



SAR EVALUATION REPORT

Applicant Name:

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Date of Testing:

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Test Site/Location:

Element, Columbia, MD, USA

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1M2209010096- 23.A3L (Rev1)

FCC ID:

A3LSMS911U

APPLICANT:

SAMSUNG ELECTRONICS CO., LTD.

DUT Type:

Portable Handset

Application Type:

Certification

FCC Rule Part(s):

CFR §2.1093

Model(s):

SM-S911U, SM-S911U1

Equipment Class	Band & Mode	Tx Frequency	SAR			
			1g Head (W/kg)	1g Body-Worn (W/kg)	1g Hotspot (W/kg)	10g Phablet (W/kg)
PCE	CSMA/CD (EDGE GPRS)	824.20 - 848.80 MHz	0.21	0.26	0.84	N/A
PCE	CSMA/CD (EDGE GPRS)	1885.20 - 1920.80 MHz	0.13	0.13	0.14	N/A
PCE	UMTS B56	825.40 - 846.60 MHz	0.32	0.32	0.58	N/A
PCE	UMTS B78	1712.4 - 1752.8 MHz	0.17	0.81	0.86	0.39
PCE	UMTS B500	1852.4 - 1907.6 MHz	0.10	0.85	0.85	2.68
PCE	LTE Band 12	660.5 - 695.5 MHz	0.18	0.37	0.53	N/A
PCE	LTE Band 42	699.7 - 713.3 MHz	0.27	0.38	0.52	N/A
PCE	LTE Band 13	779.5 - 784.5 MHz	0.33	0.37	0.55	N/A
PCE	LTE Band 34	790.5 - 795.5 MHz	0.33	0.38	0.64	N/A
PCE	LTE Band 25 (C-DRB)	814.7 - 848.3 MHz	0.34	0.37	0.65	N/A
PCE	LTE Band 5 (C-DRB)	824.7 - 848.3 MHz	0.35	0.29	0.58	N/A
PCE	LTE Band 46 (AWD)	1710.7 - 1773.3 MHz	0.59	0.88	1.16	3.02
PCE	LTE Band 4 (AWD)	1710.7 - 1754.3 MHz	N/A	N/A	N/A	N/A
PCE	LTE Band 25 (PC-SS)	1850.7 - 1914.3 MHz	0.60	0.78	1.23	3.33
PCE	LTE Band 25 (PC-SS)	1850.7 - 1909.3 MHz	N/A	N/A	N/A	N/A
PCE	LTE Band 35	2307.5 - 2312.5 MHz	0.67	0.47	1.21	2.78
PCE	LTE Band 7	2502.5 - 2567.5 MHz	0.76	0.50	0.68	2.69
PCE	LTE Band 41	2485.5 - 2687.5 MHz	0.70	0.32	0.56	2.85
PCE	LTE Band 38	2672.5 - 2617.5 MHz	N/A	N/A	N/A	N/A
PCE	LTE Band 48	3552.5 - 3697.5 MHz	0.79	0.55	0.51	N/A
PCE	NR Band n71	660.5 - 695.5 MHz	0.30	0.45	0.71	N/A
PCE	NR Band n12	701.5 - 713.5 MHz	0.31	0.47	0.66	N/A
PCE	NR Band n18 (C-DRB)	815.5 - 846.5 MHz	0.33	0.41	0.61	N/A
PCE	NR Band n18 (C-DRB)	825.5 - 846.5 MHz	N/A	N/A	N/A	N/A
PCE	NR Band n18 (AWD)	1712.5 - 1777.5 MHz	0.66	0.69	1.18	2.98
PCE	NR Band n18 (PC-SS)	1850.5 - 1912.5 MHz	0.56	0.70	0.92	2.81
PCE	NR Band n18 (PC-SS)	1850.5 - 1907.5 MHz	N/A	N/A	N/A	N/A
PCE	NR Band n18	2307.5 - 2312.5 MHz	0.95	0.42	1.24	2.63
PCE	NR Band n77	2502.5 - 2617.5 MHz	0.72	0.49	0.66	2.57
PCE	NR Band n41	2501.01 - 2685 MHz	0.87	0.25	0.76	2.39
PCE	NR Band n18	2575 - 2615 MHz	N/A	N/A	N/A	N/A
PCE	NR Band n18	3555 - 3694.98 MHz	0.71	0.28	0.47	N/A
PCE	NR Band n77 DSS	3455.01 - 3544.98 MHz	0.49	0.10	0.22	0.70
PCE	NR Band n77	3105 - 3815 MHz	0.58	0.25	0.51	0.75
OTS	2.4 GHz WLAN	2412 - 2462 MHz	0.85	0.81	0.38	N/A
NR	U-NB-1	5180 - 5240 MHz	N/A	N/A	N/A	N/A
NR	U-NB-3A	5260 - 5320 MHz	0.33	0.30	N/A	N/A
NR	U-NB-3C	5500 - 5720 MHz	0.32*	0.21*	N/A	2.34*
NR	U-NB-3	5745 - 5825 MHz	0.31*	0.20*	0.50*	N/A
NR	U-NB-4	5845 - 5885 MHz	0.45*	0.22*	N/A	2.30*
DSSTTS	Bluetooth	2402 - 2480 MHz	0.13	0.11	0.13	N/A
DOX	MFC	13.56 MHz	N/A	N/A	N/A	< 0.1
Simultaneous SAR per FCC (SAR) (SAR) (SAR)			0.98	1.56	1.47	3.99

* Note: * SAR values represent RF exposure during MIMO operations.

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.

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 superseded test report(s) and dispose of it accordingly.

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.

RJ Ortanez
Executive Vice President



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1 DEVICE UNDER TEST

1.1 Device Overview

Band & Mode	Operating Modes	Tx Frequency
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 41	Voice/Data	2498.5 - 2687.5 MHz
LTE Band 38	Voice/Data	2572.5 - 2617.5 MHz
LTE Band 48	Voice/Data	3552.5 - 3697.5 MHz
NR Band n71	Voice/Data	665.5 - 695.5 MHz
NR Band n12	Voice/Data	701.5 - 713.5 MHz
NR Band n26 (Cell)	Voice/Data	816.5 - 846.5 MHz
NR Band n5 (Cell)	Voice/Data	826.5 - 846.5 MHz
NR Band n66 (AWS)	Voice/Data	1712.5 - 1777.5 MHz
NR Band n25 (PCS)	Voice/Data	1852.5 - 1912.5 MHz
NR Band n2 (PCS)	Voice/Data	1852.5 - 1907.5 MHz
NR Band n30	Voice/Data	2307.5 - 2312.5 MHz
NR Band n7	Voice/Data	2502.5 - 2567.5 MHz
NR Band n41	Voice/Data	2501.01 - 2685 MHz
NR Band n38	Voice/Data	2575 - 2615 MHz
NR Band n48	Voice/Data	3555 - 3694.98 MHz
NR Band n77 DoD	Voice/Data	3455.01 - 3544.98 MHz
NR Band n77	Voice/Data	3705 - 3975 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
U-NII-4	Voice/Data	5845 - 5885 MHz
U-NII-5	Voice/Data	5935 - 6415 MHz
U-NII-6	Voice/Data	6435 - 6515 MHz
U-NII-7	Voice/Data	6535 - 6875 MHz
U-NII-8	Voice/Data	6895 - 7115 MHz
Bluetooth	Data	2402 - 2480 MHz
NFC	Data	13.56 MHz
NR Band n258	Data	24250 - 24450 MHz; 24750 - 25250 MHz
NR Band n260	Data	37000 - 40000 MHz
NR Band n261	Data	27500 - 28350 MHz

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1.2 Time-Averaging Algorithm for RF Exposure Compliance

This Device is enabled with the Qualcomm® Smart Transmit Gen2 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).

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

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

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Exposure Scenario			Body-Worn	Phablet Max	Phablet Reduced	Head	Hotspot	Earjack	Maximum Tune-Up Output Power*
Averaging Volume			1g	10g	10g	1g	1g	10g	
Spacing			15 mm	8, 6, 11, 0 mm	0 mm	0 mm	10 mm	0 mm	
DSI			0	0	1	2	3	4	
Technology/Band	Antenna	Antenna Group							Pmax
GSM 850	A	AG0	28.6		27.1	30.6	26.8	27.1	25.3
GSM 1900	A	AG0	27.2		23.2	30.2	18.8	23.2	22.1
UMTS 850	A	AG0	29.4		27.0	29.9	27.0	27.0	24.0
UMTS 1750	A	AG0	24.9		21.0	31.7	19.0	21.0	23.0
UMTS 1900	A	AG0	25.0		21.0	31.3	19.0	21.0	23.0
LTE Band 71	A	AG0	29.7		27.1	32.3	27.1	27.1	24.5
LTE Band 12	A	AG0	29.7		26.4	31.2	26.4	26.4	24.5
LTE Band 13	A	AG0	29.8		27.0	30.2	27.0	27.0	24.5
LTE Band 14	A	AG0	29.8		27.0	30.2	27.0	27.0	24.5
LTE Band 26 (Cell)	A	AG0	29.4		26.8	30.0	26.8	26.8	24.5
LTE Band 5 (Cell)	A	AG0	29.6		26.9	29.9	26.9	26.9	24.5
LTE Band 66/4 (AWS)	A	AG0	25.1		21.0	31.1	19.0	21.0	23.5
LTE Band 66/4 (AWS)	F	AG1	20.5		20.5	15.5	20.5	20.5	23.5
LTE Band 25/2 (PCS)	A	AG0	25.6		21.5	32.1	19.5	21.5	23.5
LTE Band 25/2 (PCS)	F	AG1	21.5		21.5	17.0	21.5	21.5	23.5
LTE Band 30	A	AG0	26.4		21.0	31.2	19.0	21.0	22.1
LTE Band 30	F	AG1	19.5		19.5	15.5	19.5	19.5	21.0
LTE Band 7	B	AG0	24.6		21.5	27.9	21.0	21.5	23.0
LTE Band 7	F	AG1	20.0		20.0	15.5	20.0	20.0	23.0
LTE Band 48	F	AG1	19.0		19.0	14.5	19.0	19.0	21.0
LTE Band 41/38 (PC3)	B	AG0	24.4		21.0	28.2	21.0	21.0	22.0
LTE Band 41 (PC2)	B	AG0	24.4		21.0	28.2	21.0	21.0	21.9
LTE Band 41/38 (PC3)	F	AG1	19.5		19.5	15.0	19.5	19.5	22.0
LTE Band 41 (PC2)	F	AG1	19.5		19.5	15.0	19.5	19.5	21.9
NR Band n71	A	AG0	28.9		27.3	30.8	27.0	27.3	24.5
NR Band n12	A	AG0	28.8		26.2	30.6	26.2	26.2	24.5
NR Band n26	A	AG0	28.9		26.4	23.0	26.4	26.4	24.5
NR Band n5	A	AG0	28.9		26.4	23.0	26.4	26.4	24.5
NR Band n66	A	AG0	25.6		21.0	31.5	19.0	21.0	23.5
NR Band n66	F	AG1	20.5		20.5	16.0	20.5	20.5	23.0
NR Band n25/n2 (PCS)	A	AG0	26.0		21.5	32.0	19.5	21.5	23.5
NR Band n25/n2 (PCS)	F	AG1	21.5		21.5	17.0	21.5	21.5	23.0
NR Band n30	A	AG0	26.2		21.0	32.1	19.0	21.0	22.5
NR Band n30	F	AG1	19.5		19.5	15.5	19.5	19.5	22.0
NR Band n7	B	AG0	24.1		21.5	28.4	21.0	21.5	23.0
NR Band n7	F	AG1	20.0		20.0	16.0	20.0	20.0	23.0
NR Band n41 Path 1 (PC2)	F	AG1	19.5		19.5	16.5	19.5	19.5	26.0
NR Band n41 Path 2 (PC2)	F	AG1	16.5		16.5	16.0	16.5	16.5	17.5
NR Band n41 Path 1 (PC2)	B	AG0	15.5		15.5	15.5	15.5	15.5	19.0
NR Band n41 Path 2 (PC2)	B	AG0	21.0		21.0	21.0	21.0	21.0	26.0
NR Band n41 Path 1 (PC2)	E	AG1	18.0		18.0	17.0	18.0	18.0	21.5
NR Band n41 Path 2 (PC2)	E	AG1	16.5		16.5	15.5	16.5	16.5	20.0
NR Band n41 Path 1 (PC2)	D	AG0	12.5		12.5	12.5	12.5	12.5	16.0
NR Band n41 Path 2 (PC2)	D	AG0	17.0		17.0	17.0	17.0	17.0	17.0
NR Band n38	F	AG1	19.5		19.5	16.5	19.5	19.5	24.0
NR Band n38	B	AG0	21.0		21.0	21.0	21.0	21.0	24.0
NR Band n48	F	AG1	19.0		19.0	15.0	19.0	19.0	23.0
NR Band n48	C	AG0	15.5		15.5	15.5	15.5	15.5	19.0
NR Band n48	I	AG1	15.5		15.5	10.5	15.5	15.5	19.0
NR Band n48	D	AG0	13.5		13.5	13.5	13.5	13.5	17.5
NR Band n77 DoD (PC2)	F	AG1	17.0		17.0	15.0	17.0	17.0	26.0
NR Band n77 DoD (PC2)	C	AG0	13.0		13.0	13.0	13.0	13.0	21.0
NR Band n77 DoD (PC2)	I	AG1	13.5		13.5	13.5	13.5	13.5	22.0
NR Band n77 DoD (PC2)	D	AG0	11.5		11.5	11.5	11.5	11.5	20.5
NR Band n77 (PC2)	F	AG1	17.0		17.0	15.0	17.0	17.0	26.0
NR Band n77 (PC2)	C	AG0	13.0		13.0	13.0	13.0	13.0	21.0
NR Band n77 (PC2)	I	AG1	13.5		13.5	13.5	13.5	13.5	22.0
NR Band n77 (PC2)	D	AG0	11.5		11.5	11.5	11.5	11.5	20.5

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*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 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 D04v01.

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

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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 D04v01.

Note: Targets for 802.11ax RU operations can be found in 802.11ax RU SAR Exclusion Appendix.

1.4.1 WWAN Output Power

GSM/GPRS/EDGE 850										
Power Level		Voice (in dBm)	Data - Burst Average GMSK (in dBm)				Data - Burst Average 8-PSK (in dBm)			
		1 TX Slot	1 TX Slots	2 TX Slots	3 TX Slots	4 TX Slots	1 TX Slots	2 TX Slots	3 TX Slots	4 TX Slots
Pmax	Max Allowed Power	33.0	33.0	32.5	30.5	28.5	28.0	26.0	24.0	23.0
	Nominal	32.0	32.0	31.5	29.5	27.5	27.0	25.0	23.0	22.0
DSI = 0 (Body-Worn or Phablet Max)	Max Allowed Power	33.0	33.0	32.5	30.5	28.5	28.0	26.0	24.0	23.0
	Nominal	32.0	32.0	31.5	29.5	27.5	27.0	25.0	23.0	22.0
DSI = 1 (Phablet Reduced)	Max Allowed Power	33.0	33.0	32.5	30.5	28.5	28.0	26.0	24.0	23.0
	Nominal	32.0	32.0	31.5	29.5	27.5	27.0	25.0	23.0	22.0
DSI = 2 (Head)	Max Allowed Power	33.0	33.0	32.5	30.5	28.5	28.0	26.0	24.0	23.0
	Nominal	32.0	32.0	31.5	29.5	27.5	27.0	25.0	23.0	22.0
DSI = 3 (Hotspot)	Max Allowed Power	N/A	33.0	32.5	30.5	28.5	28.0	26.0	24.0	23.0
	Nominal	N/A	32.0	31.5	29.5	27.5	27.0	25.0	23.0	22.0
DSI = 4 (Earjack)	Max Allowed Power	33.0	33.0	32.5	30.5	28.5	28.0	26.0	24.0	23.0
	Nominal	32.0	32.0	31.5	29.5	27.5	27.0	25.0	23.0	22.0
GSM/GPRS/EDGE 1900										
Power Level		Voice (in dBm)	Data - Burst Average GMSK (in dBm)				Data - Burst Average 8-PSK (in dBm)			
		1 TX Slot	1 TX Slots	2 TX Slots	3 TX Slots	4 TX Slots	1 TX Slots	2 TX Slots	3 TX Slots	4 TX Slots
Pmax	Max Allowed Power	30.0	30.0	29.0	27.5	25.5	27.0	25.0	23.0	22.0
	Nominal	29.0	29.0	28.0	26.5	24.5	26.0	24.0	22.0	21.0
DSI = 0 (Body-Worn or Phablet Max)	Max Allowed Power	30.0	30.0	29.0	27.5	25.5	27.0	25.0	23.0	22.0
	Nominal	29.0	29.0	28.0	26.5	24.5	26.0	24.0	22.0	21.0
DSI = 1 (Phablet Reduced)	Max Allowed Power	30.0	30.0	29.0	27.5	25.5	27.0	25.0	23.0	22.0
	Nominal	29.0	29.0	28.0	26.5	24.5	26.0	24.0	22.0	21.0
DSI = 2 (Head)	Max Allowed Power	30.0	30.0	29.0	27.5	25.5	27.0	25.0	23.0	22.0
	Nominal	29.0	29.0	28.0	26.5	24.5	26.0	24.0	22.0	21.0
DSI = 3 (Hotspot)	Max Allowed Power	N/A	29.0	26.0	24.2	23.0	27.0	25.0	23.0	22.0
	Nominal	N/A	28.0	25.0	23.2	22.0	26.0	24.0	22.0	21.0
DSI = 4 (Earjack)	Max Allowed Power	30.0	30.0	29.0	27.5	25.5	27.0	25.0	23.0	22.0
	Nominal	29.0	29.0	28.0	26.5	24.5	26.0	24.0	22.0	21.0

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

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UMTS Band 5 (850 MHz)					
Power Level		Modulated Average Output Power			
		3GPP WCDMA Rel 99	3GPP HSDPA Rel 5	3GPP HSUPA Rel 6	3GPP DC-HSDPA Rel 8
Pmax	Max Allowed Power	25.0	24.0	24.0	24.0
	Nominal	24.0	23.0	23.0	23.0
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	25.0	24.0	24.0	24.0
	Nominal	24.0	23.0	23.0	23.0
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			
		3GPP WCDMA Rel 99	3GPP HSDPA Rel 5	3GPP HSUPA Rel 6	3GPP DC-HSDPA Rel 8
Pmax	Max Allowed Power	24.0	23.0	23.0	23.0
	Nominal	23.0	22.0	22.0	22.0
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	20.0	19.0	19.0	19.0
	Nominal	19.0	18.0	18.0	18.0
DSI = 4 (Earjack)	Max Allowed Power	22.0	21.0	21.0	21.0
	Nominal	21.0	20.0	20.0	20.0
UMTS Band 2 (1900 MHz)					
Power Level		Modulated Average Output Power			
		3GPP WCDMA Rel 99	3GPP HSDPA Rel 5	3GPP HSUPA Rel 6	3GPP DC-HSDPA Rel 8
Pmax	Max Allowed Power	24.0	23.0	23.0	23.0
	Nominal	23.0	22.0	22.0	22.0
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	20.0	19.0	19.0	19.0
	Nominal	19.0	18.0	18.0	18.0
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	Antenna		Modulated Average Output Power (in dBm)					
			Pmax	DSI = 0 (Body- Worn or Phablet Max)	DSI = 1 (Phablet Reduced)	DSI = 2 (Head)	DSI = 3 (Hotspot)	DSI = 4 (Earjack)
LTE Band 71	A	Max Allowed	25.5	25.5	25.5	25.5	25.5	25.5
		Nominal	24.5	24.5	24.5	24.5	24.5	24.5
LTE Band 12	A	Max Allowed	25.5	25.5	25.5	25.5	25.5	25.5
		Nominal	24.5	24.5	24.5	24.5	24.5	24.5
LTE Band 13	A	Max Allowed	25.5	25.5	25.5	25.5	25.5	25.5
		Nominal	24.5	24.5	24.5	24.5	24.5	24.5
LTE Band 14	A	Max Allowed	25.5	25.5	25.5	25.5	25.5	25.5
		Nominal	24.5	24.5	24.5	24.5	24.5	24.5
LTE Band 26 (Cell)	A	Max Allowed	25.5	25.5	25.5	25.5	25.5	25.5
		Nominal	24.5	24.5	24.5	24.5	24.5	24.5
LTE Band 5 (Cell)	A	Max Allowed	25.5	25.5	25.5	25.5	25.5	25.5
		Nominal	24.5	24.5	24.5	24.5	24.5	24.5
LTE Band 66 (AWS)	A	Max Allowed	24.5	24.5	22.0	24.5	20.0	22.0
		Nominal	23.5	23.5	21.0	23.5	19.0	21.0
LTE Band 66 (AWS)	F	Max Allowed	24.5	21.5	21.5	16.5	21.5	21.5
		Nominal	23.5	20.5	20.5	15.5	20.5	20.5
LTE Band 4 (AWS)	A	Max Allowed	24.5	24.5	22.0	24.5	20.0	22.0
		Nominal	23.5	23.5	21.0	23.5	19.0	21.0
LTE Band 4 (AWS)	F	Max Allowed	24.5	21.5	21.5	16.5	21.5	21.5
		Nominal	23.5	20.5	20.5	15.5	20.5	20.5
LTE Band 25 (PCS)	A	Max Allowed	24.5	24.5	22.5	24.5	20.5	22.5
		Nominal	23.5	23.5	21.5	23.5	19.5	21.5
LTE Band 25 (PCS)	F	Max Allowed	24.5	22.5	22.5	18.0	22.5	22.5
		Nominal	23.5	21.5	21.5	17.0	21.5	21.5
LTE Band 2 (PCS)	A	Max Allowed	24.5	24.5	22.5	24.5	20.5	22.5
		Nominal	23.5	23.5	21.5	23.5	19.5	21.5
LTE Band 2 (PCS)	F	Max Allowed	24.5	22.5	22.5	18.0	22.5	22.5
		Nominal	23.5	21.5	21.5	17.0	21.5	21.5
LTE Band 30	A	Max Allowed	23.1	23.1	22.0	23.1	20.0	22.0
		Nominal	22.1	22.1	21.0	22.1	19.0	21.0
LTE Band 30	F	Max Allowed	22.0	20.5	20.5	16.5	20.5	20.5
		Nominal	21.0	19.5	19.5	15.5	19.5	19.5
LTE Band 7	B	Max Allowed	24.0	24.0	22.5	24.0	22.0	22.5
		Nominal	23.0	23.0	21.5	23.0	21.0	21.5
LTE Band 7	F	Max Allowed	24.0	21.0	21.0	16.5	21.0	21.0
		Nominal	23.0	20.0	20.0	15.5	20.0	20.0
LTE Band 48	F	Max Allowed	24.0	22.0	22.0	17.5	22.0	22.0
		Nominal	23.0	21.0	21.0	16.5	21.0	21.0
LTE Band 41 (PC3)	B	Max Allowed	25.0	25.0	24.0	25.0	24.0	24.0
		Nominal	24.0	24.0	23.0	24.0	23.0	23.0
LTE Band 41 (PC2)	B	Max Allowed	26.5	26.5	25.6	26.5	25.6	25.6
		Nominal	25.5	25.5	24.6	25.5	24.6	24.6
LTE Band 41 (PC3)	F	Max Allowed	25.0	22.5	22.5	18.0	22.5	22.5
		Nominal	24.0	21.5	21.5	17.0	21.5	21.5
LTE Band 41 (PC2)	F	Max Allowed	26.5	24.1	24.1	19.6	24.1	24.1
		Nominal	25.5	23.1	23.1	18.6	23.1	23.1
LTE Band 38	B	Max Allowed	25.0	25.0	24.0	25.0	24.0	24.0
		Nominal	24.0	24.0	23.0	24.0	23.0	23.0
LTE Band 38	F	Max Allowed	25.0	22.5	22.5	18.0	22.5	22.5
		Nominal	24.0	21.5	21.5	17.0	21.5	21.5

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Mode / Band	Antenna		Modulated Average Output Power (in dBm)					
			Pmax	DSI = 0 (Body-Worn or Phablet Max)	DSI = 1 (Phablet Reduced)	DSI = 2 (Head)	DSI = 3 (Hotspot)	DSI = 4 (Earjack)
NR Band n71	A	Max Allowed	25.5	25.5	25.5	25.5	25.5	25.5
		Nominal	24.5	24.5	24.5	24.5	24.5	24.5
NR Band n12	A	Max Allowed	25.5	25.5	25.5	25.5	25.5	25.5
		Nominal	24.5	24.5	24.5	24.5	24.5	24.5
NR Band n26	A	Max Allowed	25.5	25.5	25.5	24.0	25.5	25.5
		Nominal	24.5	24.5	24.5	23.0	24.5	24.5
NR Band n5	A	Max Allowed	25.5	25.5	25.5	24.0	25.5	25.5
		Nominal	24.5	24.5	24.5	23.0	24.5	24.5
NR Band n66	A	Max Allowed	24.5	24.5	22.0	24.5	20.0	22.0
		Nominal	23.5	23.5	21.0	23.5	19.0	21.0
NR Band n66	F	Max Allowed	24.0	21.5	21.5	17.0	21.5	21.5
		Nominal	23.0	20.5	20.5	16.0	20.5	20.5
NR Band n25	A	Max Allowed	24.5	24.5	22.5	24.5	20.5	22.5
		Nominal	23.5	23.5	21.5	23.5	19.5	21.5
NR Band n25	F	Max Allowed	24.0	22.5	22.5	18.0	22.5	22.5
		Nominal	23.0	21.5	21.5	17.0	21.5	21.5
NR Band n2 (PCS)	A	Max Allowed	24.5	24.5	22.5	24.5	20.5	22.5
		Nominal	23.5	23.5	21.5	23.5	19.5	21.5
NR Band n2 (PCS)	F	Max Allowed	24.0	22.5	22.5	18.0	22.5	22.5
		Nominal	23.0	21.5	21.5	17.0	21.5	21.5
NR Band n30	A	Max Allowed	23.5	23.5	22.0	23.5	20.0	22.0
		Nominal	22.5	22.5	21.0	22.5	19.0	21.0
NR Band n30	F	Max Allowed	23.0	20.5	20.5	16.5	20.5	20.5
		Nominal	22.0	19.5	19.5	15.5	19.5	19.5
NR Band n7	B	Max Allowed	24.0	24.0	22.5	24.0	22.0	22.5
		Nominal	23.0	23.0	21.5	23.0	21.0	21.5
NR Band n7	F	Max Allowed	24.0	21.0	21.0	17.0	21.0	21.0
		Nominal	23.0	20.0	20.0	16.0	20.0	20.0
NR Band n41 Path 1 (PC2)	F	Max Allowed	27.0	20.5	20.5	17.5	20.5	20.5
		Nominal	26.0	19.5	19.5	16.5	19.5	19.5
NR Band n41 Path 2 (PC2)	F	Max Allowed	18.5	17.5	17.5	17.0	17.5	17.5
		Nominal	17.5	16.5	16.5	16.0	16.5	16.5
NR Band n41 Path 1 (PC2)	B	Max Allowed	20.0	16.5	16.5	16.5	16.5	16.5
		Nominal	19.0	15.5	15.5	15.5	15.5	15.5
NR Band n41 Path 2 (PC2)	B	Max Allowed	27.0	22.0	22.0	22.0	22.0	22.0
		Nominal	26.0	21.0	21.0	21.0	21.0	21.0
NR Band n41 Path 1 (PC2)	E	Max Allowed	22.5	19.0	19.0	18.0	19.0	19.0
		Nominal	21.5	18.0	18.0	17.0	18.0	18.0
NR Band n41 Path 2 (PC2)	E	Max Allowed	21.0	17.5	17.5	16.5	17.5	17.5
		Nominal	20.0	16.5	16.5	15.5	16.5	16.5
NR Band n41 Path 1 (PC2)	D	Max Allowed	17.0	13.5	13.5	13.5	13.5	13.5
		Nominal	16.0	12.5	12.5	12.5	12.5	12.5
NR Band n41 Path 2 (PC2)	D	Max Allowed	18.0	18.0	18.0	18.0	18.0	18.0
		Nominal	17.0	17.0	17.0	17.0	17.0	17.0
NR Band n38	F	Max Allowed	25.0	20.5	20.5	17.5	20.5	20.5
		Nominal	24.0	19.5	19.5	16.5	19.5	19.5
NR Band n38	B	Max Allowed	25.0	22.0	22.0	22.0	22.0	22.0
		Nominal	24.0	21.0	21.0	21.0	21.0	21.0
NR Band n48	F	Max Allowed	24.0	20.0	20.0	16.0	20.0	20.0
		Nominal	23.0	19.0	19.0	15.0	19.0	19.0
NR Band n48	C	Max Allowed	20.0	16.5	16.5	16.5	16.5	16.5
		Nominal	19.0	15.5	15.5	15.5	15.5	15.5
NR Band n48	I	Max Allowed	20.0	16.5	16.5	11.5	16.5	16.5
		Nominal	19.0	15.5	15.5	10.5	15.5	15.5
NR Band n48	D	Max Allowed	18.5	14.5	14.5	14.5	14.5	14.5
		Nominal	17.5	13.5	13.5	13.5	13.5	13.5
NR Band n77 DoD PC2	F	Max Allowed	27.0	18.0	18.0	16.0	18.0	18.0
		Nominal	26.0	17.0	17.0	15.0	17.0	17.0
NR Band n77 DoD PC2	C	Max Allowed	22.0	14.0	14.0	14.0	14.0	14.0
		Nominal	21.0	13.0	13.0	13.0	13.0	13.0
NR Band n77 DoD PC2	I	Max Allowed	23.0	14.5	14.5	14.5	14.5	14.5
		Nominal	22.0	13.5	13.5	13.5	13.5	13.5
NR Band n77 DoD PC2	D	Max Allowed	21.5	12.5	12.5	12.5	12.5	12.5
		Nominal	20.5	11.5	11.5	11.5	11.5	11.5
NR Band n77 PC2	F	Max Allowed	27.0	18.0	18.0	16.0	18.0	18.0
		Nominal	26.0	17.0	17.0	15.0	17.0	17.0
NR Band n77 PC2	C	Max Allowed	22.0	14.0	14.0	14.0	14.0	14.0
		Nominal	21.0	13.0	13.0	13.0	13.0	13.0
NR Band n77 PC2	I	Max Allowed	23.0	14.5	14.5	14.5	14.5	14.5
		Nominal	22.0	13.5	13.5	13.5	13.5	13.5
NR Band n77 PC2	D	Max Allowed	21.5	12.5	12.5	12.5	12.5	12.5
		Nominal	20.5	11.5	11.5	11.5	11.5	11.5

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

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1.4.2 2.4 GHz Maximum SISO/MIMO WLAN Output Power

Mode	Band	IEEE 802.11 (in dBm)															
		SISO								MIMO							
		Antenna 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
						ch. 1: 16.0	15.0	ch. 1: 15.5	14.5					ch. 1: 19.0	18.0	ch. 1: 18.5	17.5
						ch. 11: 16.0	15.0	ch. 10: 17.0	16.0					ch. 11: 19.0	18.0	ch. 10: 20.0	19.0
								ch. 11: 15.5	14.5							ch. 11: 18.5	17.5

1.4.3 2.4 GHz Reduced WLAN Output Powers

The below table is applicable in the following conditions:

- Simultaneous conditions with 5G FR1/FR2 NR (RCV not Active)

Mode	Band	IEEE 802.11 (in dBm)															
		SISO								MIMO							
		Antenna 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	17.0	16.0	17.0	16.0	17.0	16.0	17.0	16.0	20.0	19.0	20.0	19.0	20.0	19.0	20.0	19.0
						ch. 1: 16.0	15.0	ch. 1: 15.5	14.5					ch. 1: 19.0	18.0	ch. 1: 18.5	17.5
						ch. 11: 16.0	15.0	ch. 11: 15.5	14.5					ch. 11: 19.0	18.0	ch. 11: 18.5	17.5

The below table is applicable in the following conditions:

- Simultaneous conditions with 5/6 GHz WLAN (RCV not Active)

Mode	Band	IEEE 802.11 (in dBm)															
		SISO								MIMO							
		Antenna 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

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The below table is applicable in the following conditions:

- RCV Active

Mode	Band	IEEE 802.11 (in dBm)															
		SISO								MIMO							
		Antenna 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	12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0	15.0	14.0	15.0	14.0	15.0	14.0	15.0	14.0

The below table is applicable in the following conditions:

- RCV Active during simultaneous conditions with 5G NR
- Simultaneous conditions with 5G FR1/FR2 NR and 5/6 GHz WLAN (RCV not Active)
- RCV Active during simultaneous conditions with 5/6 GHz WLAN
- RCV Active during simultaneous conditions with 5G NR and 5/6 GHz WLAN

Mode	Band	IEEE 802.11 (in dBm)															
		SISO								MIMO							
		Antenna 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	10.0	9.0	10.0	9.0	10.0	9.0	10.0	9.0	13.0	12.0	13.0	12.0	13.0	12.0	13.0	12.0

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1.4.4 5 GHz Maximum MIMO WLAN Output Power

Mode	Band	IEEE 802.11 (in dBm)							
		MIMO							
		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.
5 GHz WIFI (20MHz BW)	UNII-1	21.0	20.0	21.0	20.0	21.0	20.0	21.0	20.0
	UNII-2A	21.0	20.0	21.0	20.0	21.0	20.0	21.0	20.0
	UNII-2C	21.0	20.0	21.0	20.0	21.0	20.0	21.0	20.0
	UNII-3	21.0	20.0	21.0	20.0	21.0	20.0	21.0	20.0
	UNII-4	21.0	20.0	21.0	20.0	21.0	20.0	21.0	20.0
5 GHz WIFI (40MHz BW)	UNII-1			20.0	19.0	20.0	19.0	20.0	19.0
	UNII-2A			20.0	19.0	20.0	19.0	20.0	19.0
	UNII-2C			20.0	19.0	20.0	19.0	20.0	19.0
	UNII-3			20.0	19.0	20.0	19.0	20.0	19.0
	UNII-4			20.0	19.0	20.0	19.0	20.0	19.0
5 GHz WIFI (80MHz BW)	UNII-1					19.0	18.0	19.0	18.0
	UNII-2A					19.0	18.0	19.0	18.0
	UNII-2C					19.0	18.0	19.0	18.0
	UNII-3					19.0	18.0	19.0	18.0
	UNII-4					19.0	18.0	19.0	18.0
5 GHz WIFI (160MHz BW)	UNII1/2A					19.0	18.0	19.0	18.0
	UNII2C					19.0	18.0	19.0	18.0
	UNII-3/4					19.0	18.0	19.0	18.0

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1.4.5 5 GHz Reduced WLAN Output Powers

The below table is applicable in the following conditions:

- Simultaneous conditions with 5G FR1/FR2 NR
- Simultaneous conditions with 2.4 GHz WLAN
- RCV Active

Mode	Band	IEEE 802.11 (in dBm)							
		MIMO							
		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.
5 GHz WIFI (20MHz BW)	UNII-1	17.0	16.0	17.0	16.0	17.0	16.0	17.0	16.0
	UNII-2A	17.0	16.0	17.0	16.0	17.0	16.0	17.0	16.0
	UNII-2C	17.0	16.0	17.0	16.0	17.0	16.0	17.0	16.0
	UNII-3	17.0	16.0	17.0	16.0	17.0	16.0	17.0	16.0
	UNII-4	17.0	16.0	17.0	16.0	17.0	16.0	17.0	16.0
5 GHz WIFI (40MHz BW)	5200 MHz			17.0	16.0	17.0	16.0	17.0	16.0
	5300 MHz			17.0	16.0	17.0	16.0	17.0	16.0
	5500 MHz			17.0	16.0	17.0	16.0	17.0	16.0
	5800 MHz			17.0	16.0	17.0	16.0	17.0	16.0
	UNII-4			17.0	16.0	17.0	16.0	17.0	16.0
5 GHz WIFI (80MHz BW)	UNII-1					17.0	16.0	17.0	16.0
	UNII-2A					17.0	16.0	17.0	16.0
	UNII-2C					17.0	16.0	17.0	16.0
	UNII-3					17.0	16.0	17.0	16.0
	UNII-4					17.0	16.0	17.0	16.0
5 GHz WIFI (160MHz BW)	UNII1/2A					17.0	16.0	17.0	16.0
	UNII2C					17.0	16.0	17.0	16.0
	UNII-3/4					17.0	16.0	17.0	16.0

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The below table is applicable in the following conditions:

- RCV Active during simultaneous conditions with 5G FR1/FR2 NR
- Simultaneous conditions with 5G FR1/FR2 NR and 2.4 GHz WLAN

Mode	Band	IEEE 802.11 (in dBm)							
		MIMO							
		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.
5 GHz WIFI (20MHz BW)	UNII-1	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0
	UNII-2A	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0
	UNII-2C	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0
	UNII-3	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0
	UNII-4	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0
5 GHz WIFI (40MHz BW)	5200 MHz			14.0	13.0	14.0	13.0	14.0	13.0
	5300 MHz			14.0	13.0	14.0	13.0	14.0	13.0
	5500 MHz			14.0	13.0	14.0	13.0	14.0	13.0
	5800 MHz			14.0	13.0	14.0	13.0	14.0	13.0
	UNII-4			14.0	13.0	14.0	13.0	14.0	13.0
5 GHz WIFI (80MHz BW)	UNII-1					14.0	13.0	14.0	13.0
	UNII-2A					14.0	13.0	14.0	13.0
	UNII-2C					14.0	13.0	14.0	13.0
	UNII-3					14.0	13.0	14.0	13.0
	UNII-4					14.0	13.0	14.0	13.0
5 GHz WIFI (160MHz BW)	UNII1/2A					14.0	13.0	14.0	13.0
	UNII2C					14.0	13.0	14.0	13.0
	UNII-3/4					14.0	13.0	14.0	13.0

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The below table is applicable in the following conditions:

- RCV Active during simultaneous conditions with 2.4 GHz WLAN
- RCV Active during simultaneous conditions with 5G FR1/FR2 NR and 2.4 GHz WLAN

Mode	Band	IEEE 802.11 (in dBm)							
		MIMO							
		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.
5 GHz WIFI (20MHz BW)	UNII-1	12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0
	UNII-2A	12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0
	UNII-2C	12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0
	UNII-3	12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0
	UNII-4	12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0
5 GHz WIFI (40MHz BW)	5200 MHz			12.0	11.0	12.0	11.0	12.0	11.0
	5300 MHz			12.0	11.0	12.0	11.0	12.0	11.0
	5500 MHz			12.0	11.0	12.0	11.0	12.0	11.0
	5800 MHz			12.0	11.0	12.0	11.0	12.0	11.0
	UNII-4			12.0	11.0	12.0	11.0	12.0	11.0
5 GHz WIFI (80MHz BW)	UNII-1					12.0	11.0	12.0	11.0
	UNII-2A					12.0	11.0	12.0	11.0
	UNII-2C					12.0	11.0	12.0	11.0
	UNII-3					12.0	11.0	12.0	11.0
	UNII-4					12.0	11.0	12.0	11.0
5 GHz WIFI (160MHz BW)	UNII1/2A					12.0	11.0	12.0	11.0
	UNII2C					12.0	11.0	12.0	11.0
	UNII-3/4					12.0	11.0	12.0	11.0

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1.4.6 2.4 GHz Maximum Bluetooth Output Power

Mode	Single Antenna			
	Antenna 1		Antenna 2	
	Maximum	Nominal	Maximum	Nominal
Bluetooth (in dBm)	15.5	14.5	15.5	14.5
Bluetooth EDR (in dBm)	12.5	11.5	12.0	11.0
Bluetooth LE 1Mbps/2Mbps (in dBm)	15.5	14.5	15.5	14.5
Bluetooth LE 1Mbps, 125/500 kbps (in dBm)	8.0	7.0		

1.4.7 2.4 GHz Reduced Bluetooth Output Power

The below table is applicable in the following conditions:

- RCV active

Mode	Single Antenna			
	Antenna 1		Antenna 2	
	Maximum	Nominal	Maximum	Nominal
Bluetooth (in dBm)	11.0	10.0	11.0	10.0
Bluetooth EDR (in dBm)	11.0	10.0	11.0	10.0
Bluetooth LE 1Mbps/2Mbps (in dBm)	11.0	10.0	11.5	10.5
Bluetooth LE 1Mbps, 125/500 kbps (in dBm)	8.0	7.0		

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1.5 DUT Antenna Locations

The overall dimensions of this device are > 9 x 5 cm. A diagram showing the location of the device antennas can be found in DUT Antenna Diagram & SAR Test Setup Photographs Appendix. Since the display diagonal dimension of this device is > 150 mm and <200 mm, it is considered a “phablet.” Exact antenna dimensions and separation distances are shown in the Technical Descriptions in the FCC filing.

Table 1-1
Device Edges/Sides for SAR Testing

Device Sides/Edges for SAR Testing							
Mode	Antenna	Back	Front	Top	Bottom	Right	Left
GPRS 850	A	Yes	Yes	No	Yes	Yes	Yes
GPRS 1900	A	Yes	Yes	No	Yes	Yes	Yes
UMTS 850	A	Yes	Yes	No	Yes	Yes	Yes
UMTS 1750	A	Yes	Yes	No	Yes	Yes	Yes
UMTS 1900	A	Yes	Yes	No	Yes	Yes	Yes
LTE Band 71	A	Yes	Yes	No	Yes	Yes	Yes
LTE Band 12	A	Yes	Yes	No	Yes	Yes	Yes
LTE Band 13	A	Yes	Yes	No	Yes	Yes	Yes
LTE Band 14	A	Yes	Yes	No	Yes	Yes	Yes
LTE Band 26 (Cell)	A	Yes	Yes	No	Yes	Yes	Yes
LTE Band 5 (Cell)	A	Yes	Yes	No	Yes	Yes	Yes
LTE Band 66 (AWS)	A	Yes	Yes	No	Yes	Yes	Yes
LTE Band 25 (PCS)	A	Yes	Yes	No	Yes	Yes	Yes
LTE Band 30	A	Yes	Yes	No	Yes	Yes	Yes
LTE Band 7	B	Yes	Yes	No	Yes	No	Yes
LTE Band 41	B	Yes	Yes	No	Yes	No	Yes
LTE Band 48	F	Yes	Yes	Yes	No	No	Yes
LTE Band 66 (AWS)	F	Yes	Yes	Yes	No	No	Yes
LTE Band 25 (PCS)	F	Yes	Yes	Yes	No	No	Yes
LTE Band 30	F	Yes	Yes	Yes	No	No	Yes
LTE Band 7	F	Yes	Yes	Yes	No	No	Yes
LTE Band 41	F	Yes	Yes	Yes	No	No	Yes
NR Band n71	A	Yes	Yes	No	Yes	Yes	Yes
NR Band n12	A	Yes	Yes	No	Yes	Yes	Yes
NR Band n26 (Cell)	A	Yes	Yes	No	Yes	Yes	Yes
NR Band n66 (AWS)	A	Yes	Yes	No	Yes	Yes	Yes
NR Band n25 (PCS)	A	Yes	Yes	No	Yes	Yes	Yes
NR Band n30	A	Yes	Yes	No	Yes	Yes	Yes
NR Band n7	B	Yes	Yes	No	Yes	No	Yes
NR Band n66 (AWS)	F	Yes	Yes	Yes	No	No	Yes
NR Band n25 (PCS)	F	Yes	Yes	Yes	No	No	Yes
NR Band n30	F	Yes	Yes	Yes	No	No	Yes
NR Band n7	F	Yes	Yes	Yes	No	No	Yes
NR Band n41	F	Yes	Yes	Yes	No	No	Yes
NR Band n41	B	Yes	Yes	No	Yes	No	Yes
NR Band n41	E	Yes	Yes	Yes	No	Yes	No
NR Band n41	D	Yes	Yes	No	Yes	Yes	No
NR Band n48	F	Yes	Yes	Yes	No	No	Yes
NR Band n48	C	Yes	Yes	No	Yes	No	Yes
NR Band n48	I	Yes	Yes	No	No	No	Yes
NR Band n48	D	Yes	Yes	No	Yes	Yes	No
NR Band n77 DoD	F	Yes	Yes	Yes	No	No	Yes
NR Band n77 DoD	C	Yes	Yes	No	Yes	No	Yes
NR Band n77 DoD	I	Yes	Yes	No	No	No	Yes
NR Band n77 DoD	D	Yes	Yes	No	Yes	Yes	No
NR Band n77	F	Yes	Yes	Yes	No	No	Yes
NR Band n77	C	Yes	Yes	No	Yes	No	Yes
NR Band n77	I	Yes	Yes	No	No	No	Yes
NR Band n77	D	Yes	Yes	No	Yes	Yes	No
2.4 GHz WLAN	2	Yes	Yes	Yes	No	Yes	No
2.4 GHz WLAN	MIMO	Yes	Yes	Yes	No	Yes	Yes
5 GHz WLAN	MIMO	Yes	Yes	Yes	No	Yes	Yes
Bluetooth	1	Yes	Yes	Yes	No	No	Yes
Bluetooth	2	Yes	Yes	Yes	No	Yes	No
NFC	NFC	Yes	Yes	No	No	Yes	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, U-NII-4, and WIFI6E operations are disabled.
- Additional edges may have been evaluated for simultaneous transmission analysis.

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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 DUT Antenna Diagram & SAR Test Setup Photographs Appendix.

1.7 Simultaneous Transmission Capabilities

According to FCC KDB Publication 447498 D04v01, 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 D04v01 procedures.

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Table 1-2
Simultaneous Transmission Scenarios

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

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1. No other simultaneous scenarios besides described above is supported for this model.
2. 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.
3. 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.
4. 5 GHz Wireless Router is only supported for the U-NII-3 by S/W, therefore U-NII-1, U-NII-2A, U-NII-2C, and U-NII-4 were not evaluated for wireless router conditions.
5. 6 GHz Wireless Router is not supported, therefore it was not evaluated for wireless router conditions.
6. This device supports 2x2 MIMO Tx for WLAN 802.11a/b/g/n/ac/ax. 802.11a/b/g/n/ac/ax supports CDD and STBC and 802.11n/ac/ax additionally supports SDM.
7. This device supports VoWIFI.
8. This device supports Bluetooth Tethering on Ant 1 only.
9. This device supports VoLTE.
10. This device supports VoNR.
11. LTE + 5G NR FR1 Scenarios are limited to EN-DC combinations with anchor bands as shown in the NR FR1 checklist.
12. 5G NR FR2 n258, n260, and n261 cannot transmit simultaneously.
13. LTE + 5G NR FR2 Scenarios are limited to EN-DC combinations with anchor bands as shown in the NR FR2 checklist.
14. NFC were evaluated for phablet based on expected usage conditions.

1.8 Miscellaneous SAR Test Considerations

(A) WIFI/BT

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

Since Wireless Router operations are not allowed by the chipset firmware using U-NII-1, U-NII-2A, U-NII-2C, and U-NII-4 WIFI, only 2.4 GHz WIFI, 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 160 MHz Bandwidth only for 5/6 GHz
- b) Up to 20 MHz Bandwidth only for 2.4 GHz
- c) 2 Tx antenna output
- d) Up to 1024 QAM is supported
- e) TDWR and Band gap channels are supported for 5/6 GHz
- f) MU-MIMO UL Operations are not supported

Per FCC KDB Publication 648474 D04v01r03, this device is considered a "phablet" since the display diagonal dimension is greater than 150mm 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, and U-NII-4 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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This device supports 6 GHz WIFI Operations. RF Exposure assessment for these bands can be found in the WIFI 6E RF Exposure Report (report SN can be found in Section 1.11 – Bibliography). Simultaneous transmission analysis is addressed in Multi-Tx and Antenna SAR Considerations Appendix of this report.

(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.

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 Downlink LTE CA RF Conducted Powers Appendix.

Per FCC KDB Publication 648474 D04v01r03, this device is considered a "phablet" since the display diagonal dimension is greater than 150mm 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 13).

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

This device can transmit with antenna F for LTE B2/4/7/25/30/38/41/66 and NR Band n2/25/7/30/66, or antenna B for NR Band n38/41. SAR tests for antenna F and antenna B respectively were additionally performed for these LTE and NR bands to ensure compliance.

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This device uses two transmit pathways for n41 operations (Path 1 and Path 2). For each exposure condition, the pathway with the highest target power was fully evaluated. The worst case for each antenna and exposure condition was additionally evaluated using the other path.

This device supports 5G NR for Bands n258, 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.

Per FCC Guidance, C-Band for NR n77 (3705 – 3975 MHz) was fully tested according to FCC procedures. For each exposure condition and antenna, the worst-case position was additionally evaluated for the NR n77 DoD (3455.01 – 3544.98 MHz).

SRS was tested with CW signal per Qualcomm guidance in 80-w2112-4.

1.9 Guidance Applied

- IEEE 1528-2013
- FCC KDB Publication 941225 D01v03r01, D05v02r05, D05Av01r02, D06v02r01 (2G/3G/4G and Hotspot)
- FCC KDB Publication 248227 D01v02r02 (SAR Considerations for 802.11 Devices)
- FCC KDB Publication 447498 D04v01 (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)
- November 2017, April 2018, October 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
Near Field PD Report (Part 1)	1M2209010096-25.A3L
Near Field PD Part 0 Report	
RF Exposure Part 2 Test Report	1M2209010096-26.A3L
RF Exposure Compliance Summary Report	1M2209010096-28.A3L
RF Exposure Part 0 Test Report	1M2209010096-24.A3L
WIFI 6GHz RF exposure	1M2209010096-29.A3L

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2 LTE AND NR INFORMATION

LTE Information					
Form Factor	Portable Handset				
Frequency Range of each LTE transmission band	LTE Band 71 (665.5 - 695.5 MHz)				
	LTE Band 12 (699.7 - 715.3 MHz)				
	LTE Band 13 (779.5 - 784.5 MHz)				
	LTE Band 14 (790.5 - 795.5 MHz)				
	LTE Band 26 (Cell) (814.7 - 848.3 MHz)				
	LTE Band 5 (Cell) (824.7 - 848.3 MHz)				
	LTE Band 66 (AWS) (1710.7 - 1779.3 MHz)				
	LTE Band 4 (AWS) (1710.7 - 1754.3 MHz)				
	LTE Band 25 (PCS) (1850.7 - 1914.3 MHz)				
	LTE Band 2 (PCS) (1850.7 - 1909.3 MHz)				
	LTE Band 30 (2307.5 - 2312.5 MHz)				
	LTE Band 7 (2502.5 - 2567.5 MHz)				
	LTE Band 41 (2498.5 - 2687.5 MHz)				
	LTE Band 38 (2572.5 - 2617.5 MHz)				
	LTE Band 48 (3552.5 - 3697.5 MHz)				
Channel Bandwidths	LTE Band 71: 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 12: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz				
	LTE Band 13: 5 MHz, 10 MHz				
	LTE Band 14: 5 MHz, 10 MHz				
	LTE Band 26 (Cell): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz				
	LTE Band 5 (Cell): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz				
	LTE Band 66 (AWS): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 4 (AWS): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 25 (PCS): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 2 (PCS): 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 30: 5 MHz, 10 MHz				
	LTE Band 7: 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 41: 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 38: 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 48: 5 MHz, 10 MHz, 15 MHz, 20 MHz				
Channel Numbers and Frequencies (MHz)	Low	Low-Mid	Mid	Mid-High	High
LTE Band 71: 5 MHz	665.5 (133147)	680.5 (133297)	695.5 (133447)		
LTE Band 71: 10 MHz	668 (133172)	680.5 (133297)	693 (133422)		
LTE Band 71: 15 MHz	670.5 (133197)	680.5 (133297)	690.5 (133397)		
LTE Band 71: 20 MHz	673 (133222)	680.5 (133297)	688 (133372)		
LTE Band 12: 1.4 MHz	699.7 (23017)	707.5 (23099)	715.3 (23179)		
LTE Band 12: 3 MHz	700.5 (23025)	707.5 (23099)	714.5 (23165)		
LTE Band 12: 5 MHz	701.5 (23035)	707.5 (23099)	713.5 (23155)		
LTE Band 12: 10 MHz	704 (23060)	707.5 (23099)	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)	798 (23385)	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 (26895)	848.3 (27033)		
LTE Band 26 (Cell): 3 MHz	815.5 (26705)	831.5 (26895)	847.5 (27025)		
LTE Band 26 (Cell): 5 MHz	816.5 (26715)	831.5 (26895)	846.5 (27015)		
LTE Band 26 (Cell): 10 MHz	819 (26740)	831.5 (26895)	844 (26990)		
LTE Band 26 (Cell): 15 MHz	821.5 (26765)	831.5 (26895)	841.5 (26965)		
LTE Band 5 (Cell): 1.4 MHz	824.7 (26407)	836.5 (26525)	848.3 (26643)		
LTE Band 5 (Cell): 3 MHz	825.5 (26415)	836.5 (26525)	847.5 (26635)		
LTE Band 5 (Cell): 5 MHz	826.5 (26425)	836.5 (26525)	846.5 (26625)		
LTE Band 5 (Cell): 10 MHz	829 (26450)	836.5 (26525)	844 (26600)		
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 (131987)	1745 (132322)	1777.5 (132647)		
LTE Band 66 (AWS): 10 MHz	1715 (132022)	1745 (132322)	1775 (132622)		
LTE Band 66 (AWS): 15 MHz	1717.5 (132047)	1745 (132322)	1772.5 (132597)		
LTE Band 66 (AWS): 20 MHz	1720 (132072)	1745 (132322)	1770 (132572)		
LTE Band 4 (AWS): 1.4 MHz	1710.7 (19957)	1732.5 (20175)	1754.3 (20393)		
LTE Band 4 (AWS): 3 MHz	1711.5 (19965)	1732.5 (20175)	1753.5 (20385)		
LTE Band 4 (AWS): 5 MHz	1712.5 (19975)	1732.5 (20175)	1752.5 (20375)		
LTE Band 4 (AWS): 10 MHz	1715 (20000)	1732.5 (20175)	1750 (20350)		
LTE Band 4 (AWS): 15 MHz	1717.5 (20025)	1732.5 (20175)	1747.5 (20325)		
LTE Band 4 (AWS): 20 MHz	1720 (20050)	1732.5 (20175)	1745 (20300)		
LTE Band 25 (PCS): 1.4 MHz	1850.7 (26047)	1882.5 (26365)	1914.3 (26683)		
LTE Band 25 (PCS): 3 MHz	1851.5 (26055)	1882.5 (26365)	1913.5 (26675)		
LTE Band 25 (PCS): 5 MHz	1852.5 (26065)	1882.5 (26365)	1912.5 (26665)		
LTE Band 25 (PCS): 10 MHz	1855 (26090)	1882.5 (26365)	1910 (26640)		
LTE Band 25 (PCS): 15 MHz	1857.5 (26115)	1882.5 (26365)	1907.5 (26615)		
LTE Band 25 (PCS): 20 MHz	1860 (26140)	1882.5 (26365)	1905 (26590)		
LTE Band 2 (PCS): 1.4 MHz	1850.7 (18607)	1880 (18900)	1909.3 (19193)		
LTE Band 2 (PCS): 3 MHz	1851.5 (18615)	1880 (18900)	1908.5 (19185)		
LTE Band 2 (PCS): 5 MHz	1852.5 (18625)	1880 (18900)	1907.5 (19175)		
LTE Band 2 (PCS): 10 MHz	1855 (18650)	1880 (18900)	1905 (19150)		
LTE Band 2 (PCS): 15 MHz	1857.5 (18675)	1880 (18900)	1902.5 (19125)		
LTE Band 2 (PCS): 20 MHz	1860 (18700)	1880 (18900)	1900 (19100)		
LTE Band 30: 5 MHz	2307.5 (27685)	2310 (27710)	2312.5 (27735)		
LTE Band 30: 10 MHz	N/A	2310 (27710)	N/A		
LTE Band 7: 5 MHz	2502.5 (20775)	2535 (21100)	2567.5 (21425)		
LTE Band 7: 10 MHz	2508 (20800)	2535 (21100)	2555 (21400)		
LTE Band 7: 15 MHz	2507.5 (20825)	2535 (21100)	2552.5 (21375)		
LTE Band 7: 20 MHz	2510 (20850)	2535 (21100)	2550 (21350)		
LTE Band 41: 5 MHz	2506 (39750)	2549.5 (40185)	2593 (40620)	2636.5 (41055)	
LTE Band 41: 10 MHz	2506 (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)	2595 (38000)	2617.5 (38225)		
LTE Band 38: 10 MHz	2575 (37800)	2595 (38000)	2615 (38200)		
LTE Band 38: 15 MHz	2577.5 (37825)	2595 (38000)	2612.5 (38175)		
LTE Band 38: 20 MHz	2580 (37850)	2595 (38000)	2610 (38150)		
LTE Band 48: 5 MHz	3552.5 (55265)	3600.8 (55748)	N/A	3649.2 (56232)	3697.5 (56715)
LTE Band 48: 10 MHz	3555 (55290)	3601.7 (55757)	N/A	3648.3 (56223)	3695 (56690)
LTE Band 48: 15 MHz	3557.5 (55315)	3602.5 (55765)	N/A	3647.5 (56215)	3692.5 (56665)
LTE Band 48: 20 MHz	3560 (55340)	3603.3 (55773)	N/A	3646.7 (56207)	3690 (56640)
UE Category	DL UE Cat 20, UL UE Cat 18				
Modulations Supported in UL	QPSK, 16QAM, 64QAM, 256QAM				
LTE MPR Permanently implemented per 3GPP TS 36.101 section 6.2.3-6.2.5? (manufacturer attestation to be provided)	YES				
A-MPR (Additional MPR) disabled for SAR Testing?	YES				
LTE Carrier Aggregation Possible Combinations	The technical description includes all the possible carrier aggregation combinations				
LTE Additional Information	This device does not support full CA features on 3GPP Release 16. It supports carrier aggregation, downlink MIMO, LAA features as shown in the RF Conducted Powers section of this report and the Downlink LTE CA RF Conducted Powers Appendix. 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, HeNet, Enhanced MIMO, eCIC, eMBMS, Cross-Carrier Scheduling, Enhanced SC-FDMA.				

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NR Information				
Form Factor	Portable Handset			
Frequency Range of each NR transmission band	NR Band n71 (665.5 - 695.5 MHz)			
	NR Band n12 (701.5 - 713.5 MHz)			
	NR Band n26 (811.5 - 846.5 MHz)			
	NR Band n5 (825.5 - 846.5 MHz)			
	NR Band n66 (1712.5 - 1777.5 MHz)			
	NR Band n25 (1852.5 - 1912.5 MHz)			
	NR Band n2 (1982.5 - 1997.5 MHz)			
	NR Band n30 (2307.5 - 2312.5 MHz)			
	NR Band n7 (2502.5 - 2567.5 MHz)			
	NR Band n41 (2501.01 - 2585 MHz)			
	NR Band n38 (2575 - 2615 MHz)			
	NR Band n48 (2655 - 2694.98 MHz)			
	NR Band n77 Dss (2455.01 - 2544.98 MHz)			
	NR Band n77 (2705 - 3975 MHz)			
Channel Bandwidths	NR Band n71 5 MHz, 10 MHz, 15 MHz, 20 MHz			
	NR Band n12 5 MHz, 10 MHz, 15 MHz, 20 MHz			
	NR Band n26 5 MHz, 10 MHz, 15 MHz, 20 MHz			
	NR Band n5 5 MHz, 10 MHz, 15 MHz, 20 MHz			
	NR Band n66 5 MHz, 10 MHz, 15 MHz, 20 MHz, 25 MHz, 30 MHz, 40 MHz			
	NR Band n25 5 MHz, 10 MHz, 15 MHz, 20 MHz, 25 MHz, 30 MHz, 40 MHz			
	NR Band n2 5 MHz, 10 MHz, 15 MHz, 20 MHz			
	NR Band n30 5 MHz, 10 MHz, 15 MHz, 20 MHz			
	NR Band n7 Dss 10 MHz, 15 MHz, 20 MHz, 25 MHz, 30 MHz, 40 MHz, 50 MHz, 60 MHz, 70 MHz, 80 MHz, 90 MHz, 100 MHz			
	NR Band n77 Dss 10 MHz, 15 MHz, 20 MHz, 25 MHz, 30 MHz, 40 MHz, 50 MHz, 60 MHz, 70 MHz, 80 MHz, 90 MHz, 100 MHz			
Channel Numbers and Frequencies (MHz)				
NR Band n71: 5 MHz	665.5 (133100)	680.5 (136100)	695.5 (139100)	
NR Band n71: 10 MHz	688 (138600)	695.5 (139100)		
NR Band n71: 15 MHz	670.5 (134100)	680.5 (136100)	695.5 (139100)	
NR Band n71: 20 MHz	673 (134600)	690.5 (138100)	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)		
NR Band n12: 15 MHz	706.5 (141300)	707.5 (141500)	708.5 (141700)	
NR Band n26: 5 MHz	811.5 (163300)	811.5 (166300)	815.5 (169300)	
NR Band n26: 10 MHz	815 (163800)	811.5 (166300)		
NR Band n26: 15 MHz	821.5 (164800)	811.5 (166300)	815.5 (169300)	
NR Band n26: 20 MHz	824 (165300)	811.5 (166300)	819 (167800)	
NR Band n5: 5 MHz	829.5 (165900)	836.5 (167300)	846.5 (169300)	
NR Band n5: 10 MHz	829 (165900)	836.5 (167300)	844 (168800)	
NR Band n5: 15 MHz	831.5 (166300)	836.5 (167300)	841.5 (168300)	
NR Band n5: 20 MHz	834 (166800)	836.5 (167300)	839 (167800)	
NR Band n66: 5 MHz	1717.5 (342500)	1746 (348000)	1775 (353500)	
NR Band n66: 10 MHz	1718 (343000)	1746 (348000)	1775 (353500)	
NR Band n66: 15 MHz	1717.5 (343000)	1746 (348000)	1775 (353500)	
NR Band n66: 20 MHz	1720 (344000)	1746 (348000)	1775 (353500)	
NR Band n66: 25 MHz	1722.5 (344500)	1746 (348000)		
NR Band n66: 30 MHz	1725 (345000)	1746 (348000)	1785 (353000)	
NR Band n66: 40 MHz	1730 (346000)	1746 (348000)	1785 (353000)	
NR Band n25: 5 MHz	1882.5 (376500)	1882.5 (376500)	1882.5 (376500)	
NR Band n25: 10 MHz	1889 (377100)	1882.5 (376500)	1913 (380000)	
NR Band n25: 15 MHz	1887.5 (376100)	1882.5 (376500)	1907.5 (381500)	
NR Band n25: 20 MHz	1880 (375200)	1882.5 (376500)	1905 (381000)	
NR Band n25: 25 MHz	1882.5 (377200)	1882.5 (376500)	1902.5 (382000)	
NR Band n25: 30 MHz	1885 (378700)	1882.5 (376500)	1900 (380000)	
NR Band n25: 40 MHz	1870 (374000)	1882.5 (376500)	1895 (379000)	
NR Band n2: 5 MHz	1982.5 (376500)	1989 (377100)	1997.5 (378600)	
NR Band n2: 10 MHz	1989 (377100)	1989 (377100)	1995 (381000)	
NR Band n2: 15 MHz	1987.5 (376100)	1989 (377100)	1992.5 (380500)	
NR Band n2: 20 MHz	1880 (375200)	1989 (377100)	1990 (380000)	
NR Band n30: 5 MHz	2307.5 (461500)	2310 (462000)	2312.5 (462500)	
NR Band n30: 10 MHz	N/A	2310 (462000)		
NR Band n7: 5 MHz	2502.5 (500500)	2536 (507000)	2567.5 (513500)	
NR Band n7: 10 MHz	2505 (501000)	2536 (507000)	2565 (512000)	
NR Band n7: 15 MHz	2507.5 (501500)	2536 (507000)	2562.5 (510500)	
NR Band n7: 20 MHz	2510 (502000)	2536 (507000)	2560 (510000)	
NR Band n7: 25 MHz	2512.5 (502500)	2536 (507000)	2557.5 (511500)	
NR Band n7: 30 MHz	2515 (503000)	2536 (507000)	2555 (511000)	
NR Band n7: 40 MHz	2520 (504000)	2536 (507000)	2550 (510000)	
NR Band n41: 10 MHz	2501.01 (500201)	2547 (509400)	2582.98 (518598)	2593.01 (527801)
NR Band n41: 15 MHz	2503.5 (500701)	2549.26 (509626)	2582.98 (518598)	2592.75 (527600)
NR Band n41: 20 MHz	2506.01 (501201)	2549.49 (509698)	2582.98 (518598)	2593.49 (527698)
NR Band n41: 30 MHz	2511 (502000)	2552.01 (510401)	2582.98 (518598)	2594.26 (528601)
NR Band n41: 40 MHz	2516.01 (502601)	2557.38 (511358)	N/A	2598.07 (529739)
NR Band n41: 50 MHz	N/A	2521.02 (504201)	2582.98 (518598)	2596.94 (529698)
NR Band n41: 60 MHz	N/A	2526 (505200)	2582.98 (518598)	2599.98 (531198)
NR Band n41: 70 MHz	2531.01 (505801)	N/A	N/A	2605 (532100)
NR Band n41: 80 MHz	2536.02 (507201)	N/A	N/A	2609.99 (529998)
NR Band n41: 90 MHz	2541 (508000)	N/A	N/A	2614.98 (529998)
NR Band n41: 100 MHz	2546.01 (509201)	N/A	2592.98 (518598)	2609 (530000)
NR Band n38: 10 MHz	2575 (515000)	2596 (519000)	2613 (523000)	
NR Band n38: 15 MHz	2577.5 (515500)	2596 (519000)	2612.5 (522500)	
NR Band n38: 20 MHz	2580 (516000)	2596 (519000)	2611 (522000)	
NR Band n38: 30 MHz	2585 (517000)	2596 (519000)	2605 (521000)	
NR Band n38: 40 MHz	2590 (518000)	2596 (519000)	2600 (520000)	
NR Band n48: 10 MHz	2655 (537000)	2661.69 (540117)	N/A	2648.33 (532222)
NR Band n48: 15 MHz	2657.5 (537169)	2662.49 (540216)	N/A	2647.49 (531468)
NR Band n48: 20 MHz	2660.01 (537354)	2662.33 (540222)	N/A	2646.68 (531212)
NR Band n48: 30 MHz	2665 (537968)	2665.01 (540334)	N/A	2645 (530400)
NR Band n77 Dss: 10 MHz	2455.01 (493031)	2544.98 (506031)	2544.98 (506032)	
NR Band n77 Dss: 15 MHz	3457.5 (693500)	3601.01 (723334)	3549.49 (703166)	
NR Band n77 Dss: 20 MHz	3460.02 (693698)	3601.01 (723334)	3546 (693000)	
NR Band n77 Dss: 25 MHz	3462.51 (693841)	3601.01 (723334)	3537.49 (703042)	
NR Band n77 Dss: 30 MHz	3465 (694300)	3601.01 (723334)	3534.99 (693666)	
NR Band n77 Dss: 40 MHz	3470.01 (693134)	N/A	3470.01 (693134)	
NR Band n77 Dss: 50 MHz	3475.01 (693668)	N/A	3475.01 (693134)	
NR Band n77 Dss: 60 MHz	N/A	3600.01 (723334)	N/A	
NR Band n77 Dss: 70 MHz	N/A	3601.01 (723334)	N/A	
NR Band n77 Dss: 80 MHz	N/A	3600.01 (723334)	N/A	
NR Band n77 Dss: 90 MHz	N/A	3600.01 (723334)	N/A	
NR Band n77 Dss: 100 MHz	N/A	3600.01 (723334)	N/A	
NR Band n77: 10 MHz	3705 (747000)	3759 (750000)	3813 (754200)	3867 (757800)
NR Band n77: 15 MHz	3707.5 (747169)	3762.5 (750125)	3813.5 (754369)	3867.5 (757869)
NR Band n77: 20 MHz	3710.01 (747354)	3762 (750000)	3813.99 (754536)	3868.01 (757734)
NR Band n77: 25 MHz	3712.5 (747500)	3763.5 (750000)	3815 (754500)	3865.5 (757700)
NR Band n77: 30 MHz	3715 (747658)	3765 (750100)	3815.01 (754534)	3865.99 (757666)
NR Band n77: 40 MHz	3720 (748400)	3768 (750100)	3816 (754500)	3864 (757600)
NR Band n77: 50 MHz	3725.01 (749334)	3772.49 (752166)	3840 (755000)	3897.51 (759934)
NR Band n77: 60 MHz	3730 (749900)	3804.99 (753666)	N/A	3876.66 (758444)
NR Band n77: 70 MHz	3735 (750400)	3804.99 (753666)	N/A	3876.66 (758444)
NR Band n77: 80 MHz	3740.01 (749334)	N/A	3840 (755000)	3899 (760000)
NR Band n77: 90 MHz	3745 (749868)	N/A	3840 (755000)	3894.98 (760232)
NR Band n77: 100 MHz	3750 (750000)	N/A	N/A	3894.98 (760232)
SCS for NR Band n71n12n26n38n48n77	15 kHz			
SCS for NR Band n41n38n48n77	30 kHz			
Modulations Supported in UL	DFT-S-OFDM: m2 BPSK, QPSK, 16QAM, 64QAM, 256QAM			
	CP-OFDM: QPSK, 16QAM, 64QAM, 256QAM			
A-MPR (Additional MPPE) 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 2496/6		LTE Band 2496/6	
LTE Anchor Bands for NR Band n12	LTE Band 2496/6		LTE Band 2496/6	
LTE Anchor Bands for NR Band n26	N/A		N/A	
LTE Anchor Bands for NR Band n5	LTE Band 2304/48/6		LTE Band 2304/48/6	
LTE Anchor Bands for NR Band n66	LTE Band 2512/12/13/43/48		LTE Band 2512/12/13/43/48	
LTE Anchor Bands for NR Band n25	LTE Band 12/6		LTE Band 12/6	
LTE Anchor Bands for NR Band n2	LTE Band 45/12/13/14/30/48/6		LTE Band 45/12/13/14/30/48/6	
LTE Anchor Bands for NR Band n7	LTE Band 2512/14/16		LTE Band 2512/14/16	
LTE Anchor Bands for NR Band n41	N/A		N/A	
LTE Anchor Bands for NR Band n38	LTE Band 2256/6		LTE Band 2256/6	
LTE Anchor Bands for NR Band n48	N/A		N/A	
LTE Anchor Bands for NR Band n77	LTE Band 2186		LTE Band 2186	
	LTE Band 2512/13/14/30/6/7/1		LTE Band 2512/13/14/30/6/7/1	

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.

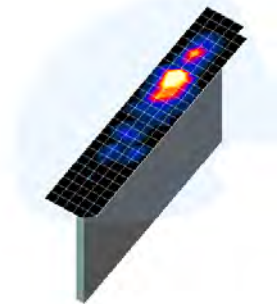


Figure 4-1
Sample SAR Area Scan

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

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

*Also compliant to IEEE 1528-2013 Table 6

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5 DEFINITION OF REFERENCE POINTS

5.1 EAR REFERENCE POINT

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

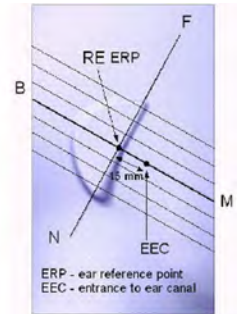


Figure 5-1
Close-Up Side view
of ERP

5.2 HANDSET REFERENCE POINTS

Two imaginary lines on the handset were established: the vertical centerline and the horizontal line. The test device was placed in a normal operating position with the acoustic output located along the “vertical centerline” on the front of the device aligned to the “ear reference point” (See Figure 5-3). The acoustic output was 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

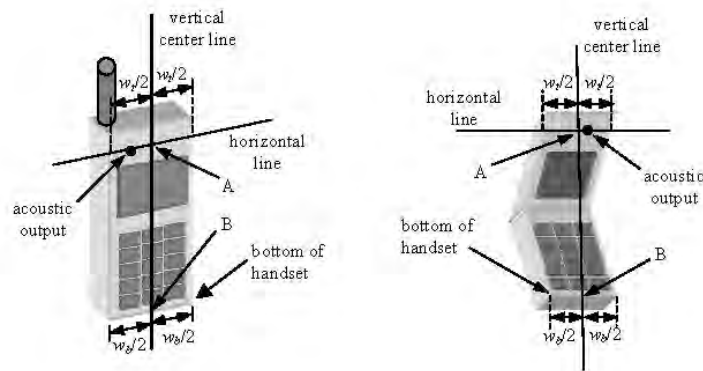


Figure 5-3
Handset Vertical Center & Horizontal Line Reference Points

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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.

