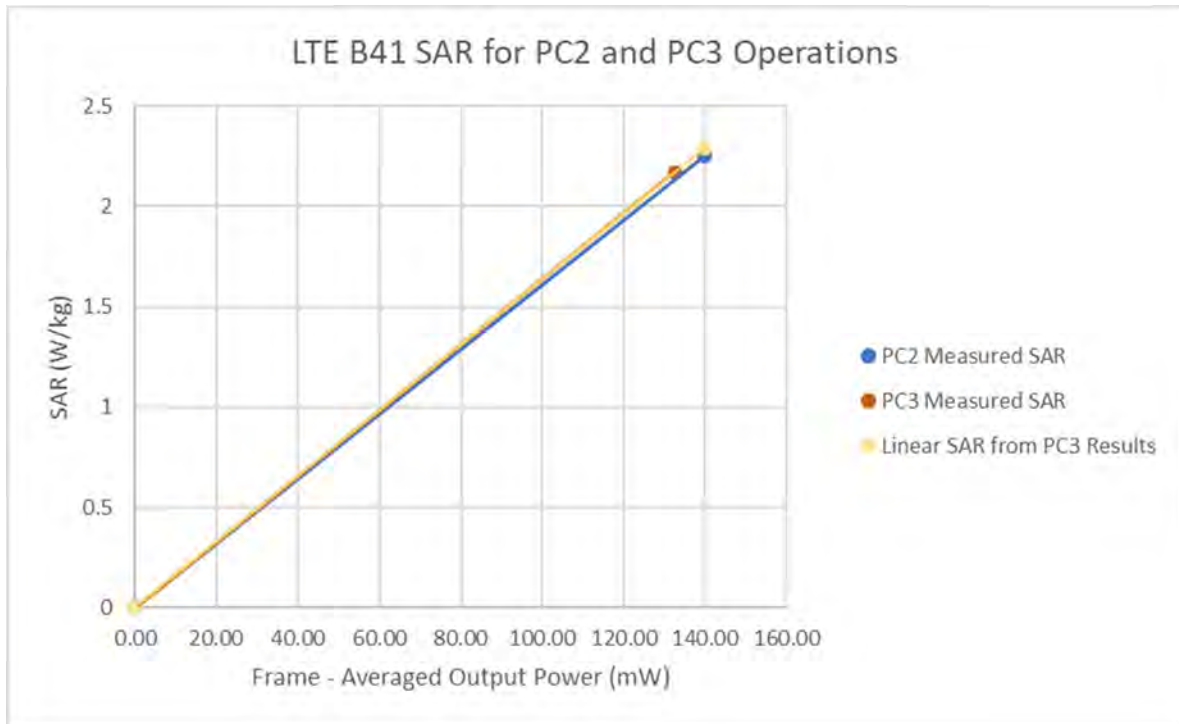


Figure 14-8
LTE Band 41 ULCA Phablet Linearity

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15 EQUIPMENT LIST

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Agilent	8594A	(9kHz-2.9GHz) Spectrum Analyzer	CBT	N/A	CBT	3051A00187
Agilent	E4438C	ESG Vector Signal Generator	12/14/2020	Biennial	12/14/2022	MY42082385
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	MXG Vector Signal Generator	12/1/2020	Annual	12/1/2021	MY47420837
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	N/A	N/A	N/A	GB44450273
Agilent	N4010A	Wireless Connectivity Test Set	N/A	N/A	N/A	GB46170464
Insize	1108-150	Digital Caliper	1/17/2020	Biennial	1/17/2022	409193536
Amplifier Research	1551G6	Amplifier	CBT	N/A	CBT	353317
Amplifier Research	1551G6	Amplifier	CBT	N/A	CBT	433978
Anritsu	MN8110B	I/O Adaptor	CBT	N/A	CBT	6261747881
Anritsu	ML2495A	Power Meter	1/18/2021	Annual	1/18/2022	941001
Anritsu	ML2496A	Power Meter	3/3/2021	Annual	3/3/2022	1306009
Anritsu	MA2411B	Pulse Power Sensor	12/18/2020	Annual	12/18/2021	1126066
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	6200901190
Anritsu	MT8821C	Radio Communication Analyzer	7/3/2020	Annual	7/3/2021	6262150047
Anritsu	MT8821C	Radio Communication Analyzer	3/2/2021	Annual	3/2/2022	6262044715
Anritsu	MT8821C	Radio Communication Analyzer	9/11/2020	Annual	9/11/2021	6201524637
Anritsu	MA24106A	USB Power Sensor	7/24/2020	Annual	7/24/2021	1231535
Anritsu	MA24106A	USB Power Sensor	10/19/2020	Annual	10/19/2021	1344545
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	AR85729-5	Solid State Amplifier	CBT	N/A	CBT	M155A00-009
COMTECH	AR85729-5/5759B	Solid State Amplifier	CBT	N/A	CBT	M3W1A00-1002
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	200113269
Control Company	4040	Therm./Clock/Humidity Monitor	6/29/2019	Biennial	6/29/2021	192291470
Keysight	772D	Dual Directional Coupler	CBT	N/A	CBT	MY52180215
Keysight Technologies	N9020A	MXA Signal Analyzer	2/24/2021	Annual	2/24/2022	MY48010233
Keysight Technologies	N9020A	MXA 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	SLP-2400+	Low Pass Filter	CBT	N/A	CBT	R8979500903
Mini-Circuits	BW-N20W5+	DC to 18 GHz Precision Fixed 20 dB Attenuator	CBT	N/A	CBT	N/A
Mini-Circuits	NLP-1200+	Low Pass Filter DC to 1000 MHz	CBT	N/A	CBT	N/A
Mini-Circuits	NLP-2950+	Low Pass Filter DC to 2700 MHz	CBT	N/A	CBT	N/A