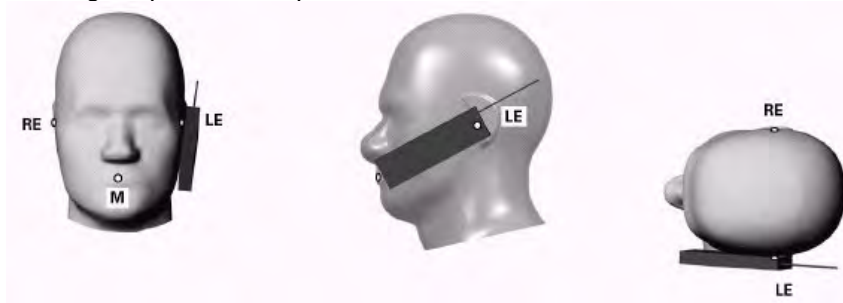


Figure 6-1 Front, Side and Top View of Cheek Position

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

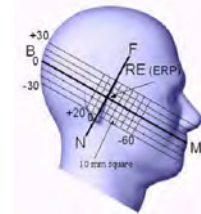


Figure 6-3
Side view w/ relevant markings

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

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

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

6.5 Body-Worn Accessory Configurations

Body-worn operating configurations are tested with the belt-clips and holsters attached to the device and positioned against a flat phantom in a normal use configuration (see Figure 6-4). Per FCC KDB Publication 648474 D04v01r03, Body-worn accessory exposure is typically related to voice mode operations when handsets are carried in body-worn accessories. The body-worn accessory procedures in FCC KDB Publication 447498 D04v01 should be used to test for body-worn accessory SAR compliance, without a headset connected to it. This enables the test results for such configuration to be compatible with that required for hotspot mode when the body-worn accessory test separation distance is greater than or equal to that required for hotspot mode. A body-worn accessory, measured without a headset connected to reported SAR configuration for that wireless mode and frequency accessory with a headset attached to the handset.

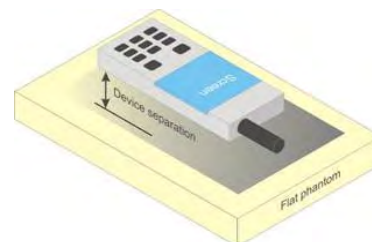


Figure 6-4
Sample Body-Worn Diagram

distance is greater than or equal to that required for hotspot mode, when applicable. When the reported SAR for a body-worn accessory, measured without a headset connected to the handset, is > 1.2 W/kg, the highest reported SAR configuration for that wireless mode and frequency band should be repeated for that body-worn accessory with a headset attached to the handset.

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

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

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

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

6.6 Extremity Exposure Configurations

Devices that are designed or intended for use on extremities or mainly operated in extremity only exposure conditions; i.e., hands, wrists, feet and ankles, may require extremity SAR evaluation. When the device also operates in close proximity to the user's body, SAR compliance for the body is also required. The 1g body and 10g extremity SAR Exclusion Thresholds found in KDB Publication 447498 D04v01 should be applied to determine SAR test requirements.

Per KDB Publication 447498 D04v01, 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 D04v01 procedures. The "Portable Hotspot" feature on the handset was NOT activated during SAR assessments, to ensure the SAR measurements were evaluated for a single transmission frequency RF signal at a time.

6.8 Phablet Configurations

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

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

6.9 Proximity Sensor Considerations

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

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

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 RF EXPOSURE LIMITS

7.1 Uncontrolled Environment

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

7.2 Controlled Environment

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

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

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

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

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8 FCC MEASUREMENT PROCEDURES

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

8.1 Measured and Reported SAR

Per FCC KDB Publication 447498 D04v01, 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 UMTS

8.4.1 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.

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8.4.2 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 “1’s”. The 3G SAR test reduction procedure is applied to AMR configurations with 12.2 kbps RMC as the 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.

8.4.3 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.

8.4.4 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.

8.4.5 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.

8.4.6 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.

8.5 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).

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8.5.1 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.

8.5.2 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.

8.5.3 A-MPR

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

8.5.4 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.

8.5.5 TDD

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

8.5.6 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

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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.

8.6 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.

8.6.1 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.

8.6.2 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.

8.6.3 U-NII-2C and U-NII-3

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

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8.6.4 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.

8.6.5 2.4 GHz SAR Test Requirements

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

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

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

8.6.6 OFDM Transmission Mode and SAR Test Channel Selection

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

8.6.7 Initial Test Configuration Procedure

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

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

8.6.8 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.

8.6.9 MIMO SAR considerations

Per KDB Publication 248227 D01v02r02, the simultaneous SAR provisions in KDB Publication 447498 D04v01 should be applied to determine simultaneous transmission SAR test exclusion for WIFI MIMO. If the sum of 1g single transmission chain SAR measurements is < 1.6 W/kg, no additional SAR measurements for MIMO are required. Alternatively, SAR for MIMO can be measured with all antennas transmitting simultaneously at the specified maximum output power of MIMO operation. When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

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9 RF CONDUCTED POWERS

All conducted power measurements for Sub6 WWAN technologies and bands in this section were performed by setting *Reserve_power_margin* (Qualcomm® Smart Transmit EFS entry) to 0dB, so that the EUT transmits continuously at minimum (P_{limit} , maximum tune up output power P_{max}).

9.1 GSM Conducted Powers

Table 9-1

Measured P_{max} for DSI = 0 (Body-worn or Phablet with grip sensor inactive), DSI = 1 (Phablet with grip sensor active), DSI = 2 (Head), or DSI = 4 (Earjack Active) and DSI = 3 (Hotspot for GPRS 850)

		Voice	GPRS/EDGE Data (GMSK)				EDGE Data (8-PSK)			
Band	Channel	GSM [dBm] CS (1 Slot)	GPRS [dBm] 1 Tx Slot	GPRS [dBm] 2 Tx Slot	GPRS [dBm] 3 Tx Slot	GPRS [dBm] 4 Tx Slot	EDGE [dBm] 1 Tx Slot	EDGE [dBm] 2 Tx Slot	EDGE [dBm] 3 Tx Slot	EDGE [dBm] 4 Tx Slot
GSM 850	128	31.90	31.93	30.76	29.09	26.90	26.15	24.64	22.62	21.95
	190	31.98	32.05	31.01	29.17	27.44	26.55	25.03	22.96	21.98
	251	31.95	31.95	30.93	29.03	27.46	26.45	24.98	23.01	22.01
GSM 1900	512	29.17	29.15	28.05	26.40	24.50	25.40	23.95	22.05	21.02
	661	28.80	28.83	28.01	26.30	24.34	24.95	24.00	22.10	20.73
	810	28.78	28.83	28.00	25.84	24.30	25.25	23.92	21.96	20.92

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	22.70	22.73	24.57	24.66	23.72	16.95	18.45	18.19	18.77
	190	22.78	22.85	24.82	24.74	24.26	17.35	18.84	18.53	18.80
	251	22.75	22.75	24.74	24.60	24.28	17.25	18.79	18.58	18.83
GSM 1900	512	19.97	19.95	21.86	21.97	21.32	16.20	17.76	17.62	17.84
	661	19.60	19.63	21.82	21.87	21.16	15.75	17.81	17.67	17.55
	810	19.58	19.63	21.81	21.41	21.12	16.05	17.73	17.53	17.74

GSM 850	Frame	22.80	22.80	25.31	25.07	24.32	17.80	18.81	18.57	18.82
GSM 1900	Avg.Targets:	19.80	19.80	21.81	22.07	21.32	16.80	17.81	17.57	17.82

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

Maximum Burst-Averaged Output Power									
Band	Channel	GPRS/EDGE Data (GMSK)				EDGE Data (8-PSK)			
		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	28.19	24.65	22.97	21.88	25.41	23.89	22.14	20.97
	661	27.98	25.07	22.86	21.55	25.90	23.88	21.96	20.56
	810	28.01	24.56	22.71	21.81	25.25	23.90	21.85	20.67

Calculated Maximum Frame-Averaged Output Power									
Band	Channel	GPRS/EDGE Data (GMSK)				EDGE Data (8-PSK)			
		GPRS [dBm] 1 Tx Slot	GPRS [dBm] 2 Tx Slot	GPRS [dBm] 3 Tx Slot	GPRS [dBm] 4 Tx Slot	EDGE [dBm] 1 Tx Slot	EDGE [dBm] 2 Tx Slot	EDGE [dBm] 3 Tx Slot	EDGE [dBm] 4 Tx Slot
GSM 1900	512	18.99	18.46	18.54	18.70	16.21	17.70	17.71	17.79
	661	18.78	18.88	18.43	18.37	16.70	17.69	17.53	17.38
	810	18.81	18.37	18.28	18.63	16.05	17.71	17.42	17.49

GSM 1900	Frame Avg.Targets:	18.80	18.81	18.77	18.82	16.80	17.81	17.57	17.82
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Note:

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

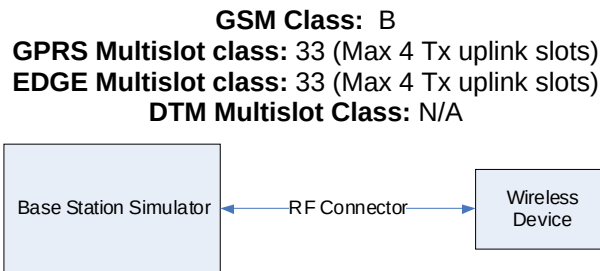


Figure 9-1
Power Measurement Setup

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9.2 UMTS Conducted Powers

Table 9-3
Measured P_{max} for DSI = 0 (Body-worn or Phablet with grip sensor inactive) or DSI = 2 (Head)
and all DSI for UMTS 850

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	24.16	24.22	24.19	23.30	23.31	23.28	23.27	23.11	23.12	-
99		12.2 kbps AMR	24.12	24.15	24.19	23.29	23.30	23.24	23.21	23.10	23.08	-
6	HSDPA	Subtest 1	23.24	23.23	23.18	22.62	22.66	22.60	22.52	22.42	22.48	0
6		Subtest 2	23.24	23.24	23.12	22.57	22.61	22.55	22.51	22.42	22.44	0
6		Subtest 3	22.68	22.72	22.63	22.07	22.12	22.07	22.02	21.89	21.93	0.5
6		Subtest 4	22.71	22.72	22.64	22.00	22.08	22.03	21.99	21.84	21.92	0.5
6	HSUPA	Subtest 1	23.16	23.16	23.10	22.55	22.57	22.54	22.46	22.34	22.40	0
6		Subtest 2	21.17	21.17	21.09	20.51	20.57	20.51	20.45	20.37	20.42	2
6		Subtest 3	22.13	22.16	22.05	21.56	21.56	21.51	21.47	21.33	21.41	1
6		Subtest 4	21.17	21.19	21.09	20.53	20.62	20.53	20.45	20.34	20.33	2
6		Subtest 5	23.19	23.19	23.12	22.54	22.60	22.53	22.48	22.35	22.43	0
8	DC-HSDPA	Subtest 1	23.17	23.18	23.12	22.53	22.56	22.54	22.49	22.32	22.41	0
8		Subtest 2	23.16	23.18	23.10	22.52	22.57	22.53	22.47	22.37	22.42	0
8		Subtest 3	22.69	22.70	22.62	22.07	22.06	22.05	21.98	21.91	21.96	0.5
8		Subtest 4	22.69	22.69	22.62	22.03	22.06	22.02	21.96	21.88	21.92	0.5

Table 9-4
Measured P_{limit} for DSI = 3 (Hotspot mode)

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	19.23	19.18	19.21	19.32	19.20	19.21	-
99		12.2 kbps AMR	19.24	19.21	19.16	19.32	19.18	19.25	-
6	HSDPA	Subtest 1	18.68	18.67	18.59	18.55	18.40	18.52	0
6		Subtest 2	18.57	18.66	18.59	18.50	18.38	18.56	0
6		Subtest 3	18.10	18.12	18.05	17.98	17.84	17.94	0.5
6		Subtest 4	18.05	18.10	18.02	17.92	17.80	17.92	0.5
6	HSUPA	Subtest 1	18.55	18.61	18.52	18.41	18.30	18.37	0
6		Subtest 2	16.49	16.53	16.50	16.40	16.30	16.34	2
6		Subtest 3	17.41	17.55	17.51	17.40	17.29	17.35	1
6		Subtest 4	16.52	16.55	16.51	16.42	16.28	16.36	2
6		Subtest 5	18.53	18.56	18.52	18.44	18.35	18.40	0
8	DC-HSDPA	Subtest 1	18.50	18.54	18.51	18.44	18.31	18.40	0
8		Subtest 2	18.48	18.52	18.47	18.42	18.29	18.38	0
8		Subtest 3	18.00	18.02	18.01	17.93	17.80	17.90	0.5
8		Subtest 4	18.00	18.02	17.99	17.94	17.80	17.89	0.5

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Table 9-5
Measured P_{limit} for DSI = 1 (Phablet with grip sensor active) 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	21.81	21.78	21.70	21.86	21.78	21.80	-
99		12.2 kbps AMR	21.79	21.70	21.71	21.89	21.76	21.78	-
6	HSDPA	Subtest 1	20.92	20.98	20.92	20.97	20.81	20.92	0
6		Subtest 2	20.93	21.00	20.97	20.99	20.84	20.91	0
6		Subtest 3	20.43	20.48	20.41	20.47	20.36	20.42	0.5
6		Subtest 4	20.50	20.47	20.42	20.45	20.35	20.42	0.5
6	HSUPA	Subtest 1	20.94	20.98	20.94	20.98	20.88	20.93	0
6		Subtest 2	18.94	18.97	18.92	19.00	18.87	18.91	2
6		Subtest 3	19.97	19.97	19.91	19.97	19.84	19.91	1
6		Subtest 4	18.99	19.00	18.96	18.99	18.86	18.91	2
6		Subtest 5	20.98	21.00	20.96	21.00	20.86	20.93	0
8	DC-HSDPA	Subtest 1	20.98	20.99	20.95	21.00	20.84	20.92	0
8		Subtest 2	20.95	20.99	20.98	20.94	20.85	20.91	0
8		Subtest 3	20.46	20.50	20.46	20.50	20.35	20.43	0.5
8		Subtest 4	20.45	20.49	20.46	20.48	20.38	20.46	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 9-2
Power Measurement Setup

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9.3 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 LTE and NR Lower Bandwidth RF Conducted Powers Appendix.

Note: Some bands do 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.

LTE Carrier Aggregation Notes:

1. This device supports uplink carrier aggregation for LTE CA_5B, LTE CA_66B, LTE CA_66C, LTE CA_48C, and LTE CA_41C with a maximum of two component carriers. For intraband contiguous carrier aggregation scenarios, 3GPP 36.101 Table 6.2.2A-1 specifies that the aggregate maximum allowed output power is equivalent to the single carrier scenario. 3GPP 36.101 6.2.3A allows for several dB of MPR to be applied when non-contiguous RB allocation is implemented. The conducted powers and MPR settings in this device are permanently implemented per the above 3GPP requirements.
2. Per FCC Guidance, the output power with uplink CA active was measured for the configuration with the highest reported SAR with single carrier for each exposure condition. The power was measured with wideband signal integration over both component carriers.

9.3.1 LTE Band 71

Table 9-6
LTE Band 71 Measured P_{Max} for all DSI - 20 MHz Bandwidth

LTE Band 71 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			133297 (680.5 MHz) Conducted Power [dBm]		
QPSK	1	0	24.54	0	0
	1	50	24.47		0
	1	99	24.39		0
	50	0	23.58	0-1	1
	50	25	23.59		1
	50	50	23.54		1
	100	0	23.58		1
16QAM	1	0	23.81	0-1	1
	1	50	23.76		1
	1	99	23.83		1
	50	0	22.56	0-2	2
	50	25	22.62		2
	50	50	22.53		2
	100	0	22.61		2
64QAM	1	0	22.83	0-2	2
	1	50	22.81		2
	1	99	22.53		2
	50	0	21.52	0-3	3
	50	25	21.61		3
	50	50	21.47		3
	100	0	21.61		3
256QAM	1	0	19.69	0-5	5
	1	50	19.72		5
	1	99	19.84		5
	50	0	19.54		5
	50	25	19.58		5
	50	50	19.53		5
	100	0	19.59		5

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9.3.2 LTE Band 12

Table 9-7
LTE Band 12 Measured P_{Max} for all DSI - 10 MHz Bandwidth

LTE Band 12 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23095 (707.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	24.56	0	0
	1	25	24.68		0
	1	49	24.65		0
	25	0	23.65	0-1	1
	25	12	23.66		1
	25	25	23.73		1
16QAM	50	0	23.65	0-1	1
	1	0	23.86		1
	1	25	24.05		1
	1	49	23.88	0-2	1
	25	0	22.67		2
	25	12	22.69		2
64QAM	25	25	22.71	0-2	2
	50	0	22.62		2
	1	0	22.82	0-2	2
	1	25	22.94		2
	1	49	23.07		2
	25	0	21.65	0-3	3
256QAM	25	12	21.66		3
	25	25	21.70		3
	50	0	21.57	0-5	3
	1	0	19.56		5
	1	25	19.78		5
	1	49	19.84		5
	25	0	19.61		5
	25	12	19.60		5
	25	25	19.65		5
	50	0	19.60		5

9.3.3 LTE Band 13

Table 9-8
LTE Band 13 Measured P_{Max} for all DSI - 10 MHz Bandwidth

LTE Band 13 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23230 (782.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	24.43	0	0
	1	25	24.34		0
	1	49	24.19		0
	25	0	23.45	0-1	1
	25	12	23.38		1
	25	25	23.29		1
16QAM	50	0	23.43	0-1	1
	1	0	23.76		1
	1	25	23.67		1
	1	49	23.55	0-2	1
	25	0	22.45		2
	25	12	22.33		2
64QAM	25	25	22.21	0-2	2
	50	0	22.39		2
	1	0	22.69	0-2	2
	1	25	22.58		2
	1	49	22.41		2
	25	0	21.45	0-3	3
256QAM	25	12	21.42		3
	25	25	21.29		3
	50	0	21.41	0-5	3
	1	0	19.41		5
	1	25	19.42		5
	1	49	19.33		5
	25	0	19.37		5
	25	12	19.34		5
	25	25	19.30		5
	50	0	19.37		5

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9.3.4 LTE Band 14

Table 9-9
LTE Band 14 Measured P_{Max} for all DSI - 10 MHz Bandwidth

LTE Band 14 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23330 (793.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	24.35	0	0
	1	25	24.45		0
	1	49	24.44		0
	25	0	23.31	0-1	1
	25	12	23.32		1
	25	25	23.31		1
16QAM	50	0	23.31	0-1	1
	1	0	23.56		1
	1	25	23.58		1
	1	49	23.60	0-2	2
	25	0	22.31		2
	25	12	22.38		2
64QAM	25	25	22.31	0-2	2
	50	0	22.30		2
	1	0	22.43	0-2	2
	1	25	22.64		2
	1	49	22.64		2
	25	0	21.25	0-3	3
256QAM	25	12	21.31		3
	25	25	21.29		3
	50	0	21.34	0-3	3
	1	0	19.35	0-5	5
	1	25	19.53		5
	1	49	19.36		5
256QAM	25	0	19.28		5
	25	12	19.34		5
	25	25	19.33		5
	50	0	19.33		5

9.3.5 LTE Band 26

Table 9-10
LTE Band 26 (Cell) Measured P_{Max} for all DSI - 15 MHz Bandwidth

LTE Band 26 (Cell) 15 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26865 (831.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	24.29	0	0
	1	36	24.40		0
	1	74	24.33		0
	36	0	23.26	0-1	1
	36	18	23.26		1
	36	37	23.33		1
16QAM	75	0	23.26	0-1	1
	1	0	23.39		1
	1	36	23.80		1
	1	74	23.69	0-2	2
	36	0	22.29		2
	36	18	22.29		2
64QAM	36	37	22.38	0-2	2
	75	0	22.23		2
	1	0	22.32	0-2	2
	1	36	22.51		2
	1	74	22.37		2
	36	0	21.27	0-3	3
256QAM	36	18	21.25		3
	36	37	21.33		3
	75	0	21.28	0-5	5
	1	0	19.24		5
	1	36	19.47		5
	1	74	19.47		5
256QAM	36	0	19.24	0-5	5
	36	18	19.23		5
	36	37	19.31		5
	75	0	19.21		5

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9.3.6 LTE Band 5

Table 9-11
LTE Band 5 (Cell) Measured P_{Max} for all DSI - 10 MHz Bandwidth

LTE Band 5 (Cell) 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20525 (836.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	24.57	0	0
	1	25	24.55		0
	1	49	24.53		0
	25	0	23.37	0-1	1
	25	12	23.40		1
	25	25	23.43		1
16QAM	50	0	23.37	0-1	1
	1	0	23.80		1
	1	25	23.79		1
	1	49	23.78	0-2	1
	25	0	22.35		2
	25	12	22.38		2
64QAM	25	25	22.40	0-2	2
	50	0	22.35		2
	1	0	22.69	0-2	2
	1	25	22.78		2
	1	49	22.49		2
	25	0	21.39	0-3	3
256QAM	25	12	21.39		3
	25	25	21.43		3
	50	0	21.36	0-5	3
	1	0	19.56		5
	1	25	19.75		5
	1	49	19.61		5
	25	0	19.37		5
	25	12	19.41		5
	25	25	19.45		5
	50	0	19.39		5

Table 9-12
LTE Band 5 (Cell) Uplink Carrier Aggregation Measured P_{Max} for all DSI - 10 MHz Bandwidth

Combination	PCC Band	PCC Bandwidth [MHz]	PCC UL Channel	PCC UL Frequency [MHz]	PCC				Modulation	PCC UL# RB	PCC UL RB Offset	SCC						Modulation	SCC UL# RB	SCC UL RB Offset	Power	
					PCC DL Channel	PCC DL Frequency [MHz]						SCC Band	SCC Bandwidth [MHz]	SCC UL Channel	SCC UL Frequency [MHz]	SCC DL Channel	SCC DL Frequency [MHz]				LTE Tx Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_5B	LTE B5	10	20525	836.5	2525	881.5			QPSK	1	0	LTE B5	5	20453	829.3	2453	874.3	QPSK	1	24	24.61	24.57

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9.3.7 LTE Band 66 Antenna A

Table 9-13
LTE Band 66 (AWS) Antenna A Measured P_{Max} for DSI = 0 (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	23.27	23.20	23.10	0	0
	1	50	23.36	23.16	23.06		0
	1	99	23.49	23.06	22.92		0
	50	0	22.20	22.17	22.05	0-1	1
	50	25	22.27	22.15	22.07		1
	50	50	22.36	22.08	22.01		1
	100	0	22.29	22.20	22.07		1
16QAM	1	0	22.53	22.48	22.24	0-1	1
	1	50	22.56	22.41	22.10		1
	1	99	22.51	22.39	22.05		1
	50	0	21.22	21.20	21.12	0-2	2
	50	25	21.32	21.16	21.03		2
	50	50	21.30	21.13	21.07		2
	100	0	21.35	21.12	21.08		2
64QAM	1	0	21.42	21.28	21.12	0-2	2
	1	50	21.36	21.35	20.85		2
	1	99	21.39	21.29	20.97		2
	50	0	20.27	20.14	20.11	0-3	3
	50	25	20.21	20.07	20.05		3
	50	50	20.34	20.00	20.00		3
	100	0	20.32	20.15	20.05		3
256QAM	1	0	18.11	18.21	18.23	0-5	5
	1	50	18.25	18.21	17.99		5
	1	99	18.48	18.10	17.88		5
	50	0	18.28	18.14	18.09		5
	50	25	18.30	18.12	18.01		5
	50	50	18.26	18.13	18.01		5
	100	0	18.30	18.13	18.05		5

Table 9-14
LTE Band 66 (AWS) Antenna A Measured P_{Max} for DSI = 0 (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	23.41	23.32	23.17	0	0
	1	25	23.42	23.41	23.19		0
	1	49	23.50	23.33	23.10		0
	25	0	22.32	22.37	22.22	0-1	1
	25	12	22.35	22.37	22.20		1
	25	25	22.39	22.34	22.16		1
16QAM	50	0	22.40	22.27	22.19	0-1	1
	1	0	22.53	22.60	22.25		1
	1	25	22.69	22.64	22.41		1
	1	49	22.67	22.44	22.26	0-2	1
	25	0	21.36	21.31	21.19		2
	25	12	21.43	21.30	21.17	2	
64QAM	25	25	21.42	21.29	21.20	0-2	2
	50	0	21.42	21.27	21.17		2
	1	0	21.55	21.44	21.29	0-2	2
	1	25	21.46	21.49	21.14		2
	1	49	21.75	21.43	21.23		2
	25	0	20.37	20.33	20.21	0-3	3
25	12	20.40	20.32	20.19	3		
25	25	20.40	20.32	20.17	3		
256QAM	50	0	20.41	20.25	20.19	0-5	3
	1	0	18.31	18.34	18.37		5
	1	25	18.44	18.48	18.22		5
	1	49	18.39	18.23	18.15		5
	25	0	18.36	18.32	18.20		5
	25	12	18.38	18.35	18.20		5
25	25	18.37	18.35	18.17	5		
	50	0	18.37	18.32	18.19	5	

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Table 9-15

LTE Band 66 (AWS) Antenna A Uplink Carrier Aggregation Measured P_{Max} for DSI = 0 (Body-worn or Phablet with grip sensor inactive) or DSI = 2 (Head)

	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	23.46	23.49
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	23.40	23.50
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	23.36	23.10
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	23.20	23.17

Table 9-16

LTE Band 66 (AWS) Antenna A Measured P_{Limit} for DSI = 1 (Phablet with grip sensor active) 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	21.23	21.28	21.06	0	0
	1	50	21.17	21.18	21.02		0
	1	99	21.26	21.14	21.13		0
	50	0	21.16	21.24	21.06	0-1	0
	50	25	21.22	21.13	21.04		0
	50	50	21.22	21.07	21.07		0
	100	0	21.23	21.23	21.13		0
16QAM	1	0	21.46	21.34	21.29	0-1	0
	1	50	21.35	21.28	21.40		0
	1	99	21.50	21.41	21.14		0
	50	0	21.21	21.18	21.16	0-2	0
	50	25	21.28	21.14	21.10		0
	50	50	21.27	21.16	21.02		0
	100	0	21.25	21.08	21.07		0
64QAM	1	0	21.43	21.30	21.25	0-2	0
	1	50	21.28	21.28	21.45		0
	1	99	21.38	21.39	21.00		0
	50	0	20.18	20.16	20.10	0-3	0.5
	50	25	20.23	20.13	20.10		0.5
	50	50	20.27	20.14	20.09		0.5
	100	0	20.27	20.17	20.05		0.5
256QAM	1	0	18.33	18.07	18.27	0-5	2.5
	1	50	18.20	18.15	18.30		2.5
	1	99	18.43	18.24	18.10		2.5
	50	0	18.17	18.14	18.08		2.5
	50	25	18.32	18.11	18.11		2.5
	50	50	18.24	18.14	18.02		2.5
	100	0	18.15	18.12	18.09	2.5	

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Table 9-17

LTE Band 66 (AWS) Antenna A Measured P_{Limit} for DSI = 1 (Phablet with grip sensor active) 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	21.33	21.26	21.21	0	0
	1	25	21.42	21.35	21.15		0
	1	49	21.34	21.23	21.12		0
	25	0	21.46	21.34	21.18	0-1	0
	25	12	21.41	21.34	21.25		0
	25	25	21.37	21.30	21.20		0
	50	0	21.42	21.31	21.19		0
16QAM	1	0	21.51	21.47	21.26	0-1	0
	1	25	21.54	21.60	21.35		0
	1	49	21.53	21.54	21.31		0
	25	0	21.34	21.28	21.18	0-2	0
	25	12	21.42	21.29	21.19		0
	25	25	21.41	21.29	21.16		0
	50	0	21.42	21.24	21.18		0
64QAM	1	0	21.57	21.69	21.20	0-2	0
	1	25	21.53	21.56	21.27		0
	1	49	21.54	21.51	21.18		0
	25	0	20.34	20.26	20.23	0-3	0.5
	25	12	20.41	20.29	20.21		0.5
	25	25	20.36	20.22	20.22		0.5
	50	0	20.34	20.28	20.23		0.5
256QAM	1	0	18.35	18.44	18.35	0-5	2.5
	1	25	18.29	18.55	18.34		2.5
	1	49	18.37	18.19	18.15		2.5
	25	0	18.37	18.21	18.32		2.5
	25	12	18.43	18.26	18.33		2.5
	25	25	18.37	18.26	18.24		2.5
	50	0	18.41	18.27	18.24		2.5

Table 9-18

LTE Band 66 (AWS) Antenna A Uplink Carrier Aggregation Measured P_{Limit} for DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack Active)

	PCC									SCC								Power		
Combination	PCC Band	PCC Bandwidth [MHz]	PCC (UL) Channel	PCC (UL) Frequency [MHz]	PCC DL Channel	PCC DL Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL) Channel	SCC (UL) Frequency [MHz]	SCC (DL) Channel	SCC (DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_66C	LTE B66	20	132072	1720.0	66536	2120.0	QPSK	50	50	LTE B66	20	132270	1739.8	66734	2139.8	QPSK	50	0	21.15	21.22
CA_66B	LTE B66	10	132022	1715.0	66486	2115.0	QPSK	25	25	LTE B66	10	132121	1724.9	66585	2124.9	QPSK	25	0	21.25	21.37

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Table 9-19
LTE Band 66 (AWS) Antenna A 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	18.54	18.44	18.34	0	0
	1	50	18.70	18.38	18.30		0
	1	99	18.52	18.43	18.25		0
	50	0	18.42	18.45	18.32	0-1	0
	50	25	18.60	18.44	18.44		0
	50	50	18.57	18.48	18.32		0
	100	0	18.57	18.42	18.41	0	
16QAM	1	0	18.90	18.63	18.53	0-1	0
	1	50	18.68	18.69	18.61		0
	1	99	18.92	18.59	18.35		0
	50	0	18.50	18.52	18.36	0-2	0
	50	25	18.60	18.44	18.43		0
	50	50	18.61	18.44	18.35		0
	100	0	18.63	18.46	18.41	0	
64QAM	1	0	18.63	18.71	18.45	0-2	0
	1	50	18.64	18.65	18.54		0
	1	99	18.74	18.75	18.33		0
	50	0	18.48	18.53	18.42	0-3	0
	50	25	18.55	18.48	18.43		0
	50	50	18.46	18.43	18.37		0
	100	0	18.56	18.46	18.37	0	
256QAM	1	0	18.27	18.06	17.74	0-5	0.5
	1	50	18.07	18.13	18.07		0.5
	1	99	18.28	17.90	17.84		0.5
	50	0	18.03	18.04	18.01	0.5	
	50	25	18.12	17.95	18.00	0.5	
	50	50	18.05	17.93	17.98	0.5	
	100	0	18.10	17.99	17.97	0.5	

Table 9-20
LTE Band 66 (AWS) Antenna A 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	18.61	18.49	18.46	0	0
	1	25	18.68	18.51	18.38		0
	1	49	18.58	18.64	18.36		0
	25	0	18.58	18.58	18.47	0-1	0
	25	12	18.71	18.60	18.39		0
	25	25	18.64	18.52	18.43		0
16QAM	50	0	18.67	18.62	18.40	0	
	1	0	18.82	18.90	18.58	0-1	0
	1	25	18.86	18.85	18.64		0
	1	49	18.88	18.69	18.62		0
	25	0	18.65	18.54	18.46	0-2	0
	25	12	18.70	18.64	18.48		0
25	25	18.71	18.55	18.39	0		
64QAM	50	0	18.70	18.56	18.40	0	
	1	0	18.66	18.80	18.55	0-2	0
	1	25	18.69	18.77	18.57		0
	1	49	18.73	18.78	18.39		0
	25	0	18.62	18.59	18.44	0-3	0
	25	12	18.67	18.56	18.39		0
25	25	18.64	18.55	18.44	0		
256QAM	50	0	18.64	18.59	18.39	0	
	1	0	18.32	18.25	18.14	0-5	0.5
	1	25	18.30	18.37	18.14		0.5
	1	49	18.33	18.25	18.01		0.5
	25	0	18.27	18.21	18.02	0.5	
	25	12	18.34	18.21	18.05	0.5	
256QAM	25	25	18.23	18.21	18.03	0.5	
	50	0	18.25	18.22	18.03	0.5	

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Table 9-21

LTE Band 66 (AWS) Antenna A Uplink Carrier Aggregation Measured P_{Limit} for DSI = 3 (Hotspot Mode)

Combination	PCC Band	PCC Bandwidth [MHz]	PCC (UL) Channel	PCC (UL) Frequency [MHz]	PCC					SCC								Power		
					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	50	50	LTE B66	20	132270	1739.8	66734	2139.8	QPSK	50	0	18.45	18.57
CA_66B	LTE B66	10	132022	1715.0	66486	2115.0	QPSK	25	25	LTE B66	10	132121	1724.9	66585	2124.9	QPSK	25	0	18.54	18.64

9.3.8 LTE Band 66 Antenna F

Table 9-22

LTE Band 66 (AWS) Antenna F Measured P_{Limit} for DSI = 0 (Body-worn or Phablet with grip sensor inactive), DSI = 1 (Phablet with grip sensor active), DSI = 3 (Hotspot Mode), 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	21.00	21.03	21.48	0	0
	1	50	20.96	21.15	21.40		0
	1	99	21.09	21.31	21.41		0
	50	0	21.07	21.17	21.50	0-1	0
	50	25	21.09	21.16	21.34		0
	50	50	21.12	21.10	21.35		0
	100	0	21.11	21.12	21.41		0
16QAM	1	0	21.13	21.20	21.43	0-1	0
	1	50	21.16	21.50	21.41		0
	1	99	21.18	21.49	21.40		0
	50	0	21.00	21.05	21.32	0-2	0
	50	25	21.09	21.17	21.43		0
	50	50	21.05	21.04	21.34		0
	100	0	21.10	21.14	21.41		0
64QAM	1	0	21.12	21.04	21.44	0-2	0
	1	50	21.11	21.15	21.50		0
	1	99	21.16	21.36	21.50		0
	50	0	20.60	20.69	20.91	0-3	0
	50	25	20.65	20.77	21.00		0
	50	50	20.48	20.71	20.99		0
	100	0	20.64	20.76	20.99		0
256QAM	1	0	18.68	18.71	18.95	0-5	2
	1	50	18.57	18.82	18.92		2
	1	99	18.82	18.94	19.00		2
	50	0	18.63	18.63	18.87		2
	50	25	18.62	18.74	18.96		2
	50	50	18.63	18.63	19.00		2
	100	0	18.64	18.72	18.98		2

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Table 9-23

LTE Band 66 (AWS) Antenna F Measured P_{Limit} for DSI = 0 (Body-worn or Phablet with grip sensor inactive), DSI = 1 (Phablet with grip sensor active), DSI = 3 (Hotspot Mode), 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	21.22	21.10	21.37	0	0
	1	25	21.21	21.26	21.50		0
	1	49	21.20	21.22	21.46		0
	25	0	21.22	21.16	21.45	0-1	0
	25	12	21.20	21.19	21.49		0
	25	25	21.28	21.22	21.44		0
	50	0	21.26	21.26	21.48		0
16QAM	1	0	21.29	21.27	21.40	0-1	0
	1	25	21.42	21.46	21.43		0
	1	49	21.40	21.43	21.47		0
	25	0	21.20	21.16	21.50	0-2	0
	25	12	21.21	21.19	21.44		0
	25	25	21.50	21.26	21.40		0
	50	0	21.24	21.25	21.40		0
64QAM	1	0	21.35	21.31	21.50	0-2	0
	1	25	21.47	21.33	21.48		0
	1	49	21.27	21.36	21.41		0
	25	0	20.80	20.76	21.00	0-3	0
	25	12	20.77	20.72	20.99		0
	25	25	20.86	20.81	20.98		0
	50	0	20.81	20.82	20.99		0
256QAM	1	0	18.73	18.74	19.00	0-5	2
	1	25	18.88	18.87	18.99		2
	1	49	18.88	18.87	19.00		2
	25	0	18.78	18.67	18.97		2
	25	12	18.80	18.80	18.95		2
	25	25	18.81	18.76	19.00		2
	50	0	18.81	18.82	18.98		2

Table 9-24

LTE Band 66 (AWS) Antenna F Uplink Carrier Aggregation Measured P_{Limit} for DSI = 0 (Body-worn or Phablet with grip sensor inactive), DSI = 1 (Phablet with grip sensor active), DSI = 3 (Hotspot Mode), and/or DSI = 4 (Earjack Active)

Combination	PCC Band	PCC Bandwidth [MHz]	PCC (UL) Channel	PCC						SCC						Power				
				PCC (UL) Frequency [MHz]	PCC DL Channel	PCC DL Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL) Channel	SCC (UL) Frequency [MHz]	SCC (DL) Channel	SCC (DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_66C	LTE B66	20	132572	1770.0	67036	2170.0	QPSK	50	0	LTE B66	20	132374	1750.2	66838	2150.2	QPSK	50	50	21.10	21.50
CA_66B	LTE B66	10	132622	1775.0	67086	2175.0	QPSK	25	0	LTE B66	10	132523	1765.1	66987	2165.1	QPSK	25	25	21.23	21.45
CA_66C	LTE B66	20	132322	1745.0	66786	2145.0	QPSK	50	0	LTE B66	20	132124	1725.2	66588	2125.2	QPSK	50	50	21.00	21.17
CA_66B	LTE B66	10	132322	1745.0	66786	2145.0	QPSK	25	0	LTE B66	10	132223	1735.1	66588	2135.1	QPSK	25	25	21.00	21.16
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	20.82	21.09
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	21.00	21.20

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Table 9-25
LTE Band 66 (AWS) Antenna F Measured P_{Limit} for 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	15.11	15.02	15.08	0	0
	1	50	15.44	15.28	15.34		0
	1	99	15.15	15.30	15.50		0
	50	0	15.23	15.12	15.32	0-1	0
	50	25	15.36	15.21	15.28		0
	50	50	15.25	15.22	15.37		0
	100	0	15.25	15.22	15.32	0	
16QAM	1	0	15.36	15.05	15.43	0-1	0
	1	50	15.26	15.29	15.51		0
	1	99	15.53	15.40	15.70		0
	50	0	15.21	15.17	15.31	0-2	0
	50	25	15.27	15.24	15.39		0
	50	50	15.23	15.28	15.38		0
	100	0	15.24	15.26	15.28	0	
64QAM	1	0	15.12	15.28	15.31	0-2	0
	1	50	15.38	15.80	15.33		0
	1	99	15.32	15.30	15.49		0
	50	0	15.12	15.06	15.17	0-3	0
	50	25	15.17	15.11	15.30		0
	50	50	15.23	15.16	15.34		0
	100	0	15.22	15.18	15.28	0	
256QAM	1	0	15.12	15.01	15.26	0-5	0
	1	50	15.31	15.19	15.51		0
	1	99	15.27	15.13	15.68		0
	50	0	15.01	15.05	15.24	0-5	0
	50	25	15.22	15.13	15.31		0
	50	50	15.13	15.06	15.35		0
	100	0	15.17	15.10	15.28		0

Table 9-26
LTE Band 66 (AWS) Antenna F Measured P_{Limit} for 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	15.31	15.36	15.46	0	0
	1	25	15.24	15.24	15.41		0
	1	49	15.27	15.14	15.49		0
	25	0	15.20	15.26	15.41	0-1	0
	25	12	15.29	15.27	15.41		0
	25	25	15.28	15.28	15.48		0
	50	0	15.25	15.29	15.35		0
16QAM	1	0	15.47	15.37	15.75	0-1	0
	1	25	15.40	15.62	15.66		0
	1	49	15.50	15.80	15.90		0
	25	0	15.26	15.24	15.46	0-2	0
	25	12	15.33	15.27	15.44		0
	25	25	15.30	15.26	15.54		0
	50	0	15.35	15.31	15.45		0
64QAM	1	0	15.39	15.34	15.45	0-2	0
	1	25	15.49	15.64	15.51		0
	1	49	15.40	15.37	15.43		0
	25	0	15.17	15.13	15.37	0-3	0
	25	12	15.22	15.22	15.37		0
	25	25	15.19	15.25	15.41		0
	50	0	15.33	15.22	15.37		0
256QAM	1	0	15.23	15.28	15.34	0-5	0
	1	25	15.34	15.31	15.52		0
	1	49	15.30	15.27	15.52		0
	25	0	15.08	15.16	15.35		0
	25	12	15.25	15.17	15.34		0
	25	25	15.23	15.20	15.46		0
	50	0	15.29	15.27	15.38		0

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Table 9-27

LTE Band 66 (AWS) Antenna F Uplink Carrier Aggregation Measured P_{Limit} for DSI = 2 (Head)

Combination	PCC									SCC									Power	
	PCC Band	PCC Bandwidth [MHz]	PCC (UL) Channel	PCC (UL) Frequency [MHz]	PCC DL Channel	PCC DL Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL) Channel	SCC (UL) Frequency [MHz]	SCC (DL) Channel	SCC (DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_66C	LTE B66	20	132572	1770.0	67036	2170.0	QPSK	50	0	LTE B66	20	132374	1750.2	66838	2150.2	QPSK	50	50	15.25	15.32
CA_66B	LTE B66	10	132622	1775.0	67086	2175.0	QPSK	25	0	LTE B66	10	132523	1765.1	66987	2165.1	QPSK	25	25	15.21	15.41

9.3.9 LTE Band 25 Antenna A

Table 9-28

LTE Band 25 (PCS) Antenna A Measured P_{Max} for DSI = 0 (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	23.29	23.28	22.93	0	0
	1	50	23.24	23.26	22.94		0
	1	99	23.24	23.21	22.92		0
	50	0	22.33	22.17	22.16	0-1	1
	50	25	22.34	22.26	22.17		1
	50	50	22.32	22.22	22.22		1
16QAM	100	0	22.31	22.25	22.18	0-1	1
	1	0	22.33	22.44	22.47		1
	1	50	22.36	22.46	22.50		1
	1	99	22.27	22.44	22.36	0-2	1
	50	0	21.30	21.16	21.17		2
	50	25	21.33	21.24	21.18		2
64QAM	50	50	21.30	21.22	21.22	0-2	2
	100	0	21.32	21.22	21.15		2
	1	0	21.40	21.38	21.37		2
	1	50	21.50	21.34	21.40	0-3	2
	1	99	21.36	21.36	21.28		2
	50	0	20.31	20.16	20.18		3
256QAM	50	25	20.30	20.26	20.17	0-3	3
	50	50	20.31	20.24	20.22		3
	100	0	20.32	20.24	20.16		3
	1	0	18.26	18.31	18.29	0-5	5
	1	50	18.36	18.29	18.31		5
	1	99	18.47	18.34	18.34		5
	50	0	18.27	18.16	18.22	0-5	5
	50	25	18.30	18.26	18.21		5
	50	50	18.30	18.25	18.27		5
	100	0	18.28	18.25	18.21		5

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Table 9-29

LTE Band 25 (PCS) Antenna A Measured P_{Limit} for DSI = 1 (Phablet with grip sensor active) 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	21.62	21.46	21.77	0	0
	1	50	21.58	21.69	21.55		0
	1	99	21.84	21.47	21.55		0
	50	0	21.61	21.47	21.43	0-1	0
	50	25	21.83	21.77	21.47		0
	50	50	21.60	21.55	21.72		0
16QAM	100	0	21.82	21.55	21.46	0-1	0
	1	0	21.87	21.55	21.80		0
	1	50	21.90	21.64	21.84		0
	1	99	21.88	21.61	21.80	0-2	0
	50	0	21.61	21.49	21.46		0
	50	25	21.63	21.59	21.48		0
64QAM	50	50	21.62	21.52	21.53	0-2	0
	100	0	21.64	21.56	21.44		0
	1	0	21.65	21.67	21.66	0-2	0
	1	50	21.70	21.70	21.70		0
	1	99	21.68	21.68	21.65		0
	256QAM	50	0	20.61	20.47	20.45	0-3
50		25	20.61	20.57	20.45	1	
50		50	20.59	20.55	20.48	1	
100		0	20.59	20.55	20.47	0-5	1
1		0	18.64	18.61	18.57		3
1		50	18.65	18.63	18.58		3
1	99	18.70	18.74	18.67	3		
50	0	18.55	18.50	18.45	3		
50	25	18.61	18.57	18.44	3		
50	50	18.61	18.54	18.51	3		
100	0	18.60	18.54	18.45	3		

Table 9-30

LTE Band 25 (PCS) Antenna A 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	19.59	19.56	19.58	0	0
	1	50	19.53	19.56	19.56		0
	1	99	19.55	19.55	19.52		0
	50	0	19.60	19.47	19.48	0-1	0
	50	25	19.63	19.54	19.48		0
	50	50	19.59	19.52	19.55		0
	100	0	19.58	19.53	19.47		0
16QAM	1	0	19.59	19.68	19.83	0-1	0
	1	50	19.62	19.80	19.83		0
	1	99	19.61	19.78	19.79		0
	50	0	19.61	19.46	19.47	0-2	0
	50	25	19.63	19.55	19.49		0
	50	50	19.63	19.54	19.54		0
	100	0	19.61	19.55	19.50		0
64QAM	1	0	19.67	19.63	19.53	0-2	0
	1	50	19.69	19.62	19.65		0
	1	99	19.65	19.62	19.60		0
	50	0	19.56	19.44	19.44	0-3	0
	50	25	19.59	19.54	19.43		0
	50	50	19.59	19.52	19.49		0
	100	0	19.60	19.55	19.44		0
256QAM	1	0	18.66	18.64	18.51	0-5	1
	1	50	18.70	18.72	18.52		1
	1	99	18.77	18.88	18.59		1
	50	0	18.58	18.48	18.46		1
	50	25	18.60	18.56	18.47		1
	50	50	18.62	18.57	18.52		1
	100	0	18.59	18.56	18.46		1

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9.3.10 LTE Band 25 Antenna F

Table 9-31

LTE Band 25 (PCS) Antenna F Measured P_{Limit} for DSI = 0 (Body-worn or Phablet with grip sensor inactive), DSI = 1 (Phablet with grip sensor active), DSI = 3 (Hotspot Mode), 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	21.71	21.40	21.42	0	0
	1	50	21.66	21.30	21.42		0
	1	99	21.56	21.29	21.40		0
	50	0	21.57	21.22	21.41	0-1	0
	50	25	21.60	21.35	21.46		0
	50	50	21.53	21.33	21.43		0
	100	0	21.56	21.34	21.40		0
16QAM	1	0	21.75	21.28	21.44	0-1	0
	1	50	21.50	21.55	21.43		0
	1	99	21.67	21.38	21.49		0
	50	0	21.63	21.35	21.27	0-2	0
	50	25	21.54	21.36	21.21		0
	50	50	21.55	21.44	21.12		0
	100	0	21.69	21.35	21.10		0
64QAM	1	0	21.72	21.54	21.50	0-2	0
	1	50	21.64	21.33	21.47		0
	1	99	21.82	21.50	21.35		0
	50	0	20.50	20.37	20.88	0-3	1
	50	25	20.58	20.33	20.70		1
	50	50	20.62	20.41	20.50		1
	100	0	20.63	20.45	20.54		1
256QAM	1	0	18.82	18.43	18.30	0-5	3
	1	50	18.66	18.39	18.44		3
	1	99	18.71	18.31	18.19		3
	50	0	18.55	18.31	18.22	0-5	3
	50	25	18.63	18.35	18.18		3
	50	50	18.59	18.25	18.20		3
	100	0	18.61	18.27	18.26		3

Table 9-32

LTE Band 25 (PCS) Antenna F Measured P_{Limit} for 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	16.50	16.27	16.26	0	0
	1	50	16.59	16.58	16.28		0
	1	99	16.57	16.48	16.44		0
	50	0	16.59	16.52	16.48	0-1	0
	50	25	16.60	16.45	16.59		0
	50	50	16.54	16.58	16.50		0
	100	0	16.58	16.44	16.48		0
16QAM	1	0	16.71	16.80	16.95	0-1	0
	1	50	16.70	16.62	16.69		0
	1	99	16.73	16.55	16.67		0
	50	0	16.58	16.50	16.49	0-2	0
	50	25	16.54	16.46	16.37		0
	50	50	16.60	16.55	16.49		0
	100	0	16.58	16.47	16.61		0
64QAM	1	0	16.73	16.59	16.51	0-2	0
	1	50	16.75	16.72	16.63		0
	1	99	16.60	16.46	16.67		0
	50	0	16.55	16.52	16.47	0-3	0
	50	25	16.62	16.48	16.53		0
	50	50	16.64	16.58	16.51		0
	100	0	16.57	16.47	16.62		0
256QAM	1	0	16.70	16.61	16.55	0-5	0
	1	50	16.59	16.63	16.52		0
	1	99	16.61	16.75	16.73		0
	50	0	16.56	16.45	16.48	0-5	0
	50	25	16.59	16.53	16.59		0
	50	50	16.60	16.56	16.52		0
	100	0	16.60	16.43	16.56		0

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9.3.11 LTE Band 30 Antenna A

Table 9-33
LTE Band 30 Antenna A Measured P_{Max} for DSI = 0 (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	22.49	0	0
	1	25	22.58		0
	1	49	22.50		0
	25	0	21.45	0-1	1
	25	12	21.56		1
	25	25	21.57		1
16QAM	50	0	21.55	0-1	1
	1	0	21.68		1
	1	25	21.72		1
	1	49	21.80	0-2	1
	25	0	20.47		2
	25	12	20.57		2
64QAM	25	25	20.58	0-2	2
	50	0	20.55		2
	1	0	20.54	0-2	2
	1	25	20.69		2
	1	49	20.60	0-3	2
	25	0	19.49		3
256QAM	25	12	19.57		3
	25	25	19.57	0-3	3
	50	0	19.56		3
	1	0	17.46	0-5	5
	1	25	17.67		5
	1	49	17.57		5
	25	0	17.48	0-5	5
	25	12	17.61		5
	25	25	17.59		5
	50	0	17.58		5

Table 9-34
LTE Band 30 Antenna A 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	18.45	0	0
	1	25	18.52		0
	1	49	18.46		0
	25	0	18.44	0-1	0
	25	12	18.59		0
	25	25	18.52		0
16QAM	50	0	18.51	0-1	0
	1	0	18.91		0
	1	25	18.95		0
	1	49	18.96	0-2	0
	25	0	18.66		0
	25	12	18.77		0
64QAM	25	25	18.79	0-2	0
	50	0	18.77		0
	1	0	18.85	0-2	0
	1	25	18.88		0
	1	49	18.86	0-3	0
	25	0	18.66		0
256QAM	25	12	18.78		0
	25	25	18.75	0-3	0
	50	0	18.73		0
	1	0	17.33	0-5	1.9
	1	25	17.46		1.9
	1	49	17.38		1.9
	25	0	17.26	0-5	1.9
	25	12	17.37		1.9
	25	25	17.35		1.9
	50	0	17.38		1.9

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Table 9-35
LTE Band 30 Antenna A Measured P_{Limit} for DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack Active) - 10 MHz Bandwidth

LTE Band 30 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			27710 (2310.0 MHz) Conducted Power [dBm]		
QPSK	1	0	20.50	0	0
	1	25	20.53		0
	1	49	20.48		0
	25	0	20.45	0-1	0
	25	12	20.57		0
	25	25	20.53		0
16QAM	50	0	20.52	0-1	0
	1	0	20.80		0
	1	25	20.74		0
	1	49	20.74	0-2	0
	25	0	20.31		0.9
	25	12	20.40		0.9
64QAM	25	25	20.38	0-2	0.9
	50	0	20.40		0.9
	1	0	20.48		0.9
	1	25	20.53	0-2	0.9
	1	49	20.52		0.9
	25	0	19.27		1.9
256QAM	25	12	19.42	0-3	1.9
	25	25	19.36		1.9
	50	0	19.39		1.9
	1	0	17.33	0-5	3.9
	1	25	17.44		3.9
	1	49	17.42		3.9
	25	0	17.25		3.9
	25	12	17.37		3.9
	25	25	17.34		3.9
	50	0	17.38		3.9

9.3.12 LTE Band 30 Antenna F

Table 9-36
LTE Band 30 Antenna F Measured P_{Limit} for DSI = 0 (Body-worn or Phablet with grip sensor inactive), DSI = 1 (Phablet with grip sensor active), DSI = 3 (Hotspot Mode), and/or DSI = 4 (Earjack Active) - 10 MHz Bandwidth

LTE Band 30 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			27710 (2310.0 MHz) Conducted Power [dBm]		
QPSK	1	0	19.66	0	0
	1	25	19.63		0
	1	49	19.55		0
	25	0	19.63	0-1	0
	25	12	19.57		0
	25	25	19.53		0
16QAM	50	0	19.51	0-1	0
	1	0	19.86		0
	1	25	19.95		0
	1	49	19.86	0-2	0
	25	0	19.22		0.5
	25	12	19.11		0.5
64QAM	25	25	19.04	0-2	0.5
	50	0	19.10		0.5
	1	0	19.30	0-2	0.5
	1	25	19.33		0.5
	1	49	19.18		0.5
	25	0	18.18	0-3	1.5
256QAM	25	12	18.10		1.5
	25	25	18.09		1.5
	50	0	18.08	0-5	1.5
	1	0	16.18		3.5
	1	25	16.25		3.5
	1	49	16.08		3.5
	25	0	16.17		3.5
	25	12	16.10		3.5
	25	25	16.12		3.5
	50	0	16.12		3.5

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Table 9-37
LTE Band 30 Antenna F Measured P_{Limit} for 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	15.20	0	0
	1	25	15.22		0
	1	49	15.21		0
	25	0	15.23	0-1	0
	25	12	15.17		0
	25	25	15.16		0
16QAM	50	0	15.14	0-1	0
	1	0	15.52		0
	1	25	15.48		0
	1	49	15.49	0-2	0
	25	0	15.28		0
	25	12	15.17		0
64QAM	25	25	15.12	0-2	0
	50	0	15.15		0
	1	0	15.56	0-2	0
	1	25	15.41		0
	1	49	15.40		0
	25	0	15.19	0-3	0
256QAM	25	12	15.25		0
	25	25	15.20		0
	50	0	15.11	0-5	0
	1	0	15.34		0
	1	25	15.46		0
	1	49	15.06		0
	25	0	15.23		0
	25	12	15.18		0
	25	25	15.14		0
	50	0	15.15		0

9.3.13 LTE Band 7 Antenna B

Table 9-38
LTE Band 7 Antenna B Measured P_{Max} for DSI = 0 (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	22.82	22.72	22.81	0	0
	1	50	22.88	22.75	22.99		0
	1	99	22.81	22.70	22.96		0
	50	0	21.84	21.85	21.87	0-1	1
	50	25	21.95	21.91	21.88		1
	50	50	21.93	21.87	21.96		1
16QAM	100	0	21.92	21.92	21.89	0-1	1
	1	0	22.04	22.05	22.19		1
	1	50	22.12	22.04	22.20		0-2
	1	99	22.03	22.02	22.11	1	
	50	0	20.86	20.86	20.86	2	
	50	25	20.97	20.95	20.90	0-2	2
50	50	20.91	20.91	20.96	2		
100	0	20.94	20.92	20.87	2		
64QAM	1	0	20.95	20.92	21.16	0-2	2
	1	50	21.07	21.05	21.14		2
	1	99	21.07	20.98	21.18		2
	50	0	19.85	19.86	19.86	0-3	3
	50	25	19.95	19.92	19.86		3
	50	50	19.89	19.90	19.92		3
256QAM	100	0	19.92	19.91	19.86	0-5	3
	1	0	17.98	17.94	18.00		5
	1	50	18.05	17.92	18.06		5
	1	99	17.98	18.07	18.13		5
	50	0	17.84	17.84	17.80		5
	50	25	17.92	17.91	17.85		5
50	50	17.90	17.90	17.91	5		
100	0	17.90	17.90	17.84	5		

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Table 9-39
LTE Band 7 Antenna B Measured P_{Limit} for DSI = 1 (Phablet with grip sensor active), 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	21.29	21.30	21.32	0	0
	1	50	21.37	21.23	21.38		0
	1	99	21.28	21.22	21.49		0
	50	0	21.36	21.34	21.34	0-1	0
	50	25	21.43	21.41	21.35		0
	50	50	21.42	21.40	21.44		0
	100	0	21.42	21.43	21.33		0
16QAM	1	0	21.47	21.54	21.59	0-1	0
	1	50	21.64	21.62	21.75		0
	1	99	21.59	21.55	21.64		0
	50	0	20.88	20.85	20.85	0-2	0.5
	50	25	20.97	20.97	20.84		0.5
	50	50	20.91	20.93	20.92		0.5
	100	0	20.93	20.91	20.84		0.5
64QAM	1	0	20.87	21.02	21.02	0-2	0.5
	1	50	21.00	21.07	21.03		0.5
	1	99	20.89	20.97	20.99		0.5
	50	0	19.86	19.83	19.83	0-3	1.5
	50	25	19.95	19.93	19.84		1.5
	50	50	19.91	19.90	19.88		1.5
	100	0	19.91	19.91	19.85		1.5
256QAM	1	0	17.93	17.90	17.96	0-5	3.5
	1	50	18.10	17.96	18.04		3.5
	1	99	18.07	18.08	18.17		3.5
	50	0	17.82	17.81	17.78		3.5
	50	25	17.96	17.90	17.83		3.5
	50	50	17.93	17.88	17.88		3.5
	100	0	17.94	17.89	17.83		3.5

Table 9-40
LTE Band 7 Antenna B 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	20.32	20.29	20.27	0	0
	1	50	20.40	20.29	20.21		0
	1	99	20.35	20.22	20.22		0
	50	0	20.33	20.33	20.33	0-1	0
	50	25	20.43	20.40	20.34		0
	50	50	20.37	20.38	20.40		0
	100	0	20.39	20.39	20.35		0
16QAM	1	0	20.63	20.43	20.59	0-1	0
	1	50	20.73	20.56	20.62		0
	1	99	20.59	20.55	20.55		0
	50	0	20.32	20.33	20.34	0-2	0
	50	25	20.42	20.40	20.33		0
	50	50	20.39	20.38	20.44		0
	100	0	20.42	20.42	20.36		0
64QAM	1	0	20.47	20.44	20.48	0-2	0
	1	50	20.61	20.59	20.56		0
	1	99	20.43	20.44	20.54		0
	50	0	19.81	19.81	19.86	0-3	1
	50	25	19.96	19.89	19.85		1
	50	50	19.89	19.86	19.90		1
	100	0	19.94	19.92	19.86		1
256QAM	1	0	17.99	17.92	17.95	0-5	3
	1	50	17.95	17.92	18.01		3
	1	99	18.12	17.98	18.11		3
	50	0	17.81	17.83	17.81		3
	50	25	17.92	17.93	17.81		3
	50	50	17.90	17.90	17.91		3
	100	0	17.91	17.90	17.81		3

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9.3.14 LTE Band 7 Antenna F

Table 9-41

LTE Band 7 Antenna F Measured P_{Limit} for DSI = 0 (Body-worn or Phablet with grip sensor inactive), DSI = 1 (Phablet with grip sensor active), DSI = 3 (Hotspot Mode), 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	19.91	19.66	19.59	0	0
	1	50	19.76	19.62	19.60		0
	1	99	19.73	19.67	19.54		0
	50	0	19.94	19.60	19.57	0-1	0
	50	25	19.92	19.61	19.56		0
	50	50	19.84	19.59	19.50		0
	100	0	19.84	19.60	19.56		0
16QAM	1	0	19.92	19.95	19.71	0-1	0
	1	50	19.82	19.71	19.63		0
	1	99	19.90	19.82	19.58		0
	50	0	19.94	19.66	19.60	0-2	0
	50	25	19.98	19.68	19.58		0
	50	50	19.77	19.63	19.54		0
	100	0	19.89	19.62	19.55		0
64QAM	1	0	19.89	19.70	19.69	0-2	0
	1	50	20.15	19.58	19.57		0
	1	99	19.82	19.60	19.57		0
	50	0	19.94	19.72	19.54	0-3	0
	50	25	19.86	19.61	19.55		0
	50	50	19.82	19.66	19.48		0
	100	0	19.83	19.50	19.61		0
256QAM	1	0	18.13	17.89	17.77	0-5	2
	1	50	18.31	17.73	17.50		2
	1	99	18.00	17.62	17.74		2
	50	0	17.88	17.73	17.62		2
	50	25	18.17	17.69	17.60		2
	50	50	17.87	17.67	17.71		2
	100	0	17.90	17.71	17.70		2

Table 9-42

LTE Band 7 Antenna F Measured P_{Limit} for 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	15.81	15.81	15.74	0	0
	1	50	15.80	15.80	15.78		0
	1	99	15.83	15.76	15.71		0
	50	0	16.09	15.91	15.75	0-1	0
	50	25	16.07	15.90	15.75		0
	50	50	15.99	15.90	15.73		0
	100	0	15.82	15.80	15.75		0
16QAM	1	0	16.25	15.96	16.05	0-1	0
	1	50	16.11	15.99	16.00		0
	1	99	16.19	15.92	15.97		0
	50	0	16.09	15.94	15.77	0-2	0
	50	25	16.09	15.93	15.79		0
	50	50	15.99	15.90	15.77		0
	100	0	16.07	15.89	15.78		0
64QAM	1	0	16.24	15.96	16.06	0-2	0
	1	50	16.31	15.98	15.97		0
	1	99	16.18	15.93	15.95		0
	50	0	16.09	15.90	15.78	0-3	0
	50	25	16.05	15.84	15.79		0
	50	50	16.01	15.90	15.76		0
	100	0	16.06	15.91	15.77		0
256QAM	1	0	16.26	15.97	16.03	0-5	0
	1	50	16.32	15.98	16.00		0
	1	99	16.20	15.92	16.03		0
	50	0	16.13	15.93	15.81		0
	50	25	16.08	15.89	15.78		0
	50	50	16.02	15.90	15.75		0
	100	0	16.09	15.90	15.77		0

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9.3.15 LTE Band 48

Table 9-43

LTE Band 48 Measured P_{Limit} for DSI = 0 (Body-worn or Phablet with grip sensor inactive), DSI = 1 (Phablet with grip sensor active), DSI = 3 (Hotspot Mode), 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	20.10	20.34	20.76	20.78	0	0
	1	50	20.08	20.50	20.86	20.80		0
	1	99	20.15	20.64	20.95	20.76		0
	50	0	20.21	20.49	20.91	20.94	0-1	0
	50	25	20.28	20.59	20.98	20.97		0
	50	50	20.30	20.66	20.93	20.90		0
	100	0	20.27	20.59	20.92	20.91		0
16QAM	1	0	20.17	20.29	20.72	20.76	0-1	0
	1	50	20.28	20.55	20.85	20.86		0
	1	99	20.31	20.60	20.85	20.71		0
	50	0	20.04	20.30	20.67	20.73	0-2	0
	50	25	20.08	20.39	20.75	20.79		0
	50	50	20.11	20.47	20.69	20.68		0
	100	0	20.11	20.39	20.74	20.76		0
64QAM	1	0	19.97	20.14	20.53	20.59	0-2	0
	1	50	20.03	20.32	20.68	20.63		0
	1	99	20.08	20.44	20.61	20.54		0
	50	0	19.06	19.28	19.66	19.76	0-3	1
	50	25	19.12	19.38	19.75	19.77		1
	50	50	19.14	19.45	19.70	19.70		1
	100	0	19.08	19.39	19.75	19.77		1
256QAM	1	0	17.00	17.15	17.53	17.68	0-5	3
	1	50	17.04	17.27	17.63	17.62		3
	1	99	17.18	17.49	17.70	17.53		3
	50	0	17.04	17.28	17.67	17.72		3
	50	25	17.11	17.37	17.76	17.77		3
	50	50	17.17	17.46	17.73	17.68		3
	100	0	17.12	17.36	17.77	17.75		3

Table 9-44

LTE Band 48 Uplink Carrier Aggregation Measured P_{Limit} for DSI = 0 (Body-worn or Phablet with grip sensor inactive), DSI = 1 (Phablet with grip sensor active), DSI = 3 (Hotspot Mode), and/or DSI = 4 (Earjack Active)

Combination	PCC				Modulation	PCC UL# RB		SCC Band	SCC Bandwidth [MHz]		SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]		Modulation	SCC UL# RB		Power	
	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]													LTE Tx Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_48C	LTE B48	20	56207	3646.7	QPSK	1	99	LTE B48	20	56405	3666.5	QPSK	1	0			20.93	20.95

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Table 9-45
LTE Band 48 Measured P_{Limit} for 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	15.80	16.08	16.10	16.00	0	0
	1	50	16.07	16.27	15.96	16.08		0
	1	99	15.85	16.15	15.99	16.12		0
	50	0	16.20	16.32	16.15	16.18	0-1	0
	50	25	15.95	16.24	16.19	16.26		0
	50	50	15.97	16.27	16.09	16.23		0
	100	0	15.93	16.26	16.15	16.24		0
16QAM	1	0	15.81	16.08	16.04	16.08	0-1	0
	1	50	15.85	16.26	16.19	16.24		0
	1	99	15.88	16.17	16.14	16.29		0
	50	0	15.98	16.27	16.14	16.18	0-2	0
	50	25	15.93	16.22	16.18	16.24		0
	50	50	16.00	16.28	16.12	16.20		0
	100	0	15.93	16.24	16.19	16.23		0
64QAM	1	0	15.96	16.21	16.12	16.12	0-2	0
	1	50	15.94	16.21	16.12	16.23		0
	1	99	16.05	16.27	16.06	16.26		0
	50	0	15.97	16.27	16.17	16.18	0-3	0
	50	25	15.93	16.25	16.17	16.26		0
	50	50	15.98	16.25	16.15	16.22		0
	100	0	15.92	16.22	16.13	16.24		0
256QAM	1	0	15.50	15.77	15.82	15.79	0-5	0
	1	50	15.59	15.90	15.65	15.85		0
	1	99	15.72	16.03	15.77	15.83		0
	50	0	15.66	15.92	15.80	15.92		0
	50	25	15.71	16.03	15.82	15.95		0
	50	50	15.77	16.02	15.76	15.88		0
	100	0	15.72	15.98	15.82	15.92		0

Table 9-46
LTE Band 48 Uplink Carrier Aggregation Measured P_{Limit} for DSI = 2 (Head)

Combination	PCC								SCC				Power			
	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	55340	3560.0	QPSK	1	99	LTE B48	20	55538	3579.8	QPSK	1	0	15.82	15.85

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9.3.16 LTE Band 41 Antenna B

Table 9-47

LTE Band 41 PC3 Antenna B Measured P_{Max} for DSI = 0 (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 39750 (2506.0 MHz)	Low-Mid Channel 40185 (2549.5 MHz)	Mid Channel 40620 (2593.0 MHz)	Mid-High Channel 41055 (2636.5 MHz)	High Channel 41490 (2680.0 MHz)	MPR Allowed per 3GPP [dB]
Conducted Power [dBm]								
QPSK	1	0	23.72	23.81	23.54	23.36	23.58	0
	1	50	23.73	23.86	23.46	23.34	23.70	0
	1	99	23.65	23.77	23.52	23.44	23.62	0
	50	0	22.79	22.73	22.65	22.43	22.60	1
	50	25	22.86	22.87	22.65	22.45	22.62	1
	50	50	22.82	22.81	22.66	22.54	22.70	1
16QAM	100	0	22.84	22.81	22.65	22.44	22.61	1
	1	0	22.65	22.72	22.60	22.41	22.48	1
	1	50	22.77	22.78	22.63	22.39	22.58	1
	1	99	22.61	22.61	22.58	22.50	22.64	1
	50	0	21.77	21.75	21.65	21.41	21.62	2
	50	25	21.86	21.83	21.67	21.45	21.65	2
64QAM	50	50	21.82	21.80	21.66	21.52	21.72	2
	100	0	21.86	21.83	21.64	21.46	21.64	2
	1	0	21.64	21.69	21.63	21.47	21.54	2
	1	50	21.66	21.68	21.64	21.47	21.52	2
	1	99	21.61	21.60	21.69	21.54	21.62	2
	50	0	20.77	20.74	20.64	20.42	20.61	3
256QAM	50	25	20.83	20.81	20.65	20.45	20.64	3
	50	50	20.82	20.81	20.64	20.53	20.71	3
	100	0	20.85	20.81	20.66	20.45	20.61	3
	1	0	18.75	18.82	18.71	18.36	18.54	5
	1	50	18.80	18.81	18.68	18.57	18.60	5
	1	99	18.79	18.69	18.68	18.54	18.56	5
	50	0	18.76	18.74	18.61	18.44	18.54	5
	50	25	18.84	18.83	18.64	18.45	18.61	5
	50	50	18.84	18.80	18.64	18.49	18.65	5
	100	0	18.82	18.82	18.62	18.41	18.59	5

Table 9-48

LTE Band 41 PC2 Antenna B Measured P_{Max} for DSI = 0 (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 39750 (2506.0 MHz)	Low-Mid Channel 40185 (2549.5 MHz)	Mid Channel 40620 (2593.0 MHz)	Mid-High Channel 41055 (2636.5 MHz)	High Channel 41490 (2680.0 MHz)	MPR Allowed per 3GPP [dB]
Conducted Power [dBm]								
QPSK	1	0	25.15	25.23	25.29	24.95	25.24	0
	1	50	25.18	25.25	25.22	24.93	25.22	0
	1	99	25.15	25.23	25.29	25.03	25.34	0
	50	0	24.25	24.34	24.24	24.00	24.13	1
	50	25	24.34	24.44	24.24	24.02	24.16	1
	50	50	24.31	24.36	24.24	24.12	24.24	1
	100	0	24.33	24.40	24.23	24.02	24.15	1

Table 9-49

LTE Band 41 Antenna B Uplink Carrier Aggregation Measured P_{Max} for DSI = 0 (Body-worn or Phablet with grip sensor inactive) 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_41C	LTE B41	20	40185	2549.5	QPSK	1	0	LTE B41	20	39987	2529.7	QPSK	1	99	24.09	23.81
	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	40185	2549.5	QPSK	1	0	LTE B41 PC2	20	39987	2529.7	QPSK	1	99	25.49	25.23

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Table 9-50

LTE Band 41 PC3 Antenna B Measured P_{Limit} for DSI = 1 (Phablet with grip sensor active) or DSI = 3 (Hotspot Mode), 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	23.10	23.06	23.04	22.84	23.05	0	0
	1	50	23.04	23.20	22.99	22.83	23.01		0
	1	99	23.07	23.16	23.02	22.91	23.00		0
	50	0	22.95	22.98	22.89	22.70	22.93	0-1	0
	50	25	23.05	23.09	22.90	22.68	22.87		0
	50	50	22.99	23.04	22.88	22.78	22.93		0
	100	0	23.04	23.06	22.89	22.67	22.87	0	
16QAM	1	0	22.93	22.97	23.05	22.72	22.84	0-1	0
	1	50	23.03	23.10	23.03	22.69	22.87		0
	1	99	22.96	22.90	22.92	22.77	22.87		0
	50	0	21.97	21.97	21.89	21.68	21.85	0-2	1
	50	25	22.06	22.07	21.89	21.70	21.86		1
	50	50	22.01	22.01	21.89	21.78	21.93		1
	100	0	22.04	22.03	21.88	21.68	21.84		1
64QAM	1	0	21.94	22.05	21.86	21.64	21.91	0-2	1
	1	50	21.91	22.11	21.89	21.68	21.90		1
	1	99	21.91	22.08	21.87	21.80	21.89		1
	50	0	21.00	21.01	20.89	20.66	20.83	0-3	2
	50	25	21.11	21.08	20.90	20.67	20.84		2
	50	50	21.07	21.05	20.88	20.77	20.94		2
	100	0	21.08	21.06	20.89	20.69	20.88		2
256QAM	1	0	19.00	18.99	18.85	18.61	18.69	0-5	4
	1	50	19.06	18.98	18.78	18.63	18.82		4
	1	99	18.95	19.16	18.75	18.67	18.88		4
	50	0	18.96	18.99	18.88	18.68	18.79	0-5	4
	50	25	19.06	19.07	18.91	18.71	18.85		4
	50	50	19.08	19.07	18.88	18.77	18.91		4
	100	0	19.07	19.06	18.87	18.66	18.79		4

Table 9-51

LTE Band 41 PC2 Antenna B Measured P_{Limit} for DSI = 1 (Phablet with grip sensor active) or DSI = 3 (Hotspot Mode), 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	24.80	24.94	24.83	24.48	24.78	0	0
	1	50	24.81	24.94	24.77	24.46	24.68		0
	1	99	24.77	24.88	24.79	24.53	24.82		0
	50	0	24.49	24.42	24.37	24.14	24.25	0-1	0
	50	25	24.57	24.54	24.36	24.17	24.30		0
	50	50	24.53	24.49	24.36	24.24	24.33		0
	100	0	24.55	24.52	24.36	24.13	24.28		0

Table 9-52

LTE Band 41 Antenna B Uplink Carrier Aggregation Measured P_{Limit} for DSI = 1 (Phablet with grip sensor active) or DSI = 3 (Hotspot Mode), and/or DSI = 4 (Earjack Active)

Combination	PCC							SCC							Power	
	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	40185	2549.5	QPSK	1	99	LTE B41	20	40383	2569.3	QPSK	1	0	23.14
CA_41C	LTE B41	20	41490	2680.0	QPSK	50	0	LTE B41	20	41292	2660.2	QPSK	50	50	23.20	22.93
Combination	PCC							SCC							Power	
	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	40185	2549.5	QPSK	1	99	LTE B41 PC2	20	40383	2569.3	QPSK	1	0	24.87
CA_41C	LTE B41 PC2	20	41490	2680.0	QPSK	50	0	LTE B41 PC2	20	41292	2660.2	QPSK	50	50	24.63	24.25

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9.3.17 LTE Band 41 Antenna F

Table 9-53

LTE Band 41 PC3 Antenna F Measured P_{Limit} for DSI = 0 (Body-worn or Phablet with grip sensor inactive), DSI = 1 (Phablet with grip sensor active), DSI = 3 (Hotspot Mode), 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	22.23	21.72	21.61	21.67	21.62	0	0
	1	50	22.23	21.70	21.56	21.75	21.64		0
	1	99	22.10	21.56	21.61	21.79	21.70		0
	50	0	22.19	21.87	21.66	21.64	21.71	0-1	0
	50	25	22.16	21.86	21.78	21.67	21.76		0
	50	50	22.10	21.81	21.75	21.73	21.82		0
16QAM	100	0	22.14	21.83	21.75	21.65	21.71	0-1	0
	1	0	22.16	21.84	21.63	21.58	21.67		0
	1	50	22.16	21.68	21.52	21.66	21.75		0
	1	99	22.00	21.71	21.65	21.61	21.79	0-2	0
	50	0	22.05	21.68	21.47	21.42	21.54		0
	50	25	21.98	21.66	21.57	21.46	21.57		0
	50	50	21.93	21.64	21.57	21.53	21.65	0	
	100	0	21.96	21.66	21.54	21.45	21.56	0	
64QAM	1	0	21.85	21.65	21.56	21.35	21.51	0-2	0
	1	50	21.91	21.66	21.50	21.40	21.62		0
	1	99	21.83	21.53	21.52	21.42	21.62		0
	50	0	21.03	20.69	20.47	20.40	20.55	0-3	0.5
	50	25	20.98	20.66	20.55	20.44	20.57		0.5
	50	50	20.90	20.62	20.53	20.50	20.64		0.5
256QAM	100	0	20.96	20.66	20.52	20.45	20.55	0-5	0.5
	1	0	19.00	18.65	18.46	18.39	18.54		2.5
	1	50	18.89	18.63	18.49	18.46	18.64		2.5
	1	99	18.86	18.51	18.54	18.57	18.69		2.5
	50	0	19.02	18.63	18.47	18.42	18.49		2.5
	50	25	18.95	18.64	18.56	18.46	18.57		2.5
	50	50	18.88	18.61	18.54	18.50	18.61		2.5
100	0	18.91	18.62	18.55	18.45	18.54	2.5		

Table 9-54

LTE Band 41 PC2 Antenna F Measured P_{Limit} for DSI = 0 (Body-worn or Phablet with grip sensor inactive), DSI = 1 (Phablet with grip sensor active), DSI = 3 (Hotspot Mode), 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	23.69	23.28	23.14	23.30	23.30	0	0
	1	50	23.68	23.21	23.11	23.32	23.34		0
	1	99	23.59	23.17	23.20	23.39	23.41		0
	50	0	23.64	23.31	23.19	23.20	23.25	0-1	0
	50	25	23.58	23.32	23.30	23.23	23.28		0
	50	50	23.61	23.28	23.31	23.30	23.37		0
	100	0	23.55	23.30	23.25	23.20	23.26		0

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Table 9-55

LTE Band 41 Antenna F Uplink Carrier Aggregation Measured P_{Limit} for DSI = 0 (Body-worn or Phablet with grip sensor inactive), DSI = 1 (Phablet with grip sensor active), DSI = 3 (Hotspot Mode), and/or DSI = 4 (Earjack Active)

Combination	PCC							SCC							Power	
	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	39750	2506.0	QPSK	50	50	LTE B41	20	39948	2525.8	QPSK	50	0	21.93	22.10

Combination	PCC							SCC							Power	
	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	39750	2506.0	QPSK	50	50	LTE B41 PC2	20	39948	2525.8	QPSK	50	0	23.50	23.61

Table 9-56

LTE Band 41 PC3 Antenna F Measured P_{Limit} for 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	16.83	16.51	16.44	16.48	16.46	0	0
	1	50	16.81	16.43	16.40	16.45	16.43		0
	1	99	16.71	16.35	16.50	16.49	16.52		0
	50	0	16.92	16.58	16.47	16.54	16.44	0-1	0
	50	25	16.86	16.59	16.57	16.51	16.47		0
	50	50	16.87	16.55	16.54	16.55	16.58		0
	100	0	16.82	16.60	16.55	16.52	16.47	0	
16QAM	1	0	16.69	16.41	16.46	16.48	16.45	0-1	0
	1	50	16.98	16.33	16.45	16.41	16.55		0
	1	99	16.82	16.29	16.52	16.37	16.61		0
	50	0	16.91	16.66	16.46	16.54	16.45	0-2	0
	50	25	16.84	16.56	16.59	16.49	16.47		0
	50	50	16.86	16.57	16.56	16.52	16.55		0
	100	0	16.84	16.57	16.56	16.50	16.49	0	
64QAM	1	0	16.92	16.68	16.48	16.56	16.49	0-2	0
	1	50	16.84	16.52	16.49	16.48	16.52		0
	1	99	16.80	16.47	16.69	16.53	16.69		0
	50	0	16.95	16.66	16.48	16.54	16.44	0-3	0
	50	25	16.86	16.58	16.56	16.51	16.47		0
	50	50	16.84	16.55	16.51	16.51	16.52		0
	100	0	16.83	16.56	16.54	16.49	16.44	0	
256QAM	1	0	16.69	16.64	16.47	16.49	16.51	0-5	0
	1	50	16.89	16.44	16.31	16.40	16.52		0
	1	99	16.78	16.30	16.47	16.40	16.42		0
	50	0	16.92	16.66	16.48	16.53	16.44	0-5	0
	50	25	16.87	16.62	16.58	16.50	16.48		0
	50	50	16.88	16.56	16.50	16.56	16.55		0
	100	0	16.85	16.60	16.54	16.49	16.47		0

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Table 9-57
LTE Band 41 PC2 Antenna F Measured P_{Limit} for 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	18.71	18.43	18.38	18.50	18.32	0	0
	1	50	18.72	18.35	18.25	18.28	18.24		0
	1	99	18.65	18.23	18.36	18.25	18.30		0
	50	0	18.70	18.37	18.24	18.26	18.14	0-1	0
	50	25	18.61	18.32	18.29	18.21	18.17		0
	50	50	18.60	18.27	18.30	18.23	18.23		0
	100	0	18.63	18.31	18.25	18.21	18.17		0

Table 9-58
LTE Band 41 Antenna F Uplink Carrier Aggregation Measured P_{Limit} for DSI = 2 (Head)

Combination	PCC								SCC								Power	
	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		16.48	16.44
Combination	PCC								SCC								Power	
	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		18.11	18.14



Figure 9-3
Power Measurement Setup

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9.4 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 LTE and NR Lower Bandwidth RF Conducted Powers Appendix.

Note: Some bands do not support non-overlapping channels. Per FCC Guidance, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

9.4.1 NR Band n71

Table 9-59
NR Band n71 Measured P_{Max} for all DSI - 20 MHz Bandwidth

NR Band n71 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			136100 (680.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	24.62	0	0.0
	1	53	24.56		0.0
	1	104	24.75		0.0
	50	0	24.20	0-0.5	0.5
	50	28	24.58	0	0.0
	50	56	24.13	0-0.5	0.5
	100	0	24.13		0.5
DFT-s-OFDM QPSK	1	1	24.57	0	0.0
	1	53	24.46		0.0
	1	104	24.58		0.0
	50	0	23.68	0-1	1.0
	50	28	24.58	0	0.0
	50	56	23.55	0-1	1.0
	100	0	23.62		1.0
DFT-s-OFDM 16QAM	1	1	23.86	0-1	1.0
CP-OFDM QPSK	1	1	23.03	0-1.5	1.5

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9.4.2 NR Band n12

Table 9-60
NR Band n12 Measured P_{Max} for all DSI - 15 MHz Bandwidth

NR Band n12 15 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			141500 (707.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	24.42	0	0.0
	1	40	24.37		0.0
	1	77	24.04		0.0
	36	0	23.90	0-0.5	0.5
	36	22	24.34	0	0.0
	36	43	23.83	0-0.5	0.5
	75	0	23.89		0.5
DFT-s-OFDM QPSK	1	1	24.39	0	0.0
	1	40	24.21		0.0
	1	77	24.31		0.0
	36	0	23.35	0-1	1.0
	36	22	24.33	0	0.0
	36	43	23.26	0-1	1.0
	75	0	23.38		1.0
DFT-s-OFDM 16QAM	1	1	23.74	0-1	1.0
CP-OFDM QPSK	1	1	22.85	0-1.5	1.5

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9.4.3 NR Band n26

Table 9-61

NR Band n26 Measured P_{Max} for DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 1 (Phablet with grip sensor active), or DSI = 3 (Hotspot Mode) and/or DSI = 4 (Earjack Active) – 20 MHz Bandwidth

NR Band n26 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			166300 (831.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	23.88	0	0.0
	1	53	23.96		0.0
	1	104	23.96		0.0
	50	0	23.47	0-0.5	0.5
	50	28	23.89	0	0.0
	50	56	23.39	0-0.5	0.5
	100	0	23.43		0.5
DFT-s-OFDM QPSK	1	1	23.78	0	0.0
	1	53	23.72		0.0
	1	104	23.68		0.0
	50	0	22.89	0-1	1.0
	50	28	23.83	0	0.0
	50	56	22.88	0-1	1.0
	100	0	22.85		1.0
DFT-s-OFDM 16QAM	1	1	22.96	0-1	1.0
CP-OFDM QPSK	1	1	22.36	0-1.5	1.5

Table 9-62

NR Band n26 Measured P_{limit} for DSI = 2 (Head) - 20 MHz Bandwidth

NR Band n26 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			166300 (831.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	22.68	0	0.0
	1	53	22.54		0.0
	1	104	22.60		0.0
	50	0	22.65	0-0.5	0.0
	50	28	22.58	0	0.0
	50	56	22.58	0-0.5	0.0
	100	0	22.64		0.0
DFT-s-OFDM QPSK	1	1	22.80	0	0.0
	1	53	22.43		0.0
	1	104	22.52		0.0
	50	0	22.65	0-1	0.0
	50	28	22.58	0	0.0
	50	56	22.63	0-1	0.0
	100	0	22.58		0.0
DFT-s-OFDM 16QAM	1	1	22.89	0-1	0.0
CP-OFDM QPSK	1	1	22.67	0-1.5	0.0

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9.4.4 NR Band n66 Antenna A

Table 9-63
NR Band n66 Antenna 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	23.46	0	0.0
	1	108	23.49		0.0
	1	214	23.15		0.0
	108	0	23.02	0-0.5	0.5
	108	54	23.43	0	0.0
	108	108	22.94	0-0.5	0.5
	216	0	22.97		0.5
DFT-s-OFDM QPSK	1	1	23.31	0	0.0
	1	108	23.33		0.0
	1	214	23.05		0.0
	108	0	22.51	0-1	1.0
	108	54	23.43	0	0.0
	108	108	22.49	0-1	1.0
	216	0	22.45		1.0
DFT-s-OFDM 16QAM	1	1	22.76	0-1	1.0
CP-OFDM QPSK	1	1	21.89	0-1.5	1.5

Table 9-64
NR Band n66 Antenna A Measured P_{Limit} for DSI = 1 (Phablet with grip sensor active) 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	21.45	0	0.0
	1	108	21.43		0.0
	1	214	21.13		0.0
	108	0	21.55	0-0.5	0.0
	108	54	21.47	0	0.0
	108	108	21.44	0-0.5	0.0
	216	0	21.43		0.0
DFT-s-OFDM QPSK	1	1	21.36	0	0.0
	1	108	21.34		0.0
	1	214	21.00		0.0
	108	0	21.55	0-1	0.0
	108	54	21.41	0	0.0
	108	108	21.48	0-1	0.0
	216	0	21.33		0.0
DFT-s-OFDM 16QAM	1	1	21.65	0-1	0.0
CP-OFDM QPSK	1	1	21.46	0-1.5	0.0

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Table 9-65
NR Band n66 Antenna 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	18.39	0	0.0
	1	108	18.41		0.0
	1	214	18.05		0.0
	108	0	18.52	0-0.5	0.0
	108	54	18.39	0	0.0
	108	108	18.42	0-0.5	0.0
	216	0	18.39		0.0
DFT-s-OFDM QPSK	1	1	18.31	0	0.0
	1	108	18.30		0.0
	1	214	18.03		0.0
	108	0	18.45	0-1	0.0
	108	54	18.38	0	0.0
	108	108	18.40	0-1	0.0
	216	0	18.30		0.0
DFT-s-OFDM 16QAM	1	1	18.62	0-1	0.0
CP-OFDM QPSK	1	1	18.37	0-1.5	0.0

9.4.5 NR Band n66 Antenna F

Table 9-66
NR Band n66 Antenna F Measured P_{Limit} for DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 1 (Phablet with grip sensor active), or DSI = 3 (Hotspot mode active) 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	21.11	0	0.0
	1	108	21.01		0.0
	1	214	20.91		0.0
	108	0	21.04	0-0.5	0.0
	108	54	21.05	0	0.0
	108	108	21.07	0-0.5	0.0
	216	0	21.02		0.0
DFT-s-OFDM QPSK	1	1	21.07	0	0.0
	1	108	20.85		0.0
	1	214	20.70		0.0
	108	0	21.05	0-1	0.0
	108	54	21.07	0	0.0
	108	108	21.04	0-1	0.0
	216	0	21.06		0.0
DFT-s-OFDM 16QAM	1	1	21.26	0-1	0.0
CP-OFDM QPSK	1	1	21.04	0-1.5	0.0

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Table 9-67
NR Band n66 Antenna F Measured P_{Limit} for 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	15.91	0	0.0
	1	108	15.94		0.0
	1	214	15.75		0.0
	108	0	15.93	0-0.5	0.0
	108	54	15.94	0	0.0
	108	108	15.98	0-0.5	0.0
	216	0	15.98		0.0
DFT-s-OFDM QPSK	1	1	15.86	0	0.0
	1	108	15.96		0.0
	1	214	15.66		0.0
	108	0	15.92	0-1	0.0
	108	54	15.96	0	0.0
	108	108	15.97	0-1	0.0
	216	0	15.95		0.0
DFT-s-OFDM 16QAM	1	1	16.18	0-1	0.0
CP-OFDM QPSK	1	1	15.93	0-1.5	0.0

9.4.6 NR Band n25 Antenna A

Table 9-68
NR Band n25 Antenna 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	23.86	0	0.0
	1	108	23.85		0.0
	1	214	23.69		0.0
	108	0	23.39	0-0.5	0.5
	108	54	23.80	0	0.0
	108	108	23.60	0-0.5	0.5
	216	0	23.30		0.5
DFT-s-OFDM QPSK	1	1	23.73	0	0.0
	1	108	23.72		0.0
	1	214	23.53		0.0
	108	0	22.88	0-1	1.0
	108	54	23.81	0	0.0
	108	108	22.89	0-1	1.0
	216	0	22.83		1.0
DFT-s-OFDM 16QAM	1	1	23.15	0-1	1.0
CP-OFDM QPSK	1	1	21.89	0-1.5	1.5

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Table 9-69
NR Band n25 Antenna 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	21.92	0	0.0
	1	108	21.88		0.0
	1	214	21.75		0.0
	108	0	21.93	0-0.5	0.0
	108	54	21.96	0	0.0
	108	108	21.89	0-0.5	0.0
	216	0	21.85		0.0
DFT-s-OFDM QPSK	1	1	21.88	0	0.0
	1	108	21.73		0.0
	1	214	21.54		0.0
	108	0	21.91	0-1	0.0
	108	54	21.85	0	0.0
	108	108	21.88	0-1	0.0
	216	0	21.87		0.0
DFT-s-OFDM 16QAM	1	1	22.17	0-1	0.0
CP-OFDM QPSK	1	1	21.43	0-1.5	0.0

Table 9-70
NR Band n25 Antenna 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	19.94	0	0.0
	1	108	19.89		0.0
	1	214	19.65		0.0
	108	0	19.91	0-0.5	0.0
	108	54	19.82	0	0.0
	108	108	19.86	0-0.5	0.0
	216	0	19.82		0.0
DFT-s-OFDM QPSK	1	1	19.82	0	0.0
	1	108	19.72		0.0
	1	214	19.58		0.0
	108	0	19.89	0-1	0.0
	108	54	19.86	0	0.0
	108	108	19.86	0-1	0.0
	216	0	19.81		0.0
DFT-s-OFDM 16QAM	1	1	19.98	0-1	0.0
CP-OFDM QPSK	1	1	19.86	0-1.5	0.0

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9.4.7 NR Band n25 Antenna F

Table 9-71

NR Band n25 Antenna F Measured P_{Limit} for DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 1 (Phablet with grip sensor active), or DSI = 3 (Hotspot mode 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	21.99	0	0.0
	1	108	21.91		0.0
	1	214	21.54		0.0
	108	0	22.02	0-0.5	0.0
	108	54	22.03	0	0.0
	108	108	21.99	0-0.5	0.0
	216	0	22.05		0.0
DFT-s-OFDM QPSK	1	1	22.01	0	0.0
	1	108	21.80		0.0
	1	214	21.43		0.0
	108	0	22.04	0-1	0.0
	108	54	22.05	0	0.0
	108	108	21.95	0-1	0.0
	216	0	22.00		0.0
DFT-s-OFDM 16QAM	1	1	22.27	0-1	0.0
CP-OFDM QPSK	1	1	21.97	0-1.5	0.0

Table 9-72

NR Band n25 Antenna F Measured P_{Limit} for 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	17.19	0	0.0
	1	108	17.19		0.0
	1	214	16.95		0.0
	108	0	17.19	0-0.5	0.0
	108	54	17.20	0	0.0
	108	108	17.12	0-0.5	0.0
	216	0	17.23		0.0
DFT-s-OFDM QPSK	1	1	17.08	0	0.0
	1	108	17.08		0.0
	1	214	16.85		0.0
	108	0	17.22	0-1	0.0
	108	54	17.20	0	0.0
	108	108	17.14	0-1	0.0
	216	0	17.07		0.0
DFT-s-OFDM 16QAM	1	1	17.46	0-1	0.0
CP-OFDM QPSK	1	1	17.11	0-1.5	0.0

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9.4.8 NR Band n30 Antenna A

Table 9-73

NR Band n30 Antenna A Measured P_{Max} for DSI = 0 (Body-worn or Phablet with grip sensor inactive) or DSI = 2 (Head) - 10 MHz Bandwidth

NR Band n30 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			462000 (2310 MHz) Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	22.48	0	0.0
	1	26	22.64		0.0
	1	50	22.04		0.0
	25	0	22.03	0-0.5	0.5
	25	14	22.66	0	0.0
	25	27	22.15	0-0.5	0.5
	50	0	22.16		0.5
DFT-s-OFDM QPSK	1	1	22.40	0	0.0
	1	26	22.62		0.0
	1	50	22.13		0.0
	25	0	21.46	0-1	1.0
	25	14	22.58	0	0.0
	25	27	21.56	0-1	1.0
	50	0	21.57		1.0
DFT-s-OFDM 16QAM	1	1	21.71	0-1	1.0
CP-OFDM QPSK	1	1	20.88	0-1.5	1.5

Table 9-74

NR Band n30 Antenna A 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	20.52	0	0.0
	1	26	20.69		0.0
	1	50	20.82		0.0
	25	0	20.58	0-0.5	0.0
	25	14	20.69	0	0.0
	25	27	20.63	0-0.5	0.0
	50	0	20.68		0.0
DFT-s-OFDM QPSK	1	1	20.35	0	0.0
	1	26	20.51		0.0
	1	50	20.55		0.0
	25	0	20.56	0-1	0.0
	25	14	20.64	0	0.0
	25	27	20.65	0-1	0.0
	50	0	20.54		0.0
DFT-s-OFDM 16QAM	1	1	20.86	0-1	0.0
CP-OFDM QPSK	1	1	20.46	0-1.5	0.0

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Table 9-75
NR Band n30 Antenna A 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	18.49	0	0.0
	1	26	18.64		0.0
	1	50	18.66		0.0
	25	0	18.54	0-0.5	0.0
	25	14	18.61	0	0.0
	25	27	18.62	0-0.5	0.0
	50	0	18.61		0.0
DFT-s-OFDM QPSK	1	1	18.37	0	0.0
	1	26	18.49		0.0
	1	50	18.61		0.0
	25	0	18.52	0-1	0.0
	25	14	18.71	0	0.0
	25	27	18.60	0-1	0.0
	50	0	18.60		0.0
DFT-s-OFDM 16QAM	1	1	18.90	0-1	0.0
CP-OFDM QPSK	1	1	18.52	0-1.5	0.0

9.4.9 NR Band n30 Antenna F

Table 9-76
NR Band n30 Antenna F Measured P_{Limit} for DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 1 (Phablet with grip sensor active), or DSI = 3 (Hotspot mode 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	19.39	0	0.0
	1	26	19.57		0.0
	1	50	19.49		0.0
	25	0	19.43	0-0.5	0.0
	25	14	19.53	0	0.0
	25	27	19.44	0-0.5	0.0
	50	0	19.38		0.0
DFT-s-OFDM QPSK	1	1	19.26	0	0.0
	1	26	19.43		0.0
	1	50	19.29		0.0
	25	0	19.38	0-1	0.0
	25	14	19.51	0	0.0
	25	27	19.48	0-1	0.0
	50	0	19.42		0.0
DFT-s-OFDM 16QAM	1	1	19.63	0-1	0.0
CP-OFDM QPSK	1	1	19.29	0-1.5	0.0

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Table 9-77
NR Band n30 Antenna F Measured P_{Limit} for DSI = 2 (Head) - 10 MHz Bandwidth

NR Band n30 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			462000 (2310 MHz) Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	15.03	0	0.0
	1	26	15.17		0.0
	1	50	15.03		0.0
	25	0	15.11	0-0.5	0.0
	25	14	15.20	0	0.0
	25	27	15.17	0-0.5	0.0
	50	0	15.07		0.0
DFT-s-OFDM QPSK	1	1	14.96	0	0.0
	1	26	15.10		0.0
	1	50	14.96		0.0
	25	0	15.07	0-1	0.0
	25	14	15.19	0	0.0
	25	27	15.16	0-1	0.0
	50	0	15.09		0.0
DFT-s-OFDM 16QAM	1	1	15.53	0-1	0.0
CP-OFDM QPSK	1	1	15.02	0-1.5	0.0

9.4.10 NR Band n7 Antenna B

Table 9-78
NR Band n7 Antenna B Measured P_{Max} for DSI = 0 (Body-worn or Phablet with grip sensor inactive) or DSI = 2 (Head) - 40 MHz Bandwidth

NR Band n7 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			507000 (2535 MHz) Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	22.62	0	0.0
	1	108	22.69		0.0
	1	214	22.57		0.0
	108	0	22.24	0-0.5	0.5
	108	54	22.74	0	0.0
	108	108	22.18	0-0.5	0.5
	216	0	22.24		0.5
DFT-s-OFDM QPSK	1	1	22.51	0	0.0
	1	108	22.60		0.0
	1	214	22.44		0.0
	108	0	21.68	0-1	1.0
	108	54	22.74	0	0.0
	108	108	21.67	0-1	1.0
	216	0	21.72		1.0
DFT-s-OFDM 16QAM	1	1	21.99	0-1	1.0
CP-OFDM QPSK	1	1	20.83	0-1.5	1.5

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Table 9-79
NR Band n7 Antenna B Measured P_{Limit} for DSI = 1 (Phablet with Grip Sensor Active), and/or DSI = 4 (Earjack Active) - 40 MHz Bandwidth

NR Band n7 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			507000 (2535 MHz) Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	21.03	0	0.0
	1	108	21.12		0.0
	1	214	20.99		0.0
	108	0	21.11	0-0.5	0.0
	108	54	21.11	0	0.0
	108	108	21.07	0-0.5	0.0
	216	0	21.15		0.0
DFT-s-OFDM QPSK	1	1	21.07	0	0.0
	1	108	21.14		0.0
	1	214	21.02		0.0
	108	0	21.32	0-1	0.0
	108	54	21.33	0	0.0
	108	108	21.26	0-1	0.0
	216	0	21.13		0.0
DFT-s-OFDM 16QAM	1	1	21.35	0-1	0.0
CP-OFDM QPSK	1	1	21.00	0-1.5	0.0

Table 9-80
NR Band n7 Antenna B Measured P_{Limit} for DSI = 3 (Hotspot Mode) - 40 MHz Bandwidth

NR Band n7 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			507000 (2535 MHz) Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	20.60	0	0.0
	1	108	20.62		0.0
	1	214	20.50		0.0
	108	0	20.67	0-0.5	0.0
	108	54	20.69	0	0.0
	108	108	20.60	0-0.5	0.0
	216	0	20.71		0.0
DFT-s-OFDM QPSK	1	1	20.42	0	0.0
	1	108	20.50		0.0
	1	214	20.38		0.0
	108	0	20.67	0-1	0.0
	108	54	20.68	0	0.0
	108	108	20.61	0-1	0.0
	216	0	20.49		0.0
DFT-s-OFDM 16QAM	1	1	20.81	0-1	0.0
CP-OFDM QPSK	1	1	20.97	0-1.5	0.0

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9.4.11 NR Band n7 Antenna F

Table 9-81

NR Band n7 Antenna F Measured P_{Limit} for DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 1 (Phablet with grip sensor active), or DSI = 3 (Hotspot mode active) and/or DSI = 4 (Earjack Active) - 40 MHz Bandwidth

NR Band n7 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			507000 (2535 MHz) Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	20.25	0	0.0
	1	108	20.12		0.0
	1	214	19.98		0.0
	108	0	20.23	0-0.5	0.0
	108	54	20.14	0	0.0
	108	108	20.14	0-0.5	0.0
	216	0	20.12		0.0
DFT-s-OFDM QPSK	1	1	20.15	0	0.0
	1	108	20.03		0.0
	1	214	19.86		0.0
	108	0	20.23	0-1	0.0
	108	54	20.16	0	0.0
	108	108	20.11	0-1	0.0
	216	0	20.13		0.0
DFT-s-OFDM 16QAM	1	1	20.45	0-1	0.0
CP-OFDM QPSK	1	1	20.15	0-1.5	0.0

Table 9-82

NR Band n7 Antenna F Measured P_{Limit} for DSI = 2 (Head) - 40 MHz Bandwidth

NR Band n7 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			507000 (2535 MHz) Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	16.12	0	0.0
	1	108	15.99		0.0
	1	214	15.88		0.0
	108	0	16.07	0-0.5	0.0
	108	54	16.03	0	0.0
	108	108	16.01	0-0.5	0.0
	216	0	16.06		0.0
DFT-s-OFDM QPSK	1	1	16.02	0	0.0
	1	108	15.85		0.0
	1	214	15.81		0.0
	108	0	16.10	0-1	0.0
	108	54	16.01	0	0.0
	108	108	16.01	0-1	0.0
	216	0	16.00		0.0
DFT-s-OFDM 16QAM	1	1	16.20	0-1	0.0
CP-OFDM QPSK	1	1	16.04	0-1.5	0.0

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9.4.12 NR Band n41 Antenna F – Path 1

Table 9-83

NR Band n41 Antenna F Measured P_{Limit} for DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 1 (Phablet with grip sensor active), or DSI = 3 (Hotspot Mode), 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	19.41	0	0.0
	1	137	19.60		0.0
	1	271	19.44		0.0
	135	0	19.53	0-0.5	0.0
	135	69	19.54	0	0.0
	135	138	19.49	0-0.5	0.0
	270	0	19.48		0.0
DFT-s-OFDM QPSK	1	1	19.49	0	0.0
	1	137	19.56		0.0
	1	271	19.42		0.0
	135	0	19.52	0-1	0.0
	135	69	19.58	0	0.0
	135	138	19.52	0-1	0.0
	270	0	19.46		0.0
DFT-s-OFDM 16QAM	1	1	19.40	0-1	0.0
CP-OFDM QPSK	1	1	19.44	0-1.5	0.0

Table 9-84

NR Band n41 Antenna F 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	17.02	0	0.0
	1	137	17.09		0.0
	1	271	16.97		0.0
	135	0	17.07	0-0.5	0.0
	135	69	17.04	0	0.0
	135	138	17.02	0-0.5	0.0
	270	0	16.95		0.0
DFT-s-OFDM QPSK	1	1	16.97	0	0.0
	1	137	17.02		0.0
	1	271	16.97		0.0
	135	0	17.04	0-1	0.0
	135	69	17.00	0	0.0
	135	138	16.98	0-1	0.0
	270	0	16.96		0.0
DFT-s-OFDM 16QAM	1	1	16.78	0-1	0.0
CP-OFDM QPSK	1	1	16.96	0-1.5	0.0

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9.4.13 NR Band n41 Antenna B – Path 2

Table 9-85
NR Band n41 Antenna B Measured P_{Limit} for all DSI - 100 MHz Bandwidth

NR Band n41 100 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	518598 (2592.99 MHz) Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	21.31	0	0.0
	1	137	21.24		0.0
	1	271	21.03		0.0
	135	0	21.31	0-0.5	0.0
	135	69	21.25	0	0.0
	135	138	21.05	0-0.5	0.0
	270	0	21.20		0.0
DFT-s-OFDM QPSK	1	1	21.44	0	0.0
	1	137	21.28		0.0
	1	271	21.02		0.0
	135	0	21.41	0-1	0.0
	135	69	21.24	0	0.0
	135	138	21.04	0-1	0.0
	270	0	21.25		0.0
DFT-s-OFDM 16QAM	1	1	21.20	0-1	0.0
CP-OFDM QPSK	1	1	21.32	0-1.5	0.0

9.4.14 NR Band n41 Antenna B, E, D – Path 1

Table 9-86
NR Band n41 Antenna B, D Measured P_{Limit} for all DSI – 100 MHz Bandwidth

NR Band n41 100 MHz Bandwidth	
Channel	
Antenna	518598 (2592.99 MHz)
	Conducted Power [dBm]
SRS #2 Ant B	15.62
SRS #4 Ant D	12.94

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Table 9-87

NR Band n41 Antenna E Measured P_{Limit} for DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 1 (Phablet with grip sensor active), or DSI = 3 (Hotspot Mode), and/or DSI = 4 (Earjack Active) – 100 MHz Bandwidth

NR Band n41 100 MHz Bandwidth	
Channel	
Antenna	518598 (2592.99 MHz)
	Conducted Power [dBm]
SRS #3 Ant E	18.02

Table 9-88

NR Band n41 Antenna E Measured P_{Limit} for DSI = 2 (Head) – 100 MHz Bandwidth

NR Band n41 100 MHz Bandwidth	
Channel	
Modulation	518598 (2592.99 MHz)
	Conducted Power [dBm]
SRS #3 Ant E	16.97

9.4.15 NR Band n41 Antenna F, D, E – Path 2

Table 9-89

NR Band n41 Antenna D Measured P_{Max} for all DSI – 100 MHz Bandwidth

NR Band n41 100 MHz Bandwidth	
Channel	
Antenna	518598 (2592.99 MHz)
	Conducted Power [dBm]
SRS #3 Ant D	17.10

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Table 9-90

NR Band n41 Antenna F, E Measured P_{Limit} for DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 1 (Phablet with grip sensor active), or DSI = 3 (Hotspot Mode), and/or DSI = 4 (Earjack Active) – 100 MHz Bandwidth

NR Band n41 100 MHz Bandwidth	
Channel	
Antenna	518598 (2592.99 MHz)
	Conducted Power [dBm]
SRS #2 Ant F	16.02
SRS #4 Ant E	16.50

Table 9-91

NR Band n41 Antenna F, E Measured P_{Limit} for DSI = 2 (Head) – 100 MHz Bandwidth

NR Band n41 100 MHz Bandwidth	
Channel	
Modulation	518598 (2592.99 MHz)
	Conducted Power [dBm]
SRS #2 Ant F	15.96
SRS #4 Ant E	15.25

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9.4.16 NR Band n48 Antenna F

Table 9-92

NR Band n48 Antenna F Measured P_{Limit} for DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 1 (Phablet with grip sensor active), or DSI = 3 (Hotspot Mode), and/or DSI = 4 (Earjack Active) – 40 MHz Bandwidth

NR Band n48 40 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	638000 (3570 MHz)	641666 (3624.99 MHz)	645332 (3679.98 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM $\pi/2$ BPSK	1	1	18.59	18.92	18.92	0	0.0
	1	53	18.72	18.93	18.88		0.0
	1	104	18.85	18.87	18.92		0.0
	50	0	18.61	18.84	18.86	0-0.5	0.0
	50	28	18.66	18.79	18.78	0	0.0
	50	56	18.70	18.77	18.82	0-0.5	0.0
	100	0	18.64	18.84	18.77		0.0
DFT-s-OFDM QPSK	1	1	18.61	18.94	18.76	0	0.0
	1	53	18.72	18.96	18.77		0.0
	1	104	18.89	18.88	18.84		0.0
	50	0	18.61	18.86	18.82	0-1	0.0
	50	28	18.64	18.81	18.73	0	0.0
	50	56	18.68	18.77	18.78	0-1	0.0
	100	0	18.65	18.82	18.74		0.0
DFT-s-OFDM 16QAM	1	1	18.53	18.86	18.79	0-1	0.0
CP-OFDM QPSK	1	1	18.59	18.93	18.63	0-1.5	0.0

Table 9-93

NR Band n48 Antenna F Measured P_{Limit} for DSI = 2 (Head) – 40 MHz Bandwidth

NR Band n48 40 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	638000 (3570 MHz)	641666 (3624.99 MHz)	645332 (3679.98 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM $\pi/2$ BPSK	1	1	14.65	15.06	14.90	0	0.0
	1	53	14.83	15.01	14.73		0.0
	1	104	15.03	14.90	14.96		0.0
	50	0	14.73	15.06	14.83	0-0.5	0.0
	50	28	14.77	14.93	14.71	0	0.0
	50	56	14.88	14.91	14.74	0-0.5	0.0
	100	0	14.77	14.97	14.77		0.0
DFT-s-OFDM QPSK	1	1	14.78	15.19	15.03	0	0.0
	1	53	14.91	15.14	14.86		0.0
	1	104	15.14	15.02	14.99		0.0
	50	0	14.81	15.18	14.88	0-1	0.0
	50	28	15.10	15.00	14.75	0	0.0
	50	56	14.89	15.01	14.77	0-1	0.0
	100	0	14.82	15.04	14.83		0.0
DFT-s-OFDM 16QAM	1	1	14.43	15.07	15.10	0-1	0.0
CP-OFDM QPSK	1	1	14.81	15.34	15.00	0-1.5	0.0

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9.4.17 NR Band n48 Antenna C, I, D

Table 9-94
NR Band n48 Antenna C, D Measured P_{Limit} for all DSI – 40 MHz Bandwidth

NR Band n48 40 MHz Bandwidth			
Channel			
Modulation	638000 (3570 MHz)	641666 (3624.99 MHz)	645332 (3679.98 MHz)
	Conducted Power [dBm]		
SRS #2 Ant C	15.67	15.61	15.08
SRS #4 Ant D	13.92	13.70	12.82

Table 9-95
NR Band n48 Antenna I Measured P_{Limit} for DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 1 (Phablet with grip sensor active), or DSI = 3 (Hotspot Mode), and/or DSI = 4 (Earjack Active) – 40 MHz Bandwidth

NR Band n48 40 MHz Bandwidth			
Channel			
Modulation	638000 (3570 MHz)	641666 (3624.99 MHz)	645332 (3679.98 MHz)
	Conducted Power [dBm]		
SRS #3 Ant I	15.85	15.63	15.05

Table 9-96
NR Band n48 Antenna I Measured P_{Limit} for DSI = 2 (Head) – 40 MHz Bandwidth

NR Band n48 40 MHz Bandwidth			
Channel			
Modulation	638000 (3570 MHz)	641666 (3624.99 MHz)	645332 (3679.98 MHz)
	Conducted Power [dBm]		
SRS #3 Ant I	11.45	11.38	11.00

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9.4.18 NR Band n77 DoD Antenna F

Table 9-97

NR Band n77 DoD Antenna F Measured P_{Limit} for DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 1 (Phablet with grip sensor active), or DSI = 3 (Hotspot Mode), and/or DSI = 4 (Earjack Active) - 100 MHz Bandwidth

NR Band n77 DoD 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	17.37	0	0.0
	1	137	17.11		0.0
	1	271	17.22		0.0
	135	0	17.19	0-0.5	0.0
	135	69	17.13	0	0.0
	135	138	17.02	0-0.5	0.0
	270	0	17.17		0.0
DFT-s-OFDM QPSK	1	1	17.32	0	0.0
	1	137	17.12		0.0
	1	271	17.21		0.0
	135	0	17.32	0-1	0.0
	135	69	17.12	0	0.0
	135	138	17.06	0-1	0.0
	270	0	17.17		0.0
DFT-s-OFDM 16QAM	1	1	17.16	0-1	0.0
CP-OFDM QPSK	1	1	17.18	0-1.5	0.0

Table 9-98

NR Band n77 DoD Antenna F Measured P_{Limit} for DSI = 2 (Head) - 100 MHz Bandwidth

NR Band n77 DoD 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	14.89	0	0.0
	1	137	14.65		0.0
	1	271	14.75		0.0
	135	0	14.65	0-0.5	0.0
	135	69	14.63	0	0.0
	135	138	14.53	0-0.5	0.0
	270	0	14.65		0.0
DFT-s-OFDM QPSK	1	1	14.90	0	0.0
	1	137	14.54		0.0
	1	271	14.74		0.0
	135	0	14.69	0-1	0.0
	135	69	14.65	0	0.0
	135	138	14.55	0-1	0.0
	270	0	14.68		0.0
DFT-s-OFDM 16QAM	1	1	14.86	0-1	0.0
CP-OFDM QPSK	1	1	14.92	0-1.5	0.0

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9.4.1 NR Band n77 DoD Antenna C, I, D

Table 9-99
NR Band n77 DoD Antenna C, I, D Measured P_{Limit} for all DSI – 100 MHz Bandwidth

NR Band n77 DoD 100 MHz Bandwidth	
Channel	
Antenna	633334 (3500.01 MHz)
	Conducted Power [dBm]
SRS #2 Ant C	13.88
SRS #3 Ant I	13.81
SRS #4 Ant D	12.41

9.4.1 NR Band n77 C-Band Antenna F

Table 9-100
NR Band n77 C-Band Antenna F Measured P_{Limit} for DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 1 (Phablet with grip sensor active), or DSI = 3 (Hotspot Mode), 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	17.31	17.43	0	0.0
	1	137	17.17	17.42		0.0
	1	271	17.46	17.49		0.0
	135	0	17.29	17.48	0-0.5	0.0
	135	69	17.23	17.54	0	0.0
	135	138	17.16	17.47	0-0.5	0.0
270	0	17.26	17.52	0.0		
DFT-s-OFDM QPSK	1	1	17.35	17.38	0	0.0
	1	137	17.23	18.00		0.0
	1	271	17.69	17.47		0.0
	135	0	17.64	17.47	0-1	0.0
	135	69	17.28	17.71	0	0.0
	135	138	17.29	17.49	0-1	0.0
270	0	17.32	17.69	0.0		
DFT-s-OFDM 16QAM	1	1	17.42	17.33	0-1	0.0
CP-OFDM QPSK	1	1	17.43	17.48	0-1.5	0.0

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Table 9-101
NR Band n77 C-Band Antenna 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	14.97	14.99	0	0.0
	1	137	14.91	15.01		0.0
	1	271	14.91	14.91		0.0
	135	0	15.04	14.94	0-0.5	0.0
	135	69	15.02	14.99	0	0.0
	135	138	14.92	14.90	0-0.5	0.0
	270	0	15.00	14.95		0.0
DFT-s-OFDM QPSK	1	1	14.92	14.94	0	0.0
	1	137	14.90	15.00		0.0
	1	271	14.91	14.89		0.0
	135	0	15.03	15.00	0-1	0.0
	135	69	14.98	15.05	0	0.0
	135	138	14.92	14.98	0-1	0.0
	270	0	14.97	14.99		0.0
DFT-s-OFDM 16QAM	1	1	15.30	14.86	0-1	0.0
CP-OFDM QPSK	1	1	14.94	15.03	0-1.5	0.0

9.4.1 NR Band n77 C-Band Antenna C, I, D

Table 9-102
NR Band n77 C-Band Antenna C, I, D Measured P_{Limit} for all DSI – 100 MHz Bandwidth

NR Band n77 100 MHz Bandwidth		
Antenna	Channel	
	650000 (3750 MHz)	662000 (3930 MHz)
	Conducted Power [dBm]	
SRS #2 Ant C	13.35	13.22
SRS #3 Ant I	13.07	13.60
SRS #4 Ant D	10.95	11.63



Figure 9-4
Power Measurement Setup – NR FDD

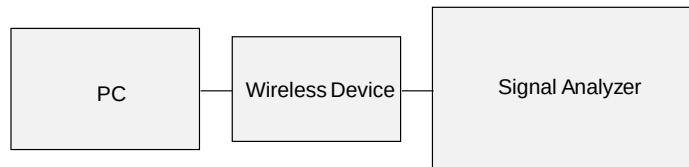


Figure 9-5
Power Measurement Setup – NR TDD

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9.5 WLAN Conducted Powers

Table 9-103
2.4 GHz WLAN Maximum Average RF Power – Ant 2

2.4GHz Conducted Power [dBm]					
Freq [MHz]	Channel	IEEE Transmission Mode			
		802.11b	802.11g	802.11n	802.11ax
		Average	Average	Average	Average
2412	1	18.87	17.59	15.44	15.48
2417	2	N/A	N/A	17.35	17.54
2437	6	18.70	17.62	17.61	17.61
2452	9	N/A	N/A	N/A	17.35
2457	10	N/A	N/A	17.49	16.39
2462	11	18.89	17.29	15.53	15.12

Table 9-104
2.4 GHz WLAN Maximum Average RF Power – MIMO

2.4GHz 802.11b Conducted Power [dBm]				
Freq [MHz]	Channel	ANT1	ANT2	MIMO
2412	1	18.76	18.53	21.66
2437	6	18.44	18.46	21.46
2462	11	18.62	18.65	21.65

Table 9-105
2.4 GHz WLAN Reduced Average RF Power with NR Active – MIMO

2.4GHz 802.11n Conducted Power [dBm]				
Freq [MHz]	Channel	ANT1	ANT2	MIMO
2412	1	15.87	15.94	18.92
2417	2	16.86	16.59	19.74
2437	6	17.00	16.58	19.81
2457	10	16.56	16.82	19.70
2462	11	15.65	15.72	18.70

Table 9-106
2.4 GHz WLAN Reduced Average RF Power During with Conditions with 5/6 GHz WLAN – MIMO

2.4GHz 802.11n Conducted Power [dBm]				
Freq [MHz]	Channel	ANT1	ANT2	MIMO
2412	1	12.76	12.74	15.76
2437	6	12.44	12.88	15.68
2462	11	12.59	12.58	15.60

Table 9-107
2.4 GHz WLAN Reduced Average RF Power with RCV Active – Ant 2

2.4GHz Conducted Power [dBm]					
Freq [MHz]	Channel	IEEE Transmission Mode			
		802.11b	802.11g	802.11n	802.11ax
		Average	Average	Average	Average
2412	1	11.63	11.34	11.15	11.11
2437	6	11.67	11.21	11.13	11.10
2462	11	11.99	11.65	11.62	11.62

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Table 9-108
2.4 GHz WLAN Reduced Average RF Power with RCV Active – MIMO

2.4GHz 802.11n Conducted Power [dBm]				
Freq [MHz]	Channel	ANT1	ANT2	MIMO
2412	1	11.62	11.19	14.42
2437	6	11.50	11.22	14.37
2462	11	11.61	11.60	14.62

Table 9-109
2.4 GHz WLAN Reduced Average RF Power with RCV Active During Conditions with 5G NR and/or 5/6 GHz WLAN – Ant 2

2.4GHz Conducted Power [dBm]					
Freq [MHz]	Channel	IEEE Transmission Mode			
		802.11b	802.11g	802.11n	802.11ax
		Average	Average	Average	Average
2412	1	9.96	9.82	9.52	9.88
2437	6	9.99	9.88	9.64	9.99
2462	11	9.53	9.91	9.81	9.59

Table 9-110
2.4 GHz WLAN Reduced Average RF Power with RCV Active During Conditions with 5G NR and/or 5/6 GHz WLAN – MIMO

2.4GHz 802.11n Conducted Power [dBm]				
Freq [MHz]	Channel	ANT1	ANT2	MIMO
2412	1	9.69	9.99	12.85
2437	6	9.79	9.87	12.84
2462	11	9.46	9.98	12.74

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Table 9-111
5 GHz WLAN Maximum Average RF Power – MIMO

5GHz (20MHz) 802.11n Conducted Power [dBm]				
Freq [MHz]	Channel	ANT1	ANT2	MIMO
5180	36	17.71	16.95	20.36
5200	40	17.69	16.99	20.36
5220	44	17.92	16.76	20.39
5240	48	17.86	16.76	20.36
5260	52	17.90	16.94	20.46
5280	56	17.85	16.92	20.42
5300	60	17.75	16.90	20.36
5320	64	17.99	17.00	20.53
5500	100	17.94	17.93	20.95
5600	120	17.55	16.67	20.14
5620	124	17.48	16.71	20.12
5720	144	17.71	16.74	20.26
5745	149	17.66	16.72	20.23
5785	157	17.52	16.85	20.21
5825	165	17.66	16.49	20.12
5845	169	17.62	16.45	20.08
5865	173	17.94	17.91	20.94
5885	177	17.82	16.78	20.34

Table 9-112
5 GHz WLAN Reduced Average RF Power with RCV Active or During Conditions with 5G NR or 2.4 GHz WLAN - MIMO

5GHz (80MHz) 802.11ac Conducted Power [dBm]				
Freq [MHz]	Channel	ANT1	ANT2	MIMO
5210	42	13.55	13.67	16.62
5290	58	13.36	13.96	16.68
5530	106	13.04	13.90	16.50
5610	122	13.40	13.45	16.44
5690	138	13.62	13.78	16.71
5775	155	13.50	13.74	16.63
5855	171	13.77	13.26	16.53

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Table 9-113

5 GHz WLAN Reduced Average RF Power with RCV Active and During Conditions with 5G FR2 NR or During Conditions with 5G NR and 2.4 GHz WLAN - MIMO

5GHz (80MHz) 802.11ac Conducted Power [dBm]				
Freq [MHz]	Channel	ANT1	ANT2	MIMO
5210	42	10.63	10.67	13.66
5290	58	10.64	10.91	13.79
5530	106	10.48	10.99	13.75
5610	122	10.83	10.72	13.79
5690	138	10.73	10.93	13.84
5775	155	10.55	10.92	13.75
5855	171	10.86	10.68	13.78

Table 9-114

5 GHz WLAN Reduced Average RF Power with RCV Active During Conditions with 2.4 GHz WLAN or with RCV Active During Conditions with 5G NR and 2.4 GHz WLAN - MIMO

5GHz (80MHz) 802.11ac Conducted Power [dBm]				
Freq [MHz]	Channel	ANT1	ANT2	MIMO
5210	42	8.60	8.61	11.62
5290	58	8.40	8.79	11.61
5530	106	8.66	8.94	11.81
5610	122	8.87	8.70	11.80
5690	138	8.75	8.63	11.70
5775	155	8.49	8.66	11.59
5855	171	8.53	8.63	11.59

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

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

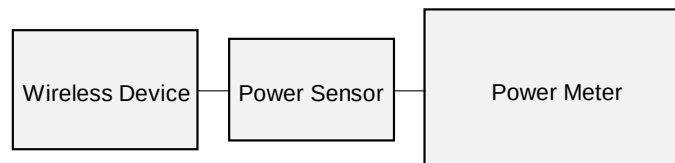


Figure 9-6
Power Measurement Setup

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9.6 Bluetooth Conducted Powers

Table 9-115
Bluetooth Maximum Average RF Power– Antenna 1

Frequency [MHz]	Data Rate [Mbps]	Mod.	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	1.0	GFSK	0	14.18	26.184
2441	1.0	GFSK	39	14.39	27.485
2480	1.0	GFSK	78	12.56	18.047

Frequency [MHz]	Data Rate [Mbps]	Channel No.	Bluetooth Mode	Peak Conducted Power	
				[dBm]	[mW]
2402	1 Mbps	0	LE	14.99	31.739
2440	1 Mbps	19	LE	14.38	29.553
2480	1 Mbps	39	LE	12.88	20.621

Table 9-116
Bluetooth Maximum Average RF Power– Antenna 2

Frequency [MHz]	Data Rate [Mbps]	Mod.	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	1.0	GFSK	0	14.60	28.854
2441	1.0	GFSK	39	14.19	26.228
2480	1.0	GFSK	78	12.64	18.361

Frequency [MHz]	Data Rate [Mbps]	Channel No.	Bluetooth Mode	Peak Conducted Power	
				[dBm]	[mW]
2402	1 Mbps	0	LE	15.02	31.739
2440	1 Mbps	19	LE	14.71	29.553
2480	1 Mbps	39	LE	13.14	20.621

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Table 9-117
Bluetooth Reduced Average RF Power (RCV Active) – Antenna 1

Frequency [MHz]	Data Rate [Mbps]	Channel No.	Bluetooth Mode	Peak Conducted Power	
				[dBm]	[mW]
2402	1 Mbps	0	LE	10.98	12.523
2440	1 Mbps	19	LE	10.79	11.989
2480	1 Mbps	39	LE	10.38	10.902

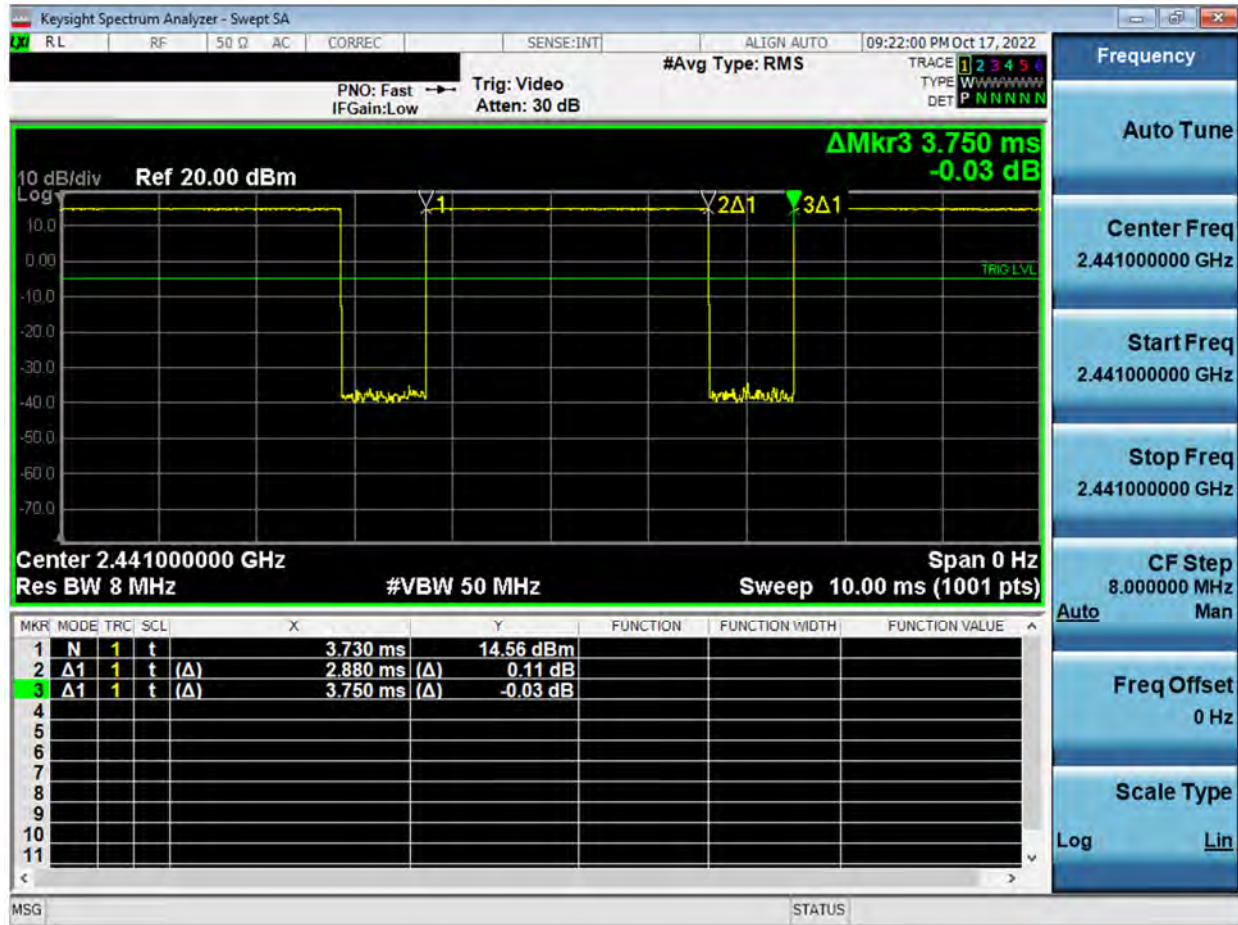
Table 9-118
Bluetooth Reduced Average RF Power (RCV Active) – Antenna 2

Frequency [MHz]	Data Rate [Mbps]	Channel No.	Bluetooth Mode	Peak Conducted Power	
				[dBm]	[mW]
2402	1 Mbps	0	LE	10.22	10.517
2440	1 Mbps	19	LE	9.71	9.358
2480	1 Mbps	39	LE	8.63	7.296

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Figure 9-7
Bluetooth Antenna 1 Transmission Plot



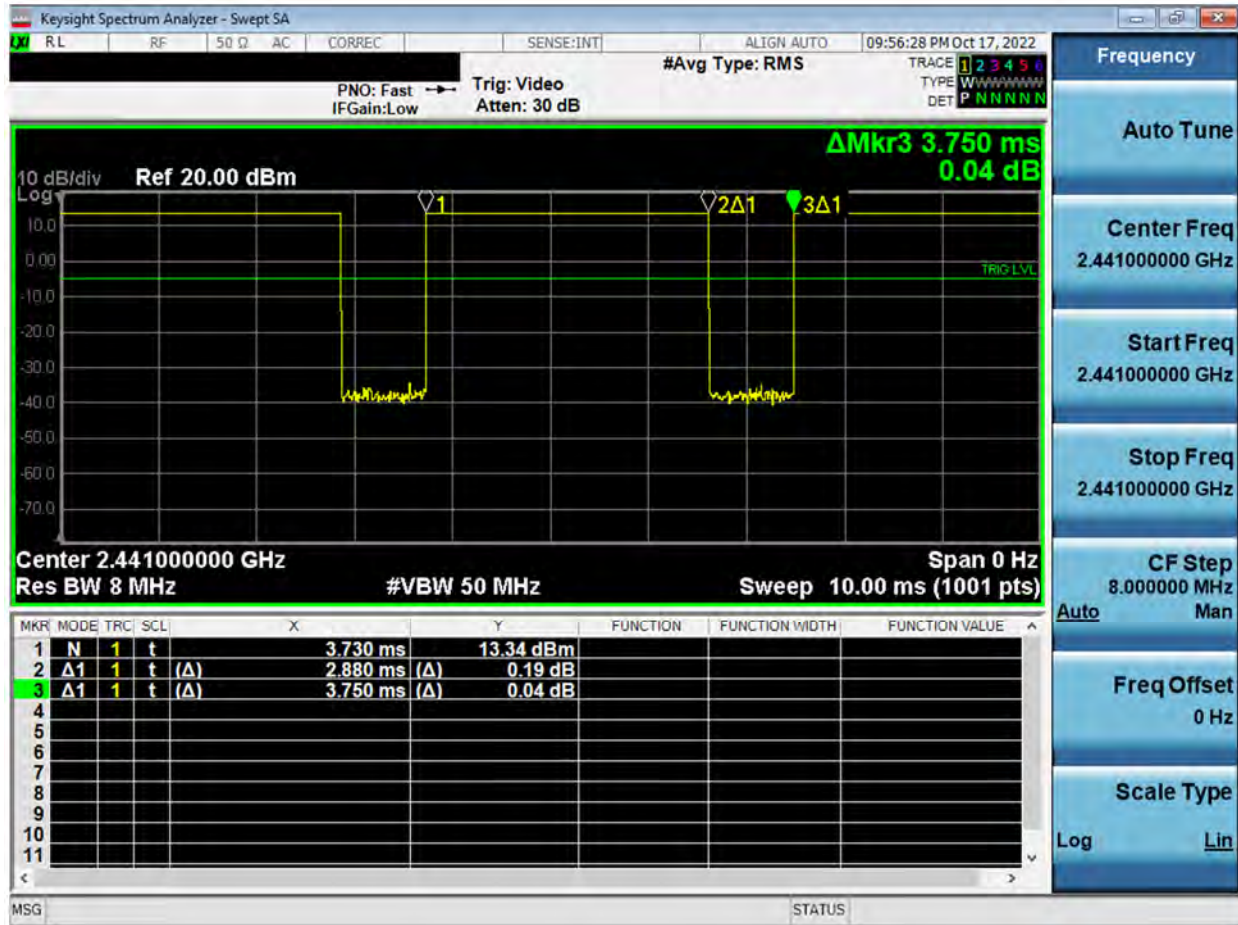
Equation 9-1

Bluetooth Antenna 1 Duty Cycle Calculation

$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.880\text{ms}}{3.750\text{ms}} * 100\% = 76.8\%$$

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Figure 9-8
Bluetooth Antenna 2 Transmission Plot



Equation 9-2
Bluetooth Antenna 2 Duty Cycle Calculation

$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.880\text{ms}}{3.750\text{ms}} * 100\% = 76.8\%$$

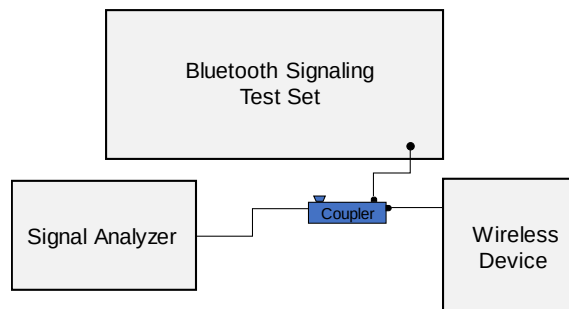
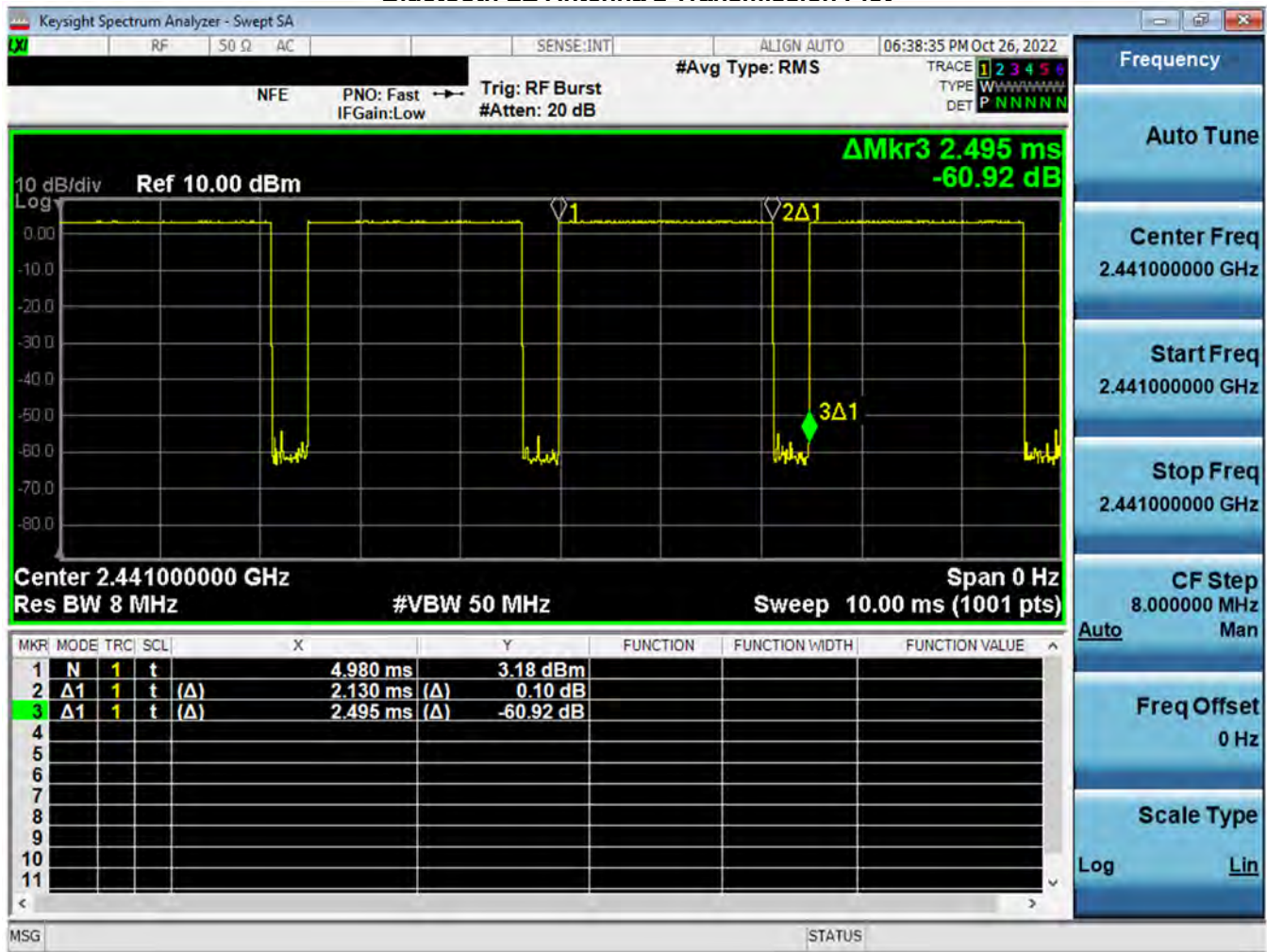


Figure 9-9
Power Measurement Setup

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Figure 9-10
Bluetooth LE Antenna 1 Transmission Plot



Equation 9-3
Bluetooth LE Antenna 1 Duty Cycle Calculation

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.130ms}{2.495ms} * 100\% = 85.4\%$$

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Figure 9-11
Bluetooth LE Antenna 2 Transmission Plot



Equation 9-4
Bluetooth LE Antenna 2 Duty Cycle Calculation

$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.120\text{ms}}{2.470\text{ms}} * 100\% = 85.8\%$$

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10 SYSTEM VERIFICATION

10.1 Tissue Verification

Table 10-1
Measured Head Tissue Properties

Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ϵ	% dev σ	% dev ϵ
11/10/2022	30 Head	22.9	12	0.745	52.984	0.750	55.000	-0.67%	-3.67%
			13	0.745	53.011	0.750	55.000	-0.67%	-3.62%
			14	0.745	53.054	0.750	55.000	-0.67%	-3.54%
			680	0.868	41.340	0.888	42.305	-2.25%	-2.28%
09/08/2022	750 Head	21.6	695	0.876	41.329	0.889	42.227	-1.46%	-2.13%
			700	0.879	41.326	0.889	42.201	-1.12%	-2.07%
			710	0.883	41.312	0.890	42.149	-0.79%	-1.99%
			725	0.886	41.275	0.891	42.071	-0.56%	-1.89%
			750	0.889	41.181	0.894	41.942	-0.56%	-1.81%
			770	0.893	41.098	0.895	41.838	-0.22%	-1.77%
			785	0.900	41.042	0.896	41.760	0.45%	-1.72%
			800	0.909	40.996	0.897	41.682	1.34%	-1.65%
			680	0.894	40.481	0.888	42.305	0.68%	-4.31%
			695	0.899	40.430	0.889	42.227	1.12%	-4.26%
			700	0.900	40.417	0.889	42.201	1.24%	-4.23%
			710	0.904	40.396	0.890	42.149	1.57%	-4.16%
09/13/2022	750 Head	21.4	725	0.909	40.362	0.891	42.071	2.02%	-4.06%
			750	0.917	40.278	0.894	41.942	2.57%	-3.97%
			770	0.924	40.206	0.895	41.838	3.24%	-3.90%
			785	0.929	40.171	0.896	41.760	3.68%	-3.81%
			800	0.935	40.153	0.897	41.682	4.24%	-3.67%
			680	0.895	40.272	0.888	42.305	0.79%	-4.81%
			695	0.900	40.239	0.889	42.227	1.24%	-4.71%
			700	0.901	40.228	0.889	42.201	1.35%	-4.68%
			710	0.905	40.202	0.890	42.149	1.69%	-4.62%
			725	0.909	40.163	0.891	42.071	2.02%	-4.54%
			750	0.917	40.090	0.894	41.942	2.57%	-4.42%
			770	0.924	40.039	0.895	41.838	3.24%	-4.30%
09/15/2022	750 Head	21.7	785	0.930	40.002	0.896	41.760	3.79%	-4.21%
			800	0.935	39.958	0.897	41.682	4.24%	-4.14%
			815	0.935	42.217	0.898	41.594	4.12%	1.50%
			820	0.936	42.204	0.899	41.578	4.12%	1.51%
			835	0.942	42.169	0.900	41.500	4.67%	1.61%
			850	0.948	42.136	0.916	41.500	3.49%	1.53%
			815	0.908	41.476	0.898	41.594	1.11%	-0.28%
			820	0.910	41.460	0.899	41.578	1.22%	-0.28%
			835	0.916	41.414	0.900	41.500	1.78%	-0.21%
			850	0.921	41.379	0.916	41.500	0.55%	-0.29%
			815	0.900	40.836	0.898	41.594	0.22%	-1.82%
			820	0.902	40.813	0.899	41.578	0.33%	-1.84%
11/11/2022	835 Head	21.2	835	0.908	40.765	0.900	41.500	0.89%	-1.77%
			850	0.914	40.741	0.916	41.500	-0.22%	-1.83%
			1710	1.345	40.055	1.348	40.142	-0.22%	-0.22%
			1720	1.355	40.010	1.354	40.126	0.07%	-0.29%
			1745	1.379	39.906	1.368	40.087	0.80%	-0.45%
			1750	1.385	39.887	1.371	40.079	1.02%	-0.48%
			1770	1.407	39.805	1.383	40.047	1.74%	-0.60%
			1790	1.429	39.723	1.394	40.016	2.51%	-0.73%
			1710	1.315	39.078	1.348	40.142	-2.45%	-2.65%
			1720	1.321	39.054	1.354	40.126	-2.44%	-2.67%
			1745	1.337	39.036	1.368	40.087	-2.27%	-2.62%
			1750	1.340	39.034	1.371	40.079	-2.26%	-2.61%
11/11/2022	1750 Head	21.2	1770	1.352	39.022	1.383	40.047	-2.24%	-2.56%
			1790	1.361	38.989	1.394	40.016	-2.37%	-2.57%
			1710	1.285	39.853	1.348	40.142	-4.67%	-0.72%
			1720	1.291	39.833	1.354	40.126	-4.65%	-0.73%
			1745	1.306	39.789	1.368	40.087	-4.53%	-0.74%
			1750	1.309	39.780	1.371	40.079	-4.52%	-0.75%
			1770	1.321	39.755	1.383	40.047	-4.48%	-0.73%
			1790	1.332	39.728	1.394	40.016	-4.45%	-0.72%
			1850	1.366	40.135	1.400	40.000	-2.43%	0.34%
			1860	1.377	40.102	1.400	40.000	-1.64%	0.25%
			1880	1.399	40.029	1.400	40.000	-0.07%	0.07%
			1900	1.419	39.938	1.400	40.000	1.36%	-0.15%
09/21/2022	1900 Head	20.5	1905	1.424	39.913	1.400	40.000	1.71%	-0.22%
			1910	1.429	39.889	1.400	40.000	2.07%	-0.28%
			1850	1.347	39.535	1.400	40.000	-3.79%	-1.16%
			1860	1.356	39.495	1.400	40.000	-3.14%	-1.26%
			1880	1.375	39.415	1.400	40.000	-1.79%	-1.46%
			1900	1.395	39.339	1.400	40.000	-0.36%	-1.65%
			1905	1.401	39.319	1.400	40.000	0.07%	-1.70%
			1910	1.406	39.299	1.400	40.000	0.43%	-1.75%
			1920	1.416	39.257	1.400	40.000	1.14%	-1.86%
			1950	1.448	39.133	1.400	40.000	3.43%	-2.17%
			1850	1.378	38.153	1.400	40.000	-1.57%	-4.62%
			1860	1.384	38.133	1.400	40.000	-1.14%	-4.67%
11/07/2022	1900 Head	21.6	1880	1.397	38.103	1.400	40.000	-0.21%	-4.74%
			1900	1.409	38.089	1.400	40.000	0.64%	-4.78%
			1905	1.413	38.088	1.400	40.000	0.93%	-4.78%
			1910	1.416	38.087	1.400	40.000	1.14%	-4.78%

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Table 10-2
Measured Head Tissue Properties (Cont.)

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
11/09/2022	1900 Head	20.0	1850	1.365	39.624	1.400	40.000	-2.50%	-0.94%
			1860	1.371	39.609	1.400	40.000	-2.07%	-0.98%
			1880	1.384	39.581	1.400	40.000	-1.14%	-1.05%
			1900	1.396	39.556	1.400	40.000	-0.29%	-1.11%
			1905	1.399	39.550	1.400	40.000	-0.07%	-1.13%
			1910	1.402	39.545	1.400	40.000	0.14%	-1.14%
			1920	1.407	39.532	1.400	40.000	0.50%	-1.17%
			1950	1.425	39.481	1.400	40.000	1.79%	-1.30%
			1980	1.444	39.431	1.400	40.000	3.14%	-1.42%
			2300	1.659	39.205	1.670	39.500	-0.66%	-0.75%
11/07/2022	2450 Head	21.0	2310	1.667	39.193	1.679	39.480	-0.71%	-0.73%
			2320	1.674	39.183	1.687	39.460	-0.77%	-0.70%
			2400	1.735	39.084	1.756	39.289	-1.20%	-0.52%
			2450	1.775	38.996	1.800	39.200	-1.39%	-0.52%
			2480	1.798	38.953	1.833	39.162	-1.91%	-0.53%
			2500	1.813	38.923	1.855	39.136	-2.26%	-0.54%
			2510	1.821	38.906	1.866	39.123	-2.41%	-0.55%
			2535	1.841	38.858	1.893	39.092	-2.75%	-0.60%
			2550	1.854	38.829	1.909	39.073	-2.88%	-0.62%
			2560	1.863	38.807	1.920	39.060	-2.97%	-0.65%
			2600	1.894	38.746	1.964	39.009	-3.56%	-0.67%
			2650	1.933	38.645	2.018	38.945	-4.21%	-0.77%
			2680	1.959	38.592	2.051	38.907	-4.49%	-0.81%
			2700	1.973	38.576	2.073	38.882	-4.82%	-0.79%
11/09/2022	2450 Head	20.3	2300	1.722	40.066	1.670	39.500	3.11%	1.43%
			2310	1.730	40.045	1.679	39.480	3.04%	1.43%
			2320	1.738	40.031	1.687	39.460	3.02%	1.45%
			2400	1.799	39.892	1.756	39.289	2.45%	1.53%
			2450	1.838	39.790	1.800	39.200	2.11%	1.51%
			2480	1.859	39.743	1.833	39.162	1.42%	1.48%
			2500	1.874	39.719	1.855	39.136	1.02%	1.49%
			2510	1.882	39.702	1.866	39.123	0.86%	1.48%
			2535	1.902	39.659	1.893	39.092	0.48%	1.45%
			2550	1.915	39.628	1.909	39.073	0.31%	1.42%
			2560	1.923	39.616	1.920	39.060	0.16%	1.42%
			2600	1.954	39.569	1.964	39.009	-0.51%	1.44%
			2650	1.998	39.470	2.018	38.945	-0.99%	1.35%
			2680	2.023	39.439	2.051	38.907	-1.37%	1.37%
			2700	2.040	39.400	2.073	38.882	-1.59%	1.33%
11/09/2022	2450 Head	19.8	2300	1.659	38.130	1.670	39.500	-0.66%	-3.47%
			2310	1.667	38.120	1.679	39.480	-0.71%	-3.44%
			2320	1.674	38.108	1.687	39.460	-0.77%	-3.43%
			2400	1.732	37.951	1.756	39.289	-1.37%	-3.41%
			2450	1.770	37.878	1.800	39.200	-1.67%	-3.37%
			2480	1.792	37.810	1.833	39.162	-2.24%	-3.45%
			2500	1.807	37.776	1.855	39.136	-2.59%	-3.48%
			2510	1.815	37.762	1.866	39.123	-2.73%	-3.48%
			2535	1.836	37.733	1.893	39.092	-3.01%	-3.48%
			2550	1.848	37.711	1.909	39.073	-3.20%	-3.49%
			2560	1.856	37.691	1.920	39.060	-3.33%	-3.50%
			2600	1.887	37.613	1.964	39.009	-3.92%	-3.58%
			2650	1.929	37.533	2.018	38.945	-4.41%	-3.63%
			2680	1.954	37.483	2.051	38.907	-4.73%	-3.66%
			2700	1.970	37.459	2.073	38.882	-4.97%	-3.66%
11/10/2022	2450 Head	24.0	2300	1.597	40.404	1.670	39.500	-4.37%	2.29%
			2310	1.608	40.370	1.679	39.480	-4.23%	2.25%
			2320	1.619	40.333	1.687	39.460	-4.03%	2.21%
			2400	1.707	40.022	1.756	39.289	-2.79%	1.87%
			2450	1.766	39.833	1.800	39.200	-1.89%	1.61%
			2480	1.801	39.721	1.833	39.162	-1.75%	1.43%
			2500	1.824	39.642	1.855	39.136	-1.67%	1.29%
			2510	1.836	39.602	1.866	39.123	-1.61%	1.22%
			2535	1.866	39.505	1.893	39.092	-1.43%	1.06%
			2550	1.884	39.452	1.909	39.073	-1.31%	0.97%
			2560	1.896	39.420	1.920	39.060	-1.25%	0.92%
			2600	1.940	39.295	1.964	39.009	-1.22%	0.73%
			2650	1.994	39.102	2.018	38.945	-1.19%	0.40%
			2680	2.028	38.990	2.051	38.907	-1.12%	0.21%
			2700	2.049	38.909	2.073	38.882	-1.16%	0.07%
11/10/2022	2450 Head	20.0	2300	1.750	40.269	1.670	39.500	4.79%	1.95%
			2310	1.758	40.258	1.679	39.480	4.71%	1.97%
			2320	1.766	40.245	1.687	39.460	4.68%	1.99%
			2400	1.832	40.112	1.756	39.289	4.33%	2.09%
			2450	1.874	40.021	1.800	39.200	4.11%	2.09%
			2480	1.898	39.968	1.833	39.162	3.55%	2.06%
			2500	1.914	39.934	1.855	39.136	3.18%	2.04%
			2510	1.922	39.913	1.866	39.123	3.00%	2.02%
			2535	1.944	39.860	1.893	39.092	2.69%	1.96%
			2550	1.957	39.833	1.909	39.073	2.51%	1.95%
			2560	1.966	39.811	1.920	39.060	2.40%	1.92%
			2600	1.998	39.745	1.964	39.009	1.73%	1.89%
			2650	2.042	39.644	2.018	38.945	1.19%	1.79%
			2680	2.067	39.597	2.051	38.907	0.78%	1.77%
			2700	2.083	39.575	2.073	38.882	0.48%	1.78%

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Table 10-3
Measured Head Tissue Properties (Cont.)