Mini-Circuits	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-S3W2	Attenuator (3dB)	CBT	N/A	CBT	120
Narda	4772-3	Attenuator (3dB)	CBT	N/A	CBT	9406
Pasternack	PE2208-6	Bidirectional Coupler	CBT	N/A	CBT	N/A
Pasternack	PE2209-10	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	2/18/2021	Annual	2/18/2022	101767
Rohde & Schwarz	ZNLE6	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	4d047
SPEAG	D835V2	835 MHz SAR Dipole	10/19/2018	Triennial	10/19/2021	4d133
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	5d080
SPEAG	D1900V2	1900 MHz SAR Dipole	2/21/2019	Triennial	2/21/2022	5d148

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Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
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	1/19/2021	Annual	1/19/2022	981
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	D5GHZV2	5 GHz SAR Dipole	1/20/2021	Annual	1/20/2022	1057
SPEAG	D5GHZV2	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	1533
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	7526
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. 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.
2. Each equipment item is used solely within its respective calibration period.

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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	1.732	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	1.732	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	1.732	1	1	0.5	0.5	∞
Integration Time	E.2.8	2.6	R	1.732	1	1	1.5	1.5	∞
RF Ambient Conditions - Noise	E.6.1	3	R	1.732	1	1	1.7	1.7	∞
RF Ambient Conditions - Reflections	E.6.1	3	R	1.732	1	1	1.7	1.7	∞
Probe Positioner Mechanical Tolerance	E.6.2	0.8	R	1.732	1	1	0.5	0.5	∞
Probe Positioning w/ respect to Phantom	E.6.3	6.7	R	1.732	1	1	3.9	3.9	∞
Extrapolation, Interpolation & Integration algorithms for Max. SAR Evaluation	E.5	4	R	1.732	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	1.732	1	1	2.9	2.9	∞
SAR Scaling	E.6.5	0	R	1.732	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	1.732	0.78	0.71	1.5	1.4	∞
Liquid Permittivity - Temperature Uncertainty	E.3.4	0.6	R	1.732	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

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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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