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
11/22/2022	2450 Head	19.4	2300	1.676	37.978	1.670	39.500	0.36%	-3.85%
			2310	1.683	37.962	1.679	39.480	0.24%	-3.84%
			2320	1.691	37.948	1.687	39.460	0.24%	-3.83%
			2400	1.749	37.816	1.756	39.289	-0.40%	-3.75%
			2450	1.787	37.748	1.800	39.200	-0.72%	-3.70%
			2480	1.809	37.706	1.833	39.162	-1.31%	-3.72%
			2500	1.824	37.676	1.855	39.136	-1.67%	-3.73%
			2510	1.833	37.661	1.866	39.123	-1.77%	-3.74%
			2535	1.854	37.626	1.893	39.092	-2.06%	-3.75%
			2550	1.867	37.604	1.909	39.073	-2.20%	-3.76%
			2560	1.876	37.585	1.920	39.060	-2.29%	-3.78%
			2600	1.909	37.515	1.964	39.009	-2.80%	-3.83%
			2650	1.950	37.411	2.018	38.945	-3.37%	-3.94%
			2680	1.977	37.357	2.051	38.907	-3.61%	-3.98%
			2700	1.993	37.332	2.073	38.882	-3.86%	-3.99%
11/10/2022	3600 Head	19.8	3300	2.653	39.633	2.708	38.157	-2.03%	3.87%
			3350	2.700	39.525	2.759	38.100	-2.14%	3.74%
			3450	2.797	39.350	2.861	37.986	-2.24%	3.59%
			3500	2.844	39.255	2.913	37.929	-2.37%	3.50%
			3550	2.895	39.170	2.964	37.871	-2.33%	3.43%
			3560	2.906	39.157	2.974	37.860	-2.29%	3.43%
			3600	2.945	39.084	3.015	37.814	-2.32%	3.36%
			3650	2.996	38.995	3.066	37.757	-2.28%	3.28%
			3690	3.036	38.930	3.107	37.711	-2.29%	3.23%
			3700	3.042	38.912	3.117	37.700	-2.41%	3.21%
			3750	3.093	38.828	3.169	37.643	-2.40%	3.15%
			3900	3.247	38.594	3.323	37.471	-2.29%	3.00%
			3930	3.286	38.537	3.353	37.437	-2.00%	2.94%
			4100	3.469	38.258	3.528	37.243	-1.67%	2.73%
			4150	3.522	38.167	3.579	37.186	-1.59%	2.64%
11/06/2022	3600 Head	19.2	3300	2.586	38.430	2.708	38.157	-4.51%	0.72%
			3350	2.628	38.324	2.759	38.100	-4.75%	0.59%
			3450	2.722	38.130	2.861	37.986	-4.86%	0.38%
			3500	2.773	38.021	2.913	37.929	-4.81%	0.24%
			3550	2.819	37.962	2.964	37.871	-4.89%	0.24%
			3560	2.828	37.935	2.974	37.860	-4.91%	0.20%
			3600	2.870	37.847	3.015	37.814	-4.81%	0.09%
			3650	2.919	37.730	3.066	37.757	-4.79%	0.06%
			3690	2.958	37.680	3.107	37.711	-4.80%	-0.08%
			3700	2.967	37.657	3.117	37.700	-4.81%	-0.11%
			3750	3.018	37.599	3.169	37.643	-4.76%	-0.12%
			3900	3.169	37.333	3.323	37.471	-4.63%	-0.37%
			3930	3.208	37.267	3.353	37.437	-4.32%	-0.45%
			4100	3.382	36.991	3.528	37.243	-4.14%	-0.68%
			4150	3.443	36.893	3.579	37.186	-3.80%	-0.79%
11/07/2022	5200-5800 Head	20.4	5180	4.594	34.789	4.635	36.009	-0.89%	-3.44%
			5190	4.607	34.751	4.645	35.998	-0.82%	-3.46%
			5200	4.620	34.735	4.655	35.986	-0.75%	-3.48%
			5210	4.631	34.712	4.666	35.975	-0.75%	-3.51%
			5220	4.640	34.689	4.676	35.963	-0.77%	-3.54%
			5240	4.663	34.640	4.696	35.940	-0.70%	-3.62%
			5250	4.681	34.619	4.706	35.929	-0.53%	-3.65%
			5260	4.699	34.619	4.717	35.917	-0.38%	-3.61%
			5270	4.711	34.611	4.727	35.906	-0.34%	-3.61%
			5280	4.719	34.606	4.737	35.894	-0.38%	-3.59%
			5290	4.724	34.592	4.748	35.883	-0.51%	-3.60%
			5300	4.732	34.569	4.758	35.871	-0.55%	-3.63%
			5310	4.744	34.537	4.768	35.860	-0.50%	-3.69%
			5320	4.758	34.514	4.778	35.849	-0.42%	-3.72%
			5500	4.949	34.185	4.963	35.643	-0.28%	-4.09%
			5510	4.965	34.170	4.973	35.632	-0.16%	-4.10%
			5520	4.981	34.151	4.983	35.620	-0.04%	-4.12%
			5530	4.995	34.122	4.994	35.609	0.02%	-4.18%
			5540	5.007	34.095	5.004	35.597	0.06%	-4.22%
			5550	5.019	34.080	5.014	35.586	0.10%	-4.23%
			5560	5.034	34.064	5.024	35.574	0.20%	-4.24%
			5580	5.056	34.023	5.045	35.551	0.22%	-4.30%
			5600	5.074	33.987	5.065	35.529	0.18%	-4.34%
			5610	5.089	33.967	5.076	35.518	0.26%	-4.37%
			5620	5.105	33.946	5.086	35.506	0.37%	-4.39%
			5640	5.134	33.915	5.106	35.483	0.55%	-4.42%
			5660	5.161	33.907	5.127	35.460	0.66%	-4.38%
			5670	5.169	33.907	5.137	35.449	0.62%	-4.35%
			5680	5.174	33.898	5.147	35.437	0.52%	-4.34%
			5690	5.183	33.876	5.158	35.426	0.48%	-4.38%
			5700	5.195	33.848	5.168	35.414	0.52%	-4.42%
			5710	5.211	33.821	5.178	35.403	0.64%	-4.47%
			5720	5.227	33.806	5.188	35.391	0.75%	-4.48%
			5745	5.250	33.792	5.214	35.363	0.69%	-4.44%
			5750	5.254	33.786	5.219	35.357	0.67%	-4.44%
			5755	5.256	33.781	5.224	35.351	0.61%	-4.44%
			5765	5.263	33.755	5.234	35.340	0.55%	-4.49%
			5775	5.272	33.722	5.245	35.329	0.51%	-4.55%
			5785	5.282	33.685	5.255	35.317	0.51%	-4.62%
			5795	5.292	33.661	5.265	35.305	0.51%	-4.66%
			5805	5.305	33.642	5.275	35.294	0.57%	-4.68%
			5825	5.332	33.620	5.296	35.271	0.68%	-4.68%
			5835	5.341	33.589	5.305	35.230	0.68%	-4.66%
			5845	5.350	33.554	5.315	35.210	0.66%	-4.70%
			5855	5.361	33.522	5.325	35.197	0.68%	-4.76%
			5875	5.389	33.485	5.347	35.183	0.79%	-4.83%
			5885	5.402	33.463	5.357	35.177	0.84%	-4.87%
			5905	5.422	33.438	5.379	35.163	0.80%	-4.91%

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Table 10-4
Measured Body Tissue Properties

Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ϵ	% dev σ	% dev ϵ
09/08/2022	750 Body	21.3	680	0.927	54.703	0.958	55.804	-3.24%	-1.97%
			695	0.932	54.654	0.959	55.745	-2.82%	-1.96%
			700	0.934	54.642	0.959	55.726	-2.61%	-1.95%
			710	0.938	54.619	0.960	55.687	-2.29%	-1.92%
			725	0.943	54.587	0.961	55.629	-1.87%	-1.87%
			750	0.953	54.529	0.964	55.531	-1.14%	-1.80%
			770	0.960	54.479	0.965	55.453	-0.52%	-1.76%
			785	0.965	54.434	0.966	55.395	-0.10%	-1.73%
			800	0.970	54.398	0.967	55.336	0.31%	-1.70%
			680	0.918	53.032	0.958	55.804	-4.18%	-4.97%
09/13/2022	750 Body	24.8	695	0.923	52.990	0.959	55.745	-3.75%	-4.94%
			700	0.925	52.979	0.959	55.726	-3.55%	-4.93%
			710	0.928	52.949	0.960	55.687	-3.33%	-4.92%
			725	0.933	52.905	0.961	55.629	-2.91%	-4.90%
			750	0.941	52.841	0.964	55.531	-2.39%	-4.84%
			770	0.948	52.782	0.965	55.453	-1.76%	-4.82%
			785	0.952	52.736	0.966	55.395	-1.45%	-4.80%
			800	0.956	52.689	0.967	55.336	-1.14%	-4.78%
			680	0.917	54.049	0.958	55.804	-4.28%	-3.14%
			695	0.922	54.005	0.959	55.745	-3.86%	-3.12%
09/15/2022	750 Body	21.4	700	0.924	53.989	0.959	55.726	-3.65%	-3.12%
			710	0.928	53.958	0.960	55.687	-3.33%	-3.10%
			725	0.934	53.912	0.961	55.629	-2.81%	-3.09%
			750	0.942	53.846	0.964	55.531	-2.28%	-3.03%
			770	0.948	53.796	0.965	55.453	-1.76%	-2.99%
			785	0.954	53.761	0.966	55.395	-1.24%	-2.95%
			800	0.959	53.732	0.967	55.336	-0.83%	-2.90%
			680	0.911	54.430	0.958	55.804	-4.91%	-2.46%
			695	0.915	54.408	0.959	55.745	-4.59%	-2.40%
			700	0.916	54.398	0.959	55.726	-4.48%	-2.39%
09/15/2022	750 Body	24.9	710	0.919	54.379	0.960	55.687	-4.27%	-2.35%
			725	0.925	54.344	0.961	55.629	-3.75%	-2.31%
			750	0.934	54.279	0.964	55.531	-3.11%	-2.25%
			770	0.941	54.230	0.965	55.453	-2.49%	-2.21%
			785	0.946	54.199	0.966	55.395	-2.07%	-2.16%
			800	0.951	54.169	0.967	55.336	-1.65%	-2.11%
			815	0.981	54.358	0.968	55.271	1.34%	-1.65%
			820	0.986	54.303	0.969	55.258	1.75%	-1.73%
			835	1.001	54.145	0.970	55.200	3.20%	-1.91%
			850	1.017	53.998	0.988	55.154	2.94%	-2.10%
09/19/2022	835 Body	21.4	815	0.946	54.354	0.968	55.271	-2.27%	-1.66%
			820	0.951	54.304	0.969	55.258	-1.86%	-1.73%
			835	0.967	54.158	0.970	55.200	-0.31%	-1.89%
			850	0.982	54.011	0.988	55.154	-0.61%	-2.07%
			815	0.929	53.073	0.968	55.271	-4.03%	-3.98%
09/21/2022	835 Body	24.1	820	0.930	53.060	0.969	55.258	-4.02%	-3.98%
			835	0.935	53.020	0.970	55.200	-3.61%	-3.95%
			850	0.940	52.983	0.988	55.154	-4.86%	-3.94%
			815	0.928	52.893	0.968	55.271	-4.13%	-4.30%
			820	0.933	52.841	0.969	55.258	-3.72%	-4.37%
09/28/2022	835 Body	22.2	835	0.948	52.684	0.970	55.200	-2.27%	-4.56%
			850	0.964	52.534	0.988	55.154	-2.43%	-4.75%
			815	0.944	55.740	0.968	55.271	-2.48%	0.85%
			820	0.946	55.722	0.969	55.258	-2.37%	0.84%
			835	0.951	55.676	0.970	55.200	-1.96%	0.86%
10/05/2022	835 Body	20.9	850	0.957	55.652	0.988	55.154	-3.14%	0.90%
			1710	1.403	51.525	1.463	53.537	-4.10%	-3.76%
			1720	1.413	51.489	1.469	53.511	-3.81%	-3.78%
			1745	1.439	51.405	1.485	53.445	-3.10%	-3.82%
			1750	1.445	51.390	1.488	53.432	-2.89%	-3.82%
09/12/2022	1750 Body	22.5	1770	1.468	51.330	1.501	53.379	-2.20%	-3.84%
			1790	1.491	51.273	1.514	53.326	-1.52%	-3.85%
			1710	1.482	53.133	1.463	53.537	1.30%	-0.75%
			1720	1.494	53.093	1.469	53.511	1.70%	-0.78%
			1745	1.526	53.019	1.485	53.445	2.76%	-0.80%
10/12/2022	1750 Body	21.1	1750	1.532	53.005	1.488	53.432	2.96%	-0.80%
			1770	1.555	52.948	1.501	53.379	3.60%	-0.81%
			1790	1.575	52.866	1.514	53.326	4.03%	-0.86%
			1710	1.452	51.271	1.463	53.537	-0.75%	-4.23%
			1720	1.463	51.228	1.469	53.511	-0.41%	-4.27%
10/17/2022	1750 Body	22.5	1745	1.490	51.124	1.485	53.445	0.34%	-4.34%
			1750	1.496	51.102	1.488	53.432	0.54%	-4.36%
			1770	1.517	51.020	1.501	53.379	1.07%	-4.42%
			1790	1.538	50.943	1.514	53.326	1.59%	-4.47%
			1710	1.457	51.934	1.463	53.537	-0.41%	-2.99%
10/19/2022	1750 Body	21.4	1720	1.468	51.897	1.469	53.511	-0.07%	-3.02%
			1745	1.497	51.804	1.485	53.445	0.81%	-3.07%
			1750	1.503	51.786	1.488	53.432	1.01%	-3.08%
			1770	1.524	51.717	1.501	53.379	1.53%	-3.11%
			1790	1.546	51.653	1.514	53.326	2.11%	-3.14%

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Table 10-5
Measured Body Tissue Properties (Cont.)

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
10/24/2022	1750 Body	21.1	1710	1.489	52.504	1.463	53.537	1.78%	-1.93%
			1720	1.501	52.466	1.469	53.511	2.18%	-1.95%
			1745	1.530	52.362	1.485	53.445	3.03%	-2.03%
			1750	1.536	52.340	1.488	53.432	3.23%	-2.04%
			1770	1.558	52.249	1.501	53.379	3.80%	-2.12%
			1790	1.580	52.160	1.514	53.326	4.36%	-2.19%
11/02/2022	1750 Body	21.3	1710	1.463	51.487	1.463	53.537	0.00%	-3.83%
			1720	1.475	51.447	1.469	53.511	0.41%	-3.86%
			1745	1.502	51.344	1.485	53.445	1.14%	-3.93%
			1750	1.508	51.323	1.488	53.432	1.34%	-3.95%
			1770	1.529	51.237	1.501	53.379	1.87%	-4.01%
			1790	1.551	51.153	1.514	53.326	2.44%	-4.07%
11/10/2022	1750 Body	21.7	1710	1.490	52.189	1.463	53.537	1.85%	-2.52%
			1720	1.501	52.145	1.469	53.511	2.18%	-2.55%
			1745	1.531	52.040	1.485	53.445	3.10%	-2.63%
			1750	1.536	52.021	1.488	53.432	3.23%	-2.64%
			1770	1.558	51.950	1.501	53.379	3.80%	-2.68%
			1790	1.579	51.873	1.514	53.326	4.29%	-2.72%
09/07/2022	1900 Body	23.2	1850	1.511	53.602	1.520	53.300	-0.59%	0.57%
			1860	1.523	53.572	1.520	53.300	0.20%	0.51%
			1880	1.545	53.507	1.520	53.300	1.64%	0.39%
			1900	1.568	53.433	1.520	53.300	3.16%	0.25%
			1905	1.573	53.412	1.520	53.300	3.49%	0.21%
			1910	1.579	53.391	1.520	53.300	3.88%	0.17%
09/09/2022	1900 Body	22.3	1850	1.487	51.264	1.520	53.300	-2.17%	-3.82%
			1860	1.498	51.243	1.520	53.300	-1.45%	-3.86%
			1880	1.520	51.187	1.520	53.300	0.00%	-3.96%
			1900	1.541	51.111	1.520	53.300	1.38%	-4.11%
			1905	1.547	51.089	1.520	53.300	1.78%	-4.15%
			1910	1.552	51.069	1.520	53.300	2.11%	-4.19%
09/12/2022	1900 Body	22.2	1850	1.500	51.034	1.520	53.300	-1.32%	-4.25%
			1860	1.512	50.994	1.520	53.300	-0.53%	-4.33%
			1880	1.534	50.920	1.520	53.300	0.92%	-4.47%
			1900	1.556	50.851	1.520	53.300	2.37%	-4.59%
			1905	1.562	50.835	1.520	53.300	2.76%	-4.62%
			1910	1.567	50.819	1.520	53.300	3.09%	-4.65%
09/27/2022	1900 Body	23.9	1850	1.479	53.235	1.520	53.300	-2.70%	-0.12%
			1860	1.490	53.203	1.520	53.300	-1.97%	-0.18%
			1880	1.512	53.139	1.520	53.300	-0.53%	-0.30%
			1900	1.535	53.075	1.520	53.300	0.99%	-0.42%
			1905	1.540	53.058	1.520	53.300	1.32%	-0.45%
			1910	1.546	53.043	1.520	53.300	1.71%	-0.48%
10/24/2022	1900 Body	24.2	1850	1.445	50.903	1.520	53.300	-4.93%	-4.50%
			1860	1.455	50.866	1.520	53.300	-4.28%	-4.57%
			1880	1.477	50.802	1.520	53.300	-2.83%	-4.69%
			1900	1.499	50.739	1.520	53.300	-1.38%	-4.80%
			1905	1.505	50.722	1.520	53.300	-0.99%	-4.84%
			1910	1.510	50.706	1.520	53.300	-0.66%	-4.87%
11/01/2022	1900 Body	23.2	1850	1.470	50.949	1.520	53.300	-3.29%	-4.41%
			1860	1.480	50.921	1.520	53.300	-2.63%	-4.46%
			1880	1.503	50.861	1.520	53.300	-1.12%	-4.58%
			1900	1.527	50.799	1.520	53.300	0.46%	-4.69%
			1905	1.533	50.781	1.520	53.300	0.86%	-4.73%
			1910	1.538	50.763	1.520	53.300	1.18%	-4.76%
09/19/2022	2450 Body	19.6	2300	1.812	52.904	1.809	52.900	0.17%	0.01%
			2310	1.822	52.893	1.816	52.887	0.33%	0.01%
			2320	1.831	52.880	1.826	52.873	0.27%	0.01%
			2400	1.901	52.761	1.902	52.767	-0.05%	-0.01%
			2450	1.950	52.718	1.950	52.700	0.00%	0.03%
			2480	1.977	52.691	1.993	52.662	-0.80%	0.06%
			2500	1.996	52.660	2.021	52.636	-1.24%	0.05%
			2510	2.006	52.645	2.035	52.623	-1.43%	0.04%
			2535	2.034	52.604	2.071	52.592	-1.79%	0.02%
			2550	2.051	52.586	2.092	52.573	-1.96%	0.02%
			2560	2.061	52.577	2.106	52.560	-2.14%	0.03%
			2600	2.099	52.528	2.163	52.509	-2.96%	0.04%
			2650	2.150	52.420	2.234	52.445	-3.76%	-0.05%
			2680	2.180	52.374	2.277	52.407	-4.26%	-0.06%
			2700	2.199	52.343	2.305	52.382	-4.60%	-0.07%
10/06/2022	2450 Body	20.0	2300	1.814	51.492	1.809	52.900	0.28%	-2.66%
			2310	1.824	51.485	1.816	52.887	0.44%	-2.65%
			2320	1.833	51.479	1.826	52.873	0.38%	-2.64%
			2400	1.904	51.366	1.902	52.767	0.11%	-2.66%
			2450	1.953	51.308	1.950	52.700	0.15%	-2.64%
			2480	1.980	51.270	1.993	52.662	-0.65%	-2.64%
			2500	1.999	51.238	2.021	52.636	-1.09%	-2.66%
			2510	2.009	51.225	2.035	52.623	-1.28%	-2.66%
			2535	2.035	51.188	2.071	52.592	-1.74%	-2.67%
			2550	2.051	51.173	2.092	52.573	-1.96%	-2.66%
			2560	2.062	51.163	2.106	52.560	-2.09%	-2.66%
			2600	2.100	51.107	2.163	52.509	-2.91%	-2.67%
			2650	2.149	51.013	2.234	52.445	-3.80%	-2.73%
			2680	2.179	50.961	2.277	52.407	-4.30%	-2.76%
			2700	2.197	50.928	2.305	52.382	-4.69%	-2.78%

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Table 10-6
Measured Body Tissue Properties (Cont.)

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
10/13/2022	2450 Body	21.6	2300	1.836	52.392	1.809	52.900	1.49%	-0.96%
			2310	1.845	52.377	1.816	52.887	1.60%	-0.96%
			2320	1.854	52.364	1.826	52.873	1.53%	-0.96%
			2400	1.925	52.249	1.902	52.767	1.21%	-0.98%
			2450	1.971	52.190	1.950	52.700	1.08%	-0.97%
			2480	1.997	52.161	1.993	52.662	0.20%	-0.95%
			2500	2.016	52.125	2.021	52.636	-0.25%	-0.97%
			2510	2.026	52.103	2.035	52.623	-0.44%	-0.99%
			2535	2.051	52.051	2.071	52.592	-0.97%	-1.03%
			2550	2.067	52.027	2.092	52.573	-1.20%	-1.04%
			2560	2.076	52.017	2.106	52.560	-1.42%	-1.03%
			2600	2.113	51.971	2.163	52.509	-2.31%	-1.02%
			2650	2.161	51.874	2.234	52.445	-3.27%	-1.05%
			2680	2.190	51.829	2.277	52.407	-3.82%	-1.10%
			2700	2.209	51.796	2.305	52.382	-4.16%	-1.12%
			2300	1.804	54.050	1.809	52.900	-0.28%	2.17%
10/17/2022	2450 Body	19.5	2310	1.814	54.038	1.816	52.887	-0.11%	2.18%
			2320	1.824	54.026	1.826	52.873	-0.11%	2.18%
			2400	1.899	53.887	1.902	52.767	-0.16%	2.12%
			2450	1.947	53.820	1.950	52.700	-0.15%	2.13%
			2480	1.973	53.768	1.993	52.662	-1.00%	2.10%
			2500	1.993	53.723	2.021	52.636	-1.39%	2.07%
			2510	2.004	53.703	2.035	52.623	-1.52%	2.05%
			2535	2.030	53.663	2.071	52.592	-1.98%	2.04%
			2550	2.044	53.648	2.092	52.573	-2.29%	2.04%
			2560	2.053	53.638	2.106	52.560	-2.52%	2.05%
			2600	2.091	53.558	2.163	52.509	-3.33%	2.00%
			2650	2.146	53.475	2.234	52.445	-3.94%	1.96%
			2680	2.172	53.427	2.277	52.407	-4.61%	1.95%
			2700	2.192	53.395	2.305	52.382	-4.90%	1.93%
10/17/2022	2450 Body	20.7	2300	1.844	51.766	1.809	52.900	1.93%	-2.14%
			2310	1.853	51.749	1.816	52.887	2.04%	-2.15%
			2320	1.862	51.736	1.826	52.873	1.97%	-2.15%
			2400	1.932	51.636	1.902	52.767	1.58%	-2.14%
			2450	1.979	51.556	1.950	52.700	1.49%	-2.17%
			2480	2.006	51.515	1.993	52.662	0.65%	-2.18%
			2500	2.025	51.484	2.021	52.636	0.20%	-2.19%
			2510	2.034	51.469	2.035	52.623	-0.05%	-2.19%
			2535	2.059	51.426	2.071	52.592	-0.58%	-2.22%
			2550	2.075	51.395	2.092	52.573	-0.81%	-2.24%
			2560	2.085	51.377	2.106	52.560	-1.00%	-2.25%
			2600	2.123	51.310	2.163	52.509	-1.85%	-2.28%
			2650	2.171	51.218	2.234	52.445	-2.82%	-2.34%
			2680	2.200	51.152	2.277	52.407	-3.38%	-2.39%
			2700	2.218	51.112	2.305	52.382	-3.77%	-2.42%
10/18/2022	2450 Body	23.2	2300	1.870	52.933	1.809	52.900	3.37%	0.06%
			2310	1.879	52.919	1.816	52.887	3.47%	0.06%
			2320	1.888	52.906	1.826	52.873	3.40%	0.06%
			2400	1.958	52.795	1.902	52.767	2.94%	0.05%
			2450	2.004	52.725	1.950	52.700	2.77%	0.05%
			2480	2.029	52.683	1.993	52.662	1.81%	0.04%
			2500	2.048	52.647	2.021	52.636	1.34%	0.02%
			2510	2.057	52.630	2.035	52.623	1.08%	0.01%
			2535	2.082	52.597	2.071	52.592	0.53%	0.01%
			2550	2.096	52.583	2.092	52.573	0.19%	0.02%
			2560	2.106	52.574	2.106	52.560	0.00%	0.03%
			2600	2.141	52.502	2.163	52.509	-1.02%	-0.01%
			2650	2.192	52.421	2.234	52.445	-1.88%	-0.05%
			2680	2.219	52.380	2.277	52.407	-2.55%	-0.05%
			2700	2.236	52.340	2.305	52.382	-2.99%	-0.08%
10/19/2022	2450 Body	20.4	2300	1.892	51.670	1.809	52.900	4.59%	-2.33%
			2310	1.901	51.654	1.816	52.887	4.68%	-2.33%
			2320	1.911	51.640	1.826	52.873	4.65%	-2.33%
			2400	1.984	51.511	1.902	52.767	4.31%	-2.38%
			2450	2.031	51.408	1.950	52.700	4.15%	-2.45%
			2480	2.059	51.361	1.993	52.662	3.31%	-2.47%
			2500	2.078	51.337	2.021	52.636	2.82%	-2.47%
			2510	2.088	51.319	2.035	52.623	2.60%	-2.48%
			2535	2.111	51.255	2.071	52.592	1.93%	-2.54%
			2550	2.126	51.218	2.092	52.573	1.63%	-2.58%
			2560	2.135	51.205	2.106	52.560	1.38%	-2.58%
			2600	2.174	51.159	2.163	52.509	0.51%	-2.57%
			2650	2.225	51.066	2.234	52.445	-0.40%	-2.63%
			2680	2.255	51.022	2.277	52.407	-0.97%	-2.64%
			2700	2.272	50.989	2.305	52.382	-1.43%	-2.66%
10/20/2022	2450 Body	22.0	2300	1.873	52.886	1.809	52.900	3.54%	-0.03%
			2310	1.883	52.876	1.816	52.887	3.69%	-0.02%
			2320	1.892	52.866	1.826	52.873	3.61%	-0.01%
			2400	1.967	52.748	1.902	52.767	3.42%	-0.04%
			2450	2.015	52.661	1.950	52.700	3.33%	-0.07%
			2480	2.041	52.604	1.993	52.662	2.41%	-0.11%
			2500	2.060	52.569	2.021	52.636	1.93%	-0.13%
			2510	2.069	52.551	2.035	52.623	1.67%	-0.14%
			2535	2.093	52.513	2.071	52.592	1.06%	-0.15%
			2550	2.107	52.491	2.092	52.573	0.72%	-0.16%
			2560	2.116	52.474	2.106	52.560	0.47%	-0.16%
			2600	2.153	52.401	2.163	52.509	-0.46%	-0.21%
			2650	2.202	52.329	2.234	52.445	-1.43%	-0.22%
			2680	2.230	52.286	2.277	52.407	-2.06%	-0.23%
			2700	2.249	52.242	2.305	52.382	-2.43%	-0.27%

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Table 10-7
Measured Body Tissue Properties (Cont.)

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
10/24/2022	2450 Body	21.1	2300	1.866	51.265	1.809	52.900	3.15%	-3.09%
			2310	1.878	51.239	1.816	52.887	3.41%	-3.12%
			2320	1.890	51.214	1.826	52.873	3.50%	-3.14%
			2400	1.983	50.973	1.902	52.767	4.26%	-3.40%
			2450	2.044	50.839	1.950	52.700	4.82%	-3.53%
			2480	2.079	50.754	1.993	52.662	4.32%	-3.62%
			2500	2.103	50.687	2.021	52.636	4.06%	-3.70%
			2510	2.115	50.652	2.035	52.623	3.93%	-3.75%
			2535	2.146	50.569	2.071	52.592	3.62%	-3.85%
			2550	2.166	50.527	2.092	52.573	3.54%	-3.89%
			2560	2.179	50.502	2.106	52.560	3.47%	-3.92%
			2600	2.226	50.385	2.163	52.509	2.91%	-4.05%
			2650	2.285	50.216	2.234	52.445	2.28%	-4.25%
			2680	2.322	50.124	2.277	52.407	1.98%	-4.36%
			2700	2.345	50.063	2.305	52.382	1.74%	-4.43%
10/26/2022	2450 Body	21.8	2300	1.846	51.710	1.809	52.900	2.05%	-2.25%
			2310	1.859	51.681	1.816	52.887	2.37%	-2.28%
			2320	1.872	51.647	1.826	52.873	2.52%	-2.32%
			2400	1.976	51.351	1.902	52.767	3.89%	-2.68%
			2450	2.047	51.178	1.950	52.700	4.97%	-2.89%
			2480	2.084	51.077	1.993	52.662	4.57%	-3.01%
			2500	2.112	50.993	2.021	52.636	4.50%	-3.12%
			2510	2.127	50.949	2.035	52.623	4.52%	-3.18%
			2535	2.166	50.845	2.071	52.592	4.59%	-3.32%
			2550	2.188	50.792	2.092	52.573	4.59%	-3.39%
			2560	2.202	50.757	2.106	52.560	4.56%	-3.43%
			2600	2.254	50.621	2.163	52.509	4.21%	-3.60%
			2650	2.328	50.375	2.234	52.445	4.21%	-3.95%
			2680	2.373	50.271	2.277	52.407	4.22%	-4.08%
			2700	2.398	50.219	2.305	52.382	4.03%	-4.13%
10/31/2022	2450 Body	20.8	2300	1.853	51.091	1.809	52.900	2.43%	-3.42%
			2310	1.865	51.076	1.816	52.887	2.70%	-3.42%
			2320	1.876	51.055	1.826	52.873	2.74%	-3.44%
			2400	1.964	50.809	1.902	52.767	3.26%	-3.71%
			2450	2.022	50.688	1.950	52.700	3.69%	-3.82%
			2480	2.058	50.574	1.993	52.662	3.26%	-3.96%
			2500	2.083	50.522	2.021	52.636	3.07%	-4.02%
			2510	2.096	50.500	2.035	52.623	3.00%	-4.03%
			2535	2.127	50.447	2.071	52.592	2.70%	-4.08%
			2550	2.144	50.403	2.092	52.573	2.49%	-4.13%
			2560	2.156	50.363	2.106	52.560	2.37%	-4.18%
			2600	2.207	50.220	2.163	52.509	2.03%	-4.36%
			2650	2.271	50.092	2.234	52.445	1.66%	-4.49%
			2680	2.305	49.982	2.277	52.407	1.23%	-4.63%
			2700	2.329	49.912	2.305	52.382	1.04%	-4.72%
11/03/2022	2450 Body	19.9	2300	1.828	51.993	1.809	52.900	1.05%	-1.71%
			2310	1.841	51.974	1.816	52.887	1.38%	-1.73%
			2320	1.852	51.951	1.826	52.873	1.42%	-1.74%
			2400	1.938	51.681	1.902	52.767	1.89%	-2.06%
			2450	1.999	51.561	1.950	52.700	2.51%	-2.16%
			2480	2.027	51.448	1.993	52.662	1.71%	-2.31%
			2500	2.050	51.380	2.021	52.636	1.43%	-2.39%
			2510	2.065	51.354	2.035	52.623	1.47%	-2.41%
			2535	2.101	51.294	2.071	52.592	1.45%	-2.47%
			2550	2.120	51.261	2.092	52.573	1.34%	-2.50%
			2560	2.131	51.232	2.106	52.560	1.19%	-2.53%
			2600	2.171	51.102	2.163	52.509	0.37%	-2.68%
			2650	2.241	50.938	2.234	52.445	0.31%	-2.87%
			2680	2.278	50.874	2.277	52.407	0.04%	-2.93%
			2700	2.296	50.822	2.305	52.382	-0.39%	-2.98%
11/04/2022	2450 Body	22.6	2300	1.748	51.374	1.809	52.900	-3.37%	-2.88%
			2310	1.762	51.366	1.816	52.887	-2.97%	-2.88%
			2320	1.774	51.349	1.826	52.873	-2.85%	-2.88%
			2400	1.879	51.045	1.902	52.767	-1.21%	-3.26%
			2450	1.946	50.913	1.950	52.700	-0.21%	-3.39%
			2480	1.983	50.745	1.993	52.662	-0.50%	-3.64%
			2500	2.013	50.672	2.021	52.636	-0.40%	-3.73%
			2510	2.029	50.652	2.035	52.623	-0.29%	-3.75%
			2535	2.066	50.607	2.071	52.592	-0.24%	-3.77%
			2550	2.085	50.561	2.092	52.573	-0.33%	-3.83%
			2560	2.097	50.514	2.106	52.560	-0.43%	-3.89%
			2600	2.149	50.294	2.163	52.509	-0.65%	-4.22%
			2650	2.223	50.156	2.234	52.445	-0.49%	-4.36%
			2680	2.259	50.030	2.277	52.407	-0.79%	-4.54%
			2700	2.283	49.925	2.305	52.382	-0.95%	-4.69%
11/07/2022	2450 Body	22.1	2300	1.827	52.431	1.809	52.900	1.00%	-0.89%
			2310	1.842	52.409	1.816	52.887	1.43%	-0.90%
			2320	1.854	52.384	1.826	52.873	1.53%	-0.92%
			2400	1.954	52.049	1.902	52.767	2.73%	-1.36%
			2450	2.021	51.913	1.950	52.700	3.64%	-1.49%
			2480	2.058	51.765	1.993	52.662	3.26%	-1.70%
			2500	2.087	51.694	2.021	52.636	3.27%	-1.79%
			2510	2.102	51.671	2.035	52.623	3.29%	-1.81%
			2535	2.141	51.624	2.071	52.592	3.38%	-1.84%
			2550	2.161	51.578	2.092	52.573	3.30%	-1.89%
			2560	2.174	51.532	2.106	52.560	3.23%	-1.96%
			2600	2.227	51.336	2.163	52.509	2.96%	-2.23%
			2650	2.305	51.188	2.234	52.445	3.18%	-2.40%
			2680	2.344	51.066	2.277	52.407	2.94%	-2.56%
			2700	2.369	50.975	2.305	52.382	2.78%	-2.69%

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Table 10-8
Measured Body Tissue Properties (Cont.)

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
11/14/2022	2450 Body	21.9	2300	1.844	51.515	1.809	52.900	1.93%	-2.62%
			2310	1.858	51.474	1.816	52.887	2.31%	-2.67%
			2320	1.871	51.436	1.826	52.873	2.46%	-2.72%
			2400	1.975	51.133	1.902	52.767	3.84%	-3.10%
			2450	2.044	50.841	1.950	52.700	4.82%	-3.34%
			2480	2.085	50.819	1.993	52.662	4.62%	-3.50%
			2500	2.111	50.752	2.021	52.636	4.45%	-3.58%
			2510	2.125	50.721	2.035	52.623	4.42%	-3.61%
			2535	2.159	50.629	2.071	52.592	4.25%	-3.73%
			2550	2.182	50.565	2.092	52.573	4.30%	-3.82%
			2560	2.197	50.520	2.106	52.560	4.32%	-3.88%
			2600	2.252	50.367	2.163	52.509	4.11%	-4.08%
			2650	2.320	50.166	2.234	52.445	3.85%	-4.35%
			2680	2.365	50.039	2.277	52.407	3.86%	-4.52%
			3300	2.939	51.660	3.080	51.593	-4.58%	0.13%
			3350	2.998	51.590	3.139	51.525	-4.49%	0.13%
10/12/2022	3600 Body	22.3	3450	3.115	51.387	3.256	51.389	-4.33%	0.00%
			3500	3.173	51.294	3.314	51.321	-4.25%	-0.05%
			3550	3.230	51.201	3.372	51.254	-4.21%	-0.10%
			3560	3.241	51.188	3.384	51.240	-4.23%	-0.10%
			3600	3.288	51.125	3.431	51.186	-4.17%	-0.12%
			3650	3.349	51.036	3.489	51.118	-4.01%	-0.16%
			3690	3.394	50.959	3.536	51.063	-4.02%	-0.20%
			3700	3.405	50.946	3.548	51.050	-4.03%	-0.20%
			3750	3.464	50.868	3.606	50.982	-3.94%	-0.22%
			3900	3.655	50.626	3.781	50.779	-3.33%	-0.30%
			3930	3.692	50.575	3.816	50.738	-3.25%	-0.32%
			4100	3.925	50.302	4.015	50.507	-2.24%	-0.41%
			4150	3.996	50.225	4.073	50.439	-1.89%	-0.42%
10/24/2022	3600 Body	18.0	3300	2.940	49.639	3.080	51.593	-4.55%	-3.79%
			3350	3.000	49.565	3.139	51.525	-4.43%	-3.80%
			3450	3.114	49.379	3.256	51.389	-4.36%	-3.91%
			3500	3.166	49.267	3.314	51.321	-4.47%	-4.00%
			3550	3.230	49.213	3.372	51.254	-4.21%	-3.96%
			3560	3.238	49.203	3.384	51.240	-4.31%	-3.96%
			3600	3.283	49.095	3.431	51.186	-4.31%	-4.09%
			3650	3.350	49.039	3.489	51.118	-3.98%	-4.07%
			3690	3.392	48.954	3.536	51.063	-4.07%	-4.13%
			3700	3.406	48.930	3.548	51.050	-4.00%	-4.15%
			3750	3.475	48.855	3.606	50.982	-3.63%	-4.17%
			3900	3.662	48.572	3.781	50.779	-3.15%	-4.35%
			3930	3.708	48.511	3.816	50.738	-2.83%	-4.39%
			4100	3.931	48.241	4.015	50.507	-2.09%	-4.49%
			4150	4.005	48.121	4.073	50.439	-1.67%	-4.60%
10/27/2022	3600 Body	18.0	3300	2.933	50.438	3.080	51.593	-4.77%	-2.24%
			3350	2.989	50.370	3.139	51.525	-4.78%	-2.24%
			3450	3.106	50.180	3.256	51.389	-4.61%	-2.35%
			3500	3.163	50.044	3.314	51.321	-4.56%	-2.49%
			3550	3.227	49.978	3.372	51.254	-4.30%	-2.49%
			3560	3.234	49.974	3.384	51.240	-4.43%	-2.47%
			3600	3.284	49.856	3.431	51.186	-4.28%	-2.60%
			3650	3.343	49.818	3.489	51.118	-4.18%	-2.54%
			3690	3.391	49.708	3.536	51.063	-4.10%	-2.65%
			3700	3.405	49.689	3.548	51.050	-4.03%	-2.67%
			3750	3.466	49.636	3.606	50.982	-3.88%	-2.64%
			3900	3.659	49.350	3.781	50.779	-3.23%	-2.81%
			3930	3.701	49.301	3.816	50.738	-3.01%	-2.83%
			4100	3.929	48.984	4.015	50.507	-2.14%	-3.02%
			4150	3.998	48.925	4.073	50.439	-1.84%	-3.00%
11/03/2022	3600 Body	18.1	3300	2.930	50.168	3.080	51.593	-4.87%	-2.76%
			3350	2.989	50.070	3.139	51.525	-4.78%	-2.82%
			3450	3.099	49.917	3.256	51.389	-4.82%	-2.86%
			3500	3.154	49.835	3.314	51.321	-4.83%	-2.90%
			3550	3.216	49.734	3.372	51.254	-4.63%	-2.97%
			3560	3.224	49.714	3.384	51.240	-4.73%	-2.98%
			3600	3.273	49.643	3.431	51.186	-4.61%	-3.01%
			3650	3.330	49.537	3.489	51.118	-4.56%	-3.09%
			3690	3.378	49.465	3.536	51.063	-4.47%	-3.13%
			3700	3.391	49.439	3.548	51.050	-4.43%	-3.16%
			3750	3.455	49.348	3.606	50.982	-4.19%	-3.21%
			3900	3.649	49.092	3.781	50.779	-3.49%	-3.32%
			3930	3.690	49.045	3.816	50.738	-3.30%	-3.34%
			4100	3.909	48.724	4.015	50.507	-2.64%	-3.53%
			4150	3.979	48.641	4.073	50.439	-2.31%	-3.56%
11/15/2022	3600 Body	19.3	3300	2.974	50.697	3.080	51.593	-3.44%	-1.74%
			3350	3.032	50.618	3.139	51.525	-3.41%	-1.76%
			3450	3.147	50.437	3.256	51.389	-3.35%	-1.85%
			3500	3.206	50.329	3.314	51.321	-3.26%	-1.93%
			3550	3.268	50.247	3.372	51.254	-3.08%	-1.96%
			3560	3.280	50.224	3.384	51.240	-3.07%	-1.98%
			3600	3.325	50.146	3.431	51.186	-3.09%	-2.03%
			3650	3.391	50.076	3.489	51.118	-2.81%	-2.04%
			3690	3.434	50.023	3.536	51.063	-2.88%	-2.04%
			3700	3.447	49.980	3.548	51.050	-2.85%	-2.10%
			3750	3.514	49.913	3.606	50.982	-2.55%	-2.10%
			3900	3.710	49.647	3.781	50.779	-1.88%	-2.23%
			3930	3.752	49.581	3.816	50.738	-1.68%	-2.28%
			4100	3.986	49.297	4.015	50.507	-0.72%	-2.40%
			4150	4.058	49.196	4.073	50.439	-0.37%	-2.46%

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Table 10-9
Measured Body Tissue Properties (Cont.)

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
10/24/2022	5200-5800 Body	21.3	5180	5.192	47.260	5.276	49.041	-1.59%	-3.63%
			5190	5.207	47.237	5.288	49.028	-1.53%	-3.65%
			5200	5.221	47.216	5.299	49.014	-1.47%	-3.67%
			5210	5.233	47.193	5.311	49.001	-1.47%	-3.69%
			5220	5.245	47.175	5.323	48.987	-1.47%	-3.70%
			5240	5.277	47.131	5.346	48.960	-1.29%	-3.74%
			5250	5.293	47.109	5.358	48.947	-1.21%	-3.76%
			5260	5.307	47.082	5.369	48.933	-1.15%	-3.78%
			5270	5.321	47.050	5.381	48.919	-1.12%	-3.82%
			5280	5.336	47.038	5.393	48.906	-1.06%	-3.82%
			5290	5.352	47.035	5.404	48.892	-0.96%	-3.80%
			5300	5.367	47.025	5.416	48.879	-0.90%	-3.79%
			5310	5.380	47.006	5.428	48.865	-0.88%	-3.80%
			5320	5.392	46.984	5.439	48.851	-0.86%	-3.82%
			5500	5.653	46.653	5.650	48.607	0.05%	-4.02%
			5510	5.667	46.639	5.661	48.594	0.11%	-4.02%
			5520	5.680	46.632	5.673	48.580	0.12%	-4.01%
			5530	5.692	46.622	5.685	48.566	0.12%	-4.00%
			5540	5.705	46.600	5.696	48.553	0.16%	-4.02%
			5550	5.717	46.576	5.708	48.539	0.16%	-4.04%
			5560	5.731	46.547	5.720	48.526	0.19%	-4.08%
			5580	5.766	46.494	5.743	48.499	0.40%	-4.13%
			5600	5.800	46.475	5.766	48.471	0.59%	-4.12%
			5610	5.813	46.467	5.778	48.458	0.61%	-4.11%
			5620	5.824	46.459	5.790	48.444	0.59%	-4.10%
			5640	5.847	46.423	5.813	48.417	0.58%	-4.12%
			5660	5.872	46.367	5.837	48.390	0.60%	-4.18%
			5670	5.888	46.338	5.848	48.376	0.68%	-4.21%
			5680	5.906	46.312	5.860	48.363	0.78%	-4.24%
			5690	5.925	46.289	5.872	48.349	0.90%	-4.26%
			5700	5.944	46.278	5.883	48.336	1.04%	-4.26%
			5710	5.959	46.271	5.895	48.322	1.09%	-4.24%
			5720	5.973	46.261	5.907	48.309	1.12%	-4.24%
			5745	6.000	46.228	5.936	48.275	1.08%	-4.24%
			5750	6.004	46.221	5.942	48.268	1.04%	-4.24%
			5755	6.010	46.211	5.947	48.261	1.06%	-4.25%
			5765	6.022	46.184	5.959	48.248	1.06%	-4.28%
			5775	6.038	46.149	5.971	48.234	1.12%	-4.32%
			5785	6.055	46.122	5.982	48.220	1.22%	-4.35%
			5795	6.074	46.054	5.994	48.207	1.33%	-4.38%
			5800	6.082	46.088	6.000	48.200	1.37%	-4.38%
			5805	6.092	46.079	6.006	48.193	1.43%	-4.39%
			5825	6.125	46.035	6.029	48.166	1.61%	-4.42%
			5835	6.139	46.025	6.042	48.130	1.61%	-4.37%
			5845	6.151	46.021	6.054	48.110	1.60%	-4.34%
			5855	6.162	46.001	6.066	48.093	1.58%	-4.35%
			5865	6.173	45.976	6.077	48.080	1.58%	-4.38%
			5875	6.184	45.949	6.088	48.067	1.58%	-4.41%
			5885	6.197	45.922	6.100	48.053	1.59%	-4.43%
			5905	6.226	45.876	6.122	48.027	1.70%	-4.48%
10/30/2022	5200-5800 Body	20.2	5180	5.160	49.316	5.276	49.041	-2.20%	0.56%
			5190	5.173	49.299	5.288	49.028	-2.17%	0.55%
			5200	5.185	49.279	5.299	49.014	-2.15%	0.54%
			5210	5.198	49.253	5.311	49.001	-2.13%	0.51%
			5220	5.210	49.228	5.323	48.987	-2.12%	0.49%
			5240	5.245	49.172	5.346	48.960	-1.89%	0.43%
			5250	5.263	49.176	5.358	48.947	-1.77%	0.47%
			5260	5.282	49.167	5.369	48.933	-1.62%	0.48%
			5270	5.299	49.154	5.381	48.919	-1.52%	0.48%
			5280	5.314	49.137	5.393	48.906	-1.46%	0.47%
			5290	5.323	49.111	5.404	48.892	-1.50%	0.45%
			5300	5.335	49.103	5.416	48.879	-1.50%	0.46%
			5310	5.347	49.088	5.428	48.865	-1.42%	0.46%
			5320	5.361	49.060	5.439	48.851	-1.43%	0.43%
			5500	5.617	48.711	5.650	48.607	-0.58%	0.21%
			5510	5.635	48.700	5.661	48.594	-0.46%	0.22%
			5520	5.650	48.687	5.673	48.580	-0.41%	0.22%
			5530	5.667	48.676	5.685	48.566	-0.32%	0.23%
			5540	5.682	48.661	5.696	48.553	-0.25%	0.22%
			5550	5.693	48.649	5.708	48.539	-0.26%	0.23%
			5560	5.706	48.620	5.720	48.526	-0.24%	0.19%
			5580	5.735	48.576	5.743	48.499	-0.14%	0.16%
			5600	5.771	48.520	5.766	48.471	0.09%	0.10%
			5610	5.786	48.505	5.778	48.458	0.14%	0.10%
			5620	5.799	48.488	5.790	48.444	0.16%	0.09%
			5640	5.836	48.460	5.813	48.417	0.40%	0.09%
			5660	5.866	48.434	5.837	48.390	0.50%	0.09%
			5670	5.873	48.417	5.848	48.376	0.43%	0.08%
			5680	5.885	48.399	5.860	48.363	0.44%	0.07%
			5690	5.905	48.381	5.872	48.349	0.56%	0.07%
			5700	5.922	48.359	5.883	48.336	0.66%	0.05%
			5710	5.937	48.338	5.895	48.322	0.71%	0.03%
			5720	5.952	48.324	5.907	48.309	0.76%	0.03%
			5745	5.984	48.267	5.936	48.275	0.98%	-0.02%
			5750	6.003	48.246	5.942	48.268	1.03%	-0.05%
			5755	6.012	48.230	5.947	48.261	1.09%	-0.06%
			5765	6.028	48.209	5.959	48.248	1.16%	-0.08%
			5775	6.040	48.209	5.971	48.234	1.16%	-0.05%
			5785	6.052	48.198	5.982	48.220	1.17%	-0.05%
			5795	6.069	48.197	5.994	48.207	1.25%	-0.02%
			5800	6.076	48.197	6.000	48.200	1.27%	-0.01%
			5805	6.083	48.184	6.006	48.193	1.28%	-0.02%
			5825	6.112	48.142	6.029	48.166	1.38%	-0.05%
			5835	6.125	48.117	6.042	48.130	1.37%	-0.03%
			5845	6.139	48.095	6.054	48.110	1.40%	-0.03%
			5855	6.152	48.074	6.066	48.093	1.42%	-0.04%
			5865	6.169	48.053	6.077	48.080	1.51%	-0.06%
			5875	6.185	48.047	6.088	48.067	1.61%	-0.04%
			5885	6.203	48.026	6.100	48.053	1.69%	-0.06%
			5905	6.240	47.978	6.122	48.027	1.93%	-0.10%

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Table 10-10
Measured Body Tissue Properties (Cont.)

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
11/08/2022	5200-5800 Body	21.3	5180	5.235	47.762	5.276	49.041	-0.78%	-2.61%
			5190	5.250	47.749	5.288	49.028	-0.72%	-2.61%
			5200	5.268	47.731	5.299	49.014	-0.59%	-2.62%
			5210	5.284	47.701	5.311	49.001	-0.51%	-2.65%
			5220	5.299	47.670	5.323	48.987	-0.45%	-2.69%
			5240	5.335	47.631	5.346	48.960	-0.21%	-2.71%
			5250	5.351	47.617	5.358	48.947	-0.13%	-2.72%
			5260	5.365	47.601	5.369	48.933	-0.07%	-2.72%
			5270	5.379	47.597	5.381	48.919	-0.04%	-2.70%
			5280	5.393	47.594	5.393	48.906	0.00%	-2.68%
			5290	5.406	47.579	5.404	48.892	0.04%	-2.69%
			5300	5.416	47.557	5.416	48.879	0.00%	-2.70%
			5310	5.430	47.525	5.428	48.865	0.04%	-2.74%
			5320	5.446	47.497	5.439	48.851	0.13%	-2.77%
			5500	5.687	47.127	5.650	48.607	0.65%	-3.04%
			5510	5.707	47.105	5.661	48.594	0.81%	-3.06%
			5520	5.723	47.080	5.673	48.580	0.88%	-3.09%
			5530	5.739	47.048	5.685	48.566	0.95%	-3.13%
			5540	5.759	47.018	5.696	48.553	1.11%	-3.16%
			5550	5.777	46.993	5.708	48.539	1.21%	-3.19%
			5560	5.793	46.976	5.720	48.526	1.28%	-3.19%
			5580	5.817	46.957	5.743	48.499	1.29%	-3.18%
			5600	5.847	46.927	5.766	48.471	1.40%	-3.19%
			5610	5.867	46.901	5.778	48.458	1.54%	-3.21%
			5620	5.883	46.877	5.790	48.444	1.61%	-3.23%
			5640	5.919	46.852	5.813	48.417	1.82%	-3.23%
			5660	5.953	46.836	5.837	48.390	1.99%	-3.21%
			5670	5.963	46.830	5.848	48.376	1.97%	-3.20%
			5680	5.974	46.818	5.860	48.363	1.95%	-3.19%
			5690	5.986	46.798	5.872	48.349	1.94%	-3.21%
			5700	6.002	46.765	5.883	48.336	2.02%	-3.25%
			5710	6.019	46.743	5.895	48.322	2.10%	-3.27%
			5720	6.037	46.731	5.907	48.309	2.20%	-3.27%
			5745	6.066	46.688	5.936	48.275	2.19%	-3.29%
			5750	6.071	46.675	5.942	48.268	2.17%	-3.30%
			5755	6.075	46.666	5.947	48.261	2.15%	-3.30%
			5765	6.085	46.645	5.959	48.248	2.11%	-3.32%
			5775	6.100	46.619	5.971	48.234	2.16%	-3.35%
			5785	6.115	46.586	5.982	48.220	2.22%	-3.39%
			5795	6.130	46.559	5.994	48.207	2.27%	-3.42%
			5800	6.137	46.546	6.000	48.200	2.28%	-3.43%
			5805	6.144	46.543	6.006	48.193	2.30%	-3.42%
			5825	6.170	46.516	6.029	48.166	2.34%	-3.43%
			5835	6.184	46.468	6.042	48.130	2.35%	-3.45%
			5845	6.198	46.424	6.054	48.110	2.38%	-3.50%
			5855	6.211	46.392	6.066	48.093	2.39%	-3.54%
			5865	6.230	46.376	6.077	48.080	2.52%	-3.54%
			5875	6.245	46.356	6.088	48.067	2.58%	-3.56%
			5885	6.255	46.325	6.100	48.053	2.54%	-3.60%
			5905	6.281	46.297	6.122	48.027	2.60%	-3.60%

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 SAR System Validation Appendix.

Table 10-11
System Verification Results

System Verification TARGET & MEASURED													
SAR System	Tissue Frequency (MHz)	Tissue Type	Date	Amb. Temp. (C)	Liquid Temp. (C)	Input Power (W)	Source SN	Probe SN	Measured SAR 1g (W/kg)	1W Target SAR 1g (W/kg)	1W Normalized SAR 1g (W/kg)	Deviation 1g (%)	Measured SAR 10g (W/kg)
G	13	HEAD	11/10/2022	22.8	21.9	1.00	1002	7527	0.587	0.557	0.587	5.39%	0.365
P	750	HEAD	09/08/2022	22.0	21.9	0.20	1054	7409	1.710	8.520	8.550	0.35%	1.120
K1	750	HEAD	09/13/2022	21.8	22.9	0.20	1046	7491	1.700	8.540	8.500	-0.47%	1.110
K1	750	HEAD	09/15/2022	21.5	21.7	0.20	1046	7491	1.790	8.540	8.950	4.80%	1.160
K4	835	HEAD	09/19/2022	21.8	21.1	0.20	42119	7637	2.090	9.660	10.450	8.18%	1.360
K4	835	HEAD	09/21/2022	20.6	19.5	0.20	42119	7637	1.810	9.660	9.050	-6.31%	1.180
S	835	HEAD	11/11/2022	21.9	21.4	0.20	42132	7888	1.890	9.660	9.450	-2.17%	1.220
I	1750	HEAD	09/12/2022	23.0	22.5	0.10	1150	7660	3.530	36.900	35.300	-4.34%	1.850
S	1750	HEAD	11/09/2022	21.0	20.8	0.10	1008	7488	3.680	37.400	36.800	-1.60%	1.980
S	1750	HEAD	11/11/2022	21.9	21.4	0.10	1008	7488	3.760	37.400	37.600	0.53%	2.000
S	1900	HEAD	09/21/2022	23.4	21.5	0.10	52148	7488	4.130	40.100	41.300	2.99%	2.130
G	1900	HEAD	10/23/2022	21.9	22.8	0.10	52080	7527	3.810	39.600	38.100	-3.79%	1.960
S	1900	HEAD	11/07/2022	21.5	21.0	0.10	52148	7488	4.240	40.100	42.400	5.74%	2.200
S	1900	HEAD	11/09/2022	21.0	20.8	0.10	52148	7488	4.320	40.100	43.200	7.73%	2.260
AM8	2300	HEAD	11/09/2022	20.2	20.2	0.10	1064	7546	4.990	48.900	49.900	2.04%	2.380
P	2300	HEAD	11/09/2022	21.1	19.5	0.10	1116	7409	4.730	49.600	47.300	-4.64%	2.260
L	2450	HEAD	11/07/2022	23.0	21.0	0.10	981	7410	4.970	53.900	49.700	-7.79%	2.330
S	2450	HEAD	11/22/2022	21.2	19.8	0.10	719	7488	5.220	55.000	52.200	-5.09%	2.440
L	2600	HEAD	11/07/2022	23.0	21.0	0.10	1004	7410	5.800	57.800	58.000	0.35%	2.630
L	2600	HEAD	11/10/2022	22.0	19.8	0.10	1064	7410	6.110	56.400	61.100	8.33%	2.730
C	2600	HEAD	11/10/2022	22.5	22.5	0.10	1064	7406	5.400	57.800	57.500	-0.88%	2.700
L	3500	HEAD	11/06/2022	20.5	20.5	0.10	1059	7410	6.130	63.700	61.300	-3.77%	2.380
L	3500	HEAD	11/10/2022	22.0	19.8	0.10	1059	7410	6.740	63.700	67.400	5.81%	2.610
L	3700	HEAD	11/06/2022	20.5	20.5	0.10	1067	7410	6.540	67.200	65.400	-2.68%	2.460
L	3700	HEAD	11/10/2022	22.0	19.8	0.10	1067	7410	6.800	67.200	68.000	1.19%	2.540
L	3900	HEAD	11/06/2022	20.5	20.5	0.10	1073	7410	6.920	69.700	69.200	-0.72%	2.490
G	5250	HEAD	11/07/2022	21.5	20.2	0.05	1057	7527	3.730	81.200	74.600	-8.13%	1.060
G	5600	HEAD	11/07/2022	21.5	20.2	0.05	1057	7527	4.150	84.200	83.000	-1.43%	1.160
G	5750	HEAD	11/07/2022	21.5	20.2	0.05	1057	7527	3.790	80.800	75.800	-6.19%	1.080
G	5800	HEAD	11/07/2022	21.5	20.2	0.05	1057	7527	3.800	82.100	76.000	-7.43%	1.060
E	750	BODY	09/08/2022	22.5	21.2	0.20	1054	7668	1.770	8.630	8.850	2.55%	1.180
KS	750	BODY	09/13/2022	22.5	23.0	0.20	1003	7402	1.640	8.800	8.200	-6.82%	1.100
E	750	BODY	09/15/2022	21.9	21.4	0.20	1054	7668	1.810	8.630	9.050	4.87%	1.190
KS	750	BODY	09/15/2022	23.5	24.0	0.20	1003	7402	1.630	8.800	8.150	-7.39%	1.090
I	835	BODY	09/19/2022	23.4	20.8	0.20	42047	7660	1.890	9.680	9.450	-2.38%	1.250
K1	835	BODY	09/19/2022	22.5	21.4	0.20	42180	7491	2.030	9.710	10.150	4.53%	1.320
KS	835	BODY	09/21/2022	23.3	23.1	0.20	42119	7402	1.980	9.910	9.900	-0.10%	1.310
K2	835	BODY	09/28/2022	22.7	22.2	0.20	42180	7640	1.930	9.710	9.650	-0.62%	1.270
O	835	BODY	10/05/2022	20.9	20.2	0.20	42132	7417	1.940	9.810	9.700	-1.12%	1.280
J	1750	BODY	09/12/2022	23.1	22.5	0.10	1148	7570	3.690	37.100	36.900	-0.54%	1.970
D	1750	BODY	10/12/2022	22.6	21.1	0.10	1008	7571	3.980	37.800	39.800	5.29%	2.100
C	1750	BODY	10/17/2022	22.5	22.5	0.10	1148	7406	3.480	37.100	34.800	-6.20%	1.870
C	1750	BODY	10/19/2022	22.2	22.5	0.10	1148	7406	3.370	37.100	33.700	-9.16%	1.770
D	1750	BODY	10/24/2022	22.6	21.1	0.10	1008	7571	4.020	37.800	42.120	11.40%	2.120
D	1750	BODY	11/02/2022	22.7	21.3	0.10	1148	7571	3.820	37.100	38.200	2.96%	2.030
D	1750	BODY	11/10/2022	22.3	21.7	0.10	1148	7571	3.930	37.100	39.300	5.93%	2.070
O	1900	BODY	09/07/2022	22.3	21.5	0.10	52080	7417	4.180	40.700	41.800	2.70%	2.150
O	1900	BODY	09/09/2022	23.3	21.5	0.10	52080	7417	4.200	40.700	42.000	3.19%	2.160
O	1900	BODY	09/12/2022	21.7	22.2	0.10	52080	7417	4.010	40.700	40.100	-1.47%	2.050
J	1900	BODY	09/27/2022	21.7	21.9	0.10	52149	7570	3.890	40.400	38.900	-3.71%	2.020
O	1900	BODY	09/28/2022	22.2	22.2	0.10	52149	7570	3.860	40.400	38.600	-4.46%	2.010
J	1900	BODY	11/01/2022	21.4	21.2	0.10	52149	7570	3.940	40.400	39.400	-2.48%	2.050
K	2300	BODY	09/19/2022	21.9	20.7	0.10	1073	7659	4.890	48.100	48.900	1.66%	2.360
AM10	2300	BODY	10/17/2022	20.9	20.1	0.10	1064	7308	4.910	48.400	49.100	1.45%	2.370
AM10	2300	BODY	10/19/2022	20.3	19.4	0.10	1064	7308	4.820	48.400	48.200	-0.41%	2.330
O	2300	BODY	11/04/2022	23.3	21.9	0.10	1116	7417	4.490	49.200	44.900	-8.74%	2.150
O	2300	BODY	11/07/2022	23.5	21.9	0.10	1073	7417	4.920	48.100	49.200	2.29%	2.350
K	2450	BODY	10/06/2022	21.9	21.1	0.10	981	7659	4.560	50.300	47.600	-5.37%	2.220
AM10	2450	BODY	10/12/2022	20.5	20.1	0.10	981	7308	4.920	50.300	49.200	-2.19%	2.180
K	2450	BODY	10/17/2022	21.9	20.7	0.10	981	7659	4.760	50.300	47.600	-5.37%	2.210
E	2450	BODY	10/24/2022	21.2	20.9	0.10	981	7668	5.130	50.300	51.300	1.99%	2.370
E	2450	BODY	10/31/2022	21.6	20.3	0.10	719	7668	5.080	52.000	50.800	-2.31%	2.330
E	2450	BODY	11/03/2022	20.9	20.2	0.10	719	7668	4.990	52.000	49.900	-4.04%	2.290
O	2450	BODY	11/14/2022	21.5	20.3	0.10	719	7417	5.010	52.000	50.100	-3.65%	2.250
K	2600	BODY	10/06/2022	21.9	21.1	0.10	1004	7659	5.230	55.400	52.300	-5.60%	2.360
K	2600	BODY	10/12/2022	22.7	21.6	0.10	1004	7659	5.440	55.400	54.400	-1.81%	2.450
AM10	2600	BODY	10/17/2022	20.5	20.1	0.10	1042	7308	5.380	53.700	53.800	0.19%	2.400
K	2600	BODY	10/17/2022	21.9	20.7	0.10	1004	7659	5.110	55.400	51.100	-7.76%	2.290
K1	2600	BODY	10/18/2022	22.7	23.2	0.10	1126	7491	5.220	54.700	52.200	-4.57%	2.350
K1	2600	BODY	10/20/2022	22.4	22.0	0.10	1126	7491	5.120	54.700	51.200	-6.40%	2.320
E	2600	BODY	10/24/2022	21.2	20.9	0.10	1004	7668	5.690	55.400	56.900	2.71%	2.530
O	2600	BODY	10/26/2022	21.9	21.7	0.10	1071	7417	5.580	54.300	55.800	2.76%	2.470
O	2600	BODY	11/14/2022	21.5	20.3	0.10	1064	7417	5.560	54.600	55.600	1.83%	2.400
L	3500	BODY	10/12/2022	21.4	21.3	0.05	1059	7410	6.390	63.000	63.900	1.43%	2.450
AM3	3500	BODY	10/27/2022	21.8	19.6	0.10	1126	7427	6.550	63.600	65.500	2.99%	2.490
AM3	3500	BODY	11/03/2022	21.8	19.3	0.10	1126	7427	6.440	63.600	64.400	1.26%	2.460
C	3500	BODY	11/15/2022	21.7	20.2	0.10	1097	7406	5.970	64.200	59.700	-7.01%	2.290
L	3700	BODY	10/12/2022	21.4	22.3	0.10	1067	7410	6.680	65.200	66.800	2.45%	2.480
AM3	3700	BODY	10/24/2022	22.2	19.5	0.10	1097	7427	6.410	62.300	64.100	2.89%	2.360
AM3	3700	BODY	10/27/2022	21.8	19.6	0.10	1097	7427	6.300	62.300	63.000	1.12%	2.330
C	3700	BODY	11/15/2022	21.7	20.2	0.10	1018	7406	6.200	63.900	62.000	-2.96%	2.300
AM3	3900	BODY	10/24/2022	22.2	19.5	0.10	1062	7427	6.780	66.300	67.800	2.26%	2.380
C	3900	BODY	11/15/2022	21.7	20.2	0.10	1073	7406	6.340	64.300	63.400	-1.40%	2.230
K	5250	BODY	10/24/2022	21.8	21.2	0.05	1057	7659	3.590	74.200	71.800	-3.23%	1.030
K	5250	BODY	10/30/2022	21.4	22.2	0.05	1057	7659	3.620	74.200	72.400	-2.43%	1.040
K	5250	BODY	11/08/2022	21.8	21.3	0.05	1057	7659	3.780	74.200	75.600	1.89%	1.080
K	5600	BODY	10/24/2022	2									

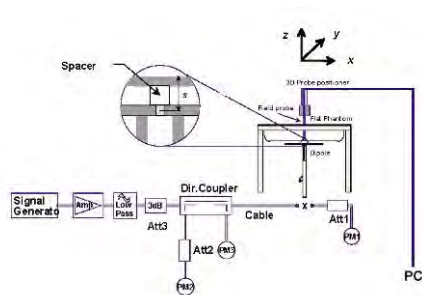


Figure 10-1
System Verification Setup Diagram



Figure 10-2
System Verification Setup Photo

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11 SAR DATA SUMMARY

11.1 Standalone Head SAR Data

Table 11-1
GSM 850 Head SAR

MEASUREMENT RESULTS															
FREQUENCY		Side	Test Position	Mode	Service	Antenna Config.	Device Serial Number	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.											(W/kg)		(W/kg)	
836.60	190	Right	Cheek	GSM 850	GSM	A	0277M	33.0	31.98	0.04	1:8.3	0.165	1.265	0.209	A1
836.60	190	Right	Tilt	GSM 850	GSM	A	0277M	33.0	31.98	0.00	1:8.3	0.101	1.265	0.128	
836.60	190	Left	Cheek	GSM 850	GSM	A	0277M	33.0	31.98	0.09	1:8.3	0.139	1.265	0.176	
836.60	190	Left	Tilt	GSM 850	GSM	A	0277M	33.0	31.98	-0.03	1:8.3	0.089	1.265	0.113	
ICNIRP 1998 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population								Head 1.6 W/kg (mW/g) averaged over 1 gram							

Table 11-2
GSM 1900 Head SAR

MEASUREMENT RESULTS															
FREQUENCY		Side	Test Position	Mode	Service	Antenna Config.	Device Serial Number	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.											(W/kg)		(W/kg)	
1850.20	512	Right	Cheek	GSM 1900	GSM	A	0227M	30.0	29.17	0.09	1:8.3	0.051	1.211	0.062	
1850.20	512	Right	Tilt	GSM 1900	GSM	A	0227M	30.0	29.17	-0.01	1:8.3	0.028	1.211	0.034	
1850.20	512	Left	Cheek	GSM 1900	GSM	A	0227M	30.0	29.17	-0.15	1:8.3	0.094	1.211	0.114	A2
1850.20	512	Left	Tilt	GSM 1900	GSM	A	0227M	30.0	29.17	0.01	1:8.3	0.029	1.211	0.035	
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 11-3
UMTS 850 Head SAR

MEASUREMENT RESULTS																
FREQUENCY		Side	Test Position	Mode	Service	Antenna Config.	Tune State	Device Serial Number	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.												(W/kg)		(W/kg)	
836.60	4183	Right	Cheek	UMTS 850	RMC	A	128	0277M	25.0	24.22	0.01	1:1	0.268	1.197	0.321	A3
836.60	4183	Right	Tilt	UMTS 850	RMC	A	136	0277M	25.0	24.22	-0.01	1:1	0.148	1.197	0.177	
836.60	4183	Left	Cheek	UMTS 850	RMC	A	136	0277M	25.0	24.22	0.06	1:1	0.209	1.197	0.250	
836.60	4183	Left	Tilt	UMTS 850	RMC	A	136	0277M	25.0	24.22	0.01	1:1	0.133	1.197	0.159	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population								Head 1.6 W/kg (mW/g) averaged over 1 gram								

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Table 11-4
UMTS 1750 Head SAR

MEASUREMENT RESULTS																
FREQUENCY		Side	Test Position	Mode	Service	Antenna Config.	Tune State	Device Serial Number	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.												(W/kg)		(W/kg)	
1732.40	1412	Right	Cheek	UMTS 1750	RMC	A	32	0245M	24.0	23.31	0.01	1:1	0.072	1.172	0.084	
1732.40	1412	Right	Tilt	UMTS 1750	RMC	A	32	0245M	24.0	23.31	-0.06	1:1	0.050	1.172	0.059	
1732.40	1412	Left	Cheek	UMTS 1750	RMC	A	137	0245M	24.0	23.31	-0.02	1:1	0.146	1.172	0.171	A4
1732.40	1412	Left	Tilt	UMTS 1750	RMC	A	137	0245M	24.0	23.31	0.07	1:1	0.040	1.172	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							

Table 11-5
UMTS 1900 Head SAR

MEASUREMENT RESULTS																
FREQUENCY		Side	Test Position	Mode	Service	Antenna Config.	Tune State	Device Serial Number	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.												(W/kg)		(W/kg)	
1852.40	9262	Right	Cheek	UMTS 1900	RMC	A	137	0227M	24.0	23.27	-0.06	1:1	0.111	1.183	0.131	
1852.40	9262	Right	Tilt	UMTS 1900	RMC	A	137	0227M	24.0	23.27	-0.15	1:1	0.071	1.183	0.084	
1852.40	9262	Left	Cheek	UMTS 1900	RMC	A	3	0250M	24.0	23.27	-0.05	1:1	0.156	1.183	0.185	A5
1852.40	9262	Left	Tilt	UMTS 1900	RMC	A	137	0227M	24.0	23.27	0.03	1:1	0.058	1.183	0.069	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population									Head 1.6 W/kg (mW/g) averaged over 1 gram							

Table 11-6
LTE Band 71 Head SAR

MEASUREMENT RESULTS																					
FREQUENCY		Side	Test Position	Mode	Antenna Config.	Tune State	Device Serial Number	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPR [dB]	Power Drift [dB]	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.																(W/kg)		(W/kg)		
680.50	133297	Mid	Right	Cheek	LTE Band 71	A	0	0230M	20	QPSK	1	0	25.5	24.54	0	-0.04	1:1	0.147	1.247	0.183	A6
680.50	133297	Mid	Right	Cheek	LTE Band 71	A	0	0230M	20	QPSK	50	25	24.5	23.59	1	0.12	1:1	0.134	1.233	0.165	
680.50	133297	Mid	Right	Tilt	LTE Band 71	A	0	0230M	20	QPSK	1	0	25.5	24.54	0	0.01	1:1	0.073	1.247	0.091	
680.50	133297	Mid	Right	Tilt	LTE Band 71	A	0	0230M	20	QPSK	50	25	24.5	23.59	1	0.09	1:1	0.064	1.233	0.079	
680.50	133297	Mid	Left	Cheek	LTE Band 71	A	2	0230M	20	QPSK	1	0	25.5	24.54	0	0.06	1:1	0.109	1.247	0.136	
680.50	133297	Mid	Left	Cheek	LTE Band 71	A	2	0230M	20	QPSK	50	25	24.5	23.59	1	0.09	1:1	0.102	1.233	0.126	
680.50	133297	Mid	Left	Tilt	LTE Band 71	A	0	0230M	20	QPSK	1	0	25.5	24.54	0	0.02	1:1	0.068	1.247	0.085	
680.50	133297	Mid	Left	Tilt	LTE Band 71	A	0	0230M	20	QPSK	50	25	24.5	23.59	1	0.09	1:1	0.061	1.233	0.075	
ICNRP 1998 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population										Head 1.6 W/kg (mW/g) averaged over 1 gram											

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Table 11-7
LTE Band 12 Head SAR

MEASUREMENT RESULTS																					
FREQUENCY		Side	Test Position	Mode	Antenna Config.	Tune State	Device Serial Number	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPR [dB]	Power Drift [dB]	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.																(W/kg)		(W/kg)		
707.50	23095	Mid	Right	Cheek	LTE Band 12	A	136	0230M	10	QPSK	1	25	25.5	24.68	0	0.12	1:1	0.224	1.208	0.271	A7
707.50	23095	Mid	Right	Cheek	LTE Band 12	A	136	0230M	10	QPSK	25	25	24.5	23.73	1	0.15	1:1	0.165	1.194	0.197	
707.50	23095	Mid	Right	Tilt	LTE Band 12	A	136	0230M	10	QPSK	1	25	25.5	24.68	0	0.15	1:1	0.132	1.208	0.159	
707.50	23095	Mid	Right	Tilt	LTE Band 12	A	136	0230M	10	QPSK	25	25	24.5	23.73	1	0.20	1:1	0.096	1.194	0.115	
707.50	23095	Mid	Left	Cheek	LTE Band 12	A	17	0230M	10	QPSK	1	25	25.5	24.68	0	0.09	1:1	0.183	1.208	0.221	
707.50	23095	Mid	Left	Cheek	LTE Band 12	A	17	0230M	10	QPSK	25	25	24.5	23.73	1	0.17	1:1	0.152	1.194	0.181	
707.50	23095	Mid	Left	Tilt	LTE Band 12	A	17	0230M	10	QPSK	1	25	25.5	24.68	0	0.05	1:1	0.117	1.208	0.141	
707.50	23095	Mid	Left	Tilt	LTE Band 12	A	17	0230M	10	QPSK	25	25	24.5	23.73	1	-0.01	1:1	0.070	1.194	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											

Table 11-8
LTE Band 13 Head SAR

MEASUREMENT RESULTS																					
FREQUENCY		Side	Test Position	Mode	Antenna Config.	Tune State	Device Serial Number	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPR [dB]	Power Drift [dB]	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.																(W/kg)		(W/kg)		
782.00	23230	Mid	Right	Cheek	LTE Band 13	A	136	0230M	10	QPSK	1	0	25.5	24.43	0	0.07	1:1	0.257	1.279	0.329	A8
782.00	23230	Mid	Right	Cheek	LTE Band 13	A	136	0230M	10	QPSK	25	0	24.5	23.45	1	0.07	1:1	0.211	1.274	0.269	
782.00	23230	Mid	Right	Tilt	LTE Band 13	A	136	0230M	10	QPSK	1	0	25.5	24.43	0	0.15	1:1	0.150	1.279	0.192	
782.00	23230	Mid	Right	Tilt	LTE Band 13	A	136	0230M	10	QPSK	25	0	24.5	23.45	1	0.01	1:1	0.119	1.274	0.152	
782.00	23230	Mid	Left	Cheek	LTE Band 13	A	136	0230M	10	QPSK	1	0	25.5	24.43	0	0.11	1:1	0.215	1.279	0.275	
782.00	23230	Mid	Left	Cheek	LTE Band 13	A	136	0230M	10	QPSK	25	0	24.5	23.45	1	0.14	1:1	0.175	1.274	0.223	
782.00	23230	Mid	Left	Tilt	LTE Band 13	A	136	0230M	10	QPSK	1	0	25.5	24.43	0	0.07	1:1	0.152	1.279	0.194	
782.00	23230	Mid	Left	Tilt	LTE Band 13	A	136	0230M	10	QPSK	25	0	24.5	23.45	1	0.12	1:1	0.111	1.274	0.141	
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 11-9
LTE Band 14 Head SAR

MEASUREMENT RESULTS																					
FREQUENCY		Side	Test Position	Mode	Antenna Config.	Tune State	Device Serial Number	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPR [dB]	Power Drift [dB]	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.																(W/kg)		(W/kg)		
793.00	23330	Mid	Right	Cheek	LTE Band 14	A	0	0230M	10	QPSK	1	25	25.5	24.45	0	0.05	1:1	0.256	1.274	0.326	A9
793.00	23330	Mid	Right	Cheek	LTE Band 14	A	136	0230M	10	QPSK	25	12	24.5	23.32	1	0.08	1:1	0.204	1.312	0.268	
793.00	23330	Mid	Right	Tilt	LTE Band 14	A	136	0230M	10	QPSK	1	25	25.5	24.45	0	-0.08	1:1	0.137	1.274	0.175	
793.00	23330	Mid	Right	Tilt	LTE Band 14	A	136	0230M	10	QPSK	25	12	24.5	23.32	1	0.14	1:1	0.107	1.312	0.140	
793.00	23330	Mid	Left	Cheek	LTE Band 14	A	136	0230M	10	QPSK	1	25	25.5	24.45	0	0.13	1:1	0.215	1.274	0.274	
793.00	23330	Mid	Left	Cheek	LTE Band 14	A	136	0230M	10	QPSK	25	12	24.5	23.32	1	0.08	1:1	0.178	1.312	0.234	
793.00	23330	Mid	Left	Tilt	LTE Band 14	A	136	0230M	10	QPSK	1	25	25.5	24.45	0	-0.12	1:1	0.128	1.274	0.163	
793.00	23330	Mid	Left	Tilt	LTE Band 14	A	136	0230M	10	QPSK	25	12	24.5	23.32	1	0.08	1:1	0.093	1.312	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											

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Table 11-10
LTE Band 26 (Cell) Head SAR

MEASUREMENT RESULTS																					
FREQUENCY		Side	Test Position	Mode	Antenna Config.	Tune State	Device Serial Number	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPR [dB]	Power Drift [dB]	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.																(W/kg)		(W/kg)		
831.50	26865	Mid	Right	Cheek	LTE Band 26 (Cell)	A	0	0277M	15	QPSK	1	36	25.5	24.40	0	0.08	1:1	0.262	1.288	0.337	A10
831.50	26865	Mid	Right	Cheek	LTE Band 26 (Cell)	A	136	0277M	15	QPSK	36	37	24.5	23.33	1	0.03	1:1	0.214	1.309	0.280	
831.50	26865	Mid	Right	Tilt	LTE Band 26 (Cell)	A	136	0277M	15	QPSK	1	36	25.5	24.40	0	-0.09	1:1	0.170	1.288	0.219	
831.50	26865	Mid	Right	Tilt	LTE Band 26 (Cell)	A	136	0277M	15	QPSK	36	37	24.5	23.33	1	0.04	1:1	0.141	1.309	0.185	
831.50	26865	Mid	Left	Cheek	LTE Band 26 (Cell)	A	131	0277M	15	QPSK	1	36	25.5	24.40	0	0.13	1:1	0.207	1.288	0.267	
831.50	26865	Mid	Left	Cheek	LTE Band 26 (Cell)	A	131	0277M	15	QPSK	36	37	24.5	23.33	1	0.10	1:1	0.161	1.309	0.211	
831.50	26865	Mid	Left	Tilt	LTE Band 26 (Cell)	A	131	0277M	15	QPSK	1	36	25.5	24.40	0	0.16	1:1	0.150	1.288	0.193	
831.50	26865	Mid	Left	Tilt	LTE Band 26 (Cell)	A	131	0277M	15	QPSK	36	37	24.5	23.33	1	0.06	1:1	0.116	1.309	0.152	
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 5 (Cell) Head SAR

MEASUREMENT RESULTS																							
# CC Uplink	Component Carrier	FREQUENCY			Side	Test Position	Mode	Antenna Config.	Tune State	Device Serial Number	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPR [dB]	Power Drift [dB]	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	Right	Cheek	LTE Band 5 (Cell)	A	0	0240M	10	QPSK	1	0	25.5	24.57	0	0.19	1:1	0.286	1.239	0.354	A11
1 CC Uplink	N/A	836.50	20525	Mid	Right	Cheek	LTE Band 5 (Cell)	A	136	0240M	10	QPSK	25	25	24.5	23.43	1	0.06	1:1	0.226	1.279	0.289	
2 CC Uplink	PCC	836.50	20525	Mid	Right	Cheek	LTE Band 5 (Cell)	A	0	0240M	10	QPSK	1	0	25.5	24.61	0	0.04	1:1	0.275	1.227	0.337	
	SCC	829.30	20453								5		1	24									
1 CC Uplink	N/A	836.50	20525	Mid	Right	Tilt	LTE Band 5 (Cell)	A	136	0240M	10	QPSK	1	0	25.5	24.57	0	0.05	1:1	0.167	1.239	0.207	
1 CC Uplink	N/A	836.50	20525	Mid	Right	Tilt	LTE Band 5 (Cell)	A	136	0240M	10	QPSK	25	25	24.5	23.43	1	-0.02	1:1	0.146	1.279	0.187	
1 CC Uplink	N/A	836.50	20525	Mid	Left	Cheek	LTE Band 5 (Cell)	A	136	0240M	10	QPSK	1	0	25.5	24.57	0	0.18	1:1	0.215	1.239	0.266	
1 CC Uplink	N/A	836.50	20525	Mid	Left	Cheek	LTE Band 5 (Cell)	A	136	0240M	10	QPSK	25	25	24.5	23.43	1	0.04	1:1	0.163	1.279	0.208	
1 CC Uplink	N/A	836.50	20525	Mid	Left	Tilt	LTE Band 5 (Cell)	A	136	0240M	10	QPSK	1	0	25.5	24.57	0	0.08	1:1	0.151	1.239	0.187	
1 CC Uplink	N/A	836.50	20525	Mid	Left	Tilt	LTE Band 5 (Cell)	A	136	0240M	10	QPSK	25	25	24.5	23.43	1	0.07	1:1	0.110	1.279	0.141	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT												Head											
Spatial Peak												1.6 W/kg (mW/g)											
Uncontrolled Exposure/General Population												averaged over 1 gram											

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Table 11-12
LTE Band 66 (AWS) Head SAR

MEASUREMENT RESULTS																							
# CC Uplink	Component Carrier	FREQUENCY			Side	Test Position	Mode	Antenna Config.	Tune State	Device Serial Number	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPR [dB]	Power Drift [dB]	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
		MHz	Ch.																	(W/kg)		(W/kg)	
1 CC Uplink	N/A	1720.00	132072	Low	Right	Cheek	LTE Band 66 (AWS)	A	23	0275M	20	QPSK	1	99	24.5	23.49	0	-0.07	1:1	0.069	1.262	0.087	
1 CC Uplink	N/A	1720.00	132072	Low	Right	Cheek	LTE Band 66 (AWS)	A	23	0275M	20	QPSK	50	50	23.5	22.36	1	-0.11	1:1	0.059	1.300	0.077	
1 CC Uplink	N/A	1720.00	132072	Low	Right	Tilt	LTE Band 66 (AWS)	A	23	0275M	20	QPSK	1	99	24.5	23.49	0	0.07	1:1	0.043	1.262	0.054	
1 CC Uplink	N/A	1720.00	132072	Low	Right	Tilt	LTE Band 66 (AWS)	A	23	0275M	20	QPSK	50	50	23.5	22.36	1	-0.14	1:1	0.034	1.300	0.044	
1 CC Uplink	N/A	1720.00	132072	Low	Left	Cheek	LTE Band 66 (AWS)	A	32	0275M	20	QPSK	1	99	24.5	23.49	0	-0.15	1:1	0.172	1.262	0.217	
1 CC Uplink	N/A	1720.00	132072	Low	Left	Cheek	LTE Band 66 (AWS)	A	32	0275M	20	QPSK	50	50	23.5	22.36	1	-0.06	1:1	0.127	1.300	0.165	
1 CC Uplink	N/A	1715.00	132022	Low	Left	Cheek	LTE Band 66 (AWS)	A	32	0275M	10	QPSK	1	49	24.5	23.50	0	-0.10	1:1	0.138	1.259	0.174	
2 CC Uplink CA_66C	PCC	1720.00	132072	Low	Left	Cheek	LTE Band 66 (AWS)	A	32	0275M	20	QPSK	1	99	24.5	23.46	0	0.03	1:1	0.157	1.271	0.200	
	SCC	1739.80	132270											0									
2 CC Uplink CA_66B	PCC	1715.00	132022	Low	Left	Cheek	LTE Band 66 (AWS)	A	32	0275M	10	QPSK	1	49	24.5	23.40	0	-0.03	1:1	0.139	1.288	0.179	
	SCC	1724.90	132121											0									
1 CC Uplink	N/A	1720.00	132072	Low	Left	Tilt	LTE Band 66 (AWS)	A	32	0275M	20	QPSK	1	99	24.5	23.49	0	0.01	1:1	0.038	1.262	0.048	
1 CC Uplink	N/A	1720.00	132072	Low	Left	Tilt	LTE Band 66 (AWS)	A	32	0275M	20	QPSK	50	50	23.5	22.36	1	0.04	1:1	0.028	1.300	0.036	
1 CC Uplink	N/A	1770.00	132572	High	Right	Cheek	LTE Band 66 (AWS)	F	N/A	0125M	20	QPSK	1	99	16.5	15.50	0	0.01	1:1	0.347	1.259	0.437	
1 CC Uplink	N/A	1770.00	132572	High	Right	Cheek	LTE Band 66 (AWS)	F	N/A	0125M	20	QPSK	50	50	16.5	15.37	0	-0.01	1:1	0.362	1.297	0.470	
1 CC Uplink	N/A	1770.00	132572	High	Right	Tilt	LTE Band 66 (AWS)	F	N/A	0125M	20	QPSK	1	99	16.5	15.50	0	-0.04	1:1	0.381	1.259	0.480	
1 CC Uplink	N/A	1770.00	132572	High	Right	Tilt	LTE Band 66 (AWS)	F	N/A	0125M	20	QPSK	50	0	16.5	15.32	0	0.06	1:1	0.383	1.312	0.502	
1 CC Uplink	N/A	1770.00	132572	High	Right	Tilt	LTE Band 66 (AWS)	F	N/A	0125M	20	QPSK	50	50	16.5	15.37	0	0.02	1:1	0.397	1.297	0.515	
1 CC Uplink	N/A	1775.00	132622	High	Right	Tilt	LTE Band 66 (AWS)	F	N/A	0125M	10	QPSK	25	0	16.5	15.41	0	-0.02	1:1	0.414	1.285	0.532	A12
2 CC Uplink CA_66C	PCC	1770.00	132572	High	Right	Tilt	LTE Band 66 (AWS)	F	N/A	0125M	20	QPSK	50	0	16.5	15.25	0	-0.02	1:1	0.410	1.334	0.547	
	SCC	1750.20	132374											50									
2 CC Uplink CA_66B	PCC	1775.00	132622	High	Right	Tilt	LTE Band 66 (AWS)	F	N/A	0125M	10	QPSK	25	0	16.5	15.21	0	0.01	1:1	0.406	1.346	0.546	
	SCC	1765.10	132523											25									
1 CC Uplink	N/A	1770.00	132572	High	Left	Cheek	LTE Band 66 (AWS)	F	N/A	0125M	20	QPSK	1	99	16.5	15.50	0	0.01	1:1	0.246	1.259	0.310	
1 CC Uplink	N/A	1770.00	132572	High	Left	Cheek	LTE Band 66 (AWS)	F	N/A	0125M	20	QPSK	50	50	16.5	15.37	0	0.02	1:1	0.251	1.297	0.326	
1 CC Uplink	N/A	1770.00	132572	High	Left	Tilt	LTE Band 66 (AWS)	F	N/A	0125M	20	QPSK	1	99	16.5	15.50	0	0.04	1:1	0.326	1.259	0.410	
1 CC Uplink	N/A	1770.00	132572	High	Left	Tilt	LTE Band 66 (AWS)	F	N/A	0125M	20	QPSK	50	50	16.5	15.37	0	0.00	1:1	0.336	1.297	0.436	
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 11-13
LTE Band 25 (PCS) Head SAR

MEASUREMENT RESULTS																					
FREQUENCY			Side	Test Position	Mode	Antenna Config.	Tune State	Device Serial Number	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPR [dB]	Power Drift [dB]	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.																	(W/kg)		(W/kg)	
1860.00	26140	Low	Right	Cheek	LTE Band 25 (PCS)	A	136	0250M	20	QPSK	1	0	24.5	23.29	0	-0.14	1:1	0.122	1.321	0.161	
1860.00	26140	Low	Right	Cheek	LTE Band 25 (PCS)	A	136	0250M	20	QPSK	50	25	23.5	22.34	1	0.07	1:1	0.105	1.306	0.137	
1860.00	26140	Low	Right	Tilt	LTE Band 25 (PCS)	A	136	0250M	20	QPSK	1	0	24.5	23.29	0	-0.04	1:1	0.043	1.321	0.057	
1860.00	26140	Low	Right	Tilt	LTE Band 25 (PCS)	A	136	0250M	20	QPSK	50	25	23.5	22.34	1	0.16	1:1	0.031	1.306	0.040	
1860.00	26140	Low	Left	Cheek	LTE Band 25 (PCS)	A	3	0250M	20	QPSK	1	0	24.5	23.29	0	-0.03	1:1	0.111	1.321	0.147	
1860.00	26140	Low	Left	Cheek	LTE Band 25 (PCS)	A	3	0250M	20	QPSK	50	25	23.5	22.34	1	0.02	1:1	0.096	1.306	0.125	
1860.00	26140	Low	Left	Tilt	LTE Band 25 (PCS)	A	3	0250M	20	QPSK	1	0	24.5	23.29	0	0.10	1:1	0.054	1.321	0.071	
1860.00	26140	Low	Left	Tilt	LTE Band 25 (PCS)	A	3	0250M	20	QPSK	50	25	23.5	22.34	1	0.08	1:1	0.032	1.306	0.042	
1860.00	26140	Low	Right	Cheek	LTE Band 25 (PCS)	F	N/A	0125M	20	QPSK	1	50	18.0	16.59	0	0.00	1:1	0.429	1.384	0.594	
1860.00	26140	Low	Right	Cheek	LTE Band 25 (PCS)	F	N/A	0125M	20	QPSK	50	25	18.0	16.60	0	0.00	1:1	0.432	1.380	0.596	A13
1860.00	26140	Low	Right	Tilt	LTE Band 25 (PCS)	F	N/A	0125M	20	QPSK	1	50	18.0	16.59	0	0.04	1:1	0.389	1.384	0.538	
1860.00	26140	Low	Right	Tilt	LTE Band 25 (PCS)	F	N/A	0125M	20	QPSK	50	25	18.0	16.60	0	0.00	1:1	0.385	1.380	0.531	
1860.00	26140	Low	Left	Cheek	LTE Band 25 (PCS)	F	N/A	0125M	20	QPSK	1	50	18.0	16.59	0	0.01	1:1	0.266	1.384	0.368	
1860.00	26140	Low	Left	Cheek	LTE Band 25 (PCS)	F	N/A	0125M	20	QPSK	50	25	18.0	16.60	0	-0.02	1:1	0.269	1.380	0.371	
1860.00	26140	Low	Left	Tilt	LTE Band 25 (PCS)	F	N/A	0125M	20	QPSK	1	50	18.0	16.59	0	-0.02	1:1	0.342	1.384	0.473	
1860.00	26140	Low	Left	Tilt	LTE Band 25 (PCS)	F	N/A	0125M	20	QPSK	50	25	18.0	16.60	0	0.00	1:1	0.345	1.380	0.476	
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 11-14
LTE Band 30 Head SAR

MEASUREMENT RESULTS																				
FREQUENCY			Side	Test Position	Mode	Antenna Config.	Device Serial Number	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPR [dB]	Power Drift [dB]	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.																(W/kg)		(W/kg)	
2310.00	27710	Mid	Right	Cheek	LTE Band 30	A	0244M	10	QPSK	1	25	23.1	22.58	0	0.03	1:1	0.081	1.127	0.091	
2310.00	27710	Mid	Right	Cheek	LTE Band 30	A	0244M	10	QPSK	25	25	22.1	21.57	1	0.05	1:1	0.063	1.130	0.071	
2310.00	27710	Mid	Right	Tilt	LTE Band 30	A	0244M	10	QPSK	1	25	23.1	22.58	0	0.05	1:1	0.062	1.127	0.070	
2310.00	27710	Mid	Right	Tilt	LTE Band 30	A	0244M	10	QPSK	25	25	22.1	21.57	1	0.03	1:1	0.052	1.130	0.059	
2310.00	27710	Mid	Left	Cheek	LTE Band 30	A	0244M	10	QPSK	1	25	23.1	22.58	0	-0.13	1:1	0.136	1.127	0.153	
2310.00	27710	Mid	Left	Cheek	LTE Band 30	A	0244M	10	QPSK	25	25	22.1	21.57	1	0.00	1:1	0.106	1.130	0.120	
2310.00	27710	Mid	Left	Tilt	LTE Band 30	A	0244M	10	QPSK	1	25	23.1	22.58	0	-0.18	1:1	0.043	1.127	0.048	
2310.00	27710	Mid	Left	Tilt	LTE Band 30	A	0244M	10	QPSK	25	25	22.1	21.57	1	0.17	1:1	0.036	1.130	0.041	
2310.00	27710	Mid	Right	Cheek	LTE Band 30	F	0099M	10	QPSK	1	25	16.5	15.22	0	0.02	1:1	0.400	1.343	0.537	
2310.00	27710	Mid	Right	Cheek	LTE Band 30	F	0099M	10	QPSK	25	0	16.5	15.23	0	0.03	1:1	0.383	1.340	0.513	
2310.00	27710	Mid	Right	Tilt	LTE Band 30	F	0099M	10	QPSK	1	25	16.5	15.22	0	0.02	1:1	0.497	1.343	0.667	A14
2310.00	27710	Mid	Right	Tilt	LTE Band 30	F	0099M	10	QPSK	25	0	16.5	15.23	0	-0.01	1:1	0.472	1.340	0.632	
2310.00	27710	Mid	Left	Cheek	LTE Band 30	F	0099M	10	QPSK	1	25	16.5	15.22	0	-0.02	1:1	0.275	1.343	0.369	
2310.00	27710	Mid	Left	Cheek	LTE Band 30	F	0099M	10	QPSK	25	0	16.5	15.23	0	0.03	1:1	0.266	1.340	0.356	
2310.00	27710	Mid	Left	Tilt	LTE Band 30	F	0099M	10	QPSK	1	25	16.5	15.22	0	0.01	1:1	0.418	1.343	0.561	
2310.00	27710	Mid	Left	Tilt	LTE Band 30	F	0099M	10	QPSK	25	0	16.5	15.23	0	0.01	1:1	0.407	1.340	0.545	
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 11-15
LTE Band 7 Head SAR

MEASUREMENT RESULTS																				
FREQUENCY			Side	Test Position	Mode	Antenna Config.	Device Serial Number	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPR [dB]	Power Drift [dB]	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.																(W/kg)		(W/kg)	
2560.00	21350	High	Right	Cheek	LTE Band 7	B	0244M	20	QPSK	1	50	24.0	22.99	0	0.09	1:1	0.104	1.262	0.131	
2560.00	21350	High	Right	Cheek	LTE Band 7	B	0244M	20	QPSK	50	50	23.0	21.96	1	0.05	1:1	0.080	1.271	0.102	
2560.00	21350	High	Right	Tilt	LTE Band 7	B	0244M	20	QPSK	1	50	24.0	22.99	0	0.13	1:1	0.085	1.262	0.107	
2560.00	21350	High	Right	Tilt	LTE Band 7	B	0244M	20	QPSK	50	50	23.0	21.96	1	0.00	1:1	0.070	1.271	0.089	
2560.00	21350	High	Left	Cheek	LTE Band 7	B	0244M	20	QPSK	1	50	24.0	22.99	0	-0.15	1:1	0.326	1.262	0.411	
2560.00	21350	High	Left	Cheek	LTE Band 7	B	0244M	20	QPSK	50	50	23.0	21.96	1	0.05	1:1	0.250	1.271	0.318	
2560.00	21350	High	Left	Tilt	LTE Band 7	B	0244M	20	QPSK	1	50	24.0	22.99	0	0.09	1:1	0.137	1.262	0.173	
2560.00	21350	High	Left	Tilt	LTE Band 7	B	0244M	20	QPSK	50	50	23.0	21.96	1	-0.06	1:1	0.122	1.271	0.155	
2510.00	20850	Low	Right	Cheek	LTE Band 7	F	0237M	20	QPSK	1	99	16.5	15.83	0	0.02	1:1	0.556	1.167	0.649	
2510.00	20850	Low	Right	Cheek	LTE Band 7	F	0237M	20	QPSK	50	0	16.5	16.09	0	-0.04	1:1	0.585	1.098	0.642	
2510.00	20850	Low	Right	Tilt	LTE Band 7	F	0125M	20	QPSK	1	99	16.5	15.83	0	0.00	1:1	0.623	1.167	0.727	
2510.00	20850	Low	Right	Tilt	LTE Band 7	F	0125M	20	QPSK	50	0	16.5	16.09	0	0.01	1:1	0.688	1.098	0.755	A15
2535.00	21100	Mid	Right	Tilt	LTE Band 7	F	0125M	20	QPSK	50	0	16.5	15.91	0	0.00	1:1	0.601	1.145	0.688	
2560.00	21350	High	Right	Tilt	LTE Band 7	F	0125M	20	QPSK	50	0	16.5	15.75	0	0.02	1:1	0.589	1.188	0.700	
2510.00	20850	Low	Left	Cheek	LTE Band 7	F	0125M	20	QPSK	1	99	16.5	15.83	0	0.00	1:1	0.317	1.167	0.370	
2510.00	20850	Low	Left	Cheek	LTE Band 7	F	0125M	20	QPSK	50	0	16.5	16.09	0	0.00	1:1	0.348	1.098	0.382	
2510.00	20850	Low	Left	Tilt	LTE Band 7	F	0237M	20	QPSK	1	99	16.5	15.83	0	0.04	1:1	0.368	1.167	0.429	
2510.00	20850	Low	Left	Tilt	LTE Band 7	F	0237M	20	QPSK	50	0	16.5	16.09	0	-0.02	1:1	0.444	1.098	0.488	
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 11-16
LTE Band 41 Head SAR

MEASUREMENT RESULTS																						
# CC Uplink, Power Class	Component Carrier	FREQUENCY			Side	Test Position	Mode	Antenna Config.	Device Serial Number	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPR [dB]	Power Drift [dB]	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
		MHz	Ch.	(W/kg)															(W/kg)			
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	Right	Cheek	LTE Band 41	B	0222M	20	QPSK	1	50	25.0	23.86	0	0.17	1:1.58	0.073	1.300	0.095	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	Right	Cheek	LTE Band 41	B	0222M	20	QPSK	50	25	24.0	22.87	1	0.02	1:1.58	0.056	1.297	0.073	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	Right	Tilt	LTE Band 41	B	0222M	20	QPSK	1	50	25.0	23.86	0	-0.12	1:1.58	0.063	1.300	0.082	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	Right	Tilt	LTE Band 41	B	0222M	20	QPSK	50	25	24.0	22.87	1	0.15	1:1.58	0.048	1.297	0.062	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	Left	Cheek	LTE Band 41	B	0222M	20	QPSK	1	0	25.0	23.81	0	0.09	1:1.58	0.231	1.315	0.304	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	Left	Cheek	LTE Band 41	B	0222M	20	QPSK	1	50	25.0	23.86	0	0.01	1:1.58	0.235	1.300	0.306	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	Left	Cheek	LTE Band 41	B	0222M	20	QPSK	50	25	24.0	22.87	1	0.04	1:1.58	0.132	1.297	0.171	
1 CC Uplink - Power Class 2	N/A	2549.50	40185	Low-Mid	Left	Cheek	LTE Band 41	B	0222M	20	QPSK	1	0	26.5	25.23	0	0.09	1:2.31	0.210	1.341	0.282	
1 CC Uplink - Power Class 2	N/A	2549.50	40185	Low-Mid	Left	Cheek	LTE Band 41	B	0222M	20	QPSK	1	50	26.5	25.25	0	-0.13	1:2.31	0.210	1.334	0.280	
2 CC Uplink - Power Class 3	PCC	2549.50	40185	Low-Mid	Left	Cheek	LTE Band 41	B	0222M	20	QPSK	1	0	25.0	24.09	0	0.12	1:1.58	0.236	1.233	0.291	
	SCC	2529.70	39987										99									
2 CC Uplink - Power Class 2	PCC	2549.50	40185	Low-Mid	Left	Cheek	LTE Band 41	B	0222M	20	QPSK	1	0	26.5	25.49	0	-0.03	1:2.31	0.221	1.262	0.279	
	SCC	2529.70	39987										99									
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	Left	Tilt	LTE Band 41	B	0222M	20	QPSK	1	50	25.0	23.86	0	-0.04	1:1.58	0.103	1.300	0.134	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	Left	Tilt	LTE Band 41	B	0222M	20	QPSK	50	25	24.0	22.87	1	-0.01	1:1.58	0.061	1.297	0.105	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	Right	Cheek	LTE Band 41	F	0170M	20	QPSK	1	0	18.0	16.83	0	0.02	1:1.58	0.480	1.309	0.628	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	Right	Cheek	LTE Band 41	F	0170M	20	QPSK	1	0	18.0	16.51	0	0.06	1:1.58	0.382	1.409	0.538	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	Right	Cheek	LTE Band 41	F	0170M	20	QPSK	1	99	18.0	16.50	0	-0.01	1:1.58	0.386	1.413	0.545	
1 CC Uplink - Power Class 3	N/A	2636.50	41055	Mid-High	Right	Cheek	LTE Band 41	F	0170M	20	QPSK	1	99	18.0	16.49	0	0.02	1:1.58	0.406	1.416	0.575	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	Right	Cheek	LTE Band 41	F	0170M	20	QPSK	1	99	18.0	16.52	0	0.02	1:1.58	0.438	1.406	0.616	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	Right	Cheek	LTE Band 41	F	0170M	20	QPSK	50	0	18.0	16.92	0	-0.02	1:1.58	0.483	1.282	0.619	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	Right	Cheek	LTE Band 41	F	0170M	20	QPSK	50	25	18.0	16.59	0	0.01	1:1.58	0.377	1.384	0.522	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	Right	Cheek	LTE Band 41	F	0170M	20	QPSK	50	25	18.0	16.57	0	-0.03	1:1.58	0.389	1.390	0.541	
1 CC Uplink - Power Class 3	N/A	2636.50	41055	Mid-High	Right	Cheek	LTE Band 41	F	0170M	20	QPSK	50	50	18.0	16.55	0	-0.01	1:1.58	0.414	1.396	0.578	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	Right	Cheek	LTE Band 41	F	0170M	20	QPSK	50	50	18.0	16.58	0	0.02	1:1.58	0.448	1.387	0.621	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	Right	Cheek	LTE Band 41	F	0170M	20	QPSK	100	0	18.0	16.82	0	0.01	1:1.58	0.467	1.312	0.613	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	Right	Tilt	LTE Band 41	F	0170M	20	QPSK	1	0	18.0	16.83	0	-0.07	1:1.58	0.479	1.309	0.627	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	Right	Tilt	LTE Band 41	F	0170M	20	QPSK	1	0	18.0	16.51	0	0.03	1:1.58	0.392	1.409	0.552	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	Right	Tilt	LTE Band 41	F	0170M	20	QPSK	1	99	18.0	16.50	0	0.04	1:1.58	0.382	1.413	0.540	
1 CC Uplink - Power Class 3	N/A	2636.50	41055	Mid-High	Right	Tilt	LTE Band 41	F	0170M	20	QPSK	1	99	18.0	16.49	0	0.01	1:1.58	0.406	1.416	0.575	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	Right	Tilt	LTE Band 41	F	0170M	20	QPSK	1	99	18.0	16.52	0	-0.02	1:1.58	0.495	1.406	0.696	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	Right	Tilt	LTE Band 41	F	0170M	20	QPSK	50	0	18.0	16.92	0	0.02	1:1.58	0.492	1.282	0.631	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	Right	Tilt	LTE Band 41	F	0170M	20	QPSK	50	25	18.0	16.59	0	-0.01	1:1.58	0.393	1.384	0.544	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	Right	Tilt	LTE Band 41	F	0170M	20	QPSK	50	25	18.0	16.57	0	0.04	1:1.58	0.381	1.390	0.530	
1 CC Uplink - Power Class 3	N/A	2636.50	41055	Mid-High	Right	Tilt	LTE Band 41	F	0170M	20	QPSK	50	50	18.0	16.55	0	-0.03	1:1.58	0.406	1.396	0.567	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	Right	Tilt	LTE Band 41	F	0170M	20	QPSK	50	0	18.0	16.44	0	-0.02	1:1.58	0.487	1.432	0.697	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	Right	Tilt	LTE Band 41	F	0170M	20	QPSK	50	50	18.0	16.58	0	-0.03	1:1.58	0.504	1.387	0.699	A16
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	Right	Tilt	LTE Band 41	F	0170M	20	QPSK	100	0	18.0	16.82	0	0.05	1:1.58	0.471	1.312	0.618	
1 CC Uplink - Power Class 2	N/A	2680.00	41490	High	Right	Tilt	LTE Band 41	F	0170M	20	QPSK	50	0	19.6	18.14	0	0.00	1:2.31	0.471	1.400	0.659	
1 CC Uplink - Power Class 2	N/A	2680.00	41490	High	Right	Tilt	LTE Band 41	F	0170M	20	QPSK	50	50	19.6	18.23	0	0.01	1:2.31	0.484	1.371	0.664	
2 CC Uplink - Power Class 3	PCC	2680.00	41490	High	Right	Tilt	LTE Band 41	F	0170M	20	QPSK	50	0	18.0	16.48	0	0.00	1:1.58	0.483	1.419	0.685	
	SCC	2660.20	41292										50									
2 CC Uplink - Power Class 2	PCC	2680.00	41490	High	Right	Tilt	LTE Band 41	F	0170M	20	QPSK	50	0	19.6	18.11	0	0.02	1:2.31	0.474	1.409	0.668	
	SCC	2660.20	41292										50									
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	Left	Cheek	LTE Band 41	F	0170M	20	QPSK	1	0	18.0	16.83	0	0.02	1:1.58	0.240	1.309	0.314	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	Left	Cheek	LTE Band 41	F	0170M	20	QPSK	50	0	18.0	16.92	0	-0.08	1:1.58	0.236	1.282	0.303	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	Left	Tilt	LTE Band 41	F	0170M	20	QPSK	1	0	18.0	16.83	0	0.03	1:1.58	0.391	1.309	0.512	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	Left	Tilt	LTE Band 41	F	0170M	20	QPSK	50	0	18.0	16.92	0	0.04	1:1.58	0.391	1.282	0.501	
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 11-17
LTE Band 48 Head SAR

MEASUREMENT RESULTS																						
# CC Uplink	Component Carrier	FREQUENCY		Side	Test Position	Mode	Antenna Config.	Device Serial Number	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPR [dB]	Power Drift [dB]	Duty Cycle	SAR (1g) (W/kg)	Scaling Factor	Reported SAR (1g) (W/kg)	Plot #	
		MHz	Ch.																			
1 CC Uplink	N/A	3560.00	55340	Low	Right	Cheek	LTE Band 48	F	0175M	20	QPSK	1	50	17.5	16.07	0	0.04	1.158	0.505	1.390	0.702	
1 CC Uplink	N/A	3603.30	55773	Low-Mid	Right	Cheek	LTE Band 48	F	0175M	20	QPSK	1	50	17.5	16.27	0	0.00	1.158	0.493	1.327	0.654	
1 CC Uplink	N/A	3646.70	56207	Mid-High	Right	Cheek	LTE Band 48	F	0175M	20	QPSK	1	0	17.5	16.10	0	0.04	1.158	0.482	1.380	0.665	
1 CC Uplink	N/A	3690.00	56640	High	Right	Cheek	LTE Band 48	F	0175M	20	QPSK	1	99	17.5	16.12	0	0.03	1.158	0.417	1.374	0.573	
1 CC Uplink	N/A	3560.00	55340	Low	Right	Cheek	LTE Band 48	F	0175M	20	QPSK	50	0	17.5	16.20	0	0.01	1.158	0.510	1.349	0.688	
1 CC Uplink	N/A	3603.30	55773	Low-Mid	Right	Cheek	LTE Band 48	F	0175M	20	QPSK	50	0	17.5	16.32	0	0.00	1.158	0.497	1.312	0.652	
1 CC Uplink	N/A	3646.70	56207	Mid-High	Right	Cheek	LTE Band 48	F	0175M	20	QPSK	50	25	17.5	16.19	0	0.04	1.158	0.496	1.352	0.671	
1 CC Uplink	N/A	3690.00	56640	High	Right	Cheek	LTE Band 48	F	0175M	20	QPSK	50	25	17.5	16.26	0	0.01	1.158	0.443	1.330	0.589	
1 CC Uplink	N/A	3603.30	55773	Low-Mid	Right	Cheek	LTE Band 48	F	0175M	20	QPSK	100	0	17.5	16.26	0	-0.01	1.158	0.495	1.330	0.658	
1 CC Uplink	N/A	3560.00	55340	Low	Right	Tilt	LTE Band 48	F	0175M	20	QPSK	1	50	17.5	16.07	0	0.03	1.158	0.512	1.390	0.712	
1 CC Uplink	N/A	3560.00	55340	Low	Right	Tilt	LTE Band 48	F	0175M	20	QPSK	1	99	17.5	15.85	0	0.00	1.158	0.518	1.462	0.757	
1 CC Uplink	N/A	3603.30	55773	Low-Mid	Right	Tilt	LTE Band 48	F	0175M	20	QPSK	1	50	17.5	16.27	0	0.02	1.158	0.524	1.327	0.695	
1 CC Uplink	N/A	3646.70	56207	Mid-High	Right	Tilt	LTE Band 48	F	0175M	20	QPSK	1	0	17.5	16.10	0	-0.03	1.158	0.505	1.380	0.697	
1 CC Uplink	N/A	3690.00	56640	High	Right	Tilt	LTE Band 48	F	0175M	20	QPSK	1	99	17.5	16.12	0	-0.01	1.158	0.447	1.374	0.614	
1 CC Uplink	N/A	3560.00	55340	Low	Right	Tilt	LTE Band 48	F	0175M	20	QPSK	50	0	17.5	16.20	0	0.08	1.158	0.523	1.349	0.706	
1 CC Uplink	N/A	3603.30	55773	Low-Mid	Right	Tilt	LTE Band 48	F	0175M	20	QPSK	50	0	17.5	16.32	0	-0.03	1.158	0.527	1.312	0.691	
1 CC Uplink	N/A	3646.70	56207	Mid-High	Right	Tilt	LTE Band 48	F	0175M	20	QPSK	50	25	17.5	16.19	0	0.04	1.158	0.516	1.352	0.698	
1 CC Uplink	N/A	3690.00	56640	High	Right	Tilt	LTE Band 48	F	0175M	20	QPSK	50	25	17.5	16.26	0	-0.03	1.158	0.478	1.330	0.636	
1 CC Uplink	N/A	3603.30	55773	Low-Mid	Right	Tilt	LTE Band 48	F	0175M	20	QPSK	100	0	17.5	16.26	0	-0.01	1.158	0.520	1.330	0.692	
2 CC Uplink	PCC	3560.00	55340	Low	Right	Tilt	LTE Band 48	F	0175M	20	QPSK	1	99	17.5	15.82	0	-0.01	1.158	0.538	1.472	0.792	A17
	SCC	3579.80	55538										0									
1 CC Uplink	N/A	3603.30	55773	Low-Mid	Left	Cheek	LTE Band 48	F	0175M	20	QPSK	1	50	17.5	16.27	0	0.03	1.158	0.385	1.327	0.511	
1 CC Uplink	N/A	3603.30	55773	Low-Mid	Left	Cheek	LTE Band 48	F	0175M	20	QPSK	50	0	17.5	16.32	0	0.04	1.158	0.398	1.312	0.522	
1 CC Uplink	N/A	3603.30	55773	Low-Mid	Left	Tilt	LTE Band 48	F	0175M	20	QPSK	1	50	17.5	16.27	0	0.08	1.158	0.389	1.327	0.516	
1 CC Uplink	N/A	3603.30	55773	Low-Mid	Left	Tilt	LTE Band 48	F	0175M	20	QPSK	50	0	17.5	16.32	0	0.01	1.158	0.409	1.312	0.537	
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 11-18
NR Band n71 Head SAR

MEASUREMENT RESULTS																						
FREQUENCY		Side	Test Position	Mode	Antenna Config	Tune State	Serial Number	Bandwidth [MHz]	Waveform	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPR [dB]	Power Drift [dB]	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.																	(W/kg)		(W/kg)		
680.50	136100	Mid	Right	Cheek	NR Band n71	A	136	0228M	20	DFT-S-OFDM	QPSK	1	104	25.5	24.58	0	-0.03	1:1	0.222	1.236	0.274	
680.50	136100	Mid	Right	Cheek	NR Band n71	A	136	0228M	20	DFT-S-OFDM	QPSK	50	28	25.5	24.58	0	0.02	1:1	0.220	1.236	0.272	
680.50	136100	Mid	Right	Tilt	NR Band n71	A	0	0228M	20	DFT-S-OFDM	QPSK	1	104	25.5	24.58	0	0.20	1:1	0.091	1.236	0.112	
680.50	136100	Mid	Right	Tilt	NR Band n71	A	0	0228M	20	DFT-S-OFDM	QPSK	50	28	25.5	24.58	0	0.05	1:1	0.108	1.236	0.133	
680.50	136100	Mid	Left	Cheek	NR Band n71	A	136	0228M	20	DFT-S-OFDM	QPSK	1	104	25.5	24.58	0	0.00	1:1	0.240	1.236	0.297	A18
680.50	136100	Mid	Left	Cheek	NR Band n71	A	136	0228M	20	DFT-S-OFDM	QPSK	50	28	25.5	24.58	0	0.00	1:1	0.220	1.236	0.272	
680.50	136100	Mid	Left	Cheek	NR Band n71	A	136	0228M	20	CP-OFDM	QPSK	1	1	24.0	23.03	1.5	-0.04	1:1	0.141	1.250	0.176	
680.50	136100	Mid	Left	Tilt	NR Band n71	A	136	0228M	20	DFT-S-OFDM	QPSK	1	104	25.5	24.58	0	-0.08	1:1	0.114	1.236	0.141	
680.50	136100	Mid	Left	Tilt	NR Band n71	A	136	0228M	20	DFT-S-OFDM	QPSK	50	28	25.5	24.58	0	0.01	1:1	0.132	1.236	0.163	
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 11-19
NR Band n12 Head SAR

MEASUREMENT RESULTS																						
FREQUENCY		Side	Test Position	Mode	Antenna Config	Tune State	Serial Number	Bandwidth [MHz]	Waveform	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPR [dB]	Power Drift [dB]	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.																	(W/kg)		(W/kg)		
707.50	141500	Mid	Right	Cheek	NR Band n12	A	80	0228M	15	DFT-S-OFDM	QPSK	1	1	25.5	24.39	0	0.09	1:1	0.176	1.291	0.227	A19
707.50	141500	Mid	Right	Cheek	NR Band n12	A	136	0228M	15	DFT-S-OFDM	QPSK	36	22	25.5	24.33	0	0.03	1:1	0.238	1.309	0.312	
707.50	141500	Mid	Right	Cheek	NR Band n12	A	136	0228M	15	CP-OFDM	QPSK	1	1	24.0	22.85	1.5	0.00	1:1	0.125	1.303	0.163	
707.50	141500	Mid	Right	Tilt	NR Band n12	A	136	0228M	15	DFT-S-OFDM	QPSK	1	1	25.5	24.39	0	0.02	1:1	0.078	1.291	0.101	
707.50	141500	Mid	Right	Tilt	NR Band n12	A	136	0228M	15	DFT-S-OFDM	QPSK	36	22	25.5	24.33	0	0.13	1:1	0.134	1.309	0.175	
707.50	141500	Mid	Left	Cheek	NR Band n12	A	17	0228M	15	DFT-S-OFDM	QPSK	1	1	25.5	24.39	0	0.05	1:1	0.143	1.291	0.185	
707.50	141500	Mid	Left	Cheek	NR Band n12	A	17	0228M	15	DFT-S-OFDM	QPSK	36	22	25.5	24.33	0	-0.10	1:1	0.201	1.309	0.263	
707.50	141500	Mid	Left	Tilt	NR Band n12	A	0	0263M	15	DFT-S-OFDM	QPSK	1	1	25.5	24.39	0	-0.17	1:1	0.095	1.291	0.123	
707.50	141500	Mid	Left	Tilt	NR Band n12	A	0	0263M	15	DFT-S-OFDM	QPSK	36	22	25.5	24.33	0	0.00	1:1	0.100	1.309	0.131	
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 11-20
NR Band n26 Head SAR

MEASUREMENT RESULTS																						
FREQUENCY		Side	Test Position	Mode	Antenna Config	Tune State	Serial Number	Bandwidth [MHz]	Waveform	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPR [dB]	Power Drift [dB]	Duty Cycle	SAR [g]	Scaling Factor	Reported SAR [g]	Plot #	
MHz	Ch.																	[W/kg]		[W/kg]		
831.50	166300	Mid	Right	Cheek	NR Band n26	A	0	0263M	20	DFT-S-OFDM	QPSK	1	1	24.0	22.80	0	-0.02	1:1	0.252	1.318	0.332	A20
831.50	166300	Mid	Right	Cheek	NR Band n26	A	0	0263M	20	DFT-S-OFDM	QPSK	50	0	24.0	22.65	0	-0.07	1:1	0.220	1.365	0.300	
831.50	166300	Mid	Right	Cheek	NR Band n26	A	0	0263M	20	CP-OFDM	QPSK	1	1	24.0	22.67	0	0.03	1:1	0.206	1.358	0.280	
831.50	166300	Mid	Right	Tilt	NR Band n26	A	0	0263M	20	DFT-S-OFDM	QPSK	1	1	24.0	22.80	0	0.01	1:1	0.158	1.318	0.208	
831.50	166300	Mid	Right	Tilt	NR Band n26	A	0	0263M	20	DFT-S-OFDM	QPSK	50	0	24.0	22.65	0	-0.12	1:1	0.132	1.365	0.180	
831.50	166300	Mid	Left	Cheek	NR Band n26	A	0	0263M	20	DFT-S-OFDM	QPSK	1	1	24.0	22.80	0	0.09	1:1	0.221	1.318	0.291	
831.50	166300	Mid	Left	Cheek	NR Band n26	A	0	0263M	20	DFT-S-OFDM	QPSK	50	0	24.0	22.65	0	0.01	1:1	0.186	1.365	0.254	
831.50	166300	Mid	Left	Tilt	NR Band n26	A	0	0263M	20	DFT-S-OFDM	QPSK	1	1	24.0	22.80	0	0.04	1:1	0.161	1.318	0.212	
831.50	166300	Mid	Left	Tilt	NR Band n26	A	0	0263M	20	DFT-S-OFDM	QPSK	50	0	24.0	22.65	0	0.07	1:1	0.117	1.365	0.160	
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 11-21
NR Band n66 Head SAR

MEASUREMENT RESULTS																						
FREQUENCY		Side	Test Position	Mode	Antenna Config	Tune State	Serial Number	Bandwidth [MHz]	Waveform	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPR [dB]	Power Drift [dB]	Duty Cycle	SAR (1g) (W/kg)	Scaling Factor	Reported SAR (1g) (W/kg)	Plot #	
MHz	Ch.																					
1745.00	349000	Mid	Right	Cheek	NR Band n66	A	17	0241M	40	DFT-S-OFDM	QPSK	1	108	24.5	23.33	0	0.03	1:1	0.093	1.309	0.122	
1745.00	349000	Mid	Right	Cheek	NR Band n66	A	17	0241M	40	DFT-S-OFDM	QPSK	108	54	24.5	23.43	0	-0.03	1:1	0.099	1.279	0.127	
1745.00	349000	Mid	Right	Tilt	NR Band n66	A	17	0241M	40	DFT-S-OFDM	QPSK	1	108	24.5	23.33	0	0.03	1:1	0.057	1.309	0.075	
1745.00	349000	Mid	Right	Tilt	NR Band n66	A	17	0241M	40	DFT-S-OFDM	QPSK	108	54	24.5	23.43	0	0.01	1:1	0.063	1.279	0.081	
1745.00	349000	Mid	Left	Cheek	NR Band n66	A	26	0229M	40	DFT-S-OFDM	QPSK	1	108	24.5	23.33	0	0.07	1:1	0.156	1.309	0.204	
1745.00	349000	Mid	Left	Cheek	NR Band n66	A	26	0229M	40	DFT-S-OFDM	QPSK	108	54	24.5	23.43	0	0.01	1:1	0.148	1.279	0.189	
1745.00	349000	Mid	Left	Cheek	NR Band n66	A	26	0229M	40	CP-OFDM	QPSK	1	1	23.0	21.89	1.5	-0.05	1:1	0.106	1.291	0.137	
1745.00	349000	Mid	Left	Tilt	NR Band n66	A	17	0241M	40	DFT-S-OFDM	QPSK	1	108	24.5	23.33	0	0.16	1:1	0.042	1.309	0.055	
1745.00	349000	Mid	Left	Tilt	NR Band n66	A	17	0241M	40	DFT-S-OFDM	QPSK	108	54	24.5	23.43	0	0.04	1:1	0.040	1.279	0.051	
1745.00	349000	Mid	Right	Cheek	NR Band n66	F	N/A	0263M	40	DFT-S-OFDM	QPSK	1	108	17.0	15.96	0	-0.07	1:1	0.420	1.271	0.534	
1745.00	349000	Mid	Right	Cheek	NR Band n66	F	N/A	0263M	40	DFT-S-OFDM	QPSK	108	108	17.0	15.97	0	-0.02	1:1	0.439	1.268	0.557	
1745.00	349000	Mid	Right	Tilt	NR Band n66	F	N/A	0263M	40	DFT-S-OFDM	QPSK	1	108	17.0	15.96	0	0.03	1:1	0.477	1.271	0.606	
1745.00	349000	Mid	Right	Tilt	NR Band n66	F	N/A	0263M	40	DFT-S-OFDM	QPSK	108	108	17.0	15.97	0	0.01	1:1	0.490	1.268	0.621	
1745.00	349000	Mid	Right	Tilt	NR Band n66	F	N/A	0263M	40	CP-OFDM	QPSK	1	1	17.0	15.93	0	0.00	1:1	0.514	1.279	0.657	A21
1745.00	349000	Mid	Left	Cheek	NR Band n66	F	N/A	0263M	40	DFT-S-OFDM	QPSK	1	108	17.0	15.96	0	0.02	1:1	0.256	1.271	0.325	
1745.00	349000	Mid	Left	Cheek	NR Band n66	F	N/A	0263M	40	DFT-S-OFDM	QPSK	108	108	17.0	15.97	0	0.01	1:1	0.271	1.268	0.344	
1745.00	349000	Mid	Left	Tilt	NR Band n66	F	N/A	0263M	40	DFT-S-OFDM	QPSK	1	108	17.0	15.96	0	-0.03	1:1	0.419	1.271	0.533	
1745.00	349000	Mid	Left	Tilt	NR Band n66	F	N/A	0263M	40	DFT-S-OFDM	QPSK	108	108	17.0	15.97	0	-0.02	1:1	0.438	1.268	0.555	
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 11-22
NR Band n25 Head SAR

MEASUREMENT RESULTS																						
FREQUENCY			Side	Test Position	Mode	Antenna Config	Tune State	Serial Number	Bandwidth [MHz]	Waveform	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPR [dB]	Power Drift [dB]	Duty Cycle	SAR (lg) (W/kg)	Scaling Factor	Reported SAR (lg) (W/kg)	Plot #
MHz	Ch.																					
1882.50	376500	Mid	Right	Cheek	NR Band n25	A	32	0289M	40	DFT-S-OFDM	QPSK	1	1	24.5	23.73	0	0.01	1:1	0.060	1.194	0.072	
1882.50	376500	Mid	Right	Cheek	NR Band n25	A	32	0289M	40	DFT-S-OFDM	QPSK	108	54	24.5	23.81	0	0.09	1:1	0.079	1.172	0.093	
1882.50	376500	Mid	Right	Tilt	NR Band n25	A	36	0289M	40	DFT-S-OFDM	QPSK	1	1	24.5	23.73	0	0.03	1:1	0.069	1.194	0.082	
1882.50	376500	Mid	Right	Tilt	NR Band n25	A	36	0289M	40	DFT-S-OFDM	QPSK	108	54	24.5	23.81	0	0.03	1:1	0.067	1.172	0.079	
1882.50	376500	Mid	Left	Cheek	NR Band n25	A	26	0230M	40	DFT-S-OFDM	QPSK	1	1	24.5	23.73	0	0.20	1:1	0.107	1.194	0.128	
1882.50	376500	Mid	Left	Cheek	NR Band n25	A	26	0230M	40	DFT-S-OFDM	QPSK	108	54	24.5	23.81	0	0.07	1:1	0.119	1.172	0.139	
1882.50	376500	Mid	Left	Cheek	NR Band n25	A	25	0230M	40	CP-OFDM	QPSK	1	1	23.0	21.89	1.5	0.07	1:1	0.079	1.291	0.102	
1882.50	376500	Mid	Left	Tilt	NR Band n25	A	32	0289M	40	DFT-S-OFDM	QPSK	1	1	24.5	23.73	0	0.00	1:1	0.074	1.194	0.088	
1882.50	376500	Mid	Left	Tilt	NR Band n25	A	32	0289M	40	DFT-S-OFDM	QPSK	108	54	24.5	23.81	0	0.03	1:1	0.062	1.172	0.073	
1882.50	376500	Mid	Right	Cheek	NR Band n25	F	N/A	0263M	40	DFT-S-OFDM	QPSK	1	108	18.0	17.08	0	-0.08	1:1	0.406	1.236	0.502	
1882.50	376500	Mid	Right	Cheek	NR Band n25	F	N/A	0263M	40	DFT-S-OFDM	QPSK	108	0	18.0	17.22	0	0.02	1:1	0.443	1.197	0.530	
1882.50	376500	Mid	Right	Cheek	NR Band n25	F	N/A	0263M	40	CP-OFDM	QPSK	1	1	18.0	17.11	0	-0.02	1:1	0.445	1.227	0.546	A22
1882.50	376500	Mid	Right	Tilt	NR Band n25	F	N/A	0263M	40	DFT-S-OFDM	QPSK	1	108	18.0	17.08	0	0.00	1:1	0.398	1.236	0.492	
1882.50	376500	Mid	Right	Tilt	NR Band n25	F	N/A	0263M	40	DFT-S-OFDM	QPSK	108	0	18.0	17.22	0	0.03	1:1	0.432	1.197	0.517	
1882.50	376500	Mid	Left	Cheek	NR Band n25	F	N/A	0263M	40	DFT-S-OFDM	QPSK	1	108	18.0	17.08	0	-0.05	1:1	0.228	1.236	0.282	
1882.50	376500	Mid	Left	Cheek	NR Band n25	F	N/A	0263M	40	DFT-S-OFDM	QPSK	108	0	18.0	17.22	0	-0.03	1:1	0.232	1.197	0.278	
1882.50	376500	Mid	Left	Tilt	NR Band n25	F	N/A	0263M	40	DFT-S-OFDM	QPSK	1	108	18.0	17.08	0	-0.03	1:1	0.321	1.236	0.397	
1882.50	376500	Mid	Left	Tilt	NR Band n25	F	N/A	0263M	40	DFT-S-OFDM	QPSK	108	0	18.0	17.22	0	0.01	1:1	0.346	1.197	0.414	
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 11-23
NR Band n30 Head SAR

MEASUREMENT RESULTS																					
FREQUENCY			Side	Test Position	Mode	Antenna Config	Serial Number	Bandwidth [MHz]	Waveform	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPR [dB]	Power Drift [dB]	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.	(W/kg)																(W/kg)			
2310.00	462000	Mid	Right	Cheek	NR Band n30	A	0289M	10	DFT-S-OFDM	QPSK	1	26	23.5	22.62	0	-0.03	1:1	0.060	1.225	0.074	
2310.00	462000	Mid	Right	Cheek	NR Band n30	A	0289M	10	DFT-S-OFDM	QPSK	25	14	23.5	22.58	0	-0.02	1:1	0.073	1.236	0.090	
2310.00	462000	Mid	Right	Tilt	NR Band n30	A	0289M	10	DFT-S-OFDM	QPSK	1	26	23.5	22.62	0	0.04	1:1	0.060	1.225	0.074	
2310.00	462000	Mid	Right	Tilt	NR Band n30	A	0289M	10	DFT-S-OFDM	QPSK	25	14	23.5	22.58	0	-0.03	1:1	0.059	1.236	0.073	
2310.00	462000	Mid	Left	Cheek	NR Band n30	A	0289M	10	DFT-S-OFDM	QPSK	1	26	23.5	22.62	0	0.06	1:1	0.106	1.225	0.130	
2310.00	462000	Mid	Left	Cheek	NR Band n30	A	0289M	10	DFT-S-OFDM	QPSK	25	14	23.5	22.58	0	0.04	1:1	0.106	1.236	0.131	
2310.00	462000	Mid	Left	Cheek	NR Band n30	A	0289M	10	CP-OFDM	QPSK	1	1	22.0	20.88	1.5	0.05	1:1	0.075	1.294	0.097	
2310.00	462000	Mid	Left	Tilt	NR Band n30	A	0289M	10	DFT-S-OFDM	QPSK	1	26	23.5	22.62	0	-0.16	1:1	0.036	1.225	0.044	
2310.00	462000	Mid	Left	Tilt	NR Band n30	A	0289M	10	DFT-S-OFDM	QPSK	25	14	23.5	22.58	0	0.12	1:1	0.035	1.236	0.043	
2310.00	462000	Mid	Right	Cheek	NR Band n30	F	0263M	10	DFT-S-OFDM	QPSK	1	26	16.5	15.10	0	0.05	1:1	0.418	1.380	0.577	
2310.00	462000	Mid	Right	Cheek	NR Band n30	F	0263M	10	DFT-S-OFDM	QPSK	25	14	16.5	15.19	0	-0.01	1:1	0.428	1.352	0.579	
2310.00	462000	Mid	Right	Tilt	NR Band n30	F	0263M	10	DFT-S-OFDM	QPSK	1	26	16.5	15.10	0	0.07	1:1	0.613	1.380	0.846	
2310.00	462000	Mid	Right	Tilt	NR Band n30	F	0263M	10	DFT-S-OFDM	QPSK	25	14	16.5	15.19	0	-0.03	1:1	0.643	1.352	0.869	
2310.00	462000	Mid	Right	Tilt	NR Band n30	F	0263M	10	DFT-S-OFDM	QPSK	50	0	16.5	15.09	0	-0.02	1:1	0.659	1.384	0.912	
2310.00	462000	Mid	Right	Tilt	NR Band n30	F	0263M	10	CP-OFDM	QPSK	1	1	16.5	15.02	0	0.04	1:1	0.673	1.406	0.946	
2310.00	462000	Mid	Left	Cheek	NR Band n30	F	0263M	10	DFT-S-OFDM	QPSK	1	26	16.5	15.10	0	0.08	1:1	0.300	1.380	0.414	
2310.00	462000	Mid	Left	Cheek	NR Band n30	F	0263M	10	DFT-S-OFDM	QPSK	25	14	16.5	15.19	0	-0.01	1:1	0.312	1.352	0.422	
2310.00	462000	Mid	Left	Tilt	NR Band n30	F	0263M	10	DFT-S-OFDM	QPSK	1	26	16.5	15.10	0	0.03	1:1	0.452	1.380	0.624	
2310.00	462000	Mid	Left	Tilt	NR Band n30	F	0263M	10	DFT-S-OFDM	QPSK	25	14	16.5	15.19	0	0.07	1:1	0.462	1.352	0.625	
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 11-24
NR Band n7 Head SAR

MEASUREMENT RESULTS																					
FREQUENCY		Side	Test Position	Mode	Antenna Config	Serial Number	Bandwidth [MHz]	Waveform	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPR [dB]	Power Drift [dB]	Duty Cycle	SAR [1g]	Scaling Factor	Reported SAR [1g]	Plot #	
MHz	Ch.																(W/kg)		(W/kg)		
2535.00	507000	Mid	Right	Cheek	NR Band n7	B	0289M	40	DFT-S-OFDM	QPSK	1	108	24.0	22.60	0	-0.04	1:1	0.060	1.380	0.083	
2535.00	507000	Mid	Right	Cheek	NR Band n7	B	0289M	40	DFT-S-OFDM	QPSK	108	54	24.0	22.74	0	0.03	1:1	0.064	1.337	0.086	
2535.00	507000	Mid	Right	Tilt	NR Band n7	B	0289M	40	DFT-S-OFDM	QPSK	1	108	24.0	22.60	0	0.07	1:1	0.055	1.380	0.076	
2535.00	507000	Mid	Right	Tilt	NR Band n7	B	0289M	40	DFT-S-OFDM	QPSK	108	54	24.0	22.74	0	-0.01	1:1	0.059	1.337	0.079	
2535.00	507000	Mid	Left	Cheek	NR Band n7	B	0229M	40	DFT-S-OFDM	QPSK	1	108	24.0	22.60	0	-0.06	1:1	0.255	1.380	0.352	
2535.00	507000	Mid	Left	Cheek	NR Band n7	B	0229M	40	DFT-S-OFDM	QPSK	108	54	24.0	22.74	0	-0.07	1:1	0.249	1.337	0.333	
2535.00	507000	Mid	Left	Cheek	NR Band n7	B	0229M	40	CP-OFDM	QPSK	1	1	22.5	20.83	1.5	-0.01	1:1	0.175	1.469	0.257	
2535.00	507000	Mid	Left	Tilt	NR Band n7	B	0289M	40	DFT-S-OFDM	QPSK	1	108	24.0	22.60	0	0.00	1:1	0.101	1.380	0.139	
2535.00	507000	Mid	Left	Tilt	NR Band n7	B	0289M	40	DFT-S-OFDM	QPSK	108	54	24.0	22.74	0	0.01	1:1	0.104	1.337	0.139	
2535.00	507000	Mid	Right	Cheek	NR Band n7	F	0237M	40	DFT-S-OFDM	QPSK	1	1	17.0	16.02	0	-0.04	1:1	0.472	1.253	0.591	
2535.00	507000	Mid	Right	Cheek	NR Band n7	F	0237M	40	DFT-S-OFDM	QPSK	108	0	17.0	16.10	0	0.02	1:1	0.467	1.230	0.574	
2535.00	507000	Mid	Right	Tilt	NR Band n7	F	0237M	40	DFT-S-OFDM	QPSK	1	1	17.0	16.02	0	-0.03	1:1	0.547	1.253	0.685	
2535.00	507000	Mid	Right	Tilt	NR Band n7	F	0237M	40	DFT-S-OFDM	QPSK	108	0	17.0	16.10	0	-0.06	1:1	0.548	1.230	0.674	
2535.00	507000	Mid	Right	Tilt	NR Band n7	F	0237M	40	CP-OFDM	QPSK	1	1	17.0	16.04	0	-0.02	1:1	0.576	1.247	0.718	A24
2535.00	507000	Mid	Left	Cheek	NR Band n7	F	0237M	40	DFT-S-OFDM	QPSK	1	1	17.0	16.02	0	0.05	1:1	0.305	1.253	0.382	
2535.00	507000	Mid	Left	Cheek	NR Band n7	F	0237M	40	DFT-S-OFDM	QPSK	108	0	17.0	16.10	0	0.00	1:1	0.306	1.230	0.376	
2535.00	507000	Mid	Left	Tilt	NR Band n7	F	0237M	40	DFT-S-OFDM	QPSK	1	1	17.0	16.02	0	0.05	1:1	0.390	1.253	0.489	
2535.00	507000	Mid	Left	Tilt	NR Band n7	F	0237M	40	DFT-S-OFDM	QPSK	108	0	17.0	16.10	0	-0.01	1:1	0.371	1.230	0.456	
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 11-25
NR Band n41 Head SAR

MEASUREMENT RESULTS																						
FREQUENCY		Side	Test Position	Mode	Antenna Config	Path	Serial Number	Bandwidth [MHz]	Waveform	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPR [dB]	Power Drift [dB]	Duty Cycle	SAR (2g) (W/kg)	Scaling Factor	Reported SAR (2g) (W/kg)	Plot #	
MHz	Ch.																					
2592.99	518598	Mid	Right	Cheek	NR Band n41	F	Path 1	0237M	100	DFT-S-OFDM	QPSK	1	137	17.5	17.02	0	0.05	1:1	0.540	1.117	0.603	
2592.99	518598	Mid	Right	Cheek	NR Band n41	F	Path 1	0237M	100	DFT-S-OFDM	QPSK	135	0	17.5	17.04	0	0.01	1:1	0.481	1.112	0.535	
2592.99	518598	Mid	Right	Cheek	NR Band n41	F	Path 1	0237M	100	DFT-S-OFDM	QPSK	270	0	17.5	16.96	0	0.00	1:1	0.541	1.132	0.612	
2592.99	518598	Mid	Right	Tilt	NR Band n41	F	Path 1	0237M	100	DFT-S-OFDM	QPSK	1	137	17.5	17.02	0	0.01	1:1	0.731	1.117	0.817	
2592.99	518598	Mid	Right	Tilt	NR Band n41	F	Path 1	0237M	100	DFT-S-OFDM	QPSK	135	0	17.5	17.04	0	-0.11	1:1	0.637	1.112	0.708	
2592.99	518598	Mid	Right	Tilt	NR Band n41	F	Path 1	0237M	100	DFT-S-OFDM	QPSK	270	0	17.5	16.96	0	-0.12	1:1	0.769	1.132	0.871	A25
2592.99	518598	Mid	Right	Tilt	NR Band n41	F	Path 1	0237M	100	CP-OFDM	QPSK	1	1	17.5	16.96	0	0.03	1:1	0.597	1.132	0.676	
2592.99	518598	Mid	Left	Cheek	NR Band n41	F	Path 1	0237M	100	DFT-S-OFDM	QPSK	1	137	17.5	17.02	0	-0.04	1:1	0.262	1.117	0.293	
2592.99	518598	Mid	Left	Cheek	NR Band n41	F	Path 1	0237M	100	DFT-S-OFDM	QPSK	135	0	17.5	17.04	0	-0.02	1:1	0.238	1.112	0.265	
2592.99	518598	Mid	Left	Tilt	NR Band n41	F	Path 1	0237M	100	DFT-S-OFDM	QPSK	1	137	17.5	17.02	0	-0.06	1:1	0.410	1.117	0.458	
2592.99	518598	Mid	Left	Tilt	NR Band n41	F	Path 1	0237M	100	DFT-S-OFDM	QPSK	135	0	17.5	17.04	0	-0.02	1:1	0.391	1.112	0.435	
2592.99	518598	Mid	Right	Tilt	NR Band n41	F	Path 2	0360M	100	CW/SRS	N/A	N/A	N/A	17.0	15.96	N/A	0.15	1:1	0.339	1.271	0.431	
2592.99	518598	Mid	Right	Cheek	NR Band n41	B	Path 2	0360M	100	DFT-S-OFDM	QPSK	1	1	22.0	21.44	0	0.11	1:1	0.037	1.138	0.042	
2592.99	518598	Mid	Right	Cheek	NR Band n41	B	Path 2	0360M	100	DFT-S-OFDM	QPSK	135	0	22.0	21.41	0	-0.07	1:1	0.032	1.146	0.037	
2592.99	518598	Mid	Right	Tilt	NR Band n41	B	Path 2	0360M	100	DFT-S-OFDM	QPSK	1	1	22.0	21.44	0	0.01	1:1	0.047	1.138	0.053	
2592.99	518598	Mid	Right	Tilt	NR Band n41	B	Path 2	0360M	100	DFT-S-OFDM	QPSK	135	0	22.0	21.41	0	0.16	1:1	0.044	1.146	0.050	
2592.99	518598	Mid	Left	Cheek	NR Band n41	B	Path 2	0360M	100	DFT-S-OFDM	QPSK	1	1	22.0	21.44	0	0.14	1:1	0.117	1.138	0.133	
2592.99	518598	Mid	Left	Cheek	NR Band n41	B	Path 2	0360M	100	DFT-S-OFDM	QPSK	135	0	22.0	21.41	0	0.13	1:1	0.129	1.146	0.148	
2592.99	518598	Mid	Left	Cheek	NR Band n41	B	Path 2	0360M	100	CP-OFDM	QPSK	1	1	22.0	21.32	0	0.20	1:1	0.120	1.169	0.140	
2592.99	518598	Mid	Left	Tilt	NR Band n41	B	Path 2	0360M	100	DFT-S-OFDM	QPSK	1	1	22.0	21.44	0	0.14	1:1	0.072	1.138	0.082	
2592.99	518598	Mid	Left	Tilt	NR Band n41	B	Path 2	0360M	100	DFT-S-OFDM	QPSK	135	0	22.0	21.41	0	0.16	1:1	0.080	1.146	0.092	
2592.99	518598	Mid	Left	Cheek	NR Band n41	B	Path 1	0360M	100	CW/SRS	N/A	N/A	N/A	16.5	15.62	N/A	0.11	1:1	0.065	1.225	0.080	
2592.99	518598	Mid	Right	Cheek	NR Band n41	E	Path 1	0360M	100	CW/SRS	N/A	N/A	N/A	18.0	16.97	N/A	0.13	1:1	0.229	1.268	0.290	
2592.99	518598	Mid	Right	Tilt	NR Band n41	E	Path 1	0360M	100	CW/SRS	N/A	N/A	N/A	18.0	16.97	N/A	0.15	1:1	0.211	1.268	0.288	
2592.99	518598	Mid	Left	Cheek	NR Band n41	E	Path 1	0360M	100	CW/SRS	N/A	N/A	N/A	18.0	16.97	N/A	0.09	1:1	0.485	1.268	0.615	
2592.99	518598	Mid	Left	Tilt	NR Band n41	E	Path 1	0360M	100	CW/SRS	N/A	N/A	N/A	18.0	16.97	N/A	0.03	1:1	0.427	1.268	0.541	
2592.99	518598	Mid	Left	Cheek	NR Band n41	E	Path 2	0360M	100	CW/SRS	N/A	N/A	N/A	16.5	15.25	N/A	0.14	1:1	0.340	1.334	0.454	
2592.99	518598	Mid	Right	Cheek	NR Band n41	D	Path 2	0360M	100	CW/SRS	N/A	N/A	N/A	18.0	17.10	N/A	0.19	1:1	0.000	1.230	0.000	
2592.99	518598	Mid	Right	Tilt	NR Band n41	D	Path 2	0360M	100	CW/SRS	N/A	N/A	N/A	18.0	17.10	N/A	0.19	1:1	0.000	1.230	0.000	
2592.99	518598	Mid	Left	Cheek	NR Band n41	D	Path 2	0360M	100	CW/SRS	N/A	N/A	N/A	18.0	17.10	N/A	0.19	1:1	0.000	1.230	0.000	
2592.99	518598	Mid	Left	Tilt	NR Band n41	D	Path 2	0360M	100	CW/SRS	N/A	N/A	N/A	18.0	17.10	N/A	0.19	1:1	0.000	1.230	0.000	
2592.99	518598	Mid	Right	Cheek	NR Band n41	D	Path 1	0360M	100	CW/SRS	N/A	N/A	N/A	13.5	12.94	N/A	0.00	1:1	0.000	1.138	0.000	
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: Light purple entries indicate the additional check on the worst case exposure scenario for the n41 pathway that is not fully evaluated.

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Table 11-26
NR Band n48 Head SAR

MEASUREMENT RESULTS																					
FREQUENCY		Side	Test Position	Mode	Antenna Config	Serial Number	Bandwidth [MHz]	Waveform	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPR [dB]	Power Drift [dB]	Duty Cycle	SAR [1g]	Scaling Factor	Reported SAR [1g]	Plot #	
MHz	Ch.																(W/kg)		(W/kg)		
3570.00	638000	Low	Right	Cheek	NR Band n48	F	0125M	40	DFT-S-OFDM	QPSK	1	104	16.0	15.14	0	0.04	1:1	0.582	1.219	0.709	A26
3624.99	641666	Mid	Right	Cheek	NR Band n48	F	0125M	40	DFT-S-OFDM	QPSK	1	1	16.0	15.19	0	0.06	1:1	0.524	1.205	0.631	
3679.98	645332	High	Right	Cheek	NR Band n48	F	0125M	40	DFT-S-OFDM	QPSK	1	1	16.0	15.03	0	-0.01	1:1	0.434	1.250	0.543	
3570.00	638000	Low	Right	Cheek	NR Band n48	F	0125M	40	DFT-S-OFDM	QPSK	50	28	16.0	15.10	0	0.03	1:1	0.566	1.230	0.696	
3624.99	641666	Mid	Right	Cheek	NR Band n48	F	0125M	40	DFT-S-OFDM	QPSK	50	0	16.0	15.18	0	-0.02	1:1	0.497	1.208	0.600	
3679.98	645332	High	Right	Cheek	NR Band n48	F	0125M	40	DFT-S-OFDM	QPSK	50	0	16.0	14.88	0	0.01	1:1	0.431	1.294	0.558	
3624.99	641666	Mid	Right	Cheek	NR Band n48	F	0125M	40	DFT-S-OFDM	QPSK	100	0	16.0	15.04	0	-0.01	1:1	0.489	1.247	0.610	
3624.99	641666	Mid	Right	Cheek	NR Band n48	F	0125M	40	CP-OFDM	QPSK	1	1	16.0	15.34	0	0.00	1:1	0.514	1.164	0.598	
3624.99	641666	Mid	Right	Tilt	NR Band n48	F	0125M	40	DFT-S-OFDM	QPSK	1	1	16.0	15.19	0	-0.01	1:1	0.472	1.205	0.569	
3624.99	641666	Mid	Right	Tilt	NR Band n48	F	0125M	40	DFT-S-OFDM	QPSK	50	0	16.0	15.18	0	-0.01	1:1	0.462	1.208	0.558	
3624.99	641666	Mid	Left	Cheek	NR Band n48	F	0125M	40	DFT-S-OFDM	QPSK	1	1	16.0	15.19	0	0.02	1:1	0.140	1.205	0.169	
3624.99	641666	Mid	Left	Cheek	NR Band n48	F	0125M	40	DFT-S-OFDM	QPSK	50	0	16.0	15.18	0	0.08	1:1	0.137	1.208	0.165	
3624.99	641666	Mid	Left	Tilt	NR Band n48	F	0125M	40	DFT-S-OFDM	QPSK	1	1	16.0	15.19	0	0.07	1:1	0.272	1.205	0.328	
3624.99	641666	Mid	Left	Tilt	NR Band n48	F	0125M	40	DFT-S-OFDM	QPSK	50	0	16.0	15.18	0	0.05	1:1	0.267	1.208	0.323	
3570.00	638000	Low	Right	Cheek	NR Band n48	C	0275M	40	CW/SRS	N/A	N/A	N/A	16.5	15.67	N/A	0.20	1:1	0.000	1.211	0.000	
3570.00	638000	Low	Right	Tilt	NR Band n48	C	0275M	40	CW/SRS	N/A	N/A	N/A	16.5	15.67	N/A	0.12	1:1	0.000	1.211	0.000	
3570.00	638000	Low	Left	Cheek	NR Band n48	C	0275M	40	CW/SRS	N/A	N/A	N/A	16.5	15.67	N/A	0.08	1:1	0.013	1.211	0.016	
3570.00	638000	Low	Left	Tilt	NR Band n48	C	0275M	40	CW/SRS	N/A	N/A	N/A	16.5	15.67	N/A	0.05	1:1	0.000	1.211	0.000	
3570.00	638000	Low	Right	Cheek	NR Band n48	I	0275M	40	CW/SRS	N/A	N/A	N/A	11.5	11.45	N/A	0.00	1:1	0.429	1.012	0.434	
3624.99	641666	Mid	Right	Cheek	NR Band n48	I	0275M	40	CW/SRS	N/A	N/A	N/A	11.5	11.38	N/A	0.00	1:1	0.525	1.028	0.540	
3679.98	645332	High	Right	Cheek	NR Band n48	I	0275M	40	CW/SRS	N/A	N/A	N/A	11.5	11.00	N/A	-0.01	1:1	0.506	1.122	0.568	
3570.00	638000	Low	Right	Tilt	NR Band n48	I	0275M	40	CW/SRS	N/A	N/A	N/A	11.5	11.45	N/A	0.02	1:1	0.085	1.012	0.086	
3570.00	638000	Low	Left	Cheek	NR Band n48	I	0275M	40	CW/SRS	N/A	N/A	N/A	11.5	11.45	N/A	-0.04	1:1	0.311	1.012	0.315	
3570.00	638000	Low	Left	Tilt	NR Band n48	I	0275M	40	CW/SRS	N/A	N/A	N/A	11.5	11.45	N/A	-0.10	1:1	0.049	1.012	0.050	
3570.00	638000	Low	Right	Cheek	NR Band n48	D	0275M	40	CW/SRS	N/A	N/A	N/A	14.5	13.92	N/A	0.09	1:1	0.000	1.143	0.000	
3570.00	638000	Low	Right	Tilt	NR Band n48	D	0275M	40	CW/SRS	N/A	N/A	N/A	14.5	13.92	N/A	0.07	1:1	0.000	1.143	0.000	
3570.00	638000	Low	Left	Cheek	NR Band n48	D	0275M	40	CW/SRS	N/A	N/A	N/A	14.5	13.92	N/A	-0.20	1:1	0.000	1.143	0.000	
3570.00	638000	Low	Left	Tilt	NR Band n48	D	0275M	40	CW/SRS	N/A	N/A	N/A	14.5	13.92	N/A	0.20	1:1	0.000	1.143	0.000	
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 11-27
NR Band n77 Head SAR

MEASUREMENT RESULTS																					
FREQUENCY		Side	Test Position	Mode	Antenna Config	Serial Number	Bandwidth [MHz]	Waveform	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPR [dB]	Power Drift [dB]	Duty Cycle	SAR [lg]	Scaling Factor	Reported SAR [lg]	Plot #	
MHz	Ch.																(W/kg)		(W/kg)		
3500.01	633334	Mid	Right	Tilt	NR Band n77 DoD	F	0275M	100	CP-OFDM	QPSK	1	1	16.0	14.92	0	0.01	1:1	0.381	1.282	0.488	
3500.01	633334	Mid	Left	Cheek	NR Band n77 DoD	C	0275M	100	CW/SRS	N/A	N/A	N/A	14.0	13.88	N/A	0.09	1:1	0.007	1.028	0.007	
3500.01	633334	Mid	Right	Cheek	NR Band n77 DoD	I	0275M	100	CW/SRS	N/A	N/A	N/A	14.5	13.81	N/A	-0.07	1:1	0.396	1.172	0.464	A27
3500.01	633334	Mid	Right	Tilt	NR Band n77 DoD	D	0275M	100	CW/SRS	N/A	N/A	N/A	12.5	12.41	N/A	0.02	1:1	0.000	1.021	0.000	
3930.00	662000	High	Right	Cheek	NR Band n77	F	0275M	100	DFT-S-OFDM	QPSK	1	137	16.0	15.00	0	0.01	1:1	0.263	1.259	0.331	
3930.00	662000	High	Right	Cheek	NR Band n77	F	0275M	100	DFT-S-OFDM	QPSK	135	69	16.0	15.05	0	0.07	1:1	0.261	1.245	0.325	
3750.00	650000	Low	Right	Tilt	NR Band n77	F	0275M	100	DFT-S-OFDM	QPSK	1	1	16.0	14.92	0	0.10	1:1	0.430	1.282	0.551	A28
3930.00	662000	High	Right	Tilt	NR Band n77	F	0275M	100	DFT-S-OFDM	QPSK	1	137	16.0	15.00	0	0.01	1:1	0.321	1.259	0.404	
3930.00	662000	High	Right	Tilt	NR Band n77	F	0275M	100	DFT-S-OFDM	QPSK	135	69	16.0	15.05	0	-0.04	1:1	0.312	1.245	0.388	
3930.00	662000	High	Right	Tilt	NR Band n77	F	0275M	100	DFT-S-OFDM	QPSK	270	0	16.0	14.99	0	0.07	1:1	0.317	1.262	0.400	
3930.00	662000	High	Right	Tilt	NR Band n77	F	0275M	100	CP-OFDM	QPSK	1	1	16.0	15.03	0	-0.02	1:1	0.319	1.250	0.399	
3930.00	662000	High	Left	Cheek	NR Band n77	F	0275M	100	DFT-S-OFDM	QPSK	1	137	16.0	15.00	0	0.09	1:1	0.131	1.259	0.165	
3930.00	662000	High	Left	Cheek	NR Band n77	F	0275M	100	DFT-S-OFDM	QPSK	135	69	16.0	15.05	0	0.09	1:1	0.129	1.245	0.161	
3930.00	662000	High	Left	Tilt	NR Band n77	F	0275M	100	DFT-S-OFDM	QPSK	1	137	16.0	15.00	0	0.07	1:1	0.182	1.259	0.229	
3930.00	662000	High	Left	Tilt	NR Band n77	F	0275M	100	DFT-S-OFDM	QPSK	135	69	16.0	15.05	0	0.12	1:1	0.181	1.245	0.225	
3750.00	650000	Low	Right	Cheek	NR Band n77	C	0275M	100	CW/SRS	N/A	N/A	N/A	14.0	13.35	N/A	0.06	1:1	0.000	1.161	0.000	
3750.00	650000	Low	Right	Tilt	NR Band n77	C	0275M	100	CW/SRS	N/A	N/A	N/A	14.0	13.35	N/A	0.08	1:1	0.000	1.161	0.000	
3750.00	650000	Low	Left	Cheek	NR Band n77	C	0275M	100	CW/SRS	N/A	N/A	N/A	14.0	13.35	N/A	0.07	1:1	0.002	1.161	0.002	
3750.00	650000	Low	Left	Tilt	NR Band n77	C	0275M	100	CW/SRS	N/A	N/A	N/A	14.0	13.35	N/A	0.02	1:1	0.000	1.161	0.000	
3930.00	662000	High	Right	Cheek	NR Band n77	I	0275M	100	CW/SRS	N/A	N/A	N/A	14.5	13.60	N/A	0.08	1:1	0.297	1.230	0.365	
3930.00	662000	High	Right	Tilt	NR Band n77	I	0275M	100	CW/SRS	N/A	N/A	N/A	14.5	13.60	N/A	0.00	1:1	0.010	1.230	0.012	
3930.00	662000	High	Left	Cheek	NR Band n77	I	0275M	100	CW/SRS	N/A	N/A	N/A	14.5	13.60	N/A	-0.08	1:1	0.179	1.230	0.220	
3930.00	662000	High	Left	Tilt	NR Band n77	I	0275M	100	CW/SRS	N/A	N/A	N/A	14.5	13.60	N/A	0.01	1:1	0.010	1.230	0.012	
3930.00	662000	High	Right	Cheek	NR Band n77	D	0275M	100	CW/SRS	N/A	N/A	N/A	12.5	11.63	N/A	0.02	1:1	0.000	1.222	0.000	
3930.00	662000	High	Right	Tilt	NR Band n77	D	0275M	100	CW/SRS	N/A	N/A	N/A	12.5	11.63	N/A	0.05	1:1	0.000	1.222	0.000	
3930.00	662000	High	Left	Cheek	NR Band n77	D	0275M	100	CW/SRS	N/A	N/A	N/A	12.5	11.63	N/A	0.20	1:1	0.000	1.222	0.000	
3930.00	662000	High	Left	Tilt	NR Band n77	D	0275M	100	CW/SRS	N/A	N/A	N/A	12.5	11.63	N/A	0.03	1:1	0.000	1.222	0.000	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population										Head 1.6 W/kg (mW/g) averaged over 1 gram											

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Table 11-28
DTS Head SISO SAR

MEASUREMENT RESULTS																			
FREQUENCY		Side	Test Position	Mode	Service	Antenna Config.	Device Serial Number	Bandwidth [MHz]	Data Rate (Mbps)	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Maximum Duty Cycle (%)	Duty Cycle (%)	SAR (1g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot #
MHz	Ch.														(W/kg)			(W/kg)	
2462	11	Right	Cheek	802.11b	DSSS	2	0275M	22	1	12.0	11.99	-0.14	100.00	98.89	0.260	1.002	1.011	0.263	
2462	11	Right	Tilt	802.11b	DSSS	2	0275M	22	1	12.0	11.99	0.04	100.00	98.89	0.042	1.002	1.011	0.043	
2462	11	Left	Cheek	802.11b	DSSS	2	0275M	22	1	12.0	11.99	-0.09	100.00	98.89	0.515	1.002	1.011	0.522	A29
2462	11	Left	Tilt	802.11b	DSSS	2	0275M	22	1	12.0	11.99	0.02	100.00	98.89	0.065	1.002	1.011	0.066	
2437	6	Right	Cheek	802.11b	DSSS	2	0234M	22	1	10.0	9.99	-0.01	100.00	98.89	0.167	1.002	1.011	0.169	
2437	6	Right	Tilt	802.11b	DSSS	2	0234M	22	1	10.0	9.99	-0.03	100.00	98.89	0.019	1.002	1.011	0.019	
2437	6	Left	Cheek	802.11b	DSSS	2	0234M	22	1	10.0	9.99	0.02	100.00	98.89	0.280	1.002	1.011	0.284	
2437	6	Left	Tilt	802.11b	DSSS	2	0234M	22	1	10.0	9.99	-0.03	100.00	98.89	0.041	1.002	1.011	0.042	
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 11-29
DTS Head MIMO SAR

MEASUREMENT RESULTS																					
FREQUENCY		Side	Test Position	Mode	Service	Antenna Config.	Device Serial Number	Bandwidth [MHz]	Data Rate [Mbps]	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]	Maximum Duty Cycle (%)	Duty Cycle (%)	SAR (1g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot #
MHz	Ch.																(W/kg)			(W/kg)	
2462	11	Right	Cheek	802.11n	OFDM	MIMO	0275M	20	13	12.0	11.61	12.0	11.60	-0.05	100.00	92.33	0.269	1.096	1.083	0.319	
2462	11	Right	Tilt	802.11n	OFDM	MIMO	0275M	20	13	12.0	11.61	12.0	11.60	-0.04	100.00	92.33	0.175	1.096	1.083	0.208	
2462	11	Left	Cheek	802.11n	OFDM	MIMO	0275M	20	13	12.0	11.61	12.0	11.60	-0.01	100.00	92.33	0.405	1.096	1.083	0.481	
2462	11	Left	Tilt	802.11n	OFDM	MIMO	0275M	20	13	12.0	11.61	12.0	11.60	-0.17	100.00	92.33	0.059	1.096	1.083	0.070	
2412	1	Right	Cheek	802.11n	OFDM	MIMO	0202M	20	13	10.0	9.69	10.0	9.99	0.06	100.00	92.33	0.234	1.074	1.083	0.272	
2412	1	Right	Tilt	802.11n	OFDM	MIMO	0202M	20	13	10.0	9.69	10.0	9.99	-0.03	100.00	92.33	0.081	1.074	1.083	0.094	
2412	1	Left	Cheek	802.11n	OFDM	MIMO	0202M	20	13	10.0	9.69	10.0	9.99	-0.04	100.00	92.33	0.295	1.074	1.083	0.343	
2412	1	Left	Tilt	802.11n	OFDM	MIMO	0202M	20	13	10.0	9.69	10.0	9.99	0.11	100.00	92.33	0.042	1.074	1.083	0.049	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population												Head 1.6 W/kg (mW/g) averaged over 1 gram									

Note: In max power, to achieve the 15.0 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 12.0 dBm. During simultaneous conditions with 5/6 GHz WLAN and/or 5G NR, to achieve the 13.0 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 10.0 dBm.

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Table 11-30
NII MIMO Head SAR

MEASUREMENT RESULTS																					
FREQUENCY		Side	Test Position	Mode	Service	Antenna Config.	Device Serial Number	Bandwidth [MHz]	Data Rate [Mbps]	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]	Maximum Duty Cycle (%)	Duty Cycle (%)	SAR (1g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot #
MHz	Ch.																[W/kg]			[W/kg]	
5290	58	Right	Cheek	802.11ac	OFDM	MIMO	0210M	80	58.5	14.0	13.36	14.0	13.96	-0.04	100.00	92.39	0.259	1.159	1.082	0.325	
5290	58	Right	Tilt	802.11ac	OFDM	MIMO	0210M	80	58.5	14.0	13.36	14.0	13.96	-0.02	100.00	92.39	0.234	1.159	1.082	0.293	
5290	58	Left	Cheek	802.11ac	OFDM	MIMO	0210M	80	58.5	14.0	13.36	14.0	13.96	0.01	100.00	92.39	0.265	1.159	1.082	0.332	
5290	58	Left	Tilt	802.11ac	OFDM	MIMO	0210M	80	58.5	14.0	13.36	14.0	13.96	0.02	100.00	92.39	0.250	1.159	1.082	0.314	
5690	138	Right	Cheek	802.11ac	OFDM	MIMO	0210M	80	58.5	14.0	13.62	14.0	13.78	-0.05	100.00	92.39	0.274	1.091	1.082	0.323	
5690	138	Right	Tilt	802.11ac	OFDM	MIMO	0210M	80	58.5	14.0	13.62	14.0	13.78	-0.16	100.00	92.39	0.195	1.091	1.082	0.230	
5690	138	Left	Cheek	802.11ac	OFDM	MIMO	0210M	80	58.5	14.0	13.62	14.0	13.78	0.17	100.00	92.39	0.186	1.091	1.082	0.220	
5690	138	Left	Tilt	802.11ac	OFDM	MIMO	0210M	80	58.5	14.0	13.62	14.0	13.78	0.09	100.00	92.39	0.156	1.091	1.082	0.184	
5775	155	Right	Cheek	802.11ac	OFDM	MIMO	0210M	80	58.5	14.0	13.50	14.0	13.74	-0.12	100.00	92.39	0.251	1.122	1.082	0.305	
5775	155	Right	Tilt	802.11ac	OFDM	MIMO	0210M	80	58.5	14.0	13.50	14.0	13.74	0.01	100.00	92.39	0.191	1.122	1.082	0.232	
5775	155	Left	Cheek	802.11ac	OFDM	MIMO	0210M	80	58.5	14.0	13.50	14.0	13.74	0.20	100.00	92.39	0.155	1.122	1.082	0.188	
5775	155	Left	Tilt	802.11ac	OFDM	MIMO	0210M	80	58.5	14.0	13.50	14.0	13.74	0.15	100.00	92.39	0.115	1.122	1.082	0.140	
5855	171	Right	Cheek	802.11ac	OFDM	MIMO	0210M	80	58.5	14.0	13.77	14.0	13.26	0.04	100.00	92.39	0.344	1.186	1.082	0.441	A30
5855	171	Right	Tilt	802.11ac	OFDM	MIMO	0210M	80	58.5	14.0	13.77	14.0	13.26	0.04	100.00	92.39	0.166	1.186	1.082	0.213	
5855	171	Left	Cheek	802.11ac	OFDM	MIMO	0210M	80	58.5	14.0	13.77	14.0	13.26	0.05	100.00	92.39	0.159	1.186	1.082	0.204	
5855	171	Left	Tilt	802.11ac	OFDM	MIMO	0210M	80	58.5	14.0	13.77	14.0	13.26	0.03	100.00	92.39	0.106	1.186	1.082	0.136	
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 17.0 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 14.0 dBm.

Table 11-31
NII MIMO Head SAR during conditions with NR

MEASUREMENT RESULTS																					
FREQUENCY		Side	Test Position	Mode	Service	Antenna Config.	Device Serial Number	Bandwidth [MHz]	Data Rate [Mbps]	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]	Maximum Duty Cycle (%)	Duty Cycle (%)	SAR (1g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot #
MHz	Ch.																(W/kg)			(W/kg)	
5290	58	Right	Cheek	802.11ac	OFDM	MIMO	0202M	80	58.5	11.0	10.64	11.0	10.91	0.20	100.00	92.39	0.195	1.086	1.082	0.229	
5290	58	Right	Tilt	802.11ac	OFDM	MIMO	0202M	80	58.5	11.0	10.64	11.0	10.91	-0.11	100.00	92.39	0.162	1.086	1.082	0.190	
5290	58	Left	Cheek	802.11ac	OFDM	MIMO	0202M	80	58.5	11.0	10.64	11.0	10.91	0.03	100.00	92.39	0.178	1.086	1.082	0.209	
5290	58	Left	Tilt	802.11ac	OFDM	MIMO	0202M	80	58.5	11.0	10.64	11.0	10.91	0.04	100.00	92.39	0.146	1.086	1.082	0.172	
5690	138	Right	Cheek	802.11ac	OFDM	MIMO	0202M	80	58.5	11.0	10.73	11.0	10.93	0.02	100.00	92.39	0.229	1.064	1.082	0.264	
5690	138	Right	Tilt	802.11ac	OFDM	MIMO	0202M	80	58.5	11.0	10.73	11.0	10.93	-0.06	100.00	92.39	0.111	1.064	1.082	0.128	
5690	138	Left	Cheek	802.11ac	OFDM	MIMO	0202M	80	58.5	11.0	10.73	11.0	10.93	0.06	100.00	92.39	0.078	1.064	1.082	0.090	
5690	138	Left	Tilt	802.11ac	OFDM	MIMO	0202M	80	58.5	11.0	10.73	11.0	10.93	-0.01	100.00	92.39	0.069	1.064	1.082	0.079	
5775	155	Right	Cheek	802.11ac	OFDM	MIMO	0202M	80	58.5	11.0	10.55	11.0	10.92	-0.03	100.00	92.39	0.168	1.109	1.082	0.202	
5775	155	Right	Tilt	802.11ac	OFDM	MIMO	0202M	80	58.5	11.0	10.55	11.0	10.92	-0.17	100.00	92.39	0.099	1.109	1.082	0.119	
5775	155	Left	Cheek	802.11ac	OFDM	MIMO	0202M	80	58.5	11.0	10.55	11.0	10.92	0.03	100.00	92.39	0.081	1.109	1.082	0.097	
5775	155	Left	Tilt	802.11ac	OFDM	MIMO	0202M	80	58.5	11.0	10.55	11.0	10.92	0.06	100.00	92.39	0.066	1.109	1.082	0.079	
5855	171	Right	Cheek	802.11ac	OFDM	MIMO	0232M	80	58.5	11.0	10.86	11.0	10.68	-0.12	100.00	92.39	0.178	1.076	1.082	0.207	
5855	171	Right	Tilt	802.11ac	OFDM	MIMO	0232M	80	58.5	11.0	10.86	11.0	10.68	0.01	100.00	92.39	0.104	1.076	1.082	0.121	
5855	171	Left	Cheek	802.11ac	OFDM	MIMO	0232M	80	58.5	11.0	10.86	11.0	10.68	0.00	100.00	92.39	0.089	1.076	1.082	0.104	
5855	171	Left	Tilt	802.11ac	OFDM	MIMO	0232M	80	58.5	11.0	10.86	11.0	10.68	0.07	100.00	92.39	0.071	1.076	1.082	0.083	
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 11-32
NII MIMO Head SAR during conditions with 2.4 GHz WLAN

MEASUREMENT RESULTS																					
FREQUENCY		Side	Test Position	Mode	Service	Antenna Config.	Device Serial Number	Bandwidth [MHz]	Data Rate [Mbps]	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]	Maximum Duty Cycle (%)	Duty Cycle (%)	SAR (1g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot #
MHz	Ch.																[W/kg]			[W/kg]	
5290	58	Right	Cheek	802.11ac	OFDM	MIMO	0237M	80	58.5	9.0	8.40	9.0	8.79	-0.02	100.00	92.39	0.102	1.148	1.082	0.127	
5290	58	Right	Tilt	802.11ac	OFDM	MIMO	0237M	80	58.5	9.0	8.40	9.0	8.79	0.02	100.00	92.39	0.054	1.148	1.082	0.067	
5290	58	Left	Cheek	802.11ac	OFDM	MIMO	0237M	80	58.5	9.0	8.40	9.0	8.79	0.07	100.00	92.39	0.056	1.148	1.082	0.070	
5290	58	Left	Tilt	802.11ac	OFDM	MIMO	0237M	80	58.5	9.0	8.40	9.0	8.79	0.02	100.00	92.39	0.034	1.148	1.082	0.042	
5530	106	Right	Cheek	802.11ac	OFDM	MIMO	0237M	80	58.5	9.0	8.66	9.0	8.94	0.10	100.00	92.39	0.156	1.081	1.082	0.182	
5530	106	Right	Tilt	802.11ac	OFDM	MIMO	0237M	80	58.5	9.0	8.66	9.0	8.94	-0.11	100.00	92.39	0.064	1.081	1.082	0.075	
5530	106	Left	Cheek	802.11ac	OFDM	MIMO	0275M	80	58.5	9.0	8.66	9.0	8.94	0.06	100.00	92.39	0.062	1.081	1.082	0.073	
5530	106	Left	Tilt	802.11ac	OFDM	MIMO	0275M	80	58.5	9.0	8.66	9.0	8.94	0.06	100.00	92.39	0.041	1.081	1.082	0.048	
5775	155	Right	Cheek	802.11ac	OFDM	MIMO	0237M	80	58.5	9.0	8.49	9.0	8.66	0.02	100.00	92.39	0.119	1.125	1.082	0.145	
5775	155	Right	Tilt	802.11ac	OFDM	MIMO	0237M	80	58.5	9.0	8.49	9.0	8.66	0.02	100.00	92.39	0.049	1.125	1.082	0.060	
5775	155	Left	Cheek	802.11ac	OFDM	MIMO	0275M	80	58.5	9.0	8.49	9.0	8.66	0.01	100.00	92.39	0.039	1.125	1.082	0.047	
5775	155	Left	Tilt	802.11ac	OFDM	MIMO	0275M	80	58.5	9.0	8.49	9.0	8.66	0.02	100.00	92.39	0.032	1.125	1.082	0.039	
5855	171	Right	Cheek	802.11ac	OFDM	MIMO	0237M	80	58.5	9.0	8.53	9.0	8.63	-0.05	100.00	92.39	0.123	1.114	1.082	0.148	
5855	171	Right	Tilt	802.11ac	OFDM	MIMO	0237M	80	58.5	9.0	8.53	9.0	8.63	0.06	100.00	92.39	0.050	1.114	1.082	0.060	
5855	171	Left	Cheek	802.11ac	OFDM	MIMO	0275M	80	58.5	9.0	8.53	9.0	8.63	0.06	100.00	92.39	0.038	1.114	1.082	0.046	
5855	171	Left	Tilt	802.11ac	OFDM	MIMO	0275M	80	58.5	9.0	8.53	9.0	8.63	0.07	100.00	92.39	0.027	1.114	1.082	0.033	
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 12.0 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 9.0 dBm.

Table 11-33
DSS Head SISO SAR

MEASUREMENT RESULTS																		
FREQUENCY		Side	Test Position	Mode	Service	Antenna Config.	Device Serial Number	Data Rate [Mbps]	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Maximum Duty Cycle (%)	Duty Cycle (%)	SAR (lg) (W/kg)	Scaling Factor (Cond Power)	Scaling Factor (Duty Cycle)	Reported SAR (lg) (W/kg)	Plot #
MHz	Ch.																	
2402	0	Right	Cheek	Bluetooth LE	DSSS	1	0234M	1	11.0	10.98	0.20	87.00	85.40	0.077	1.005	1.019	0.079	
2402	0	Right	Tilt	Bluetooth LE	DSSS	1	0234M	1	11.0	10.98	0.05	87.00	85.40	0.026	1.005	1.019	0.027	
2402	0	Left	Cheek	Bluetooth LE	DSSS	1	0234M	1	11.0	10.98	-0.12	87.00	85.40	0.019	1.005	1.019	0.019	
2402	0	Left	Tilt	Bluetooth LE	DSSS	1	0234M	1	11.0	10.98	0.11	87.00	85.40	0.011	1.005	1.019	0.011	
2402	0	Right	Cheek	Bluetooth LE	DSSS	2	0234M	1	11.5	10.22	-0.13	87.00	85.80	0.030	1.343	1.014	0.041	
2402	0	Right	Tilt	Bluetooth LE	DSSS	2	0234M	1	11.5	10.22	0.04	87.00	85.80	0.002	1.343	1.014	0.003	
2402	0	Left	Cheek	Bluetooth LE	DSSS	2	0234M	1	11.5	10.22	0.00	87.00	85.80	0.094	1.343	1.014	0.128	A31
2402	0	Left	Tilt	Bluetooth LE	DSSS	2	0234M	1	11.5	10.22	0.03	87.00	85.80	0.005	1.343	1.014	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							

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11.2 Standalone Body-Worn SAR Data

Table 11-34
GSM Body-Worn SAR Data

MEASUREMENT RESULTS															
FREQUENCY		Side	Spacing	Mode	Service	Antenna Config.	Device Serial Number	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.											(W/kg)		(W/kg)	
836.60	190	back	15 mm	GSM 850	GSM	A	0251M	33.0	31.98	-0.08	1:8.3	0.205	1.265	0.259	A32
1850.20	512	back	15 mm	GSM 1900	GSM	A	0245M	30.0	29.17	-0.02	1:8.3	0.056	1.211	0.068	A33
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 11-35
UMTS Body-Worn SAR Data

MEASUREMENT RESULTS																
FREQUENCY		Side	Spacing	Mode	Service	Antenna Config.	Tune State	Device Serial Number	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.												(W/kg)		(W/kg)	
836.60	4183	back	15 mm	UMTS 850	RMC	A	136	0230M	25.0	24.22	-0.12	1:1	0.268	1.197	0.321	A34
1712.40	1312	back	15 mm	UMTS 1750	RMC	A	16	0244M	24.0	23.30	-0.02	1:1	0.551	1.175	0.647	
1732.40	1412	back	15 mm	UMTS 1750	RMC	A	17	0244M	24.0	23.31	0.03	1:1	0.581	1.172	0.681	
1752.60	1513	back	15 mm	UMTS 1750	RMC	A	32	0244M	24.0	23.28	0.01	1:1	0.689	1.180	0.813	A35
1852.40	9262	back	15 mm	UMTS 1900	RMC	A	33	0227M	24.0	23.27	-0.04	1:1	0.673	1.183	0.796	A36
1880.00	9400	back	15 mm	UMTS 1900	RMC	A	140	0227M	24.0	23.11	0.01	1:1	0.568	1.227	0.697	
1907.60	9538	back	15 mm	UMTS 1900	RMC	A	140	0227M	24.0	23.12	0.00	1:1	0.505	1.225	0.619	
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 11-36
LTE Body-Worn SAR

MEASUREMENT RESULTS																						
# CC Uplink, Power Class	Component Carrier	FREQUENCY		Side	Spacing	Mode	Antenna Config.	Device Serial Number	Bandwidth (MHz)	Modulation	RB Size	RB Offset	Maximum Allowed Power (dBm)	Conducted Power (dBm)	MPR (dB)	Power Delt (dB)	Duty Cycle	SAR (W/kg)	Scaling Factor	Reported SAR (W/kg)	Pilot #	
		MHz	Ch.																			
1 CC Uplink	N/A	680.50	132297	Mid	back	15 mm	LTE Band 71	A	0251M	20	QPSK	1	0	25.5	24.54	0	0.02	1:1	0.293	1.247	0.365	A37
1 CC Uplink	N/A	680.50	132297	Mid	back	15 mm	LTE Band 71	A	0251M	20	QPSK	50	25	24.5	23.59	1	0.03	1:1	0.245	1.223	0.302	
1 CC Uplink	N/A	707.50	23095	Mid	back	15 mm	LTE Band 12	A	0251M	10	QPSK	1	25	25.5	24.68	0	0.13	1:1	0.317	1.208	0.383	A38
1 CC Uplink	N/A	707.50	23095	Mid	back	15 mm	LTE Band 12	A	0251M	10	QPSK	25	25	24.5	23.73	1	0.00	1:1	0.251	1.194	0.300	
1 CC Uplink	N/A	782.00	23230	Mid	back	15 mm	LTE Band 13	A	0251M	10	QPSK	1	0	25.5	24.43	0	-0.03	1:1	0.292	1.279	0.373	A39
1 CC Uplink	N/A	782.00	23230	Mid	back	15 mm	LTE Band 13	A	0251M	10	QPSK	25	0	24.5	23.45	1	-0.01	1:1	0.219	1.274	0.279	
1 CC Uplink	N/A	793.00	23330	Mid	back	15 mm	LTE Band 14	A	0251M	10	QPSK	1	25	25.5	24.46	0	-0.05	1:1	0.296	1.274	0.376	A40
1 CC Uplink	N/A	793.00	23330	Mid	back	15 mm	LTE Band 14	A	0251M	10	QPSK	25	12	24.5	23.32	1	-0.06	1:1	0.227	1.312	0.298	
1 CC Uplink	N/A	831.50	26865	Mid	back	15 mm	LTE Band 26 (Cell)	A	0230M	15	QPSK	1	36	25.5	24.40	0	-0.12	1:1	0.250	1.288	0.322	A41
1 CC Uplink	N/A	831.50	26865	Mid	back	15 mm	LTE Band 26 (Cell)	A	0230M	15	QPSK	36	37	24.5	23.33	1	0.00	1:1	0.171	1.309	0.224	
1 CC Uplink	N/A	836.50	20525	Mid	back	15 mm	LTE Band 5 (Cell)	A	0240M	10	QPSK	1	0	25.5	24.57	0	-0.03	1:1	0.225	1.239	0.279	
1 CC Uplink	N/A	836.50	20525	Mid	back	15 mm	LTE Band 5 (Cell)	A	0240M	10	QPSK	25	25	24.5	23.43	1	-0.03	1:1	0.176	1.279	0.225	
2 CC Uplink	PCC	836.50	20525	Mid	back	15 mm	LTE Band 5 (Cell)	A	0240M	10	QPSK	1	0	25.5	24.61	0	0.01	1:1	0.240	1.227	0.294	A42
SCC	829.30	20453	1									24										
1 CC Uplink	N/A	1720.00	132072	Low	back	15 mm	LTE Band 66 (AWS)	A	0275M	20	QPSK	1	99	24.5	23.49	0	-0.05	1:1	0.646	1.262	0.815	
1 CC Uplink	N/A	1745.00	132322	Mid	back	15 mm	LTE Band 66 (AWS)	A	0275M	20	QPSK	1	0	24.5	23.20	0	-0.03	1:1	0.632	1.349	0.853	
1 CC Uplink	N/A	1770.00	132572	High	back	15 mm	LTE Band 66 (AWS)	A	0275M	20	QPSK	1	0	24.5	23.10	0	0.01	1:1	0.638	1.380	0.880	
1 CC Uplink	N/A	1720.00	132072	Low	back	15 mm	LTE Band 66 (AWS)	A	0275M	20	QPSK	50	50	23.5	22.36	1	0.02	1:1	0.536	1.300	0.671	
1 CC Uplink	N/A	1720.00	132072	Low	back	15 mm	LTE Band 66 (AWS)	A	0275M	20	QPSK	100	0	23.5	22.29	1	-0.01	1:1	0.509	1.321	0.672	
1 CC Uplink	N/A	1775.00	132622	High	back	15 mm	LTE Band 66 (AWS)	A	0275M	10	QPSK	1	0	24.5	23.17	0	-0.04	1:1	0.632	1.358	0.868	
1 CC Uplink	N/A	1775.00	132622	High	back	15 mm	LTE Band 66 (AWS)	A	0275M	10	QPSK	1	0	24.5	23.17	0	-0.04	1:1	0.632	1.358	0.868	
2 CC Uplink CA 66C	PCC	1770.00	132572	High	back	15 mm	LTE Band 66 (AWS)	A	0275M	20	QPSK	1	0	24.5	23.36	0	-0.01	1:1	0.673	1.300	0.875	A43
SCC	1750.20	132374	99																			
2 CC Uplink CA 66B	PCC	1775.00	132622	High	back	15 mm	LTE Band 66 (AWS)	A	0275M	10	QPSK	1	0	24.5	23.20	0	0.02	1:1	0.633	1.349	0.854	
SCC	1765.10	132523	49																			
1 CC Uplink	N/A	1770.00	132572	High	back	15 mm	LTE Band 66 (AWS)	F	0190M	20	QPSK	1	0	21.5	21.48	0	-0.02	1:1	0.251	1.005	0.252	
1 CC Uplink	N/A	1770.00	132572	High	back	15 mm	LTE Band 66 (AWS)	F	0190M	20	QPSK	50	0	21.5	21.50	0	0.04	1:1	0.265	1.000	0.265	
1 CC Uplink	N/A	1775.00	132622	High	back	15 mm	LTE Band 66 (AWS)	F	0190M	10	QPSK	25	0	21.5	21.45	0	0.01	1:1	0.268	1.012	0.271	
2 CC Uplink CA 66C	PCC	1770.00	132572	High	back	15 mm	LTE Band 66 (AWS)	F	0190M	20	QPSK	50	0	21.5	21.10	0	-0.03	1:1	0.232	1.096	0.254	
SCC	1750.20	132374	50																			
2 CC Uplink CA 66B	PCC	1775.00	132622	High	back	15 mm	LTE Band 66 (AWS)	F	0190M	10	QPSK	25	0	21.5	21.23	0	-0.02	1:1	0.266	1.064	0.283	
SCC	1765.10	132523	25																			
1 CC Uplink	N/A	1880.00	26140	Low	back	15 mm	LTE Band 25 (PCS)	A	0227M	20	QPSK	1	0	24.5	23.29	0	0.20	1:1	0.588	1.321	0.777	A44
1 CC Uplink	N/A	1882.50	26365	Mid	back	15 mm	LTE Band 25 (PCS)	A	0227M	20	QPSK	1	0	24.5	23.28	0	-0.01	1:1	0.508	1.324	0.670	
1 CC Uplink	N/A	1905.00	26580	High	back	15 mm	LTE Band 25 (PCS)	A	0227M	20	QPSK	1	50	24.5	22.94	0	-0.14	1:1	0.483	1.432	0.882	
1 CC Uplink	N/A	1880.00	26140	Low	back	15 mm	LTE Band 25 (PCS)	A	0227M	20	QPSK	50	25	23.5	22.34	1	-0.02	1:1	0.460	1.306	0.601	
1 CC Uplink	N/A	1880.00	26140	Low	back	15 mm	LTE Band 25 (PCS)	F	0195M	20	QPSK	1	0	22.5	21.71	0	-0.07	1:1	0.206	1.199	0.247	
1 CC Uplink	N/A	1880.00	26140	Low	back	15 mm	LTE Band 25 (PCS)	F	0195M	20	QPSK	50	25	22.5	21.60	0	0.06	1:1	0.200	1.230	0.246	
1 CC Uplink	N/A	2310.00	27710	Mid	back	15 mm	LTE Band 30	A	0244M	10	QPSK	1	25	23.1	22.58	0	-0.06	1:1	0.418	1.127	0.471	A45
1 CC Uplink	N/A	2310.00	27710	Mid	back	15 mm	LTE Band 30	A	0244M	10	QPSK	25	25	22.1	21.57	1	-0.02	1:1	0.329	1.130	0.371	
1 CC Uplink	N/A	2310.00	27710	Mid	back	15 mm	LTE Band 30	F	0168M	10	QPSK	1	0	20.5	19.66	0	0.02	1:1	0.178	1.213	0.216	
1 CC Uplink	N/A	2310.00	27710	Mid	back	15 mm	LTE Band 30	F	0168M	10	QPSK	25	0	20.5	19.63	0	-0.04	1:1	0.178	1.222	0.218	
1 CC Uplink	N/A	2560.00	21350	High	back	15 mm	LTE Band 7	B	0250M	20	QPSK	1	50	24.0	22.99	0	-0.07	1:1	0.395	1.262	0.498	A46
1 CC Uplink	N/A	2560.00	21350	High	back	15 mm	LTE Band 7	B	0250M	20	QPSK	50	50	23.0	21.96	1	-0.01	1:1	0.311	1.271	0.395	
1 CC Uplink	N/A	2510.00	20850	Low	back	15 mm	LTE Band 7	F	0168M	20	QPSK	1	0	21.0	19.91	0	-0.03	1:1	0.230	1.285	0.270	
1 CC Uplink	N/A	2510.00	20850	Low	back	15 mm	LTE Band 7	F	0168M	20	QPSK	50	0	21.0	19.94	0	-0.05	1:1	0.205	1.276	0.262	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	back	15 mm	LTE Band 41	B	0222M	20	QPSK	1	0	25.0	23.61	0	-0.02	1:1.58	0.243	1.315	0.320	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	back	15 mm	LTE Band 41	B	0222M	20	QPSK	1	50	25.0	23.68	0	-0.03	1:1.58	0.236	1.300	0.307	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	back	15 mm	LTE Band 41	B	0222M	20	QPSK	50	25	24.0	22.87	1	0.01	1:1.58	0.196	1.297	0.257	
1 CC Uplink - Power Class 2	N/A	2549.50	40185	Low-Mid	back	15 mm	LTE Band 41	B	0222M	20	QPSK	1	0	26.5	25.23	0	0.12	1:2.31	0.226	1.341	0.303	
1 CC Uplink - Power Class 2	N/A	2549.50	40185	Low-Mid	back	15 mm	LTE Band 41	B	0222M	20	QPSK	1	50	26.5	25.25	0	0.02	1:2.31	0.242	1.334	0.323	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	back	15 mm	LTE Band 41	F	0170M	20	QPSK	1	0	22.5	22.23	0	-0.03	1:1.58	0.180	1.064	0.192	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	back	15 mm	LTE Band 41	F	0170M	20	QPSK	50	0	22.5	22.19	0	-0.09	1:1.58	0.184	1.074	0.198	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	back	15 mm	LTE Band 41	F	0170M	20	QPSK	50	50	22.5	22.10	0	-0.18	1:1.58	0.146	1.096	0.160	
1 CC Uplink - Power Class 2	N/A	2506.00	39750	Low	back	15 mm	LTE Band 41	F	0170M	20	QPSK	50	0	24.1	23.64	0	-0.04	1:2.31	0.173	1.112	0.192	
1 CC Uplink - Power Class 2	N/A	2506.00	39750	Low	back	15 mm	LTE Band 41	F	0170M	20	QPSK	50	50	24.1	23.61	0	-0.12	1:2.31	0.154	1.119	0.172	
2 CC Uplink - Power Class 3	PCC	2506.00	39750	Low	back	15 mm	LTE Band 41	F	0170M	20	QPSK	50	0	22.5	21.93	0	-0.14	1:1.58	0.195	1.140	0.154	
SCC	2525.80	39948	50																			
2 CC Uplink - Power Class 2	PCC	2506.00	39750	Low	back	15 mm	LTE Band 41	F	0170M	20	QPSK	50	0	24.1	23.50	0	-0.01	1:2.31	0.144	1.148	0.165	
SCC	2525.80	39948	50																			
1 CC Uplink	N/A	3646.70	56207	Mid-High	back	15 mm	LTE Band 48	F	0175M	20	QPSK	1	99	22.0	20.95	0	0.00	1:1.58	0.233	1.274	0.297	
1 CC Uplink	N/A	3646.70	56207	Mid-High	back	15 mm	LTE Band 48	F	0175M	20	QPSK	50	25	22.0	20.98	0	0.00	1:1.58	0.235	1.265	0.297	A48
2 CC Uplink	PCC	3646.70	56207	Mid-High	back	15 mm	LTE Band 48	F	0175M	20	QPSK	1	99	22.0	20.93	0	-0.04	1:1.58	0.235	1.279	0.301	
SCC	3646.50	56405	0																			
ANSI / IEEE C83.1 1992 - SAFETY LIMIT																						
Body																		1.6 W/kg (mW/g)				
Spatial Peak Uncontrolled Exposure/General Population averaged over 1 g/m																						

Table 11-37
NR Body-Worn SAR

MEASUREMENT RESULTS																						
FREQUENCY		Side	Spacing	Mode	Antenna Config	Tune State	Serial Number	Bandwidth [MHz]	Waveform	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPR [dB]	Power Drift [dB]	Duty Cycle	SAR (lg)	Scaling Factor	Reported SAR (lg)	Plot #	
MHz	Ch.																	(W/kg)		(W/kg)		
680.50	136100	Mid	back	15 mm	NR Band n71	A	136	0282M	20	DFT-S-OFDM	QPSK	1	104	25.5	24.58	0	-0.11	1:1	0.367	1.236	0.454	A49
680.50	136100	Mid	back	15 mm	NR Band n71	A	136	0282M	20	DFT-S-OFDM	QPSK	50	28	25.5	24.58	0	0.02	1:1	0.339	1.236	0.419	
680.50	136100	Mid	back	15 mm	NR Band n71	A	16	0282M	20	CP-OFDM	QPSK	1	1	24.0	23.03	1.5	0.01	1:1	0.240	1.250	0.300	
707.50	141500	Mid	back	15 mm	NR Band n12	A	2	0282M	15	DFT-S-OFDM	QPSK	1	1	25.5	24.39	0	0.01	1:1	0.349	1.291	0.451	
707.50	141500	Mid	back	15 mm	NR Band n12	A	2	0282M	15	DFT-S-OFDM	QPSK	36	22	25.5	24.33	0	-0.05	1:1	0.360	1.309	0.471	A50
707.50	141500	Mid	back	15 mm	NR Band n12	A	6	0282M	15	CP-OFDM	QPSK	1	1	24.0	22.85	1.5	0.03	1:1	0.245	1.303	0.319	
831.50	166300	Mid	back	15 mm	NR Band n26	A	131	0228M	20	DFT-S-OFDM	QPSK	1	1	25.5	23.78	0	-0.01	1:1	0.277	1.486	0.412	A51
831.50	166300	Mid	back	15 mm	NR Band n26	A	131	0228M	20	DFT-S-OFDM	QPSK	50	28	25.5	23.83	0	-0.01	1:1	0.245	1.469	0.360	
831.50	166300	Mid	back	15 mm	NR Band n26	A	131	0228M	20	CP-OFDM	QPSK	1	1	24.0	22.36	1.5	0.04	1:1	0.224	1.459	0.327	
1745.00	349000	Mid	back	15 mm	NR Band n66	A	136	0237M	40	DFT-S-OFDM	QPSK	1	108	24.5	23.33	0	-0.03	1:1	0.525	1.309	0.687	
1745.00	349000	Mid	back	15 mm	NR Band n66	A	136	0237M	40	DFT-S-OFDM	QPSK	108	54	24.5	23.43	0	-0.06	1:1	0.535	1.279	0.684	A52
1745.00	349000	Mid	back	15 mm	NR Band n66	A	23	0237M	40	CP-OFDM	QPSK	1	1	23.0	21.89	1.5	0.05	1:1	0.421	1.291	0.544	
1745.00	349000	Mid	back	15 mm	NR Band n66	F	N/A	0169M	40	DFT-S-OFDM	QPSK	1	1	21.5	21.07	0	0.15	1:1	0.265	1.104	0.293	
1745.00	349000	Mid	back	15 mm	NR Band n66	F	N/A	0169M	40	DFT-S-OFDM	QPSK	108	54	21.5	21.07	0	0.12	1:1	0.270	1.104	0.298	
1745.00	349000	Mid	back	15 mm	NR Band n66	F	N/A	0169M	40	CP-OFDM	QPSK	1	1	21.5	21.04	0	0.04	1:1	0.287	1.112	0.319	
1882.50	376500	Mid	back	15 mm	NR Band n25	A	32	0233M	40	DFT-S-OFDM	QPSK	1	1	24.5	23.73	0	-0.10	1:1	0.589	1.194	0.703	
1882.50	376500	Mid	back	15 mm	NR Band n25	A	32	0233M	40	DFT-S-OFDM	QPSK	108	54	24.5	23.81	0	-0.19	1:1	0.592	1.172	0.694	A53
1882.50	376500	Mid	back	15 mm	NR Band n25	A	32	0233M	40	CP-OFDM	QPSK	1	1	23.0	21.89	1.5	-0.05	1:1	0.362	1.291	0.467	
1882.50	376500	Mid	back	15 mm	NR Band n25	F	N/A	0242M	40	DFT-S-OFDM	QPSK	1	1	22.5	22.01	0	0.01	1:1	0.073	1.119	0.082	
1882.50	376500	Mid	back	15 mm	NR Band n25	F	N/A	0242M	40	DFT-S-OFDM	QPSK	108	54	22.5	22.05	0	0.03	1:1	0.067	1.109	0.074	
1882.50	376500	Mid	back	15 mm	NR Band n25	F	N/A	0242M	40	CP-OFDM	QPSK	1	1	22.5	21.97	0	0.01	1:1	0.074	1.130	0.084	
2310.00	462000	Mid	back	15 mm	NR Band n30	A	N/A	0282M	10	DFT-S-OFDM	QPSK	1	26	23.5	22.62	0	-0.13	1:1	0.315	1.225	0.386	
2310.00	462000	Mid	back	15 mm	NR Band n30	A	N/A	0282M	10	DFT-S-OFDM	QPSK	25	14	23.5	22.58	0	-0.06	1:1	0.338	1.236	0.418	A54
2310.00	462000	Mid	back	15 mm	NR Band n30	A	N/A	0282M	10	CP-OFDM	QPSK	1	1	22.0	20.88	1.5	0.06	1:1	0.285	1.294	0.369	
2310.00	462000	Mid	back	15 mm	NR Band n30	F	N/A	0169M	10	DFT-S-OFDM	QPSK	1	26	20.5	19.43	0	-0.04	1:1	0.122	1.279	0.156	
2310.00	462000	Mid	back	15 mm	NR Band n30	F	N/A	0169M	10	DFT-S-OFDM	QPSK	25	14	20.5	19.51	0	0.02	1:1	0.124	1.256	0.156	
2310.00	462000	Mid	back	15 mm	NR Band n30	F	N/A	0169M	10	CP-OFDM	QPSK	1	1	20.5	19.29	0	-0.08	1:1	0.120	1.321	0.159	
2535.00	507000	Mid	back	15 mm	NR Band n7	B	N/A	0230M	40	DFT-S-OFDM	QPSK	1	108	24.0	22.60	0	0.08	1:1	0.315	1.380	0.435	
2535.00	507000	Mid	back	15 mm	NR Band n7	B	N/A	0230M	40	DFT-S-OFDM	QPSK	108	54	24.0	22.74	0	0.13	1:1	0.366	1.337	0.489	A55
2535.00	507000	Mid	back	15 mm	NR Band n7	B	N/A	0230M	40	CP-OFDM	QPSK	1	1	22.5	20.83	1.5	0.10	1:1	0.258	1.469	0.379	
2535.00	507000	Mid	back	15 mm	NR Band n7	F	N/A	0169M	40	DFT-S-OFDM	QPSK	1	1	21.0	20.15	0	0.17	1:1	0.140	1.216	0.170	
2535.00	507000	Mid	back	15 mm	NR Band n7	F	N/A	0169M	40	DFT-S-OFDM	QPSK	108	0	21.0	20.23	0	0.02	1:1	0.137	1.194	0.164	
2535.00	507000	Mid	back	15 mm	NR Band n7	F	N/A	0169M	40	CP-OFDM	QPSK	1	1	21.0	20.15	0	-0.05	1:1	0.148	1.216	0.180	
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 11-38
NR Band 41 Body-Worn SAR

MEASUREMENT RESULTS																						
FREQUENCY		Side	Spacing	Mode	Antenna Config	Path	Serial Number	Bandwidth [MHz]	Waveform	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPR [dB]	Power Drift [dB]	Duty Cycle	SAR [g] (W/kg)	Scaling Factor	Reported SAR [g] (W/kg)	Plot #	
MHz	Ch.																					
2592.99	518598	Mid	back	15 mm	NR Band n41	F	Path 1	0387M	100	DFT-S-OFDM	QPSK	1	137	20.5	19.56	0	-0.03	1:1	0.112	1.242	0.139	
2592.99	518598	Mid	back	15 mm	NR Band n41	F	Path 1	0387M	100	DFT-S-OFDM	QPSK	135	69	20.5	19.58	0	0.04	1:1	0.115	1.236	0.142	
2592.99	518598	Mid	back	15 mm	NR Band n41	F	Path 1	0387M	100	CP-OFDM	QPSK	1	1	20.5	19.44	0	0.03	1:1	0.120	1.276	0.153	
2592.99	518598	Mid	back	15 mm	NR Band n41	F	Path 2	0387M	100	CW/SRS	N/A	N/A	N/A	17.5	16.02	N/A	0.07	1:1	0.081	1.406	0.114	
2592.99	518598	Mid	back	15 mm	NR Band n41	B	Path 2	0387M	100	DFT-s-OFDM	QPSK	1	1	22.0	21.44	0	-0.08	1:1	0.203	1.138	0.231	
2592.99	518598	Mid	back	15 mm	NR Band n41	B	Path 2	0387M	100	DFT-s-OFDM	QPSK	135	0	22.0	21.41	0	0.04	1:1	0.214	1.146	0.245	A56
2592.99	518598	Mid	back	15 mm	NR Band n41	B	Path 2	0387M	100	CP-OFDM	QPSK	1	1	22.0	21.32	0	0.04	1:1	0.199	1.169	0.233	
2592.99	518598	Mid	back	15 mm	NR Band n41	B	Path 1	0387M	100	CW/SRS	N/A	N/A	N/A	16.5	15.62	N/A	0.07	1:1	0.090	1.225	0.110	
2592.99	518598	Mid	back	15 mm	NR Band n41	E	Path 1	0360M	100	CW/SRS	N/A	N/A	N/A	19.0	18.02	N/A	0.19	1:1	0.025	1.253	0.031	
2592.99	518598	Mid	back	15 mm	NR Band n41	E	Path 2	0387M	100	CW/SRS	N/A	N/A	N/A	16.5	15.25	N/A	0.16	1:1	0.016	1.334	0.021	
2592.99	518598	Mid	back	15 mm	NR Band n41	D	Path 2	0360M	100	CW/SRS	N/A	N/A	N/A	18.0	17.10	N/A	0.16	1:1	0.068	1.230	0.084	
2592.99	518598	Mid	back	15 mm	NR Band n41	D	Path 1	0387M	100	CW/SRS	N/A	N/A	N/A	13.5	12.94	N/A	0.15	1:1	0.021	1.138	0.024	
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: Light purple entries indicate the additional check on the worst case exposure scenario for the n41 pathway that is not fully evaluated.

FCC ID: A3LSMS911U	SAR EVALUATION REPORT										Approved by: Technical Manager									
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Table 11-39
NR Band 48 Body-Worn SAR

MEASUREMENT RESULTS																						
FREQUENCY		Side	Spacing	Mode	Antenna Config	Path	Serial Number	Bandwidth [MHz]	Waveform	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPR [dB]	Power Drift [dB]	Duty Cycle	SAR (1g) (W/kg)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.																			(W/kg)		
3624.99	641666	Mid	back	15 mm	NR Band n48	F	N/A	0176M	40	DFT-S-OFDM	QPSK	1	53	20.0	18.96	0	0.00	1:1	0.220	1.271	0.280	
3624.99	641666	Mid	back	15 mm	NR Band n48	F	N/A	0176M	40	DFT-S-OFDM	QPSK	50	0	20.0	18.86	0	-0.06	1:1	0.211	1.300	0.274	
3624.99	641666	Mid	back	15 mm	NR Band n48	F	N/A	0176M	40	CP-OFDM	QPSK	1	1	20.0	18.93	0	-0.04	1:1	0.221	1.279	0.283	
3570.00	638000	Low	back	15 mm	NR Band n48	C	N/A	0176M	40	CW/SRS	N/A	N/A	N/A	16.5	15.67	N/A	0.12	1:1	0.027	1.211	0.033	
3570.00	638000	Low	back	15 mm	NR Band n48	I	N/A	0176M	40	CW/SRS	N/A	N/A	N/A	16.5	15.85	N/A	0.12	1:1	0.058	1.161	0.067	
3570.00	638000	Low	back	15 mm	NR Band n48	D	N/A	0176M	40	CW/SRS	N/A	N/A	N/A	14.5	13.92	N/A	0.04	1:1	0.093	1.143	0.106	
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
NR Band 77 Body-Worn SAR

MEASUREMENT RESULTS																					
FREQUENCY		Side	Spacing	Mode	Antenna Config	Serial Number	Bandwidth [MHz]	Waveform	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPR [dB]	Power Drift [dB]	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot "	
MHz	Ch.																(W/kg)		(W/kg)		
3500.01	633334	Mid	back	15 mm	NR Band n77 DoD	F	0176M	100	DFT-S-OFDM	QPSK	1	1	18.0	17.32	0.5	0.05	1:1	0.084	1.169	0.098	A58
3500.01	633334	Mid	back	15 mm	NR Band n77 DoD	C	0176M	100	CW/SRS	N/A	NA	NA	14.0	13.88	N/A	0.06	1:1	0.022	1.028	0.023	
3500.01	633334	Mid	back	15 mm	NR Band n77 DoD	I	0176M	100	CW/SRS	N/A	NA	NA	14.5	13.81	N/A	0.03	1:1	0.032	1.172	0.038	
3500.01	633334	Mid	back	15 mm	NR Band n77 DoD	D	0176M	100	CW/SRS	N/A	NA	NA	12.5	12.41	N/A	-0.13	1:1	0.058	1.021	0.059	
3930.00	662000	High	back	15 mm	NR Band n77	F	0176M	100	DFT-S-OFDM	QPSK	1	137	18.0	18.00	0	0.00	1:1	0.200	1.000	0.200	
3930.00	662000	High	back	15 mm	NR Band n77	F	0176M	100	DFT-S-OFDM	QPSK	135	69	18.0	17.71	0	-0.08	1:1	0.211	1.069	0.226	
3930.00	662000	High	back	15 mm	NR Band n77	F	0176M	100	CP-OFDM	QPSK	1	1	18.0	17.48	0	0.02	1:1	0.233	1.127	0.263	A59
3750.00	650000	Low	back	15 mm	NR Band n77	C	0176M	100	CW/SRS	N/A	NA	NA	14.0	13.35	N/A	0.01	1:1	0.008	1.161	0.009	
3930.00	662000	High	back	15 mm	NR Band n77	I	0176M	100	CW/SRS	N/A	NA	NA	14.5	13.60	N/A	0.04	1:1	0.016	1.230	0.020	
3930.00	662000	High	back	15 mm	NR Band n77	D	0176M	100	CW/SRS	N/A	NA	NA	12.5	11.63	N/A	-0.12	1:1	0.032	1.222	0.039	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population										Body 1.6 W/kg (mW/g) averaged over 1 gram											

Table 11-41
DTS SISO Body-Worn SAR

MEASUREMENT RESULTS																			
FREQUENCY		Side	Spacing	Mode	Service	Antenna Config.	Device Serial Number	Bandwidth [MHz]	Data Rate (Mbps)	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Maximum Duty Cycle (%)	Duty Cycle (%)	SAR (1g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot #
MHz	Ch.													(W/kg)	(W/kg)				
2462	11	back	15 mm	802.11b	DSSS	2	0202M	22	1	19.0	18.89	0.03	100.00	98.89	0.060	1.026	1.011	0.062	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population											Body 1.6 W/kg (mW/g) averaged over 1 gram								

Table 11-42
DTS MIMO Body-Worn SAR

MEASUREMENT RESULTS																					
FREQUENCY		Side	Spacing	Mode	Service	Antenna Config.	Device Serial Number	Bandwidth [MHz]	Data Rate (Mbps)	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]	Maximum Duty Cycle (%)	Duty Cycle (%)	SAR (1g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot #
MHz	Ch.																(W/kg)			(W/kg)	
2412	1	back	15 mm	802.11b	DSSS	MIMO	0219M	22	1	19.0	18.76	19.0	18.53	0.07	100.00	98.72	0.203	1.114	1.013	0.229	A60
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.

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Table 11-43
DTS MIMO Body-Worn SAR during Conditions with 5G NR

MEASUREMENT RESULTS																					
FREQUENCY		Side	Spacing	Mode	Service	Antenna Config.	Device Serial Number	Bandwidth [MHz]	Data Rate [Mbps]	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]	Maximum Duty Cycle (%)	Duty Cycle (%)	SAR (1g) (W/kg)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g) (W/kg)	Plot #
MHz	Ch.																				
2437	6	back	15 mm	802.11n	OFDM	MIMO	0219M	20	13	17.0	17.00	17.0	16.58	-0.16	100.00	92.33	0.106	1.102	1.083	0.127	
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 20.0 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 17.0 dBm.

Table 11-44
DTS MIMO Body-Worn SAR during Conditions with 5/6 GHz

MEASUREMENT RESULTS																					
FREQUENCY		Side	Spacing	Mode	Service	Antenna Config.	Device Serial Number	Bandwidth [MHz]	Data Rate [Mbps]	Maximum Allowed Power [Ant 1] [dBm]	Conducted Power (Ant 1) [dBm]	Maximum Allowed Power [Ant 2] [dBm]	Conducted Power (Ant 2) [dBm]	Power Dn1 [dB]	Maximum Duty Cycle (%)	Duty Cycle (%)	SAR (1g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot #
MHz	Ch.																(W/kg)			(W/kg)	
2412	1	back	15 mm	802.11n	OFDM	MIMO	0219M	20	13	13.0	12.76	13.0	12.74	-0.18	100.00	92.33	0.037	1.062	1.083	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: To achieve the 16.0 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 13.0 dBm.

Table 11-45
NII MIMO Body-Worn SAR

MEASUREMENT RESULTS																					
FREQUENCY		Side	Spacing	Mode	Service	Antenna Config.	Device Serial Number	Bandwidth [MHz]	Data Rate (Mbps)	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]	Maximum Duty Cycle (%)	Duty Cycle (%)	SAR (1g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot #
MHz	Ch.																(W/kg)			(W/kg)	
5320	64	back	15 mm	802.11n	OFDM	MIMO	0219M	20	13	18.0	17.99	18.0	17.00	0.03	100.00	92.79	0.124	1.259	1.078	0.168	
5500	100	back	15 mm	802.11n	OFDM	MIMO	0219M	20	13	18.0	17.94	18.0	17.93	0.06	100.00	92.79	0.195	1.016	1.078	0.214	
5745	149	back	15 mm	802.11n	OFDM	MIMO	0237M	20	13	18.0	17.66	18.0	16.72	0.05	100.00	92.79	0.225	1.343	1.078	0.326	A61
5865	173	back	15 mm	802.11n	OFDM	MIMO	0237M	20	13	18.0	17.94	18.0	17.91	0.04	100.00	92.79	0.197	1.021	1.078	0.217	
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 11-46
NII MIMO Body-Worn SAR during Conditions with NR or 2.4 GHz

MEASUREMENT RESULTS																					
FREQUENCY		Side	Spacing	Mode	Service	Antenna Config.	Device Serial Number	Bandwidth [MHz]	Data Rate (Mbps)	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]	Maximum Duty Cycle (%)	Duty Cycle (%)	SAR (1g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot #
MHz	Ch.																(W/kg)			(W/kg)	
5290	58	back	15 mm	802.11ac	OFDM	MIMO	0232M	80	58.5	14.0	13.36	14.0	13.96	0.20	100.00	92.39	0.055	1.159	1.082	0.069	
5690	138	back	15 mm	802.11ac	OFDM	MIMO	0232M	80	58.5	14.0	13.62	14.0	13.78	0.20	100.00	92.39	0.099	1.091	1.082	0.117	
5775	155	back	15 mm	802.11ac	OFDM	MIMO	0232M	80	58.5	14.0	13.50	14.0	13.74	-0.08	100.00	92.39	0.105	1.122	1.082	0.127	
5855	171	back	15 mm	802.11ac	OFDM	MIMO	0232M	80	58.5	14.0	13.77	14.0	13.26	0.20	100.00	92.39	0.097	1.186	1.082	0.124	
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 16 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 11-47
DSS SISO Body-Worn SAR

MEASUREMENT RESULTS																		
FREQUENCY		Side	Spacing	Mode	Service	Antenna Config.	Device Serial Number	Data Rate (Mbps)	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Maximum Duty Cycle (%)	Duty Cycle (%)	SAR (1g)	Scaling Factor (Cond Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot #
MHz	Ch.													(W/kg)			(W/kg)	
2441	39	back	15 mm	Bluetooth	FHSS	1	0232M	1	15.5	14.39	0.09	78.00	76.80	0.025	1.291	1.016	0.033	A62
2402	0	back	15 mm	Bluetooth	FHSS	2	0232M	1	15.5	14.60	0.01	78.00	76.80	0.007	1.230	1.016	0.009	
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 Hotspot SAR Data

Table 11-48
GPRS Hotspot SAR Data

MEASUREMENT RESULTS																
FREQUENCY		Side	Spacing	Mode	Service	Antenna Config.	Device Serial Number	# of Time Slots	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.												(W/kg)		(W/kg)	
824.20	128	back	10 mm	GSM 850	GPRS	A	0251M	3	30.5	29.09	0.02	1:2.76	0.541	1.384	0.749	
836.60	190	back	10 mm	GSM 850	GPRS	A	0251M	3	30.5	29.17	-0.07	1:2.76	0.486	1.358	0.660	
848.80	251	back	10 mm	GSM 850	GPRS	A	0251M	3	30.5	29.03	-0.01	1:2.76	0.601	1.403	0.843	A63
836.60	190	front	10 mm	GSM 850	GPRS	A	0251M	3	30.5	29.17	0.04	1:2.76	0.350	1.358	0.475	
836.60	190	bottom	10 mm	GSM 850	GPRS	A	0251M	3	30.5	29.17	0.13	1:2.76	0.109	1.358	0.148	
836.60	190	right	10 mm	GSM 850	GPRS	A	0251M	3	30.5	29.17	-0.10	1:2.76	0.321	1.358	0.436	
836.60	190	left	10 mm	GSM 850	GPRS	A	0251M	3	30.5	29.17	-0.06	1:2.76	0.187	1.358	0.254	
1850.20	512	back	10 mm	GSM 1900	GPRS	A	0245M	4	23.0	21.88	0.00	1:2.076	0.082	1.294	0.106	
1850.20	512	front	10 mm	GSM 1900	GPRS	A	0245M	4	23.0	21.88	-0.10	1:2.076	0.071	1.294	0.092	
1850.20	512	bottom	10 mm	GSM 1900	GPRS	A	0245M	4	23.0	21.88	-0.02	1:2.076	0.107	1.294	0.138	A64
1850.20	512	right	10 mm	GSM 1900	GPRS	A	0245M	4	23.0	21.88	0.02	1:2.076	0.005	1.294	0.006	
1850.20	512	left	10 mm	GSM 1900	GPRS	A	0245M	4	23.0	21.88	0.08	1:2.076	0.008	1.294	0.010	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							Body 1.6 W/kg (mW/g) averaged over 1 gram									

Table 11-49
UMTS Hotspot SAR Data

MEASUREMENT RESULTS																
FREQUENCY		Side	Spacing	Mode	Service	Antenna Config.	Tune State	Device Serial Number	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g) (W/kg)	Plot #
MHz	Ch.												(W/kg)			
836.60	4183	back	10 mm	UMTS 850	RMC	A	139	0230M	25.0	24.22	-0.04	1:1	0.483	1.197	0.578	A65
836.60	4183	front	10 mm	UMTS 850	RMC	A	136	0230M	25.0	24.22	-0.07	1:1	0.339	1.197	0.406	
836.60	4183	bottom	10 mm	UMTS 850	RMC	A	136	0230M	25.0	24.22	-0.03	1:1	0.081	1.197	0.097	
836.60	4183	right	10 mm	UMTS 850	RMC	A	136	0230M	25.0	24.22	0.02	1:1	0.335	1.197	0.401	
836.60	4183	left	10 mm	UMTS 850	RMC	A	131	0230M	25.0	24.22	0.08	1:1	0.210	1.197	0.251	
1712.40	1312	back	10 mm	UMTS 1750	RMC	A	17	0244M	20.0	19.23	-0.04	1:1	0.395	1.194	0.472	
1712.40	1312	front	10 mm	UMTS 1750	RMC	A	17	0244M	20.0	19.23	0.00	1:1	0.283	1.194	0.338	
1712.40	1312	bottom	10 mm	UMTS 1750	RMC	A	23	0244M	20.0	19.23	0.00	1:1	0.666	1.194	0.795	
1732.40	1412	bottom	10 mm	UMTS 1750	RMC	A	23	0244M	20.0	19.18	-0.02	1:1	0.683	1.208	0.825	
1752.60	1513	bottom	10 mm	UMTS 1750	RMC	A	17	0244M	20.0	19.21	0.01	1:1	0.713	1.199	0.855	A66
1712.40	1312	right	10 mm	UMTS 1750	RMC	A	23	0244M	20.0	19.23	0.03	1:1	0.043	1.194	0.051	
1712.40	1312	left	10 mm	UMTS 1750	RMC	A	17	0244M	20.0	19.23	0.02	1:1	0.066	1.194	0.079	
1852.40	9262	back	10 mm	UMTS 1900	RMC	A	137	0227M	20.0	19.32	-0.04	1:1	0.505	1.169	0.590	
1852.40	9262	front	10 mm	UMTS 1900	RMC	A	33	0227M	20.0	19.32	0.02	1:1	0.469	1.169	0.548	
1852.40	9262	bottom	10 mm	UMTS 1900	RMC	A	26	0244M	20.0	19.32	-0.02	1:1	0.738	1.169	0.863	
1880.00	9400	bottom	10 mm	UMTS 1900	RMC	A	26	0244M	20.0	19.20	-0.02	1:1	0.744	1.202	0.894	A67
1907.60	9538	bottom	10 mm	UMTS 1900	RMC	A	26	0244M	20.0	19.21	0.00	1:1	0.741	1.199	0.888	
1852.40	9262	right	10 mm	UMTS 1900	RMC	A	140	0227M	20.0	19.32	0.04	1:1	0.047	1.169	0.055	
1852.40	9262	left	10 mm	UMTS 1900	RMC	A	35	0227M	20.0	19.32	0.12	1:1	0.098	1.169	0.115	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							Body 1.6 W/kg (mW/g) averaged over 1 gram									

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Table 11-50
LTE Band 71 Hotspot SAR

MEASUREMENT RESULTS																					
FREQUENCY		Side	Spacing	Mode	Antenna Config.	Tune State	Device Serial Number	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPR [dB]	Power Drift [dB]	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.																(W/kg)		(W/kg)		
680.50	133297	Mid	back	10 mm	LTE Band 71	A	0	0251M	20	QPSK	1	0	25.5	24.54	0	0.02	1:1	0.428	1.247	0.534	A68
680.50	133297	Mid	back	10 mm	LTE Band 71	A	0	0251M	20	QPSK	50	25	24.5	23.59	1	-0.02	1:1	0.352	1.233	0.434	
680.50	133297	Mid	front	10 mm	LTE Band 71	A	136	0251M	20	QPSK	1	0	25.5	24.54	0	-0.02	1:1	0.306	1.247	0.382	
680.50	133297	Mid	front	10 mm	LTE Band 71	A	136	0251M	20	QPSK	50	25	24.5	23.59	1	0.02	1:1	0.251	1.233	0.309	
680.50	133297	Mid	bottom	10 mm	LTE Band 71	A	0	0251M	20	QPSK	1	0	25.5	24.54	0	-0.02	1:1	0.086	1.247	0.107	
680.50	133297	Mid	bottom	10 mm	LTE Band 71	A	0	0251M	20	QPSK	50	25	24.5	23.59	1	0.00	1:1	0.077	1.233	0.095	
680.50	133297	Mid	right	10 mm	LTE Band 71	A	0	0251M	20	QPSK	1	0	25.5	24.54	0	0.01	1:1	0.179	1.247	0.223	
680.50	133297	Mid	right	10 mm	LTE Band 71	A	0	0251M	20	QPSK	50	25	24.5	23.59	1	0.01	1:1	0.157	1.233	0.194	
680.50	133297	Mid	left	10 mm	LTE Band 71	A	0	0251M	20	QPSK	1	0	25.5	24.54	0	0.01	1:1	0.238	1.247	0.297	
680.50	133297	Mid	left	10 mm	LTE Band 71	A	0	0251M	20	QPSK	50	25	24.5	23.59	1	0.07	1:1	0.199	1.233	0.245	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population										Body 1.6 W/kg (mW/g) averaged over 1 gram											

Table 11-51
LTE Band 12 Hotspot SAR

MEASUREMENT RESULTS																					
FREQUENCY		Side	Spacing	Mode	Antenna Config.	Tune State	Device Serial Number	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPR [dB]	Power Drift [dB]	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.																(W/kg)		(W/kg)		
707.50	23095	Mid	back	10 mm	LTE Band 12	A	136	0251M	10	QPSK	1	25	25.5	24.68	0	0.13	1:1	0.473	1.208	0.571	A69
707.50	23095	Mid	back	10 mm	LTE Band 12	A	136	0251M	10	QPSK	25	25	24.5	23.73	1	0.01	1:1	0.365	1.194	0.436	
707.50	23095	Mid	front	10 mm	LTE Band 12	A	17	0251M	10	QPSK	1	25	25.5	24.68	0	0.15	1:1	0.354	1.208	0.428	
707.50	23095	Mid	front	10 mm	LTE Band 12	A	17	0251M	10	QPSK	25	25	24.5	23.73	1	0.02	1:1	0.282	1.194	0.337	
707.50	23095	Mid	bottom	10 mm	LTE Band 12	A	0	0251M	10	QPSK	1	25	25.5	24.68	0	0.05	1:1	0.123	1.208	0.149	
707.50	23095	Mid	bottom	10 mm	LTE Band 12	A	0	0251M	10	QPSK	25	25	24.5	23.73	1	0.01	1:1	0.096	1.194	0.115	
707.50	23095	Mid	right	10 mm	LTE Band 12	A	0	0251M	10	QPSK	1	25	25.5	24.68	0	-0.05	1:1	0.318	1.208	0.384	
707.50	23095	Mid	right	10 mm	LTE Band 12	A	0	0251M	10	QPSK	25	25	24.5	23.73	1	-0.01	1:1	0.246	1.194	0.294	
707.50	23095	Mid	left	10 mm	LTE Band 12	A	17	0251M	10	QPSK	1	25	25.5	24.68	0	-0.09	1:1	0.316	1.208	0.382	
707.50	23095	Mid	left	10 mm	LTE Band 12	A	17	0251M	10	QPSK	25	25	24.5	23.73	1	-0.02	1:1	0.246	1.194	0.294	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population										Body 1.6 W/kg (mW/g) averaged over 1 gram											

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Table 11-52
LTE Band 13 Hotspot SAR

MEASUREMENT RESULTS																					
FREQUENCY		Side	Spacing	Mode	Antenna Config.	Tune State	Device Serial Number	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPR [dB]	Power Drift [dB]	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.																(W/kg)		(W/kg)		
782.00	23230	Mid	back	10 mm	LTE Band 13	A	136	0251M	10	QPSK	1	0	25.5	24.43	0	0.00	1:1	0.436	1.279	0.558	A70
782.00	23230	Mid	back	10 mm	LTE Band 13	A	136	0251M	10	QPSK	25	0	24.5	23.45	1	-0.05	1:1	0.340	1.274	0.433	
782.00	23230	Mid	front	10 mm	LTE Band 13	A	136	0251M	10	QPSK	1	0	25.5	24.43	0	0.00	1:1	0.345	1.279	0.441	
782.00	23230	Mid	front	10 mm	LTE Band 13	A	136	0251M	10	QPSK	25	0	24.5	23.45	1	0.00	1:1	0.259	1.274	0.330	
782.00	23230	Mid	bottom	10 mm	LTE Band 13	A	136	0251M	10	QPSK	1	0	25.5	24.43	0	0.17	1:1	0.118	1.279	0.151	
782.00	23230	Mid	bottom	10 mm	LTE Band 13	A	136	0251M	10	QPSK	25	0	24.5	23.45	1	0.00	1:1	0.094	1.274	0.120	
782.00	23230	Mid	right	10 mm	LTE Band 13	A	136	0251M	10	QPSK	1	0	25.5	24.43	0	0.09	1:1	0.344	1.279	0.440	
782.00	23230	Mid	right	10 mm	LTE Band 13	A	136	0251M	10	QPSK	25	0	24.5	23.45	1	0.00	1:1	0.256	1.274	0.326	
782.00	23230	Mid	left	10 mm	LTE Band 13	A	136	0251M	10	QPSK	1	0	25.5	24.43	0	0.04	1:1	0.298	1.279	0.381	
782.00	23230	Mid	left	10 mm	LTE Band 13	A	136	0251M	10	QPSK	25	0	24.5	23.45	1	0.04	1:1	0.220	1.274	0.280	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population										Body 1.6 W/kg (mW/g) averaged over 1 gram											

Table 11-53
LTE Band 14 Hotspot SAR

MEASUREMENT RESULTS																					
FREQUENCY		Side	Spacing	Mode	Antenna Config.	Tune State	Device Serial Number	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPR [dB]	Power Drift [dB]	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.																(W/kg)		(W/kg)		
793.00	23330	Mid	back	10 mm	LTE Band 14	A	0	0251M	10	QPSK	1	25	25.5	24.45	0	0.00	1:1	0.501	1.274	0.638	A71
793.00	23330	Mid	back	10 mm	LTE Band 14	A	139	0251M	10	QPSK	25	12	24.5	23.32	1	-0.01	1:1	0.386	1.312	0.506	
793.00	23330	Mid	front	10 mm	LTE Band 14	A	136	0251M	10	QPSK	1	25	25.5	24.45	0	-0.07	1:1	0.347	1.274	0.442	
793.00	23330	Mid	front	10 mm	LTE Band 14	A	136	0251M	10	QPSK	25	12	24.5	23.32	1	-0.04	1:1	0.267	1.312	0.350	
793.00	23330	Mid	bottom	10 mm	LTE Band 14	A	136	0251M	10	QPSK	1	25	25.5	24.45	0	0.04	1:1	0.117	1.274	0.149	
793.00	23330	Mid	bottom	10 mm	LTE Band 14	A	136	0251M	10	QPSK	25	12	24.5	23.32	1	-0.02	1:1	0.091	1.312	0.119	
793.00	23330	Mid	right	10 mm	LTE Band 14	A	136	0251M	10	QPSK	1	25	25.5	24.45	0	-0.02	1:1	0.312	1.274	0.397	
793.00	23330	Mid	right	10 mm	LTE Band 14	A	136	0251M	10	QPSK	25	12	24.5	23.32	1	0.01	1:1	0.240	1.312	0.315	
793.00	23330	Mid	left	10 mm	LTE Band 14	A	136	0251M	10	QPSK	1	25	25.5	24.45	0	0.02	1:1	0.236	1.274	0.301	
793.00	23330	Mid	left	10 mm	LTE Band 14	A	136	0251M	10	QPSK	25	12	24.5	23.32	1	0.01	1:1	0.180	1.312	0.236	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population										Body 1.6 W/kg (mW/g) averaged over 1 gram											

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Table 11-54
LTE Band 26 (Cell) Hotspot SAR

MEASUREMENT RESULTS																					
FREQUENCY		Side	Spacing	Mode	Antenna Config.	Tune State	Device Serial Number	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPR [dB]	Power Drift [dB]	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.																(W/kg)		(W/kg)		
831.50	26865	Mid	back	10 mm	LTE Band 26 (Cell)	A	0	0230M	15	QPSK	1	36	25.5	24.40	0	0.00	1:1	0.501	1.288	0.645	A72
831.50	26865	Mid	back	10 mm	LTE Band 26 (Cell)	A	136	0230M	15	QPSK	36	37	24.5	23.33	1	0.03	1:1	0.406	1.309	0.531	
831.50	26865	Mid	front	10 mm	LTE Band 26 (Cell)	A	136	0230M	15	QPSK	1	36	25.5	24.40	0	-0.08	1:1	0.320	1.288	0.412	
831.50	26865	Mid	front	10 mm	LTE Band 26 (Cell)	A	136	0230M	15	QPSK	36	37	24.5	23.33	1	0.00	1:1	0.256	1.309	0.335	
831.50	26865	Mid	bottom	10 mm	LTE Band 26 (Cell)	A	136	0230M	15	QPSK	1	36	25.5	24.40	0	-0.06	1:1	0.099	1.288	0.128	
831.50	26865	Mid	bottom	10 mm	LTE Band 26 (Cell)	A	136	0230M	15	QPSK	36	37	24.5	23.33	1	-0.04	1:1	0.089	1.309	0.117	
831.50	26865	Mid	right	10 mm	LTE Band 26 (Cell)	A	136	0230M	15	QPSK	1	36	25.5	24.40	0	-0.03	1:1	0.292	1.288	0.376	
831.50	26865	Mid	right	10 mm	LTE Band 26 (Cell)	A	136	0230M	15	QPSK	36	37	24.5	23.33	1	-0.01	1:1	0.216	1.309	0.283	
831.50	26865	Mid	left	10 mm	LTE Band 26 (Cell)	A	136	0230M	15	QPSK	1	36	25.5	24.40	0	-0.06	1:1	0.238	1.288	0.307	
831.50	26865	Mid	left	10 mm	LTE Band 26 (Cell)	A	136	0230M	15	QPSK	36	37	24.5	23.33	1	-0.03	1:1	0.171	1.309	0.224	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population										Body 1.6 W/kg (mW/g) averaged over 1 gram											

Table 11-55
LTE Band 5 (Cell) Hotspot SAR

MEASUREMENT RESULTS																							
# CC Uplink	Component Carrier	FREQUENCY		Side	Spacing	Mode	Antenna Config.	Tune State	Device Serial Number	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPR [dB]	Power Drift [dB]	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	back	10 mm	LTE Band 5 (Cell)	A	139	0240M	10	QPSK	1	0	25.5	24.57	0	0.04	1:1	0.465	1.239	0.576	
1 CC Uplink	N/A	836.50	20525	Mid	back	10 mm	LTE Band 5 (Cell)	A	136	0240M	10	QPSK	25	25	24.5	23.43	1	0.01	1:1	0.369	1.279	0.472	
2 CC Uplink	PCC	836.50	20525	Mid	back	10 mm	LTE Band 5 (Cell)	A	139	0240M	10	QPSK	1	0	25.5	24.61	0	0.00	1:1	0.470	1.227	0.577	A73
	SCC	829.30	20453								5		1	24									
1 CC Uplink	N/A	836.50	20525	Mid	front	10 mm	LTE Band 5 (Cell)	A	136	0240M	10	QPSK	1	0	25.5	24.57	0	0.00	1:1	0.308	1.239	0.382	
1 CC Uplink	N/A	836.50	20525	Mid	front	10 mm	LTE Band 5 (Cell)	A	136	0240M	10	QPSK	25	25	24.5	23.43	1	-0.01	1:1	0.237	1.279	0.303	
1 CC Uplink	N/A	836.50	20525	Mid	bottom	10 mm	LTE Band 5 (Cell)	A	136	0240M	10	QPSK	1	0	25.5	24.57	0	0.16	1:1	0.119	1.239	0.147	
1 CC Uplink	N/A	836.50	20525	Mid	bottom	10 mm	LTE Band 5 (Cell)	A	136	0240M	10	QPSK	25	25	24.5	23.43	1	-0.01	1:1	0.097	1.279	0.124	
1 CC Uplink	N/A	836.50	20525	Mid	right	10 mm	LTE Band 5 (Cell)	A	136	0240M	10	QPSK	1	0	25.5	24.57	0	-0.16	1:1	0.274	1.239	0.339	
1 CC Uplink	N/A	836.50	20525	Mid	right	10 mm	LTE Band 5 (Cell)	A	136	0240M	10	QPSK	25	25	24.5	23.43	1	0.02	1:1	0.216	1.279	0.276	
1 CC Uplink	N/A	836.50	20525	Mid	left	10 mm	LTE Band 5 (Cell)	A	136	0240M	10	QPSK	1	0	25.5	24.57	0	0.05	1:1	0.237	1.239	0.294	
1 CC Uplink	N/A	836.50	20525	Mid	left	10 mm	LTE Band 5 (Cell)	A	136	0240M	10	QPSK	25	25	24.5	23.43	1	0.06	1:1	0.169	1.279	0.216	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population												Body 1.6 W/kg (mW/g) averaged over 1 gram											

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Table 11-56
LTE Band 66 (AWS) Hotspot SAR

MEASUREMENT RESULTS																							
# CC Uplink	Component Carrier	FREQUENCY		Side	Spacing	Mode	Antenna Config.	Tune State	Device Serial Number	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPR [dB]	Power Drift [dB]	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
		MHz	Ch.																(W/kg)		(W/kg)		
1 CC Uplink	N/A	1720.00	132072	Low	back	10 mm	LTE Band 66 (AWS)	A	32	0275M	20	QPSK	1	50	20.0	18.70	0	-0.03	1.1	0.404	1.349	0.545	
1 CC Uplink	N/A	1720.00	132072	Low	back	10 mm	LTE Band 66 (AWS)	A	32	0275M	20	QPSK	50	25	20.0	18.60	0	-0.04	1.1	0.412	1.380	0.569	
1 CC Uplink	N/A	1720.00	132072	Low	front	10 mm	LTE Band 66 (AWS)	A	16	0275M	20	QPSK	1	50	20.0	18.70	0	-0.04	1.1	0.340	1.349	0.459	
1 CC Uplink	N/A	1720.00	132072	Low	front	10 mm	LTE Band 66 (AWS)	A	16	0275M	20	QPSK	50	25	20.0	18.60	0	-0.01	1.1	0.343	1.380	0.473	
1 CC Uplink	N/A	1720.00	132072	Low	bottom	10 mm	LTE Band 66 (AWS)	A	17	0275M	20	QPSK	1	50	20.0	18.70	0	0.03	1.1	0.814	1.349	1.098	
1 CC Uplink	N/A	1745.00	132322	Mid	bottom	10 mm	LTE Band 66 (AWS)	A	17	0275M	20	QPSK	1	0	20.0	18.44	0	0.05	1.1	0.742	1.432	1.063	
1 CC Uplink	N/A	1770.00	132572	High	bottom	10 mm	LTE Band 66 (AWS)	A	17	0275M	20	QPSK	1	0	20.0	18.34	0	0.00	1.1	0.643	1.466	0.943	
1 CC Uplink	N/A	1720.00	132072	Low	bottom	10 mm	LTE Band 66 (AWS)	A	17	0275M	20	QPSK	50	25	20.0	18.60	0	-0.01	1.1	0.840	1.380	1.159	A74
1 CC Uplink	N/A	1720.00	132072	Low	bottom	10 mm	LTE Band 66 (AWS)	A	17	0275M	20	QPSK	50	50	20.0	18.57	0	0.01	1.1	0.824	1.390	1.145	
1 CC Uplink	N/A	1745.00	132322	Mid	bottom	10 mm	LTE Band 66 (AWS)	A	17	0275M	20	QPSK	50	50	20.0	18.48	0	0.00	1.1	0.694	1.419	0.985	
1 CC Uplink	N/A	1770.00	132572	High	bottom	10 mm	LTE Band 66 (AWS)	A	17	0275M	20	QPSK	50	25	20.0	18.44	0	-0.02	1.1	0.630	1.432	0.902	
1 CC Uplink	N/A	1720.00	132072	Low	bottom	10 mm	LTE Band 66 (AWS)	A	17	0275M	20	QPSK	100	0	20.0	18.57	0	0.00	1.1	0.770	1.390	1.070	
1 CC Uplink	N/A	1715.00	132022	Low	bottom	10 mm	LTE Band 66 (AWS)	A	113	0275M	10	QPSK	25	25	20.0	18.64	0	-0.02	1.1	0.778	1.368	1.064	
2 CC Uplink CA_66C	PCC	1720.00	132072	Low	bottom	10 mm	LTE Band 66 (AWS)	A	17	0275M	20	QPSK	50	50	20.0	18.45	0	0.01	1.1	0.763	1.429	1.090	
	SCC	1739.80	132270											0									
2 CC Uplink CA_66B	PCC	1715.00	132022	Low	bottom	10 mm	LTE Band 66 (AWS)	A	113	0275M	10	QPSK	25	25	20.0	18.54	0	0.03	1.1	0.753	1.400	1.054	
	SCC	1724.90	132121											0									
1 CC Uplink	N/A	1720.00	132072	Low	right	10 mm	LTE Band 66 (AWS)	A	39	0275M	20	QPSK	1	50	20.0	18.70	0	-0.06	1.1	0.048	1.349	0.065	
1 CC Uplink	N/A	1720.00	132072	Low	right	10 mm	LTE Band 66 (AWS)	A	39	0275M	20	QPSK	50	25	20.0	18.60	0	0.02	1.1	0.049	1.380	0.068	
1 CC Uplink	N/A	1720.00	132072	Low	left	10 mm	LTE Band 66 (AWS)	A	35	0275M	20	QPSK	1	50	20.0	18.70	0	0.04	1.1	0.118	1.349	0.159	
1 CC Uplink	N/A	1720.00	132072	Low	left	10 mm	LTE Band 66 (AWS)	A	35	0275M	20	QPSK	50	25	20.0	18.60	0	0.04	1.1	0.121	1.380	0.167	
1 CC Uplink	N/A	1770.00	132572	High	back	10 mm	LTE Band 66 (AWS)	F	N/A	0190M	20	QPSK	1	0	21.5	21.48	0	-0.05	1.1	0.508	1.005	0.511	
1 CC Uplink	N/A	1770.00	132572	High	back	10 mm	LTE Band 66 (AWS)	F	N/A	0190M	20	QPSK	50	0	21.5	21.50	0	0.02	1.1	0.516	1.000	0.516	
1 CC Uplink	N/A	1770.00	132572	High	front	10 mm	LTE Band 66 (AWS)	F	N/A	0190M	20	QPSK	1	0	21.5	21.48	0	0.05	1.1	0.375	1.005	0.377	
1 CC Uplink	N/A	1770.00	132572	High	front	10 mm	LTE Band 66 (AWS)	F	N/A	0190M	20	QPSK	50	0	21.5	21.50	0	-0.01	1.1	0.379	1.000	0.379	
1 CC Uplink	N/A	1770.00	132572	High	top	10 mm	LTE Band 66 (AWS)	F	N/A	0190M	20	QPSK	1	0	21.5	21.48	0	-0.02	1.1	0.590	1.005	0.593	
1 CC Uplink	N/A	1720.00	132072	Low	top	10 mm	LTE Band 66 (AWS)	F	N/A	0190M	20	QPSK	50	50	21.5	21.12	0	-0.01	1.1	0.590	1.091	0.644	
1 CC Uplink	N/A	1745.00	132322	Mid	top	10 mm	LTE Band 66 (AWS)	F	N/A	0190M	20	QPSK	50	0	21.5	21.17	0	0.00	1.1	0.617	1.079	0.666	
1 CC Uplink	N/A	1770.00	132572	High	top	10 mm	LTE Band 66 (AWS)	F	N/A	0190M	20	QPSK	50	0	21.5	21.50	0	0.00	1.1	0.607	1.000	0.607	
1 CC Uplink	N/A	1745.00	132322	Mid	top	10 mm	LTE Band 66 (AWS)	F	N/A	0190M	10	QPSK	25	0	21.5	21.16	0	-0.03	1.1	0.619	1.081	0.669	
2 CC Uplink CA_66C	PCC	1745.00	132322	Mid	top	10 mm	LTE Band 66 (AWS)	F	N/A	0190M	20	QPSK	50	0	21.5	21.00	0	0.00	1.1	0.619	1.122	0.695	
	SCC	1725.20	132124											50									
2 CC Uplink CA_66B	PCC	1745.00	132322	Mid	top	10 mm	LTE Band 66 (AWS)	F	N/A	0190M	10	QPSK	25	0	21.5	21.00	0	0.02	1.1	0.616	1.122	0.691	
	SCC	1735.10	132223											25									
1 CC Uplink	N/A	1770.00	132572	High	left	10 mm	LTE Band 66 (AWS)	F	N/A	0190M	20	QPSK	1	0	21.5	21.48	0	0.04	1.1	0.194	1.005	0.195	
1 CC Uplink	N/A	1770.00	132572	High	left	10 mm	LTE Band 66 (AWS)	F	N/A	0190M	20	QPSK	50	0	21.5	21.50	0	0.02	1.1	0.196	1.000	0.196	
1 CC Uplink	N/A	1720.00	132072	Low	bottom	10 mm	LTE Band 66 (AWS)	A	17	0275M	20	QPSK	50	25	20.0	18.60	0	-0.01	1.1	0.827	1.380	1.141	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT												Body 1.6 W/kg (mW/g) averaged over 1 gram											
Spatial Peak Uncontrolled Exposure/General Population																							

Note: Blue entry represents variability measurement.

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Table 11-57
LTE Band 25 (PCS) Hotspot SAR

MEASUREMENT RESULTS																					
FREQUENCY		Side	Spacing	Mode	Antenna Config.	Tune State	Device Serial Number	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPR [dB]	Power Drift [dB]	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.																(W/kg)		(W/kg)		
1860.00	26140	Low	back	10 mm	LTE Band 25 (PCS)	A	32	0227M	20	QPSK	1	0	20.5	19.59	0	0.07	1:1	0.472	1.233	0.582	
1860.00	26140	Low	back	10 mm	LTE Band 25 (PCS)	A	32	0227M	20	QPSK	50	25	20.5	19.63	0	-0.04	1:1	0.465	1.222	0.568	
1860.00	26140	Low	front	10 mm	LTE Band 25 (PCS)	A	33	0227M	20	QPSK	1	0	20.5	19.59	0	-0.18	1:1	0.402	1.233	0.496	
1860.00	26140	Low	front	10 mm	LTE Band 25 (PCS)	A	33	0227M	20	QPSK	50	25	20.5	19.63	0	0.04	1:1	0.412	1.222	0.503	
1860.00	26140	Low	bottom	10 mm	LTE Band 25 (PCS)	A	17	0227M	20	QPSK	1	0	20.5	19.59	0	-0.12	1:1	0.809	1.233	0.997	
1882.50	26365	Mid	bottom	10 mm	LTE Band 25 (PCS)	A	17	0227M	20	QPSK	1	0	20.5	19.56	0	0.01	1:1	0.827	1.242	1.027	
1905.00	26590	High	bottom	10 mm	LTE Band 25 (PCS)	A	17	0227M	20	QPSK	1	0	20.5	19.58	0	-0.12	1:1	0.926	1.236	1.145	
1860.00	26140	Low	bottom	10 mm	LTE Band 25 (PCS)	A	17	0227M	20	QPSK	50	25	20.5	19.63	0	0.01	1:1	0.827	1.222	1.011	
1882.50	26365	Mid	bottom	10 mm	LTE Band 25 (PCS)	A	17	0227M	20	QPSK	50	25	20.5	19.54	0	0.01	1:1	0.870	1.247	1.085	
1905.00	26590	High	bottom	10 mm	LTE Band 25 (PCS)	A	27	0227M	20	QPSK	50	50	20.5	19.55	0	-0.01	1:1	0.988	1.245	1.230	A75
1860.00	26140	Low	bottom	10 mm	LTE Band 25 (PCS)	A	17	0227M	20	QPSK	100	0	20.5	19.58	0	0.00	1:1	0.926	1.236	1.145	
1860.00	26140	Low	right	10 mm	LTE Band 25 (PCS)	A	35	0227M	20	QPSK	1	0	20.5	19.59	0	-0.11	1:1	0.035	1.233	0.043	
1860.00	26140	Low	right	10 mm	LTE Band 25 (PCS)	A	35	0227M	20	QPSK	50	25	20.5	19.63	0	0.03	1:1	0.037	1.222	0.045	
1860.00	26140	Low	left	10 mm	LTE Band 25 (PCS)	A	33	0227M	20	QPSK	1	0	20.5	19.59	0	-0.12	1:1	0.128	1.233	0.158	
1860.00	26140	Low	left	10 mm	LTE Band 25 (PCS)	A	33	0227M	20	QPSK	50	25	20.5	19.63	0	-0.01	1:1	0.127	1.222	0.155	
1860.00	26140	Low	back	10 mm	LTE Band 25 (PCS)	F	N/A	0195M	20	QPSK	1	0	22.5	21.71	0	-0.07	1:1	0.398	1.199	0.477	
1860.00	26140	Low	back	10 mm	LTE Band 25 (PCS)	F	N/A	0195M	20	QPSK	50	25	22.5	21.60	0	0.00	1:1	0.331	1.230	0.407	
1860.00	26140	Low	front	10 mm	LTE Band 25 (PCS)	F	N/A	0195M	20	QPSK	1	0	22.5	21.71	0	0.00	1:1	0.341	1.199	0.409	
1860.00	26140	Low	front	10 mm	LTE Band 25 (PCS)	F	N/A	0195M	20	QPSK	50	25	22.5	21.60	0	-0.01	1:1	0.340	1.230	0.418	
1860.00	26140	Low	top	10 mm	LTE Band 25 (PCS)	F	N/A	0195M	20	QPSK	1	0	22.5	21.71	0	0.05	1:1	0.752	1.199	0.902	
1882.50	26365	Mid	top	10 mm	LTE Band 25 (PCS)	F	N/A	0195M	20	QPSK	1	0	22.5	21.40	0	-0.10	1:1	0.694	1.288	0.894	
1905.00	26590	High	top	10 mm	LTE Band 25 (PCS)	F	N/A	0195M	20	QPSK	1	0	22.5	21.42	0	-0.01	1:1	0.624	1.282	0.800	
1860.00	26140	Low	top	10 mm	LTE Band 25 (PCS)	F	N/A	0195M	20	QPSK	50	25	22.5	21.60	0	-0.04	1:1	0.714	1.230	0.878	
1882.50	26365	Mid	top	10 mm	LTE Band 25 (PCS)	F	N/A	0195M	20	QPSK	50	25	22.5	21.35	0	-0.01	1:1	0.678	1.303	0.883	
1905.00	26590	High	top	10 mm	LTE Band 25 (PCS)	F	N/A	0195M	20	QPSK	50	25	22.5	21.46	0	0.02	1:1	0.609	1.271	0.774	
1860.00	26140	Low	top	10 mm	LTE Band 25 (PCS)	F	N/A	0195M	20	QPSK	100	0	22.5	21.56	0	0.00	1:1	0.712	1.242	0.884	
1860.00	26140	Low	left	10 mm	LTE Band 25 (PCS)	F	N/A	0195M	20	QPSK	1	0	22.5	21.71	0	-0.01	1:1	0.187	1.199	0.224	
1860.00	26140	Low	left	10 mm	LTE Band 25 (PCS)	F	N/A	0195M	20	QPSK	50	25	22.5	21.60	0	-0.01	1:1	0.181	1.230	0.223	
1905.00	26590	High	bottom	10 mm	LTE Band 25 (PCS)	A	17	0227M	20	QPSK	50	50	20.5	19.55	0	0.01	1:1	0.933	1.245	1.162	
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 11-58
LTE Band 30 Hotspot SAR

MEASUREMENT RESULTS																				
FREQUENCY			Side	Spacing	Mode	Antenna Config.	Device Serial Number	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPR [dB]	Power Drift [dB]	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.	(W/kg)															(W/kg)			
2310.00	27710	Mid	back	10 mm	LTE Band 30	A	0231M	10	QPSK	1	25	20.0	18.52	0	-0.01	1:1	0.361	1.406	0.508	
2310.00	27710	Mid	back	10 mm	LTE Band 30	A	0231M	10	QPSK	25	12	20.0	18.59	0	-0.02	1:1	0.354	1.384	0.490	
2310.00	27710	Mid	front	10 mm	LTE Band 30	A	0231M	10	QPSK	1	25	20.0	18.52	0	0.01	1:1	0.295	1.406	0.415	
2310.00	27710	Mid	front	10 mm	LTE Band 30	A	0231M	10	QPSK	25	12	20.0	18.59	0	0.02	1:1	0.297	1.384	0.411	
2310.00	27710	Mid	bottom	10 mm	LTE Band 30	A	0231M	10	QPSK	1	25	20.0	18.52	0	0.01	1:1	0.863	1.406	1.213	
2310.00	27710	Mid	bottom	10 mm	LTE Band 30	A	0231M	10	QPSK	25	12	20.0	18.59	0	0.01	1:1	0.868	1.384	1.201	A76
2310.00	27710	Mid	bottom	10 mm	LTE Band 30	A	0231M	10	QPSK	50	0	20.0	18.51	0	0.01	1:1	0.822	1.409	1.158	
2310.00	27710	Mid	right	10 mm	LTE Band 30	A	0231M	10	QPSK	1	25	20.0	18.52	0	0.03	1:1	0.022	1.406	0.031	
2310.00	27710	Mid	right	10 mm	LTE Band 30	A	0231M	10	QPSK	25	12	20.0	18.59	0	-0.10	1:1	0.023	1.384	0.032	
2310.00	27710	Mid	left	10 mm	LTE Band 30	A	0231M	10	QPSK	1	25	20.0	18.52	0	0.18	1:1	0.049	1.406	0.069	
2310.00	27710	Mid	left	10 mm	LTE Band 30	A	0231M	10	QPSK	25	12	20.0	18.59	0	-0.17	1:1	0.051	1.384	0.071	
2310.00	27710	Mid	back	10 mm	LTE Band 30	F	0168M	10	QPSK	1	0	20.5	19.66	0	-0.01	1:1	0.358	1.213	0.434	
2310.00	27710	Mid	back	10 mm	LTE Band 30	F	0168M	10	QPSK	25	0	20.5	19.63	0	0.01	1:1	0.362	1.222	0.442	
2310.00	27710	Mid	front	10 mm	LTE Band 30	F	0168M	10	QPSK	1	0	20.5	19.66	0	0.02	1:1	0.232	1.213	0.281	
2310.00	27710	Mid	front	10 mm	LTE Band 30	F	0168M	10	QPSK	25	0	20.5	19.63	0	-0.04	1:1	0.238	1.222	0.291	
2310.00	27710	Mid	top	10 mm	LTE Band 30	F	0168M	10	QPSK	1	0	20.5	19.66	0	-0.02	1:1	0.552	1.213	0.670	
2310.00	27710	Mid	top	10 mm	LTE Band 30	F	0168M	10	QPSK	25	0	20.5	19.63	0	-0.02	1:1	0.556	1.222	0.679	
2310.00	27710	Mid	left	10 mm	LTE Band 30	F	0168M	10	QPSK	1	0	20.5	19.66	0	0.02	1:1	0.062	1.213	0.075	
2310.00	27710	Mid	left	10 mm	LTE Band 30	F	0168M	10	QPSK	25	0	20.5	19.63	0	-0.01	1:1	0.055	1.222	0.067	
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 11-59
LTE Band 7 Hotspot SAR

MEASUREMENT RESULTS																				
FREQUENCY			Side	Spacing	Mode	Antenna Config.	Device Serial Number	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPR [dB]	Power Drift [dB]	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.																(W/kg)		(W/kg)	
2510.00	20850	Low	back	10 mm	LTE Band 7	B	0250M	20	QPSK	1	50	22.0	20.40	0	0.09	1:1	0.407	1.445	0.588	
2510.00	20850	Low	back	10 mm	LTE Band 7	B	0250M	20	QPSK	50	25	22.0	20.43	0	0.06	1:1	0.418	1.435	0.600	
2535.00	21100	Mid	back	10 mm	LTE Band 7	B	0250M	20	QPSK	50	25	22.0	20.40	0	0.02	1:1	0.442	1.445	0.639	
2560.00	21350	High	back	10 mm	LTE Band 7	B	0250M	20	QPSK	50	50	22.0	20.40	0	-0.04	1:1	0.469	1.445	0.678	
2510.00	20850	Low	front	10 mm	LTE Band 7	B	0250M	20	QPSK	1	50	22.0	20.40	0	-0.12	1:1	0.235	1.445	0.340	
2510.00	20850	Low	front	10 mm	LTE Band 7	B	0250M	20	QPSK	50	25	22.0	20.43	0	-0.07	1:1	0.241	1.435	0.346	
2510.00	20850	Low	bottom	10 mm	LTE Band 7	B	0250M	20	QPSK	1	50	22.0	20.40	0	0.06	1:1	0.313	1.445	0.452	
2510.00	20850	Low	bottom	10 mm	LTE Band 7	B	0250M	20	QPSK	50	25	22.0	20.43	0	0.12	1:1	0.322	1.435	0.462	
2510.00	20850	Low	left	10 mm	LTE Band 7	B	0250M	20	QPSK	1	50	22.0	20.40	0	-0.01	1:1	0.310	1.445	0.448	
2510.00	20850	Low	left	10 mm	LTE Band 7	B	0250M	20	QPSK	50	25	22.0	20.43	0	0.03	1:1	0.318	1.435	0.456	
2510.00	20850	Low	back	10 mm	LTE Band 7	F	0168M	20	QPSK	1	0	21.0	19.91	0	0.04	1:1	0.291	1.285	0.374	
2510.00	20850	Low	back	10 mm	LTE Band 7	F	0168M	20	QPSK	50	0	21.0	19.94	0	-0.02	1:1	0.279	1.276	0.356	
2510.00	20850	Low	front	10 mm	LTE Band 7	F	0168M	20	QPSK	1	0	21.0	19.91	0	-0.01	1:1	0.210	1.285	0.270	
2510.00	20850	Low	front	10 mm	LTE Band 7	F	0168M	20	QPSK	50	0	21.0	19.94	0	0.00	1:1	0.202	1.276	0.258	
2510.00	20850	Low	top	10 mm	LTE Band 7	F	0168M	20	QPSK	1	0	21.0	19.91	0	-0.01	1:1	0.517	1.285	0.664	A77
2535.00	21100	Mid	top	10 mm	LTE Band 7	F	0168M	20	QPSK	1	99	21.0	19.67	0	0.01	1:1	0.324	1.358	0.440	
2560.00	21350	High	top	10 mm	LTE Band 7	F	0168M	20	QPSK	1	50	21.0	19.60	0	-0.05	1:1	0.315	1.380	0.435	
2510.00	20850	Low	top	10 mm	LTE Band 7	F	0168M	20	QPSK	50	0	21.0	19.94	0	-0.03	1:1	0.496	1.276	0.633	
2510.00	20850	Low	left	10 mm	LTE Band 7	F	0168M	20	QPSK	1	0	21.0	19.91	0	-0.01	1:1	0.029	1.285	0.037	
2510.00	20850	Low	left	10 mm	LTE Band 7	F	0168M	20	QPSK	50	0	21.0	19.94	0	0.05	1:1	0.031	1.276	0.040	
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 11-60
LTE Band 41 Hotspot SAR

MEASUREMENT RESULTS																						
# CC Uplink - Power Class	Component Carrier	FREQUENCY			Side	Spacing	Mode	Antenna Config.	Device Serial Number	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPR [dB]	Power Drift [dB]	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #
		MHz	Ch.	(W/kg)															(W/kg)			
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	back	10 mm	LTE Band 41	B	0222M	20	QPSK	1	50	24.0	23.20	0	0.01	1:1.58	0.447	1.202	0.537	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	back	10 mm	LTE Band 41	B	0222M	20	QPSK	1	99	24.0	23.16	0	0.00	1:1.58	0.438	1.213	0.531	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	back	10 mm	LTE Band 41	B	0222M	20	QPSK	50	25	24.0	23.09	0	0.01	1:1.58	0.413	1.233	0.509	
1 CC Uplink - Power Class 2	N/A	2549.50	40185	Low-Mid	back	10 mm	LTE Band 41	B	0222M	20	QPSK	1	50	25.6	24.94	0	0.04	1:2.31	0.429	1.164	0.499	
1 CC Uplink - Power Class 2	N/A	2549.50	40185	Low-Mid	back	10 mm	LTE Band 41	B	0222M	20	QPSK	1	99	25.6	24.88	0	0.00	1:2.31	0.424	1.180	0.500	
2 CC Uplink - Power Class 3	PCC	2549.50	40185	Low-Mid	back	10 mm	LTE Band 41	B	0222M	20	QPSK	1	99	24.0	23.14	0	0.02	1:1.58	0.426	1.219	0.519	
	SCC	2569.30	40383										0									
2 CC Uplink - Power Class 2	PCC	2549.50	40185	Low-Mid	back	10 mm	LTE Band 41	B	0222M	20	QPSK	1	99	25.6	24.87	0	-0.03	1:2.31	0.419	1.183	0.496	
	SCC	2569.30	40383										0									
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	front	10 mm	LTE Band 41	B	0222M	20	QPSK	1	50	24.0	23.20	0	-0.02	1:1.58	0.274	1.202	0.329	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	front	10 mm	LTE Band 41	B	0222M	20	QPSK	50	25	24.0	23.09	0	0.02	1:1.58	0.275	1.233	0.339	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	bottom	10 mm	LTE Band 41	B	0222M	20	QPSK	1	50	24.0	23.20	0	0.07	1:1.58	0.433	1.202	0.520	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	bottom	10 mm	LTE Band 41	B	0222M	20	QPSK	50	25	24.0	23.09	0	0.03	1:1.58	0.423	1.233	0.522	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	left	10 mm	LTE Band 41	B	0222M	20	QPSK	1	50	24.0	23.20	0	-0.03	1:1.58	0.331	1.202	0.398	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	left	10 mm	LTE Band 41	B	0222M	20	QPSK	50	25	24.0	23.09	0	0.00	1:1.58	0.317	1.233	0.391	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	back	10 mm	LTE Band 41	F	0170M	20	QPSK	1	0	22.5	22.23	0	-0.05	1:1.58	0.334	1.064	0.355	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	back	10 mm	LTE Band 41	F	0170M	20	QPSK	50	0	22.5	22.19	0	-0.05	1:1.58	0.343	1.074	0.368	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	front	10 mm	LTE Band 41	F	0170M	20	QPSK	1	0	22.5	22.23	0	0.00	1:1.58	0.249	1.064	0.265	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	front	10 mm	LTE Band 41	F	0170M	20	QPSK	50	0	22.5	22.19	0	0.00	1:1.58	0.253	1.074	0.272	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	top	10 mm	LTE Band 41	F	0170M	20	QPSK	1	0	22.5	22.23	0	0.00	1:1.58	0.484	1.064	0.515	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	top	10 mm	LTE Band 41	F	0170M	20	QPSK	50	0	22.5	22.19	0	-0.03	1:1.58	0.513	1.074	0.551	A78
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	top	10 mm	LTE Band 41	F	0170M	20	QPSK	50	50	22.5	22.10	0	0.00	1:1.58	0.493	1.096	0.540	
1 CC Uplink - Power Class 2	N/A	2506.00	39750	Low	top	10 mm	LTE Band 41	F	0170M	20	QPSK	50	0	24.1	23.64	0	-0.14	1:2.31	0.507	1.112	0.564	
1 CC Uplink - Power Class 2	N/A	2506.00	39750	Low	top	10 mm	LTE Band 41	F	0170M	20	QPSK	50	50	24.1	23.61	0	-0.08	1:2.31	0.443	1.119	0.496	
2 CC Uplink - Power Class 3	PCC	2506.00	39750	Low	top	10 mm	LTE Band 41	F	0170M	20	QPSK	50	50	22.5	21.93	0	-0.11	1:1.58	0.464	1.140	0.529	
	SCC	2525.80	39948										0									
2 CC Uplink - Power Class 2	PCC	2506.00	39750	Low	top	10 mm	LTE Band 41	F	0170M	20	QPSK	50	50	24.1	23.50	0	-0.08	1:2.31	0.413	1.148	0.474	
	SCC	2525.80	39948										0									
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	left	10 mm	LTE Band 41	F	0170M	20	QPSK	1	0	22.5	22.23	0	-0.03	1:1.58	0.024	1.064	0.026	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	left	10 mm	LTE Band 41	F	0170M	20	QPSK	50	0	22.5	22.19	0	0.02	1:1.58	0.026	1.074	0.028	
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 11-61
LTE Band 48 Hotspot SAR

MEASUREMENT RESULTS																						
# CC Uplink	Component Carrier	FREQUENCY		Side	Spacing	Mode	Antenna Config.	Device Serial Number	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPR [dB]	Power Drift [dB]	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
		MHz	Ch.															(W/kg)		(W/kg)		
1 CC Uplink	N/A	3646.70	56207	Mid-High	back	10 mm	LTE Band 48	F	0175M	20	QPSK	1	99	22.0	20.95	0	-0.02	1:1.58	0.403	1.274	0.513	
1 CC Uplink	N/A	3646.70	56207	Mid-High	back	10 mm	LTE Band 48	F	0175M	20	QPSK	50	25	22.0	20.98	0	-0.01	1:1.58	0.405	1.265	0.512	A79
2 CC Uplink	PCC	3646.70	56207	Mid-High	back	10 mm	LTE Band 48	F	0175M	20	QPSK	1	99	22.0	20.93	0	0.00	1:1.58	0.401	1.279	0.513	
	SCC	3666.50	56405										0									
1 CC Uplink	N/A	3646.70	56207	Mid-High	front	10 mm	LTE Band 48	F	0175M	20	QPSK	1	99	22.0	20.95	0	-0.06	1:1.58	0.104	1.274	0.132	
1 CC Uplink	N/A	3646.70	56207	Mid-High	front	10 mm	LTE Band 48	F	0175M	20	QPSK	50	25	22.0	20.98	0	-0.04	1:1.58	0.107	1.265	0.135	
1 CC Uplink	N/A	3646.70	56207	Mid-High	top	10 mm	LTE Band 48	F	0175M	20	QPSK	1	99	22.0	20.95	0	-0.08	1:1.58	0.227	1.274	0.289	
1 CC Uplink	N/A	3646.70	56207	Mid-High	top	10 mm	LTE Band 48	F	0175M	20	QPSK	50	25	22.0	20.98	0	0.02	1:1.58	0.231	1.265	0.292	
1 CC Uplink	N/A	3646.70	56207	Mid-High	left	10 mm	LTE Band 48	F	0175M	20	QPSK	1	99	22.0	20.95	0	-0.19	1:1.58	0.077	1.274	0.098	
1 CC Uplink	N/A	3646.70	56207	Mid-High	left	10 mm	LTE Band 48	F	0175M	20	QPSK	50	25	22.0	20.98	0	0.01	1:1.58	0.073	1.265	0.092	
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 11-62
NR Band n71 Hotspot SAR

MEASUREMENT RESULTS																						
FREQUENCY		Side	Spacing	Mode	Antenna Config	Tune State	Serial Number	Bandwidth [MHz]	Waveform	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPR [dB]	Power Drift [dB]	Duty Cycle	SAR (lg)	Scaling Factor	Reported SAR (lg)	Plot #	
MHz	Ch.																	(W/kg)		(W/kg)		
680.50	136100	Mid	back	10 mm	NR Band n71	A	0	0282M	20	DFT-S-OFDM	QPSK	1	104	25.5	24.58	0	0.05	1:1	0.577	1.236	0.713	A80
680.50	136100	Mid	back	10 mm	NR Band n71	A	0	0282M	20	DFT-S-OFDM	QPSK	50	28	25.5	24.58	0	-0.01	1:1	0.537	1.236	0.664	
680.50	136100	Mid	back	10 mm	NR Band n71	A	0	0282M	20	CP-OFDM	QPSK	1	1	24.0	23.03	1.5	-0.01	1:1	0.364	1.250	0.455	
680.50	136100	Mid	front	10 mm	NR Band n71	A	136	0282M	20	DFT-S-OFDM	QPSK	1	104	25.5	24.58	0	-0.06	1:1	0.415	1.236	0.513	
680.50	136100	Mid	front	10 mm	NR Band n71	A	0	0282M	20	DFT-S-OFDM	QPSK	50	28	25.5	24.58	0	-0.03	1:1	0.374	1.236	0.462	
680.50	136100	Mid	bottom	10 mm	NR Band n71	A	136	0282M	20	DFT-S-OFDM	QPSK	1	104	25.5	24.58	0	-0.01	1:1	0.141	1.236	0.174	
680.50	136100	Mid	bottom	10 mm	NR Band n71	A	136	0282M	20	DFT-S-OFDM	QPSK	50	28	25.5	24.58	0	-0.03	1:1	0.120	1.236	0.148	
680.50	136100	Mid	right	10 mm	NR Band n71	A	0	0282M	20	DFT-S-OFDM	QPSK	1	104	25.5	24.58	0	0.03	1:1	0.240	1.236	0.297	
680.50	136100	Mid	right	10 mm	NR Band n71	A	0	0282M	20	DFT-S-OFDM	QPSK	50	28	25.5	24.58	0	0.00	1:1	0.228	1.236	0.282	
680.50	136100	Mid	left	10 mm	NR Band n71	A	17	0282M	20	DFT-S-OFDM	QPSK	1	104	25.5	24.58	0	-0.06	1:1	0.216	1.236	0.267	
680.50	136100	Mid	left	10 mm	NR Band n71	A	0	0282M	20	DFT-S-OFDM	QPSK	50	28	25.5	24.58	0	-0.01	1:1	0.284	1.236	0.351	
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 11-63
NR Band n12 Hotspot SAR

MEASUREMENT RESULTS																						
FREQUENCY		Side	Spacing	Mode	Antenna Config	Tune State	Serial Number	Bandwidth [MHz]	Waveform	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPR [dB]	Power Drift [dB]	Duty Cycle	SAR (lg)	Scaling Factor	Reported SAR (lg)	Plot #	
MHz	Ch.																	(W/kg)		(W/kg)		
707.50	141500	Mid	back	10 mm	NR Band n12	A	0	0282M	15	DFT-S-OFDM	QPSK	1	1	25.5	24.39	0	-0.01	1:1	0.490	1.291	0.633	A81
707.50	141500	Mid	back	10 mm	NR Band n12	A	0	0282M	15	DFT-S-OFDM	QPSK	36	22	25.5	24.33	0	0.00	1:1	0.501	1.309	0.656	
707.50	141500	Mid	back	10 mm	NR Band n12	A	6	0282M	15	CP-OFDM	QPSK	1	1	24.0	22.85	1.5	0.00	1:1	0.344	1.303	0.448	
707.50	141500	Mid	front	10 mm	NR Band n12	A	136	0282M	15	DFT-S-OFDM	QPSK	1	1	25.5	24.39	0	-0.05	1:1	0.343	1.291	0.443	
707.50	141500	Mid	front	10 mm	NR Band n12	A	136	0282M	15	DFT-S-OFDM	QPSK	36	22	25.5	24.33	0	-0.02	1:1	0.382	1.309	0.500	
707.50	141500	Mid	bottom	10 mm	NR Band n12	A	136	0282M	15	DFT-S-OFDM	QPSK	1	1	25.5	24.39	0	0.01	1:1	0.112	1.291	0.145	
707.50	141500	Mid	bottom	10 mm	NR Band n12	A	136	0282M	15	DFT-S-OFDM	QPSK	36	22	25.5	24.33	0	0.00	1:1	0.144	1.309	0.188	
707.50	141500	Mid	right	10 mm	NR Band n12	A	6	0282M	15	DFT-S-OFDM	QPSK	1	1	25.5	24.39	0	0.08	1:1	0.280	1.291	0.361	
707.50	141500	Mid	right	10 mm	NR Band n12	A	6	0282M	15	DFT-S-OFDM	QPSK	36	22	25.5	24.33	0	0.03	1:1	0.302	1.309	0.395	
707.50	141500	Mid	left	10 mm	NR Band n12	A	7	0282M	15	DFT-S-OFDM	QPSK	1	1	25.5	24.39	0	0.02	1:1	0.259	1.291	0.334	
707.50	141500	Mid	left	10 mm	NR Band n12	A	7	0282M	15	DFT-S-OFDM	QPSK	36	22	25.5	24.33	0	-0.03	1:1	0.263	1.309	0.344	
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 11-64
NR Band n26 Hotspot SAR

MEASUREMENT RESULTS																						
FREQUENCY		Side	Spacing	Mode	Antenna Config	Tune State	Serial Number	Bandwidth [MHz]	Waveform	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPR [dB]	Power Drift [dB]	Duty Cycle	SAR (lg)	Scaling Factor	Reported SAR (lg)	Plot #	
MHz	Ch.																	(W/kg)		(W/kg)		
831.50	166300	Mid	back	10 mm	NR Band n26	A	139	0228M	20	DFT-S-OFDM	QPSK	1	1	25.5	23.78	0	0.00	1:1	0.397	1.486	0.590	A82
831.50	166300	Mid	back	10 mm	NR Band n26	A	139	0228M	20	DFT-S-OFDM	QPSK	50	28	25.5	23.83	0	0.02	1:1	0.415	1.469	0.610	
831.50	166300	Mid	back	10 mm	NR Band n26	A	0	0228M	20	CP-OFDM	QPSK	1	1	24.0	22.36	1.5	-0.05	1:1	0.302	1.459	0.441	
831.50	166300	Mid	front	10 mm	NR Band n26	A	0	0228M	20	DFT-S-OFDM	QPSK	1	1	25.5	23.78	0	0.03	1:1	0.362	1.486	0.538	
831.50	166300	Mid	front	10 mm	NR Band n26	A	0	0228M	20	DFT-S-OFDM	QPSK	50	28	25.5	23.83	0	0.02	1:1	0.340	1.469	0.499	
831.50	166300	Mid	bottom	10 mm	NR Band n26	A	0	0228M	20	DFT-S-OFDM	QPSK	1	1	25.5	23.78	0	-0.14	1:1	0.133	1.486	0.198	
831.50	166300	Mid	bottom	10 mm	NR Band n26	A	0	0228M	20	DFT-S-OFDM	QPSK	50	28	25.5	23.83	0	0.03	1:1	0.146	1.469	0.214	
831.50	166300	Mid	right	10 mm	NR Band n26	A	0	0228M	20	DFT-S-OFDM	QPSK	1	1	25.5	23.78	0	-0.02	1:1	0.403	1.486	0.599	
831.50	166300	Mid	right	10 mm	NR Band n26	A	0	0228M	20	DFT-S-OFDM	QPSK	50	28	25.5	23.83	0	0.01	1:1	0.388	1.469	0.570	
831.50	166300	Mid	left	10 mm	NR Band n26	A	0	0228M	20	DFT-S-OFDM	QPSK	1	1	25.5	23.78	0	0.16	1:1	0.407	1.486	0.605	
831.50	166300	Mid	left	10 mm	NR Band n26	A	0	0228M	20	DFT-S-OFDM	QPSK	50	28	25.5	23.83	0	0.01	1:1	0.342	1.469	0.502	
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 11-65
NR Band n66 Hotspot SAR

MEASUREMENT RESULTS																						
FREQUENCY		Side	Spacing	Mode	Antenna Config	Tune State	Serial Number	Bandwidth [MHz]	Waveform	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted SAR [dBm]	MPR [dB]	Power Drift [dB]	Duty Cycle	SAR [g]	Scaling Factor	Reported SAR [g]	Plot #	
MHz	Ch.																					
1745.00	349000	Mid	back	10 mm	NR Band n66	A	26	0289M	40	DFT-S-OFDM	QPSK	1	1	20.0	18.31	0	-0.01	1:1	0.373	1.476	0.551	
1745.00	349000	Mid	back	10 mm	NR Band n66	A	26	0289M	40	DFT-S-OFDM	QPSK	108	0	20.0	18.45	0	0.01	1:1	0.384	1.429	0.549	
1745.00	349000	Mid	front	10 mm	NR Band n66	A	26	0289M	40	DFT-S-OFDM	QPSK	1	1	20.0	18.31	0	-0.03	1:1	0.306	1.476	0.452	
1745.00	349000	Mid	front	10 mm	NR Band n66	A	26	0289M	40	DFT-S-OFDM	QPSK	108	0	20.0	18.45	0	-0.01	1:1	0.320	1.429	0.457	
1745.00	349000	Mid	bottom	10 mm	NR Band n66	A	17	0230M	40	DFT-S-OFDM	QPSK	1	1	20.0	18.31	0	0.07	1:1	0.788	1.476	1.163	
1745.00	349000	Mid	bottom	10 mm	NR Band n66	A	17	0230M	40	DFT-S-OFDM	QPSK	108	0	20.0	18.45	0	-0.02	1:1	0.810	1.429	1.157	
1745.00	349000	Mid	bottom	10 mm	NR Band n66	A	17	0230M	40	DFT-S-OFDM	QPSK	216	0	20.0	18.30	0	0.03	1:1	0.798	1.479	1.180	
1745.00	349000	Mid	bottom	10 mm	NR Band n66	A	17	0230M	40	CP-OFDM	QPSK	1	1	20.0	18.37	0	0.16	1:1	0.811	1.455	1.180	A63
1745.00	349000	Mid	right	10 mm	NR Band n66	A	23	0289M	40	DFT-S-OFDM	QPSK	1	1	20.0	18.31	0	-0.01	1:1	0.041	1.476	0.061	
1745.00	349000	Mid	right	10 mm	NR Band n66	A	23	0289M	40	DFT-S-OFDM	QPSK	108	0	20.0	18.45	0	0.02	1:1	0.042	1.429	0.060	
1745.00	349000	Mid	left	10 mm	NR Band n66	A	17	0289M	40	DFT-S-OFDM	QPSK	1	1	20.0	18.31	0	-0.05	1:1	0.085	1.476	0.125	
1745.00	349000	Mid	left	10 mm	NR Band n66	A	17	0289M	40	DFT-S-OFDM	QPSK	108	0	20.0	18.45	0	0.01	1:1	0.084	1.429	0.120	
1745.00	349000	Mid	back	10 mm	NR Band n66	F	N/A	0169M	40	DFT-S-OFDM	QPSK	1	1	21.5	21.07	0	-0.02	1:1	0.479	1.104	0.529	
1745.00	349000	Mid	back	10 mm	NR Band n66	F	N/A	0169M	40	DFT-S-OFDM	QPSK	108	54	21.5	21.07	0	-0.01	1:1	0.485	1.104	0.535	
1745.00	349000	Mid	front	10 mm	NR Band n66	F	N/A	0169M	40	DFT-S-OFDM	QPSK	1	1	21.5	21.07	0	-0.21	1:1	0.288	1.104	0.318	
1745.00	349000	Mid	front	10 mm	NR Band n66	F	N/A	0169M	40	DFT-S-OFDM	QPSK	108	54	21.5	21.07	0	0.01	1:1	0.310	1.104	0.342	
1745.00	349000	Mid	top	10 mm	NR Band n66	F	N/A	0169M	40	DFT-S-OFDM	QPSK	1	1	21.5	21.07	0	-0.12	1:1	0.718	1.104	0.793	
1745.00	349000	Mid	top	10 mm	NR Band n66	F	N/A	0169M	40	DFT-S-OFDM	QPSK	108	54	21.5	21.07	0	0.04	1:1	0.719	1.104	0.794	
1745.00	349000	Mid	top	10 mm	NR Band n66	F	N/A	0169M	40	CP-OFDM	QPSK	1	1	21.5	21.04	0	0.02	1:1	0.747	1.112	0.831	
1745.00	349000	Mid	left	10 mm	NR Band n66	F	N/A	0169M	40	DFT-S-OFDM	QPSK	1	1	21.5	21.07	0	0.03	1:1	0.193	1.104	0.213	
1745.00	349000	Mid	left	10 mm	NR Band n66	F	N/A	0169M	40	DFT-S-OFDM	QPSK	108	54	21.5	21.07	0	0.03	1:1	0.201	1.104	0.222	
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 11-66
NR Band n25 Hotspot SAR

MEASUREMENT RESULTS																						
FREQUENCY		Side	Spacing	Mode	Antenna Config	Tune State	Serial Number	Bandwidth [MHz]	Waveform	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPR [dB]	Power Drift [dB]	Duty Cycle	SAR (lg)	Scaling Factor	Reported SAR (lg)	Plot #	
MHz	Ch.																	(W/kg)		(W/kg)		
1882.50	376500	Mid	back	10 mm	NR Band n25	A	32	0233M	40	DFT-S-OFDM	QPSK	1	1	20.5	19.82	0	0.07	1:1	0.544	1.169	0.636	
1882.50	376500	Mid	back	10 mm	NR Band n25	A	32	0233M	40	DFT-S-OFDM	QPSK	108	0	20.5	19.89	0	-0.01	1:1	0.552	1.151	0.635	
1882.50	376500	Mid	front	10 mm	NR Band n25	A	32	0233M	40	DFT-S-OFDM	QPSK	1	1	20.5	19.82	0	-0.03	1:1	0.467	1.169	0.546	
1882.50	376500	Mid	front	10 mm	NR Band n25	A	32	0233M	40	DFT-S-OFDM	QPSK	108	0	20.5	19.89	0	0.06	1:1	0.436	1.151	0.502	
1882.50	376500	Mid	bottom	10 mm	NR Band n25	A	8	0229M	40	DFT-S-OFDM	QPSK	1	1	20.5	19.82	0	0.06	1:1	0.699	1.169	0.817	
1882.50	376500	Mid	bottom	10 mm	NR Band n25	A	8	0229M	40	DFT-S-OFDM	QPSK	108	0	20.5	19.89	0	-0.02	1:1	0.766	1.151	0.882	
1882.50	376500	Mid	bottom	10 mm	NR Band n25	A	25	0229M	40	DFT-S-OFDM	QPSK	216	0	20.5	19.81	0	0.06	1:1	0.785	1.172	0.920	A64
1882.50	376500	Mid	bottom	10 mm	NR Band n25	A	8	0229M	40	CP-OFDM	QPSK	1	1	20.5	19.86	0	0.01	1:1	0.726	1.159	0.841	
1882.50	376500	Mid	right	10 mm	NR Band n25	A	140	0233M	40	DFT-S-OFDM	QPSK	1	1	20.5	19.82	0	-0.07	1:1	0.042	1.169	0.049	
1882.50	376500	Mid	right	10 mm	NR Band n25	A	140	0233M	40	DFT-S-OFDM	QPSK	108	0	20.5	19.89	0	-0.09	1:1	0.043	1.151	0.049	
1882.50	376500	Mid	left	10 mm	NR Band n25	A	140	0233M	40	DFT-S-OFDM	QPSK	1	1	20.5	19.82	0	0.05	1:1	0.126	1.169	0.147	
1882.50	376500	Mid	left	10 mm	NR Band n25	A	140	0233M	40	DFT-S-OFDM	QPSK	108	0	20.5	19.89	0	0.03	1:1	0.117	1.151	0.135	
1882.50	376500	Mid	back	10 mm	NR Band n25	F	N/A	0242M	40	DFT-S-OFDM	QPSK	1	1	22.5	22.01	0	-0.06	1:1	0.133	1.119	0.149	
1882.50	376500	Mid	back	10 mm	NR Band n25	F	N/A	0242M	40	DFT-S-OFDM	QPSK	108	54	22.5	22.05	0	-0.01	1:1	0.126	1.109	0.140	
1882.50	376500	Mid	front	10 mm	NR Band n25	F	N/A	0242M	40	DFT-S-OFDM	QPSK	1	1	22.5	22.01	0	-0.03	1:1	0.121	1.119	0.135	
1882.50	376500	Mid	front	10 mm	NR Band n25	F	N/A	0242M	40	DFT-S-OFDM	QPSK	108	54	22.5	22.05	0	0.04	1:1	0.113	1.109	0.125	
1882.50	376500	Mid	top	10 mm	NR Band n25	F	N/A	0242M	40	DFT-S-OFDM	QPSK	1	1	22.5	22.01	0	0.09	1:1	0.299	1.119	0.335	
1882.50	376500	Mid	top	10 mm	NR Band n25	F	N/A	0242M	40	DFT-S-OFDM	QPSK	108	54	22.5	22.05	0	0.00	1:1	0.309	1.109	0.343	
1882.50	376500	Mid	top	10 mm	NR Band n25	F	N/A	0242M	40	CP-OFDM	QPSK	1	1	22.5	21.97	0	-0.01	1:1	0.313	1.130	0.354	
1882.50	376500	Mid	left	10 mm	NR Band n25	F	N/A	0242M	40	DFT-S-OFDM	QPSK	1	1	22.5	22.01	0	-0.06	1:1	0.063	1.119	0.070	
1882.50	376500	Mid	left	10 mm	NR Band n25	F	N/A	0242M	40	DFT-S-OFDM	QPSK	108	54	22.5	22.05	0	0.03	1:1	0.054	1.109	0.060	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT										Body												
Spatial Peak										1.6 W/kg (mW/g)												
Uncontrolled Exposure/General Population										averaged over 1 gram												

FCC ID: A3LSMS911U	SAR EVALUATION REPORT										Approved by: Technical Manager									
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Table 11-67
NR Band n30 Hotspot SAR

MEASUREMENT RESULTS																					
FREQUENCY		Side	Spacing	Mode	Antenna Config	Serial Number	Bandwidth [MHz]	Waveform	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPR [dB]	Power Drift [dB]	Duty Cycle	SAR [lg] (W/kg)	Scaling Factor	Reported SAR [lg] (W/kg)	Plot #	
MHz	Ch.																				
2310.00	462000	Mid	back	10 mm	NR Band n30	A	0282M	10	DFT-S-OFDM	QPSK	1	50	20.0	18.61	0	0.01	1:1	0.384	1.377	0.529	
2310.00	462000	Mid	back	10 mm	NR Band n30	A	0282M	10	DFT-S-OFDM	QPSK	25	14	20.0	18.71	0	0.20	1:1	0.389	1.346	0.524	
2310.00	462000	Mid	front	10 mm	NR Band n30	A	0282M	10	DFT-S-OFDM	QPSK	1	50	20.0	18.61	0	-0.01	1:1	0.399	1.377	0.549	
2310.00	462000	Mid	front	10 mm	NR Band n30	A	0282M	10	DFT-S-OFDM	QPSK	25	14	20.0	18.71	0	0.01	1:1	0.415	1.346	0.559	
2310.00	462000	Mid	bottom	10 mm	NR Band n30	A	0282M	10	DFT-S-OFDM	QPSK	1	50	20.0	18.61	0	0.01	1:1	0.898	1.377	1.237	A85
2310.00	462000	Mid	bottom	10 mm	NR Band n30	A	0282M	10	DFT-S-OFDM	QPSK	25	14	20.0	18.71	0	0.03	1:1	0.890	1.346	1.198	
2310.00	462000	Mid	bottom	10 mm	NR Band n30	A	0282M	10	DFT-S-OFDM	QPSK	50	0	20.0	18.60	0	0.00	1:1	0.895	1.380	1.235	
2310.00	462000	Mid	bottom	10 mm	NR Band n30	A	0282M	10	CP-OFDM	QPSK	1	1	20.0	18.52	0	0.03	1:1	0.876	1.406	1.232	
2310.00	462000	Mid	right	10 mm	NR Band n30	A	0282M	10	DFT-S-OFDM	QPSK	1	50	20.0	18.61	0	0.03	1:1	0.023	1.377	0.032	
2310.00	462000	Mid	right	10 mm	NR Band n30	A	0282M	10	DFT-S-OFDM	QPSK	25	14	20.0	18.71	0	0.03	1:1	0.024	1.346	0.032	
2310.00	462000	Mid	left	10 mm	NR Band n30	A	0282M	10	DFT-S-OFDM	QPSK	1	50	20.0	18.61	0	0.10	1:1	0.044	1.377	0.061	
2310.00	462000	Mid	left	10 mm	NR Band n30	A	0282M	10	DFT-S-OFDM	QPSK	25	14	20.0	18.71	0	0.05	1:1	0.043	1.346	0.058	
2310.00	462000	Mid	back	10 mm	NR Band n30	F	0169M	10	DFT-S-OFDM	QPSK	1	26	20.5	19.43	0	-0.05	1:1	0.241	1.279	0.308	
2310.00	462000	Mid	back	10 mm	NR Band n30	F	0169M	10	DFT-S-OFDM	QPSK	25	14	20.5	19.51	0	-0.03	1:1	0.244	1.256	0.306	
2310.00	462000	Mid	front	10 mm	NR Band n30	F	0169M	10	DFT-S-OFDM	QPSK	1	26	20.5	19.43	0	-0.08	1:1	0.191	1.279	0.244	
2310.00	462000	Mid	front	10 mm	NR Band n30	F	0169M	10	DFT-S-OFDM	QPSK	25	14	20.5	19.51	0	-0.06	1:1	0.199	1.256	0.250	
2310.00	462000	Mid	top	10 mm	NR Band n30	F	0169M	10	DFT-S-OFDM	QPSK	1	26	20.5	19.43	0	-0.10	1:1	0.454	1.279	0.581	
2310.00	462000	Mid	top	10 mm	NR Band n30	F	0169M	10	DFT-S-OFDM	QPSK	25	14	20.5	19.51	0	0.00	1:1	0.465	1.256	0.584	
2310.00	462000	Mid	top	10 mm	NR Band n30	F	0169M	10	CP-OFDM	QPSK	1	1	20.5	19.29	0	-0.04	1:1	0.464	1.321	0.613	
2310.00	462000	Mid	left	10 mm	NR Band n30	F	0169M	10	DFT-S-OFDM	QPSK	1	26	20.5	19.43	0	-0.14	1:1	0.035	1.279	0.045	
2310.00	462000	Mid	left	10 mm	NR Band n30	F	0169M	10	DFT-S-OFDM	QPSK	25	14	20.5	19.51	0	-0.10	1:1	0.036	1.256	0.045	
2310.00	462000	Mid	bottom	10 mm	NR Band n30	A	0282M	10	DFT-S-OFDM	QPSK	1	50	20.0	18.61	0	0.07	1:1	0.804	1.377	1.107	
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.

Table 11-68
NR Band n7 Hotspot SAR

MEASUREMENT RESULTS																					
FREQUENCY		Side	Spacing	Mode	Antenna Config	Serial Number	Bandwidth [MHz]	Waveform	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPR [dB]	Power Drift [dB]	Duty Cycle	SAR [lg]	Scaling Factor	Reported SAR [lg]	Plot #	
MHz	Ch.																(W/kg)		(W/kg)		
2535.00	507000	Mid	back	10 mm	NR Band n7	B	0230M	40	DFT-S-OFDM	QPSK	1	108	22.0	20.50	0	0.02	1:1	0.467	1.413	0.660	
2535.00	507000	Mid	back	10 mm	NR Band n7	B	0230M	40	DFT-S-OFDM	QPSK	108	54	22.0	20.68	0	0.12	1:1	0.477	1.355	0.646	
2535.00	507000	Mid	back	10 mm	NR Band n7	B	0230M	40	CP-OFDM	QPSK	1	1	22.0	20.97	0	0.02	1:1	0.409	1.268	0.519	
2535.00	507000	Mid	front	10 mm	NR Band n7	B	0230M	40	DFT-S-OFDM	QPSK	1	108	22.0	20.50	0	0.09	1:1	0.317	1.413	0.448	
2535.00	507000	Mid	front	10 mm	NR Band n7	B	0230M	40	DFT-S-OFDM	QPSK	108	54	22.0	20.68	0	0.20	1:1	0.328	1.355	0.444	
2535.00	507000	Mid	bottom	10 mm	NR Band n7	B	0230M	40	DFT-S-OFDM	QPSK	1	108	22.0	20.50	0	-0.01	1:1	0.376	1.413	0.531	
2535.00	507000	Mid	bottom	10 mm	NR Band n7	B	0230M	40	DFT-S-OFDM	QPSK	108	54	22.0	20.68	0	-0.02	1:1	0.370	1.395	0.501	
2535.00	507000	Mid	left	10 mm	NR Band n7	B	0230M	40	DFT-S-OFDM	QPSK	1	108	22.0	20.50	0	0.04	1:1	0.333	1.413	0.471	
2535.00	507000	Mid	left	10 mm	NR Band n7	B	0230M	40	DFT-S-OFDM	QPSK	108	54	22.0	20.68	0	-0.02	1:1	0.327	1.355	0.443	
2535.00	507000	Mid	back	10 mm	NR Band n7	F	0169M	40	DFT-S-OFDM	QPSK	1	1	21.0	20.15	0	0.04	1:1	0.277	1.216	0.337	
2535.00	507000	Mid	back	10 mm	NR Band n7	F	0169M	40	DFT-S-OFDM	QPSK	108	0	21.0	20.23	0	0.01	1:1	0.274	1.194	0.327	
2535.00	507000	Mid	front	10 mm	NR Band n7	F	0169M	40	DFT-S-OFDM	QPSK	1	1	21.0	20.15	0	0.03	1:1	0.185	1.216	0.225	
2535.00	507000	Mid	front	10 mm	NR Band n7	F	0169M	40	DFT-S-OFDM	QPSK	108	0	21.0	20.23	0	0.00	1:1	0.188	1.194	0.224	
2535.00	507000	Mid	top	10 mm	NR Band n7	F	0169M	40	DFT-S-OFDM	QPSK	1	1	21.0	20.15	0	-0.01	1:1	0.438	1.216	0.533	
2535.00	507000	Mid	top	10 mm	NR Band n7	F	0169M	40	DFT-S-OFDM	QPSK	108	0	21.0	20.23	0	0.02	1:1	0.395	1.194	0.472	
2535.00	507000	Mid	top	10 mm	NR Band n7	F	0169M	40	CP-OFDM	QPSK	1	1	21.0	20.15	0	0.11	1:1	0.480	1.216	0.584	A86
2535.00	507000	Mid	left	10 mm	NR Band n7	F	0169M	40	DFT-S-OFDM	QPSK	1	1	21.0	20.15	0	0.21	1:1	0.044	1.216	0.054	
2535.00	507000	Mid	left	10 mm	NR Band n7	F	0169M	40	DFT-S-OFDM	QPSK	108	0	21.0	20.23	0	-0.01	1:1	0.042	1.194	0.050	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population										Body 1.6 W/kg (mW/g) averaged over 1 gram											

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Table 11-69
NR Band n41 Hotspot SAR

MEASUREMENT RESULTS																						
FREQUENCY		Side	Spacing	Mode	Antenna Config	Path	Serial Number	Bandwidth [MHz]	Waveform	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPR [dB]	Power Drift [dB]	Duty Cycle	SAR (lg) (W/kg)	Scaling Factor	Reported SAR (lg) (W/kg)	Plot #	
MHz	Ch.																					
2592.99	518598	Mid	back	10 mm	NR Band n41	F	Path 1	0387M	100	DFT-S-OFDM	QPSK	1	137	20.5	19.56	0	0.11	1:1	0.205	1.242	0.255	
2592.99	518598	Mid	back	10 mm	NR Band n41	F	Path 1	0387M	100	DFT-S-OFDM	QPSK	135	69	20.5	19.58	0	0.04	1:1	0.217	1.236	0.268	
2592.99	518598	Mid	front	10 mm	NR Band n41	F	Path 1	0387M	100	DFT-S-OFDM	QPSK	1	137	20.5	19.56	0	0.09	1:1	0.153	1.242	0.190	
2592.99	518598	Mid	front	10 mm	NR Band n41	F	Path 1	0387M	100	DFT-S-OFDM	QPSK	135	69	20.5	19.58	0	-0.13	1:1	0.160	1.236	0.198	
2592.99	518598	Mid	top	10 mm	NR Band n41	F	Path 1	0387M	100	DFT-S-OFDM	QPSK	1	137	20.5	19.56	0	-0.10	1:1	0.349	1.242	0.433	
2592.99	518598	Mid	top	10 mm	NR Band n41	F	Path 1	0387M	100	DFT-S-OFDM	QPSK	135	69	20.5	19.58	0	0.05	1:1	0.368	1.236	0.455	
2592.99	518598	Mid	top	10 mm	NR Band n41	F	Path 1	0387M	100	CP-OFDM	QPSK	1	1	20.5	19.44	0	0.01	1:1	0.365	1.276	0.466	
2592.99	518598	Mid	left	10 mm	NR Band n41	F	Path 1	0387M	100	DFT-S-OFDM	QPSK	1	137	20.5	19.56	0	0.18	1:1	0.037	1.242	0.046	
2592.99	518598	Mid	left	10 mm	NR Band n41	F	Path 1	0387M	100	DFT-S-OFDM	QPSK	135	69	20.5	19.58	0	0.04	1:1	0.037	1.236	0.046	
2592.99	518598	Mid	top	10 mm	NR Band n41	F	Path 2	0387M	100	CW/SRS	N/A	N/A	N/A	17.5	16.02	N/A	-0.01	1:1	0.214	1.406	0.301	
2592.99	518598	Mid	back	10 mm	NR Band n41	B	Path 2	0387M	100	DFT-s-OFDM	QPSK	1	1	22.0	21.44	0	0.06	1:1	0.401	1.138	0.456	
2592.99	518598	Mid	back	10 mm	NR Band n41	B	Path 2	0387M	100	DFT-s-OFDM	QPSK	135	0	22.0	21.41	0	-0.10	1:1	0.413	1.146	0.473	
2592.99	518598	Mid	front	10 mm	NR Band n41	B	Path 2	0387M	100	DFT-s-OFDM	QPSK	1	1	22.0	21.44	0	-0.05	1:1	0.321	1.138	0.365	
2592.99	518598	Mid	front	10 mm	NR Band n41	B	Path 2	0387M	100	DFT-s-OFDM	QPSK	135	0	22.0	21.41	0	-0.11	1:1	0.286	1.146	0.328	
2592.99	518598	Mid	bottom	10 mm	NR Band n41	B	Path 2	0387M	100	DFT-s-OFDM	QPSK	1	1	22.0	21.44	0	0.03	1:1	0.642	1.138	0.731	
2592.99	518598	Mid	bottom	10 mm	NR Band n41	B	Path 2	0387M	100	DFT-s-OFDM	QPSK	135	0	22.0	21.41	0	0.04	1:1	0.548	1.146	0.628	
2592.99	518598	Mid	bottom	10 mm	NR Band n41	B	Path 2	0387M	100	DFT-s-OFDM	QPSK	270	0	22.0	21.25	0	-0.05	1:1	0.507	1.189	0.603	
2592.99	518598	Mid	bottom	10 mm	NR Band n41	B	Path 2	0387M	100	CP-OFDM	QPSK	1	1	22.0	21.32	0	0.02	1:1	0.652	1.169	0.762	A87
2592.99	518598	Mid	left	10 mm	NR Band n41	B	Path 2	0387M	100	DFT-s-OFDM	QPSK	1	1	22.0	21.44	0	0.08	1:1	0.264	1.138	0.300	
2592.99	518598	Mid	left	10 mm	NR Band n41	B	Path 2	0387M	100	DFT-s-OFDM	QPSK	135	0	22.0	21.41	0	-0.07	1:1	0.283	1.146	0.324	
2592.99	518598	Mid	bottom	10 mm	NR Band n41	B	Path 1	0387M	100	CW/SRS	N/A	N/A	N/A	16.5	15.62	N/A	-0.08	1:1	0.224	1.225	0.274	
2592.99	518598	Mid	back	10 mm	NR Band n41	E	Path 1	0360M	100	CW/SRS	N/A	N/A	N/A	19.0	18.02	N/A	0.14	1:1	0.069	1.253	0.086	
2592.99	518598	Mid	front	10 mm	NR Band n41	E	Path 1	0360M	100	CW/SRS	N/A	N/A	N/A	19.0	18.02	N/A	0.15	1:1	0.063	1.253	0.079	
2592.99	518598	Mid	top	10 mm	NR Band n41	E	Path 1	0360M	100	CW/SRS	N/A	N/A	N/A	19.0	18.02	N/A	-0.06	1:1	0.068	1.253	0.085	
2592.99	518598	Mid	right	10 mm	NR Band n41	E	Path 1	0360M	100	CW/SRS	N/A	N/A	N/A	19.0	18.02	N/A	0.07	1:1	0.048	1.253	0.060	
2592.99	518598	Mid	back	10 mm	NR Band n41	E	Path 2	0387M	100	CW/SRS	N/A	N/A	N/A	16.5	15.25	N/A	0.18	1:1	0.043	1.334	0.057	
2592.99	518598	Mid	back	10 mm	NR Band n41	D	Path 2	0360M	100	CW/SRS	N/A	N/A	N/A	18.0	17.10	N/A	0.16	1:1	0.137	1.230	0.169	
2592.99	518598	Mid	front	10 mm	NR Band n41	D	Path 2	0360M	100	CW/SRS	N/A	N/A	N/A	18.0	17.10	N/A	0.16	1:1	0.011	1.230	0.014	
2592.99	518598	Mid	bottom	10 mm	NR Band n41	D	Path 2	0360M	100	CW/SRS	N/A	N/A	N/A	18.0	17.10	N/A	0.19	1:1	0.029	1.230	0.036	
2592.99	518598	Mid	right	10 mm	NR Band n41	D	Path 2	0360M	100	CW/SRS	N/A	N/A	N/A	18.0	17.10	N/A	0.19	1:1	0.009	1.230	0.011	
2592.99	518598	Mid	back	10 mm	NR Band n41	D	Path 1	0387M	100	CW/SRS	N/A	N/A	N/A	13.5	12.94	N/A	0.15	1:1	0.050	1.138	0.057	
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: Light Purple entries indicate the additional check on the worst case exposure scenario for the n41 pathway that is not fully evaluated.

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Table 11-70
NR Band n48 Hotspot SAR

MEASUREMENT RESULTS																					
FREQUENCY		Side	Spacing	Mode	Antenna Config	Serial Number	Bandwidth [MHz]	Waveform	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPR [dB]	Power Drift [dB]	Duty Cycle	SAR [μg] (W/kg)	Scaling Factor	Reported SAR [μg] (W/kg)	Plot #	
MHz	Ch.																				
3624.99	641666	Mid	back	10 mm	NR Band n48	F	0275M	40	DFT-S-OFDM	QPSK	1	53	20.0	18.96	0	0.00	1:1	0.366	1.271	0.465	A88
3624.99	641666	Mid	back	10 mm	NR Band n48	F	0275M	40	DFT-S-OFDM	QPSK	50	0	20.0	18.86	0	-0.02	1:1	0.350	1.300	0.455	
3624.99	641666	Mid	back	10 mm	NR Band n48	F	0275M	40	CP-OFDM	QPSK	1	1	20.0	18.93	0	0.02	1:1	0.337	1.279	0.431	
3624.99	641666	Mid	front	10 mm	NR Band n48	F	0176M	40	DFT-S-OFDM	QPSK	1	53	20.0	18.96	0	-0.13	1:1	0.110	1.271	0.140	
3624.99	641666	Mid	front	10 mm	NR Band n48	F	0176M	40	DFT-S-OFDM	QPSK	50	0	20.0	18.86	0	-0.10	1:1	0.152	1.300	0.198	
3624.99	641666	Mid	top	10 mm	NR Band n48	F	0176M	40	DFT-S-OFDM	QPSK	1	53	20.0	18.96	0	0.05	1:1	0.264	1.271	0.336	
3624.99	641666	Mid	top	10 mm	NR Band n48	F	0176M	40	DFT-S-OFDM	QPSK	50	0	20.0	18.86	0	0.00	1:1	0.275	1.300	0.358	
3624.99	641666	Mid	left	10 mm	NR Band n48	F	0176M	40	DFT-S-OFDM	QPSK	1	53	20.0	18.96	0	-0.13	1:1	0.065	1.271	0.083	
3624.99	641666	Mid	left	10 mm	NR Band n48	F	0176M	40	DFT-S-OFDM	QPSK	50	0	20.0	18.86	0	-0.01	1:1	0.069	1.300	0.090	
3570.00	638000	Low	back	10 mm	NR Band n48	C	0176M	40	CW/SRS	N/A	N/A	N/A	16.5	15.67	N/A	-0.19	1:1	0.068	1.211	0.082	
3570.00	638000	Low	front	10 mm	NR Band n48	C	0176M	40	CW/SRS	N/A	N/A	N/A	16.5	15.67	N/A	0.03	1:1	0.045	1.211	0.054	
3570.00	638000	Low	bottom	10 mm	NR Band n48	C	0176M	40	CW/SRS	N/A	N/A	N/A	16.5	15.67	N/A	0.02	1:1	0.048	1.211	0.058	
3570.00	638000	Low	left	10 mm	NR Band n48	C	0176M	40	CW/SRS	N/A	N/A	N/A	16.5	15.67	N/A	-0.08	1:1	0.074	1.211	0.090	
3570.00	638000	Low	back	10 mm	NR Band n48	I	0176M	40	CW/SRS	N/A	N/A	N/A	16.5	15.85	N/A	-0.02	1:1	0.115	1.161	0.134	
3570.00	638000	Low	front	10 mm	NR Band n48	I	0176M	40	CW/SRS	N/A	N/A	N/A	16.5	15.85	N/A	-0.06	1:1	0.079	1.161	0.092	
3570.00	638000	Low	top	10 mm	NR Band n48	I	0176M	40	CW/SRS	N/A	N/A	N/A	16.5	15.85	N/A	0.06	1:1	0.004	1.161	0.005	
3570.00	638000	Low	left	10 mm	NR Band n48	I	0176M	40	CW/SRS	N/A	N/A	N/A	16.5	15.85	N/A	0.02	1:1	0.029	1.161	0.034	
3570.00	638000	Low	back	10 mm	NR Band n48	D	0176M	40	CW/SRS	N/A	N/A	N/A	14.5	13.92	N/A	0.06	1:1	0.175	1.143	0.200	
3570.00	638000	Low	front	10 mm	NR Band n48	D	0176M	40	CW/SRS	N/A	N/A	N/A	14.5	13.92	N/A	0.04	1:1	0.011	1.143	0.013	
3570.00	638000	Low	bottom	10 mm	NR Band n48	D	0176M	40	CW/SRS	N/A	N/A	N/A	14.5	13.92	N/A	0.03	1:1	0.041	1.143	0.047	
3570.00	638000	Low	right	10 mm	NR Band n48	D	0263M	40	CW/SRS	N/A	N/A	N/A	14.5	13.92	N/A	0.06	1:1	0.008	1.143	0.009	
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 11-71
NR Band n77 Hotspot SAR

MEASUREMENT RESULTS																					
FREQUENCY		Side	Spacing	Mode	Antenna Config	Serial Number	Bandwidth [MHz]	Waveform	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPR [dB]	Power Drift [dB]	Duty Cycle	SAR [1g] (W/kg)	Scaling Factor	Reported SAR [1g] (W/kg)	Plot #	
MHz	Ch.																				
3500.01	633334	Mid	back	10 mm	NR Band n77 DoD	F	0176M	100	DFT-S-OFDM	QPSK	1	1	18.0	17.32	0.5	-0.09	1:1	0.190	1.169	0.222	A89
3500.01	633334	Mid	left	10 mm	NR Band n77 DoD	C	0176M	100	CW/SRS	N/A	N/A	N/A	14.0	13.88	N/A	0.02	1:1	0.037	1.028	0.038	
3500.01	633334	Mid	back	10 mm	NR Band n77 DoD	I	0176M	100	CW/SRS	N/A	N/A	N/A	14.5	13.81	N/A	-0.17	1:1	0.071	1.172	0.083	
3500.01	633334	Mid	back	10 mm	NR Band n77 DoD	D	0176M	100	CW/SRS	N/A	N/A	N/A	12.5	12.41	N/A	0.00	1:1	0.128	1.021	0.131	
3750.00	650000	Low	back	10 mm	NR Band n77	F	0176M	100	DFT-S-OFDM	QPSK	1	271	18.0	17.69	0	-0.01	1:1	0.472	1.074	0.507	
3930.00	662000	High	back	10 mm	NR Band n77	F	0176M	100	DFT-S-OFDM	QPSK	1	137	18.0	18.00	0	0.03	1:1	0.378	1.000	0.378	
3750.00	650000	Low	back	10 mm	NR Band n77	F	0176M	100	DFT-S-OFDM	QPSK	135	0	18.0	17.64	0	-0.01	1:1	0.373	1.086	0.405	
3930.00	662000	High	back	10 mm	NR Band n77	F	0176M	100	DFT-S-OFDM	QPSK	135	69	18.0	17.71	0	0.07	1:1	0.408	1.069	0.436	
3930.00	662000	High	back	10 mm	NR Band n77	F	0176M	100	DFT-S-OFDM	QPSK	270	0	18.0	17.69	0	0.05	1:1	0.474	1.074	0.509	A90
3930.00	662000	High	back	10 mm	NR Band n77	F	0176M	100	CP-OFDM	QPSK	1	1	18.0	17.48	0	-0.01	1:1	0.321	1.127	0.362	
3930.00	662000	High	front	10 mm	NR Band n77	F	0176M	100	DFT-S-OFDM	QPSK	1	137	18.0	18.00	0	0.05	1:1	0.097	1.000	0.097	
3930.00	662000	High	front	10 mm	NR Band n77	F	0176M	100	DFT-S-OFDM	QPSK	135	69	18.0	17.71	0	-0.16	1:1	0.088	1.069	0.094	
3930.00	662000	High	top	10 mm	NR Band n77	F	0176M	100	DFT-S-OFDM	QPSK	1	137	18.0	18.00	0	-0.08	1:1	0.104	1.000	0.104	
3930.00	662000	High	top	10 mm	NR Band n77	F	0176M	100	DFT-S-OFDM	QPSK	135	69	18.0	17.71	0	-0.06	1:1	0.108	1.069	0.115	
3930.00	662000	High	left	10 mm	NR Band n77	F	0176M	100	DFT-S-OFDM	QPSK	1	137	18.0	18.00	0	0.03	1:1	0.033	1.000	0.033	
3930.00	662000	High	left	10 mm	NR Band n77	F	0176M	100	DFT-S-OFDM	QPSK	135	69	18.0	17.71	0	0.04	1:1	0.037	1.069	0.040	
3750.00	650000	Low	back	10 mm	NR Band n77	C	0176M	100	CW/SRS	N/A	N/A	N/A	14.0	13.35	N/A	0.05	1:1	0.021	1.161	0.024	
3750.00	650000	Low	front	10 mm	NR Band n77	C	0176M	100	CW/SRS	N/A	N/A	N/A	14.0	13.35	N/A	0.05	1:1	0.020	1.161	0.023	
3750.00	650000	Low	bottom	10 mm	NR Band n77	C	0176M	100	CW/SRS	N/A	N/A	N/A	14.0	13.35	N/A	0.01	1:1	0.016	1.161	0.019	
3750.00	650000	Low	left	10 mm	NR Band n77	C	0176M	100	CW/SRS	N/A	N/A	N/A	14.0	13.35	N/A	-0.08	1:1	0.030	1.161	0.035	
3930.00	662000	High	back	10 mm	NR Band n77	I	0176M	100	CW/SRS	N/A	N/A	N/A	14.5	13.60	N/A	0.04	1:1	0.040	1.230	0.049	
3930.00	662000	High	front	10 mm	NR Band n77	I	0176M	100	CW/SRS	N/A	N/A	N/A	14.5	13.60	N/A	0.04	1:1	0.031	1.230	0.038	
3930.00	662000	High	top	10 mm	NR Band n77	I	0176M	100	CW/SRS	N/A	N/A	N/A	14.5	13.60	N/A	0.01	1:1	0.002	1.230	0.002	
3930.00	662000	High	left	10 mm	NR Band n77	I	0176M	100	CW/SRS	N/A	N/A	N/A	14.5	13.60	N/A	0.01	1:1	0.012	1.230	0.015	
3930.00	662000	High	back	10 mm	NR Band n77	D	0176M	100	CW/SRS	N/A	N/A	N/A	12.5	11.63	N/A	0.01	1:1	0.110	1.222	0.134	
3930.00	662000	High	front	10 mm	NR Band n77	D	0176M	100	CW/SRS	N/A	N/A	N/A	12.5	11.63	N/A	0.03	1:1	0.003	1.222	0.004	
3930.00	662000	High	bottom	10 mm	NR Band n77	D	0176M	100	CW/SRS	N/A	N/A	N/A	12.5	11.63	N/A	0.06	1:1	0.013	1.222	0.016	
3930.00	662000	High	right	10 mm	NR Band n77	D	0176M	100	CW/SRS	N/A	N/A	N/A	12.5	11.63	N/A	0.01	1:1	0.005	1.222	0.006	
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 11-72
DTS SISO WLAN Hotspot SAR

MEASUREMENT RESULTS																			
FREQUENCY		Side	Spacing	Mode	Service	Antenna Config.	Device Serial Number	Bandwidth [MHz]	Data Rate (Mbps)	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Maximum Duty Cycle (%)	Duty Cycle (%)	SAR (1g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot #
MHz	Ch.														(W/kg)			(W/kg)	
2462	11	back	10 mm	802.11b	DSSS	2	0202M	22	1	19.0	18.89	-0.02	100.00	98.89	0.125	1.026	1.011	0.130	
2462	11	front	10 mm	802.11b	DSSS	2	0202M	22	1	19.0	18.89	-0.05	100.00	98.89	0.169	1.026	1.011	0.175	
2462	11	top	10 mm	802.11b	DSSS	2	0202M	22	1	19.0	18.89	0.09	100.00	98.89	0.006	1.026	1.011	0.006	
2462	11	right	10 mm	802.11b	DSSS	2	0202M	22	1	19.0	18.89	0.05	100.00	98.89	0.064	1.026	1.011	0.066	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population											Body 1.6 W/kg (mW/g) averaged over 1 gram								

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Table 11-73
DTS MIMO WLAN Hotspot SAR

MEASUREMENT RESULTS																					
FREQUENCY		Side	Spacing	Mode	Service	Antenna Config.	Device Serial Number	Bandwidth [MHz]	Data Rate [Mbps]	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]	Maximum Duty Cycle (%)	Duty Cycle (%)	SAR (1g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot
MHz	Ch.																(W/kg)			(W/kg)	
2412	1	back	10 mm	802.11b	DSSS	MIMO	0219M	22	1	19.0	18.76	19.0	18.53	0.00	100.00	98.72	0.354	1.114	1.013	0.399	A91
2437	6	back	10 mm	802.11b	DSSS	MIMO	0219M	22	1	19.0	18.44	19.0	18.46	-0.07	100.00	98.72	0.331	1.138	1.013	0.382	
2462	11	back	10 mm	802.11b	DSSS	MIMO	0219M	22	1	19.0	18.62	19.0	18.65	-0.01	100.00	98.72	0.307	1.091	1.013	0.339	
2412	1	front	10 mm	802.11b	DSSS	MIMO	0219M	22	1	19.0	18.76	19.0	18.53	0.01	100.00	98.72	0.352	1.114	1.013	0.397	
2437	6	front	10 mm	802.11b	DSSS	MIMO	0219M	22	1	19.0	18.44	19.0	18.46	-0.01	100.00	98.72	0.301	1.138	1.013	0.347	
2462	11	front	10 mm	802.11b	DSSS	MIMO	0219M	22	1	19.0	18.62	19.0	18.65	0.00	100.00	98.72	0.278	1.091	1.013	0.307	
2412	1	top	10 mm	802.11b	DSSS	MIMO	0219M	22	1	19.0	18.76	19.0	18.53	0.18	100.00	98.72	0.130	1.114	1.013	0.147	
2412	1	right	10 mm	802.11b	DSSS	MIMO	0219M	22	1	19.0	18.76	19.0	18.53	-0.12	100.00	98.72	0.112	1.114	1.013	0.126	
2412	1	left	10 mm	802.11b	DSSS	MIMO	0219M	22	1	19.0	18.76	19.0	18.53	0.05	100.00	98.72	0.284	1.114	1.013	0.320	
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 11-74
DTS Hotspot MIMO SAR during Conditions with 5G NR

MEASUREMENT RESULTS																					
FREQUENCY		Side	Spacing	Mode	Service	Antenna Config.	Device Serial Number	Bandwidth [MHz]	Data Rate (Mbps)	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]	Maximum Duty Cycle (%)	Duty Cycle (%)	SAR (1g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot #
MHz	Ch.																(W/kg)			(W/kg)	
2437	6	back	10 mm	802.11n	OFDM	MIMO	0219M	20	13	17.0	17.00	17.0	16.58	-0.03	100.00	92.33	0.193	1.102	1.083	0.230	
2437	6	front	10 mm	802.11n	OFDM	MIMO	0219M	20	13	17.0	17.00	17.0	16.58	-0.08	100.00	92.33	0.174	1.102	1.083	0.208	
2437	6	top	10 mm	802.11n	OFDM	MIMO	0219M	20	13	17.0	17.00	17.0	16.58	-0.18	100.00	92.33	0.077	1.102	1.083	0.092	
2437	6	right	10 mm	802.11n	OFDM	MIMO	0219M	20	13	17.0	17.00	17.0	16.58	-0.02	100.00	92.33	0.052	1.102	1.083	0.062	
2437	6	left	10 mm	802.11n	OFDM	MIMO	0219M	20	13	17.0	17.00	17.0	16.58	-0.15	100.00	92.33	0.193	1.102	1.083	0.230	
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 20.0 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 17.0 dBm

Table 11-75
DTS Hotspot MIMO SAR during Conditions with 5/6 GHz WLAN

MEASUREMENT RESULTS																							
FREQUENCY		Side	Spacing	Mode	Service	Antenna Config.	Device Serial Number	Bandwidth [MHz]	Data Rate (Mbps)	Maximum Allowed Power (Ant 1) [dBm]	Conducted Power (Ant 1) [dBm]	Maximum Allowed Power (Ant 2) [dBm]	Conducted Power (Ant 2) [dBm]	Power Drip [dB]	Maximum Duty Cycle (%)	Duty Cycle (%)	SAR (1g)		Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)		Plot #
MHz	Ch.																(W/kg)	(W/kg)			(W/kg)		
2412	1	back	10 mm	802.11n	OFDM	MIMO	0219M	20	13	13.0	12.76	13.0	12.74	-0.11	100.00	92.33	0.061	1.062	1.083	0.070			
2412	1	front	10 mm	802.11n	OFDM	MIMO	0219M	20	13	13.0	12.76	13.0	12.74	0.04	100.00	92.33	0.055	1.062	1.083	0.063			
2412	1	top	10 mm	802.11n	OFDM	MIMO	0219M	20	13	13.0	12.76	13.0	12.74	0.01	100.00	92.33	0.021	1.062	1.083	0.024			
2412	1	right	10 mm	802.11n	OFDM	MIMO	0219M	20	13	13.0	12.76	13.0	12.74	-0.05	100.00	92.33	0.014	1.062	1.083	0.016			
2412	1	left	10 mm	802.11n	OFDM	MIMO	0219M	20	13	13.0	12.76	13.0	12.74	0.08	100.00	92.33	0.067	1.062	1.083	0.077			
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 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 11-76
NII MIMO WLAN Hotspot SAR

MEASUREMENT RESULTS																					
FREQUENCY		Side	Spacing	Mode	Service	Antenna Config.	Device Serial Number	Bandwidth [MHz]	Data Rate (Mbps)	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]	Maximum Duty Cycle (%)	Duty Cycle (%)	SAR (1g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot #
MHz	Ch.																(W/kg)			(W/kg)	
5745	149	back	10 mm	802.11n	OFDM	MIMO	0237M	20	13	18.0	17.66	18.0	16.72	0.05	100.00	92.79	0.343	1.343	1.078	0.497	
5745	149	front	10 mm	802.11n	OFDM	MIMO	0219M	20	13	18.0	17.66	18.0	16.72	0.05	100.00	92.79	0.069	1.343	1.078	0.100	
5745	149	top	10 mm	802.11n	OFDM	MIMO	0219M	20	13	18.0	17.66	18.0	16.72	0.14	100.00	92.79	0.159	1.343	1.078	0.230	
5745	149	right	10 mm	802.11n	OFDM	MIMO	0219M	20	13	18.0	17.66	18.0	16.72	0.20	100.00	92.79	0.032	1.343	1.078	0.046	
5745	149	left	10 mm	802.11n	OFDM	MIMO	0219M	20	13	18.0	17.66	18.0	16.72	0.18	100.00	92.79	0.352	1.343	1.078	0.510	A92
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 11-77
NII MIMO Hotspot SAR during Conditions with NR or 2.4 GHz

MEASUREMENT RESULTS																					
FREQUENCY		Side	Spacing	Mode	Service	Antenna Config.	Device Serial Number	Bandwidth [MHz]	Data Rate [Mbps]	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]	Maximum Duty Cycle (%)	Duty Cycle (%)	SAR (1g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot #
MHz	Ch.																(W/kg)			(W/kg)	
5775	155	back	10 mm	802.11ac	OFDM	MIMO	0232M	80	58.5	14.0	13.50	14.0	13.74	0.20	100.00	92.39	0.148	1.122	1.082	0.180	
5775	155	front	10 mm	802.11ac	OFDM	MIMO	0232M	80	58.5	14.0	13.50	14.0	13.74	0.20	100.00	92.39	0.022	1.122	1.082	0.027	
5775	155	top	10 mm	802.11ac	OFDM	MIMO	0232M	80	58.5	14.0	13.50	14.0	13.74	0.01	100.00	92.39	0.055	1.122	1.082	0.067	
5775	155	right	10 mm	802.11ac	OFDM	MIMO	0232M	80	58.5	14.0	13.50	14.0	13.74	0.07	100.00	92.39	0.007	1.122	1.082	0.008	
5775	155	left	10 mm	802.11ac	OFDM	MIMO	0232M	80	58.5	14.0	13.50	14.0	13.74	0.03	100.00	92.39	0.117	1.122	1.082	0.142	
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 17.0 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 14.0 dBm

Table 11-78
DSS Hotspot SAR

MEASUREMENT RESULTS																		
FREQUENCY		Side	Spacing	Mode	Service	Antenna Config.	Device Serial Number	Data Rate (Mbps)	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Maximum Duty Cycle (%)	Duty Cycle (%)	SAR (1g)	Scaling Factor (Cond Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g) (W/kg)	Plot #
MHz	Ch.													(W/kg)				
2441	39	back	10 mm	Bluetooth	FHSS	1	0232M	1	15.5	14.39	0.02	78.00	76.80	0.048	1.291	1.016	0.063	
2441	39	front	10 mm	Bluetooth	FHSS	1	0232M	1	15.5	14.39	-0.18	78.00	76.80	0.070	1.291	1.016	0.092	
2441	39	top	10 mm	Bluetooth	FHSS	1	0232M	1	15.5	14.39	0.02	78.00	76.80	0.036	1.291	1.016	0.047	
2441	39	left	10 mm	Bluetooth	FHSS	1	0232M	1	15.5	14.39	-0.02	78.00	76.80	0.100	1.291	1.016	0.131	A93
2402	0	left	10 mm	Bluetooth LE	DSSS	1	0210M	1	15.5	14.99	-0.04	87.00	85.40	0.017	1.125	1.019	0.019	
2402	0	back	10 mm	Bluetooth	FHSS	2	0232M	1	15.5	14.60	0.02	78.00	76.80	0.020	1.230	1.016	0.025	
2402	0	front	10 mm	Bluetooth	FHSS	2	0232M	1	15.5	14.60	-0.02	78.00	76.80	0.026	1.230	1.016	0.032	
2402	0	front	10 mm	Bluetooth LE	DSSS	2	0210M	1	15.5	15.02	0.13	87.00	85.80	0.007	1.117	1.014	0.008	
2402	0	top	10 mm	Bluetooth	FHSS	2	0232M	1	15.5	14.60	-0.13	78.00	76.80	0.000	1.230	1.016	0.000	
2402	0	right	10 mm	Bluetooth	FHSS	2	0232M	1	15.5	14.60	0.07	78.00	76.80	0.006	1.230	1.016	0.007	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population											Body 1.6 W/kg (mW/g) averaged over 1 gram							

Light green entries indicate the additional check on the worst case exposure scenario for BT LE that is not fully evaluated.

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11.4 Standalone Phablet SAR Data

Table 11-79
UMTS Phablet SAR Data

MEASUREMENT RESULTS																
FREQUENCY		Side	Spacing	Mode	Service	Antenna Config.	Tune State	Device Serial Number	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Duty Cycle	SAR (10g)	Scaling Factor	Reported SAR (10g)	Plot #
MHz	Ch.												(W/kg)		(W/kg)	
1732.40	1412	back	8 mm	UMTS 1750	RMC	A	23	0244M	24.0	23.31	-0.01	1:1	0.749	1.172	0.878	
1732.40	1412	front	6 mm	UMTS 1750	RMC	A	17	0244M	24.0	23.31	-0.01	1:1	0.836	1.172	0.980	
1732.40	1412	bottom	11 mm	UMTS 1750	RMC	A	23	0244M	24.0	23.31	-0.01	1:1	0.746	1.172	0.874	
1732.40	1412	right	0 mm	UMTS 1750	RMC	A	32	0244M	24.0	23.31	-0.06	1:1	0.257	1.172	0.301	
1732.40	1412	left	0 mm	UMTS 1750	RMC	A	17	0244M	24.0	23.31	-0.09	1:1	0.420	1.172	0.492	
1712.40	1312	back	0 mm	UMTS 1750	RMC	A	136	0250M	22.0	21.81	-0.06	1:1	2.480	1.045	2.592	
1732.40	1412	back	0 mm	UMTS 1750	RMC	A	136	0250M	22.0	21.78	0.01	1:1	2.320	1.052	2.441	
1752.60	1513	back	0 mm	UMTS 1750	RMC	A	16	0250M	22.0	21.70	-0.05	1:1	2.390	1.072	2.562	
1712.40	1312	front	0 mm	UMTS 1750	RMC	A	136	0250M	22.0	21.81	-0.02	1:1	1.880	1.045	1.965	
1712.40	1312	bottom	0 mm	UMTS 1750	RMC	A	136	0250M	22.0	21.81	0.02	1:1	2.880	1.045	3.010	A94
1732.40	1412	bottom	0 mm	UMTS 1750	RMC	A	136	0250M	22.0	21.78	0.03	1:1	2.730	1.052	2.872	
1752.60	1513	bottom	0 mm	UMTS 1750	RMC	A	136	0250M	22.0	21.70	0.02	1:1	2.880	1.072	3.087	
1712.40	1312	bottom	0 mm	UMTS 1750	RMC	A	136	0250M	22.0	21.81	0.00	1:1	2.660	1.045	2.780	
1852.40	9262	back	8 mm	UMTS 1900	RMC	A	137	0227M	24.0	23.27	0.01	1:1	0.851	1.183	1.007	
1852.40	9262	front	6 mm	UMTS 1900	RMC	A	137	0227M	24.0	23.27	0.02	1:1	0.747	1.183	0.884	
1852.40	9262	bottom	11 mm	UMTS 1900	RMC	A	137	0227M	24.0	23.27	0.03	1:1	0.988	1.183	1.169	
1852.40	9262	right	0 mm	UMTS 1900	RMC	A	137	0227M	24.0	23.27	-0.03	1:1	0.314	1.183	0.371	
1852.40	9262	left	0 mm	UMTS 1900	RMC	A	137	0227M	24.0	23.27	-0.01	1:1	0.641	1.183	0.758	
1852.40	9262	back	0 mm	UMTS 1900	RMC	A	136	0244M	22.0	21.86	0.01	1:1	2.470	1.033	2.552	
1880.00	9400	back	0 mm	UMTS 1900	RMC	A	25	0244M	22.0	21.78	0.00	1:1	2.120	1.052	2.230	
1907.60	9538	back	0 mm	UMTS 1900	RMC	A	6	0244M	22.0	21.80	0.00	1:1	2.170	1.047	2.272	
1852.40	9262	front	0 mm	UMTS 1900	RMC	A	136	0244M	22.0	21.86	0.04	1:1	1.950	1.033	2.014	
1880.00	9400	front	0 mm	UMTS 1900	RMC	A	25	0244M	22.0	21.78	0.01	1:1	1.740	1.052	1.830	
1907.60	9538	front	0 mm	UMTS 1900	RMC	A	25	0244M	22.0	21.80	-0.01	1:1	1.680	1.047	1.759	
1852.40	9262	bottom	0 mm	UMTS 1900	RMC	A	7	0244M	22.0	21.86	0.03	1:1	2.490	1.033	2.572	
1880.00	9400	bottom	0 mm	UMTS 1900	RMC	A	8	0244M	22.0	21.78	-0.01	1:1	2.530	1.052	2.662	A95
1907.60	9538	bottom	0 mm	UMTS 1900	RMC	A	10	0244M	22.0	21.80	0.01	1:1	2.390	1.047	2.502	
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 11-80
LTE Band 66 (AWS) Phablet SAR

MEASUREMENT RESULTS																							
# CC Uplink	Component Carrier	FREQUENCY			Side	Spacing	Mode	Antenna Config.	Tune State	Serial Number	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPR [dB]	Power Drift [dB]	Duty Cycle	SAR (10g)	Scaling Factor	Reported SAR (10g)	Pilot #
		MHz	Ch.	(W/kg)																(W/kg)			
1 CC Uplink	N/A	1720.00	132072	Low	back	8 mm	LTE Band 66 (AWS)	A	129	0275M	20	QPSK	1	99	24.5	23.49	0	-0.05	1:1	0.923	1.262	1.165	
1 CC Uplink	N/A	1720.00	132072	Low	back	8 mm	LTE Band 66 (AWS)	A	129	0275M	20	QPSK	50	50	23.5	22.36	1	0.01	1:1	0.750	1.300	0.975	
1 CC Uplink	N/A	1720.00	132072	Low	front	6 mm	LTE Band 66 (AWS)	A	129	0275M	20	QPSK	1	99	24.5	23.49	0	0.04	1:1	0.876	1.262	1.106	
1 CC Uplink	N/A	1720.00	132072	Low	front	6 mm	LTE Band 66 (AWS)	A	129	0275M	20	QPSK	50	50	23.5	22.36	1	-0.01	1:1	0.719	1.300	0.935	
1 CC Uplink	N/A	1720.00	132072	Low	bottom	11 mm	LTE Band 66 (AWS)	A	136	0275M	20	QPSK	1	99	24.5	23.49	0	-0.01	1:1	0.930	1.262	1.174	
1 CC Uplink	N/A	1720.00	132072	Low	bottom	11 mm	LTE Band 66 (AWS)	A	136	0275M	20	QPSK	50	50	23.5	22.36	1	-0.01	1:1	0.772	1.300	1.004	
1 CC Uplink	N/A	1720.00	132072	Low	right	0 mm	LTE Band 66 (AWS)	A	35	0275M	20	QPSK	1	99	24.5	23.49	0	0.02	1:1	0.325	1.262	0.410	
1 CC Uplink	N/A	1720.00	132072	Low	right	0 mm	LTE Band 66 (AWS)	A	35	0275M	20	QPSK	50	50	23.5	22.36	1	-0.03	1:1	0.258	1.300	0.335	
1 CC Uplink	N/A	1720.00	132072	Low	left	0 mm	LTE Band 66 (AWS)	A	129	0275M	20	QPSK	1	99	24.5	23.49	0	-0.03	1:1	0.787	1.262	0.993	
1 CC Uplink	N/A	1720.00	132072	Low	left	0 mm	LTE Band 66 (AWS)	A	129	0275M	20	QPSK	50	50	23.5	22.36	1	-0.02	1:1	0.638	1.300	0.829	
1 CC Uplink	N/A	1720.00	132072	Low	back	0 mm	LTE Band 66 (AWS)	A	17	0275M	20	QPSK	1	99	22.0	21.26	0	0.05	1:1	2.250	1.186	2.669	
1 CC Uplink	N/A	1745.00	132322	Mid	back	0 mm	LTE Band 66 (AWS)	A	16	0275M	20	QPSK	1	0	22.0	21.28	0	0.05	1:1	2.340	1.180	2.761	
1 CC Uplink	N/A	1770.00	132572	High	back	0 mm	LTE Band 66 (AWS)	A	17	0275M	20	QPSK	1	99	22.0	21.13	0	-0.02	1:1	2.180	1.222	2.664	
1 CC Uplink	N/A	1720.00	132072	Low	back	0 mm	LTE Band 66 (AWS)	A	17	0275M	20	QPSK	50	50	22.0	21.22	0	-0.03	1:1	2.280	1.197	2.729	
1 CC Uplink	N/A	1745.00	132322	Mid	back	0 mm	LTE Band 66 (AWS)	A	17	0275M	20	QPSK	50	0	22.0	21.24	0	0.03	1:1	2.300	1.191	2.739	
1 CC Uplink	N/A	1770.00	132572	High	back	0 mm	LTE Band 66 (AWS)	A	17	0275M	20	QPSK	50	50	22.0	21.07	0	0.01	1:1	2.290	1.239	2.837	
1 CC Uplink	N/A	1745.00	132322	Mid	back	0 mm	LTE Band 66 (AWS)	A	16	0275M	20	QPSK	100	0	22.0	21.23	0	0.03	1:1	2.310	1.194	2.758	
1 CC Uplink	N/A	1720.00	132072	Low	front	0 mm	LTE Band 66 (AWS)	A	16	0275M	20	QPSK	1	99	22.0	21.26	0	0.00	1:1	2.010	1.186	2.384	
1 CC Uplink	N/A	1745.00	132322	Mid	front	0 mm	LTE Band 66 (AWS)	A	136	0275M	20	QPSK	1	0	22.0	21.28	0	-0.03	1:1	1.980	1.180	2.336	
1 CC Uplink	N/A	1770.00	132572	High	front	0 mm	LTE Band 66 (AWS)	A	136	0275M	20	QPSK	1	99	22.0	21.13	0	0.04	1:1	1.640	1.222	2.004	
1 CC Uplink	N/A	1720.00	132072	Low	front	0 mm	LTE Band 66 (AWS)	A	16	0275M	20	QPSK	50	50	22.0	21.22	0	0.01	1:1	2.020	1.197	2.418	
1 CC Uplink	N/A	1745.00	132322	Mid	front	0 mm	LTE Band 66 (AWS)	A	136	0275M	20	QPSK	50	0	22.0	21.24	0	0.00	1:1	1.930	1.191	2.299	
1 CC Uplink	N/A	1770.00	132572	High	front	0 mm	LTE Band 66 (AWS)	A	136	0275M	20	QPSK	50	50	22.0	21.07	0	-0.02	1:1	1.740	1.239	2.156	
1 CC Uplink	N/A	1745.00	132322	Md	front	0 mm	LTE Band 66 (AWS)	A	136	0275M	20	QPSK	100	0	22.0	21.23	0	-0.01	1:1	1.890	1.194	2.257	
1 CC Uplink	N/A	1720.00	132072	Low	bottom	0 mm	LTE Band 66 (AWS)	A	136	0275M	20	QPSK	1	99	22.0	21.26	0	0.04	1:1	2.460	1.186	2.918	
1 CC Uplink	N/A	1745.00	132322	Mid	bottom	0 mm	LTE Band 66 (AWS)	A	5	0275M	20	QPSK	1	0	22.0	21.28	0	-0.04	1:1	2.510	1.180	2.962	
1 CC Uplink	N/A	1770.00	132572	High	bottom	0 mm	LTE Band 66 (AWS)	A	51	0275M	20	QPSK	1	99	22.0	21.13	0	-0.04	1:1	2.080	1.222	2.542	
1 CC Uplink	N/A	1720.00	132072	Low	bottom	0 mm	LTE Band 66 (AWS)	A	136	0275M	20	QPSK	50	50	22.0	21.22	0	-0.01	1:1	2.520	1.197	3.016	
1 CC Uplink	N/A	1745.00	132322	Mid	bottom	0 mm	LTE Band 66 (AWS)	A	5	0275M	20	QPSK	50	0	22.0	21.24	0	0.03	1:1	2.490	1.191	2.966	
1 CC Uplink	N/A	1770.00	132572	High	bottom	0 mm	LTE Band 66 (AWS)	A	51	0275M	20	QPSK	50	50	22.0	21.07	0	-0.02	1:1	2.170	1.239	2.689	
1 CC Uplink	N/A	1745.00	132322	Mid	bottom	0 mm	LTE Band 66 (AWS)	A	5	0275M	20	QPSK	100	0	22.0	21.23	0	-0.02	1:1	2.470	1.194	2.949	
1 CC Uplink	N/A	1715.00	132022	Low	bottom	0 mm	LTE Band 66 (AWS)	A	136	0275M	10	QPSK	25	25	22.0	21.37	0	-0.03	1:1	2.420	1.156	2.798	
2 CC Uplink CA_66C	PCC	1720.00	132072	Low	bottom	0 mm	LTE Band 66 (AWS)	A	136	0275M	20	QPSK	50	50	22.0	21.15	0	0.03	1:1	2.460	1.216	2.991	
	SCC	1739.80	132270											0									
2 CC Uplink CA_66B	PCC	1715.00	132022	Low	bottom	0 mm	LTE Band 66 (AWS)	A	136	0275M	10	QPSK	25	25	22.0	21.25	0	0.08	1:1	2.470	1.189	2.937	
	SCC	1724.90	132121											0									
1 CC Uplink	N/A	1720.00	132072	Low	top	0 mm	LTE Band 66 (AWS)	F	N/A	0190M	20	QPSK	1	99	21.5	21.09	0	-0.03	1:1	2.400	1.099	2.638	
1 CC Uplink	N/A	1745.00	132322	Mid	top	0 mm	LTE Band 66 (AWS)	F	N/A	0190M	20	QPSK	1	99	21.5	21.31	0	0.01	1:1	2.430	1.045	2.539	
1 CC Uplink	N/A	1770.00	132572	High	top	0 mm	LTE Band 66 (AWS)	F	N/A	0190M	20	QPSK	1	0	21.5	21.48	0	0.05	1:1	2.590	1.005	2.603	A96
1 CC Uplink	N/A	1720.00	132072	Low	top	0 mm	LTE Band 66 (AWS)	F	N/A	0190M	20	QPSK	50	50	21.5	21.12	0	0.00	1:1	2.400	1.091	2.618	
1 CC Uplink	N/A	1745.00	132322	Mid	top	0 mm	LTE Band 66 (AWS)	F	N/A	0190M	20	QPSK	50	0	21.5	21.17	0	0.00	1:1	2.420	1.079	2.611	
1 CC Uplink	N/A	1770.00	132572	High	top	0 mm	LTE Band 66 (AWS)	F	N/A	0190M	20	QPSK	50	0	21.5	21.50	0	0.00	1:1	2.530	1.000	2.530	
1 CC Uplink	N/A	1770.00	132572	High	top	0 mm	LTE Band 66 (AWS)	F	N/A	0190M	20	QPSK	100	0	21.5	21.41	0	0.00	1:1	2.520	1.021	2.573	
1 CC Uplink	N/A	1715.00	132022	Low	top	0 mm	LTE Band 66 (AWS)	F	N/A	0190M	10	QPSK	1	49	21.5	21.20	0	0.00	1:1	2.420	1.072	2.594	
2 CC Uplink CA_66C	PCC	1720.00	132072	Low	top	0 mm	LTE Band 66 (AWS)	F	N/A	0190M	20	QPSK	1	99	21.5	20.82	0	0.00	1:1	2.360	1.169	2.759	
	SCC	1739.80	132270											0									
2 CC Uplink CA_66B	PCC	1715.00	132022	Low	top	0 mm	LTE Band 66 (AWS)	F	N/A	0190M	10	QPSK	1	49	21.5	21.00	0	0.20	1:1	2.400	1.122	2.693	
	SCC	1724.90	132121											0									
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 11-81
LTE Band 25 (PCS) Phablet SAR

MEASUREMENT RESULTS																					
FREQUENCY		Side	Spacing	Mode	Antenna Config.	Tune State	Serial Number	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPR [dB]	Power Drift [dB]	Duty Cycle	SAR (10g)	Scaling Factor	Reported SAR (10g)	Plot #	
MHz	Ch.																(W/kg)		(W/kg)		
1860.00	26140	Low	back	8 mm	LTE Band 25 (PCS)	A	32	0227M	20	QPSK	1	0	24.5	23.29	0	-0.14	1:1	0.977	1.321	1.291	
1860.00	26140	Low	back	8 mm	LTE Band 25 (PCS)	A	32	0227M	20	QPSK	50	25	23.5	22.34	1	-0.01	1:1	0.776	1.306	1.013	
1860.00	26140	Low	front	6 mm	LTE Band 25 (PCS)	A	32	0227M	20	QPSK	1	0	24.5	23.29	0	0.17	1:1	1.020	1.321	1.347	
1860.00	26140	Low	front	6 mm	LTE Band 25 (PCS)	A	32	0227M	20	QPSK	50	25	23.5	22.34	1	0.00	1:1	0.813	1.306	1.062	
1860.00	26140	Low	bottom	11 mm	LTE Band 25 (PCS)	A	32	0227M	20	QPSK	1	0	24.5	23.29	0	0.04	1:1	0.827	1.321	1.092	
1860.00	26140	Low	bottom	11 mm	LTE Band 25 (PCS)	A	32	0227M	20	QPSK	50	25	23.5	22.34	1	-0.04	1:1	0.709	1.306	0.926	
1860.00	26140	Low	right	0 mm	LTE Band 25 (PCS)	A	35	0227M	20	QPSK	1	0	24.5	23.29	0	0.00	1:1	0.251	1.321	0.332	
1860.00	26140	Low	right	0 mm	LTE Band 25 (PCS)	A	35	0227M	20	QPSK	50	25	23.5	22.34	1	0.01	1:1	0.199	1.306	0.260	
1860.00	26140	Low	left	0 mm	LTE Band 25 (PCS)	A	137	0227M	20	QPSK	1	0	24.5	23.29	0	-0.03	1:1	0.813	1.321	1.074	
1860.00	26140	Low	left	0 mm	LTE Band 25 (PCS)	A	137	0227M	20	QPSK	50	25	23.5	22.34	1	0.02	1:1	0.592	1.306	0.773	
1860.00	26140	Low	back	0 mm	LTE Band 25 (PCS)	A	136	0227M	20	QPSK	1	99	22.5	21.84	0	-0.02	1:1	2.110	1.164	2.456	
1882.50	26365	Mid	back	0 mm	LTE Band 25 (PCS)	A	23	0227M	20	QPSK	1	50	22.5	21.69	0	0.02	1:1	2.190	1.205	2.639	
1905.00	26590	High	back	0 mm	LTE Band 25 (PCS)	A	137	0227M	20	QPSK	1	0	22.5	21.77	0	0.03	1:1	2.370	1.183	2.804	
1860.00	26140	Low	back	0 mm	LTE Band 25 (PCS)	A	136	0227M	20	QPSK	50	25	22.5	21.83	0	-0.01	1:1	2.190	1.167	2.556	
1882.50	26365	Mid	back	0 mm	LTE Band 25 (PCS)	A	23	0227M	20	QPSK	50	25	22.5	21.77	0	0.00	1:1	2.190	1.183	2.591	
1905.00	26590	High	back	0 mm	LTE Band 25 (PCS)	A	5	0227M	20	QPSK	50	50	22.5	21.72	0	-0.01	1:1	2.260	1.197	2.705	
1860.00	26140	Low	back	0 mm	LTE Band 25 (PCS)	A	137	0227M	20	QPSK	100	0	22.5	21.82	0	-0.01	1:1	2.290	1.169	2.677	
1860.00	26140	Low	front	0 mm	LTE Band 25 (PCS)	A	137	0227M	20	QPSK	1	99	22.5	21.84	0	-0.08	1:1	1.960	1.164	2.281	
1882.50	26365	Mid	front	0 mm	LTE Band 25 (PCS)	A	137	0227M	20	QPSK	1	50	22.5	21.69	0	0.03	1:1	2.010	1.205	2.422	
1905.00	26590	High	front	0 mm	LTE Band 25 (PCS)	A	137	0227M	20	QPSK	1	0	22.5	21.77	0	-0.09	1:1	2.060	1.183	2.437	
1860.00	26140	Low	front	0 mm	LTE Band 25 (PCS)	A	137	0227M	20	QPSK	50	25	22.5	21.83	0	0.00	1:1	2.030	1.167	2.369	
1882.50	26365	Mid	front	0 mm	LTE Band 25 (PCS)	A	137	0227M	20	QPSK	50	25	22.5	21.77	0	0.02	1:1	2.070	1.183	2.449	
1905.00	26590	High	front	0 mm	LTE Band 25 (PCS)	A	137	0227M	20	QPSK	50	50	22.5	21.72	0	-0.01	1:1	2.040	1.197	2.442	
1860.00	26140	Low	front	0 mm	LTE Band 25 (PCS)	A	137	0227M	20	QPSK	100	0	22.5	21.82	0	-0.01	1:1	2.020	1.169	2.361	
1860.00	26140	Low	bottom	0 mm	LTE Band 25 (PCS)	A	0	0227M	20	QPSK	1	99	22.5	21.84	0	0.00	1:1	2.270	1.164	2.642	
1882.50	26365	Mid	bottom	0 mm	LTE Band 25 (PCS)	A	0	0227M	20	QPSK	1	50	22.5	21.69	0	-0.08	1:1	2.430	1.205	2.928	
1905.00	26590	High	bottom	0 mm	LTE Band 25 (PCS)	A	0	0227M	20	QPSK	1	0	22.5	21.77	0	-0.08	1:1	2.550	1.183	3.017	
1860.00	26140	Low	bottom	0 mm	LTE Band 25 (PCS)	A	0	0227M	20	QPSK	50	25	22.5	21.83	0	-0.01	1:1	2.340	1.167	2.731	
1882.50	26365	Mid	bottom	0 mm	LTE Band 25 (PCS)	A	0	0227M	20	QPSK	50	25	22.5	21.77	0	0.00	1:1	2.430	1.183	2.875	
1905.00	26590	High	bottom	0 mm	LTE Band 25 (PCS)	A	0	0227M	20	QPSK	50	50	22.5	21.72	0	0.00	1:1	2.590	1.197	3.100	A97
1860.00	26140	Low	bottom	0 mm	LTE Band 25 (PCS)	A	0	0227M	20	QPSK	100	0	22.5	21.82	0	0.00	1:1	2.340	1.169	2.735	
1860.00	26140	Low	top	0 mm	LTE Band 25 (PCS)	F	N/A	0195M	20	QPSK	1	0	22.5	21.71	0	0.00	1:1	2.530	1.199	3.033	
1882.50	26365	Mid	top	0 mm	LTE Band 25 (PCS)	F	N/A	0195M	20	QPSK	1	0	22.5	21.40	0	0.01	1:1	2.290	1.288	2.950	
1905.00	26590	High	top	0 mm	LTE Band 25 (PCS)	F	N/A	0195M	20	QPSK	1	0	22.5	21.42	0	0.05	1:1	2.180	1.282	2.795	
1860.00	26140	Low	top	0 mm	LTE Band 25 (PCS)	F	N/A	0195M	20	QPSK	50	25	22.5	21.60	0	-0.01	1:1	2.520	1.230	3.100	
1882.50	26365	Mid	top	0 mm	LTE Band 25 (PCS)	F	N/A	0195M	20	QPSK	50	25	22.5	21.35	0	0.00	1:1	2.350	1.303	3.062	
1905.00	26590	High	top	0 mm	LTE Band 25 (PCS)	F	N/A	0195M	20	QPSK	50	25	22.5	21.46	0	0.00	1:1	2.220	1.271	2.822	
1860.00	26140	Low	top	0 mm	LTE Band 25 (PCS)	F	N/A	0195M	20	QPSK	100	0	22.5	21.56	0	0.01	1:1	2.520	1.242	3.130	
1905.00	26590	High	bottom	0 mm	LTE Band 25 (PCS)	A	0	0227M	20	QPSK	50	50	22.5	21.72	0	0.01	1:1	2.590	1.197	3.100	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT										Phablet											
Spatial Peak										4.0 W/kg (mW/g)											
Uncontrolled Exposure/General Population										averaged over 10 grams											

Note: Blue entry represents variability measurement.

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Table 11-82
LTE Band 30 Phablet SAR

MEASUREMENT RESULTS																				
FREQUENCY		Side	Spacing	Mode	Antenna Config.	Serial Number	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPR [dB]	Power Drift [dB]	Duty Cycle	SAR (10g)	Scaling Factor	Reported SAR (10g)	Plot #	
MHz	Ch.															(W/kg)		(W/kg)		
2310.00	27710	Mid	back	8 mm	LTE Band 30	A	0231M	10	QPSK	1	25	23.1	22.58	0	-0.02	1:1	0.579	1.127	0.653	
2310.00	27710	Mid	back	8 mm	LTE Band 30	A	0231M	10	QPSK	25	25	22.1	21.57	1	-0.02	1:1	0.541	1.130	0.611	
2310.00	27710	Mid	front	6 mm	LTE Band 30	A	0231M	10	QPSK	1	25	23.1	22.58	0	0.05	1:1	0.705	1.127	0.795	
2310.00	27710	Mid	front	6 mm	LTE Band 30	A	0231M	10	QPSK	25	25	22.1	21.57	1	0.02	1:1	0.561	1.130	0.634	
2310.00	27710	Mid	bottom	11 mm	LTE Band 30	A	0231M	10	QPSK	1	25	23.1	22.58	0	0.01	1:1	1.000	1.127	1.127	
2310.00	27710	Mid	bottom	11 mm	LTE Band 30	A	0231M	10	QPSK	25	25	22.1	21.57	1	0.11	1:1	0.796	1.130	0.899	
2310.00	27710	Mid	right	0 mm	LTE Band 30	A	0231M	10	QPSK	1	25	23.1	22.58	0	0.00	1:1	0.146	1.127	0.165	
2310.00	27710	Mid	right	0 mm	LTE Band 30	A	0231M	10	QPSK	25	25	22.1	21.57	1	0.00	1:1	0.113	1.130	0.128	
2310.00	27710	Mid	left	0 mm	LTE Band 30	A	0231M	10	QPSK	1	25	23.1	22.58	0	0.02	1:1	0.537	1.127	0.605	
2310.00	27710	Mid	left	0 mm	LTE Band 30	A	0231M	10	QPSK	25	25	22.1	21.57	1	0.06	1:1	0.419	1.130	0.473	
2310.00	27710	Mid	back	0 mm	LTE Band 30	A	0231M	10	QPSK	1	25	22.0	20.53	0	-0.12	1:1	1.980	1.403	2.778	A98
2310.00	27710	Mid	back	0 mm	LTE Band 30	A	0231M	10	QPSK	25	12	22.0	20.57	0	-0.17	1:1	1.900	1.390	2.641	
2310.00	27710	Mid	back	0 mm	LTE Band 30	A	0231M	10	QPSK	50	0	22.0	20.52	0	-0.13	1:1	1.930	1.406	2.714	
2310.00	27710	Mid	front	0 mm	LTE Band 30	A	0231M	10	QPSK	1	25	22.0	20.53	0	-0.03	1:1	1.830	1.403	2.567	
2310.00	27710	Mid	front	0 mm	LTE Band 30	A	0231M	10	QPSK	25	12	22.0	20.57	0	0.00	1:1	1.850	1.390	2.572	
2310.00	27710	Mid	front	0 mm	LTE Band 30	A	0231M	10	QPSK	50	0	22.0	20.52	0	0.06	1:1	1.840	1.406	2.587	
2310.00	27710	Mid	bottom	0 mm	LTE Band 30	A	0231M	10	QPSK	1	25	22.0	20.53	0	-0.03	1:1	1.580	1.403	2.217	
2310.00	27710	Mid	bottom	0 mm	LTE Band 30	A	0231M	10	QPSK	25	12	22.0	20.57	0	-0.01	1:1	1.660	1.390	2.307	
2310.00	27710	Mid	bottom	0 mm	LTE Band 30	A	0231M	10	QPSK	50	0	22.0	20.52	0	0.01	1:1	1.650	1.406	2.320	
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 11-83
LTE Band 7 Phablet SAR

MEASUREMENT RESULTS																				
FREQUENCY			Side	Spacing	Mode	Antenna Config.	Serial Number	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPR [dB]	Power Drift [dB]	Duty Cycle	SAR (10g)	Scaling Factor	Reported SAR (10g)	Plot #
MHz	Ch.	(W/kg)															(W/kg)			
2560.00	21350	High	back	8 mm	LTE Band 7	B	0250M	20	QPSK	1	50	24.0	22.99	0	-0.02	1:1	0.477	1.262	0.602	
2560.00	21350	High	back	8 mm	LTE Band 7	B	0250M	20	QPSK	50	50	23.0	21.96	1	0.00	1:1	0.392	1.271	0.498	
2560.00	21350	High	front	6 mm	LTE Band 7	B	0250M	20	QPSK	1	50	24.0	22.99	0	-0.05	1:1	0.463	1.262	0.584	
2560.00	21350	High	front	6 mm	LTE Band 7	B	0250M	20	QPSK	50	50	23.0	21.96	1	-0.07	1:1	0.373	1.271	0.474	
2560.00	21350	High	bottom	11 mm	LTE Band 7	B	0250M	20	QPSK	1	50	24.0	22.99	0	-0.04	1:1	0.332	1.262	0.419	
2560.00	21350	High	bottom	11 mm	LTE Band 7	B	0250M	20	QPSK	50	50	23.0	21.96	1	0.05	1:1	0.260	1.271	0.330	
2510.00	20850	Low	left	0 mm	LTE Band 7	B	0250M	20	QPSK	1	50	24.0	22.88	0	-0.13	1:1	1.560	1.294	2.019	
2535.00	21100	Mid	left	0 mm	LTE Band 7	B	0250M	20	QPSK	1	50	24.0	22.75	0	-0.03	1:1	1.620	1.334	2.161	
2560.00	21350	High	left	0 mm	LTE Band 7	B	0250M	20	QPSK	1	50	24.0	22.99	0	0.05	1:1	1.670	1.262	2.108	
2560.00	21350	High	left	0 mm	LTE Band 7	B	0250M	20	QPSK	50	50	23.0	21.96	1	0.03	1:1	1.320	1.271	1.678	
2535.00	21100	Mid	left	0 mm	LTE Band 7	B	0250M	20	QPSK	100	0	23.0	21.92	1	0.03	1:1	1.280	1.282	1.641	
2510.00	20850	Low	back	0 mm	LTE Band 7	B	0125M	20	QPSK	1	50	22.5	21.37	0	0.05	1:1	2.070	1.297	2.685	A99
2535.00	21100	Mid	back	0 mm	LTE Band 7	B	0125M	20	QPSK	1	0	22.5	21.30	0	0.01	1:1	1.850	1.318	2.438	
2560.00	21350	High	back	0 mm	LTE Band 7	B	0125M	20	QPSK	1	99	22.5	21.49	0	0.01	1:1	1.820	1.262	2.297	
2510.00	20850	Low	back	0 mm	LTE Band 7	B	0125M	20	QPSK	50	25	22.5	21.43	0	0.02	1:1	1.830	1.279	2.341	
2535.00	21100	Mid	back	0 mm	LTE Band 7	B	0125M	20	QPSK	50	25	22.5	21.41	0	0.02	1:1	1.920	1.285	2.467	
2560.00	21350	High	back	0 mm	LTE Band 7	B	0125M	20	QPSK	50	50	22.5	21.44	0	0.03	1:1	1.860	1.276	2.373	
2535.00	21100	Mid	back	0 mm	LTE Band 7	B	0125M	20	QPSK	100	0	22.5	21.43	0	0.01	1:1	1.880	1.279	2.405	
2560.00	21350	High	front	0 mm	LTE Band 7	B	0250M	20	QPSK	1	99	22.5	21.49	0	0.03	1:1	1.430	1.262	1.805	
2560.00	21350	High	front	0 mm	LTE Band 7	B	0250M	20	QPSK	50	50	22.5	21.44	0	0.03	1:1	1.440	1.276	1.837	
2560.00	21350	High	bottom	0 mm	LTE Band 7	B	0250M	20	QPSK	1	99	22.5	21.49	0	0.10	1:1	1.300	1.262	1.641	
2560.00	21350	High	bottom	0 mm	LTE Band 7	B	0250M	20	QPSK	50	50	22.5	21.44	0	0.01	1:1	1.330	1.276	1.697	
2510.00	20850	Low	top	0 mm	LTE Band 7	F	0168M	20	QPSK	1	0	21.0	19.91	0	0.01	1:1	1.800	1.285	2.313	
2535.00	21100	Mid	top	0 mm	LTE Band 7	F	0168M	20	QPSK	1	99	21.0	19.67	0	-0.01	1:1	1.540	1.358	2.091	
2560.00	21350	High	top	0 mm	LTE Band 7	F	0168M	20	QPSK	1	50	21.0	19.60	0	-0.04	1:1	1.610	1.380	2.222	
2510.00	20850	Low	top	0 mm	LTE Band 7	F	0168M	20	QPSK	50	0	21.0	19.94	0	-0.03	1:1	1.800	1.276	2.297	
2535.00	21100	Mid	top	0 mm	LTE Band 7	F	0168M	20	QPSK	50	25	21.0	19.61	0	0.01	1:1	1.650	1.377	2.272	
2560.00	21350	High	top	0 mm	LTE Band 7	F	0168M	20	QPSK	50	0	21.0	19.57	0	-0.01	1:1	1.620	1.390	2.252	
2510.00	20850	Low	top	0 mm	LTE Band 7	F	0168M	20	QPSK	100	0	21.0	19.84	0	-0.03	1:1	1.790	1.306	2.338	
2510.00	20850	Low	back	0 mm	LTE Band 7	B	0125M	20	QPSK	1	50	22.5	21.37	0	-0.03	1:1	2.020	1.297	2.620	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT									Phablet											
Spatial Peak									4.0 W/kg (mW/g)											
Uncontrolled Exposure/General Population									averaged over 10 grams											

Note: Blue entry represents variability measurement.

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Table 11-84
LTE Band 41 Phablet SAR

MEASUREMENT RESULTS																						
# CC Uplink, Power Class	Component Carrier	FREQUENCY		Side	Spacing	Mode	Antenna Config.	Serial Number	Bandwidth [MHz]	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPR [dB]	Power Drift [dB]	Duty Cycle	SAR (10g)	Scaling Factor	Reported SAR (10g)	Plot #	
		MHz	Ch.															(W/kg)		(W/kg)		
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	back	8 mm	LTE Band 41	B	0222M	20	QPSK	1	50	25.0	23.86	0	-0.03	1:1.58	0.346	1.300	0.450	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	back	8 mm	LTE Band 41	B	0222M	20	QPSK	50	25	24.0	22.87	1	-0.03	1:1.58	0.281	1.297	0.364	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	front	6 mm	LTE Band 41	B	0222M	20	QPSK	1	50	25.0	23.86	0	0.06	1:1.58	0.309	1.300	0.402	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	front	6 mm	LTE Band 41	B	0222M	20	QPSK	50	25	24.0	22.87	1	0.03	1:1.58	0.254	1.297	0.329	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	bottom	11 mm	LTE Band 41	B	0222M	20	QPSK	1	50	25.0	23.86	0	-0.06	1:1.58	0.224	1.300	0.291	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	bottom	11 mm	LTE Band 41	B	0222M	20	QPSK	50	25	24.0	22.87	1	0.04	1:1.58	0.183	1.297	0.237	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	left	0 mm	LTE Band 41	B	0222M	20	QPSK	1	50	25.0	23.73	0	-0.10	1:1.58	1.350	1.341	1.810	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	left	0 mm	LTE Band 41	B	0222M	20	QPSK	1	50	25.0	23.86	0	-0.04	1:1.58	1.200	1.300	1.560	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	left	0 mm	LTE Band 41	B	0222M	20	QPSK	1	0	25.0	23.54	0	0.03	1:1.58	1.280	1.398	1.789	
1 CC Uplink - Power Class 3	N/A	2636.50	41055	Mid-High	left	0 mm	LTE Band 41	B	0222M	20	QPSK	1	99	25.0	23.44	0	0.00	1:1.58	1.250	1.433	1.791	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	left	0 mm	LTE Band 41	B	0222M	20	QPSK	1	50	25.0	23.70	0	-0.08	1:1.58	1.300	1.349	1.754	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	left	0 mm	LTE Band 41	B	0222M	20	QPSK	50	25	24.0	22.87	1	0.03	1:1.58	0.958	1.297	1.243	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	left	0 mm	LTE Band 41	B	0222M	20	QPSK	100	0	24.0	22.84	1	0.02	1:1.58	1.090	1.306	1.424	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	back	0 mm	LTE Band 41	B	0222M	20	QPSK	1	0	24.0	23.10	0	-0.08	1:1.58	1.580	1.230	1.943	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	back	0 mm	LTE Band 41	B	0222M	20	QPSK	1	50	24.0	23.20	0	0.20	1:1.58	1.940	1.202	2.332	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	back	0 mm	LTE Band 41	B	0222M	20	QPSK	1	0	24.0	23.04	0	0.01	1:1.58	1.750	1.247	2.182	
1 CC Uplink - Power Class 3	N/A	2636.50	41055	Mid-High	back	0 mm	LTE Band 41	B	0222M	20	QPSK	1	99	24.0	22.91	0	-0.01	1:1.58	1.780	1.285	2.287	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	back	0 mm	LTE Band 41	B	0222M	20	QPSK	1	0	24.0	23.05	0	0.04	1:1.58	1.570	1.245	1.955	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	back	0 mm	LTE Band 41	B	0222M	20	QPSK	50	25	24.0	23.05	0	-0.01	1:1.58	1.480	1.245	1.843	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	back	0 mm	LTE Band 41	B	0222M	20	QPSK	50	25	24.0	23.09	0	-0.02	1:1.58	1.760	1.233	2.170	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	back	0 mm	LTE Band 41	B	0222M	20	QPSK	50	25	24.0	22.90	0	0.01	1:1.58	1.630	1.288	2.099	
1 CC Uplink - Power Class 3	N/A	2636.50	41055	Mid-High	back	0 mm	LTE Band 41	B	0222M	20	QPSK	50	50	24.0	22.78	0	0.03	1:1.58	1.670	1.324	2.211	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	back	0 mm	LTE Band 41	B	0222M	20	QPSK	50	0	24.0	22.93	0	0.03	1:1.58	2.220	1.279	2.839	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	back	0 mm	LTE Band 41	B	0222M	20	QPSK	100	0	24.0	23.06	0	-0.03	1:1.58	1.720	1.242	2.136	
1 CC Uplink - Power Class 2	N/A	2680.00	41490	High	back	0 mm	LTE Band 41	B	0222M	20	QPSK	50	0	25.6	24.25	0	0.03	1:2.31	2.060	1.365	2.812	
2 CC Uplink - Power Class 3	PCC	2680.00	41490	High	back	0 mm	LTE Band 41	B	0222M	20	QPSK	50	0	24.0	23.20	0	0.05	1:1.58	2.370	1.202	2.849	A100
	SCC	2660.20	41292					B					50									
2 CC Uplink - Power Class 2	PCC	2680.00	41490	High	back	0 mm	LTE Band 41	B	0222M	20	QPSK	50	0	25.6	24.63	0	0.06	1:2.31	2.260	1.250	2.825	
	SCC	2660.20	41292					B					50									
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	front	0 mm	LTE Band 41	B	0222M	20	QPSK	1	50	24.0	23.20	0	-0.14	1:1.58	0.994	1.202	1.195	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	front	0 mm	LTE Band 41	B	0222M	20	QPSK	50	25	24.0	23.09	0	0.02	1:1.58	0.969	1.233	1.195	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	bottom	0 mm	LTE Band 41	B	0222M	20	QPSK	1	0	24.0	23.10	0	0.01	1:1.58	1.180	1.230	1.451	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	bottom	0 mm	LTE Band 41	B	0222M	20	QPSK	1	50	24.0	23.20	0	-0.11	1:1.58	1.230	1.202	1.478	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	bottom	0 mm	LTE Band 41	B	0222M	20	QPSK	1	0	24.0	23.04	0	0.02	1:1.58	1.200	1.247	1.496	
1 CC Uplink - Power Class 3	N/A	2636.50	41055	Mid-High	bottom	0 mm	LTE Band 41	B	0222M	20	QPSK	1	99	24.0	22.91	0	-0.03	1:1.58	1.330	1.285	1.709	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	bottom	0 mm	LTE Band 41	B	0222M	20	QPSK	1	0	24.0	23.05	0	0.00	1:1.58	1.470	1.245	1.830	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	bottom	0 mm	LTE Band 41	B	0222M	20	QPSK	50	25	24.0	23.05	0	0.00	1:1.58	1.140	1.245	1.419	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	bottom	0 mm	LTE Band 41	B	0222M	20	QPSK	50	25	24.0	23.09	0	-0.11	1:1.58	1.220	1.233	1.504	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	bottom	0 mm	LTE Band 41	B	0222M	20	QPSK	50	25	24.0	22.90	0	0.02	1:1.58	1.160	1.288	1.494	
1 CC Uplink - Power Class 3	N/A	2636.50	41055	Mid-High	bottom	0 mm	LTE Band 41	B	0222M	20	QPSK	50	50	24.0	22.78	0	-0.04	1:1.58	1.260	1.324	1.668	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	bottom	0 mm	LTE Band 41	B	0222M	20	QPSK	50	50	24.0	22.93	0	-0.02	1:1.58	1.470	1.279	1.880	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	bottom	0 mm	LTE Band 41	B	0222M	20	QPSK	100	0	24.0	23.06	0	0.04	1:1.58	1.190	1.242	1.478	
2 CC Uplink - Power Class 3	PCC	2680.00	41490	High	back	0 mm	LTE Band 41	B	0222M	20	QPSK	50	0	24.0	23.20	0	0.03	1:1.58	2.350	1.202	2.825	
	SCC	2660.20	41292					B					50									
ANSI / IEEE C95.1 1992 - SAFETY LIMIT										Phablet												
Spatial Peak										4.0 W/kg (mW/g)												
Uncontrolled Exposure/General Population										averaged over 10 grams												

Note: Blue entry represents variability measurement.

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Table 11-85
NR Band n66 Phablet SAR

MEASUREMENT RESULTS																					
FREQUENCY			Side	Spacing	Mode	Antenna Config	Serial Number	Bandwidth [MHz]	Waveform	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPR [dB]	Power Drift [dB]	Duty Cycle	SAR (log) (W/kg)	Scaling Factor	Reported SAR (log) (W/kg)	Plot #
MHz	Ch.																				
1745.00	349000	Mid	back	8 mm	NR Band n66	A	0289M	40	DFT-S-OFDM	QPSK	1	108	24.5	23.33	0	0.03	1:1	0.746	1.309	0.977	
1745.00	349000	Mid	back	8 mm	NR Band n66	A	0289M	40	DFT-S-OFDM	QPSK	108	54	24.5	23.43	0	-0.01	1:1	0.774	1.279	0.990	
1745.00	349000	Mid	front	6 mm	NR Band n66	A	0289M	40	DFT-S-OFDM	QPSK	1	108	24.5	23.33	0	0.04	1:1	0.861	1.309	1.127	
1745.00	349000	Mid	front	6 mm	NR Band n66	A	0289M	40	DFT-S-OFDM	QPSK	108	54	24.5	23.43	0	0.01	1:1	0.884	1.279	1.131	
1745.00	349000	Mid	bottom	11 mm	NR Band n66	A	0289M	40	DFT-S-OFDM	QPSK	1	108	24.5	23.33	0	0.02	1:1	0.888	1.309	1.162	
1745.00	349000	Mid	bottom	11 mm	NR Band n66	A	0289M	40	DFT-S-OFDM	QPSK	108	54	24.5	23.43	0	-0.01	1:1	0.925	1.279	1.183	
1745.00	349000	Mid	right	0 mm	NR Band n66	A	0289M	40	DFT-S-OFDM	QPSK	1	108	24.5	23.33	0	-0.03	1:1	0.354	1.309	0.463	
1745.00	349000	Mid	right	0 mm	NR Band n66	A	0289M	40	DFT-S-OFDM	QPSK	108	54	24.5	23.43	0	0.02	1:1	0.368	1.279	0.471	
1745.00	349000	Mid	left	0 mm	NR Band n66	A	0289M	40	DFT-S-OFDM	QPSK	1	108	24.5	23.33	0	0.04	1:1	0.708	1.309	0.927	
1745.00	349000	Mid	left	0 mm	NR Band n66	A	0289M	40	DFT-S-OFDM	QPSK	108	54	24.5	23.43	0	0.01	1:1	0.707	1.279	0.904	
1745.00	349000	Mid	back	0 mm	NR Band n66	A	0263M	40	DFT-S-OFDM	QPSK	1	1	22.0	21.36	0	-0.01	1:1	1.810	1.159	2.098	
1745.00	349000	Mid	back	0 mm	NR Band n66	A	0263M	40	DFT-S-OFDM	QPSK	108	0	22.0	21.55	0	0.01	1:1	2.140	1.109	2.373	
1745.00	349000	Mid	back	0 mm	NR Band n66	A	0263M	40	DFT-S-OFDM	QPSK	216	0	22.0	21.33	0	0.09	1:1	2.160	1.167	2.521	
1745.00	349000	Mid	back	0 mm	NR Band n66	A	0263M	40	CP-OFDM	QPSK	1	1	22.0	21.46	0	0.04	1:1	2.130	1.132	2.411	
1745.00	349000	Mid	front	0 mm	NR Band n66	A	0263M	40	DFT-S-OFDM	QPSK	1	1	22.0	21.36	0	0.02	1:1	1.580	1.159	1.831	
1745.00	349000	Mid	front	0 mm	NR Band n66	A	0263M	40	DFT-S-OFDM	QPSK	108	0	22.0	21.55	0	0.00	1:1	1.570	1.109	1.741	
1745.00	349000	Mid	bottom	0 mm	NR Band n66	A	0263M	40	DFT-S-OFDM	QPSK	1	1	22.0	21.36	0	0.06	1:1	2.060	1.159	2.388	
1745.00	349000	Mid	bottom	0 mm	NR Band n66	A	0263M	40	DFT-S-OFDM	QPSK	108	0	22.0	21.55	0	0.03	1:1	2.080	1.109	2.307	
1745.00	349000	Mid	bottom	0 mm	NR Band n66	A	0263M	40	DFT-S-OFDM	QPSK	216	0	22.0	21.33	0	-0.01	1:1	2.060	1.167	2.404	
1745.00	349000	Mid	top	0 mm	NR Band n66	F	0169M	40	DFT-S-OFDM	QPSK	1	1	21.5	21.07	0	-0.10	1:1	2.520	1.104	2.782	
1745.00	349000	Mid	top	0 mm	NR Band n66	F	0169M	40	DFT-S-OFDM	QPSK	108	54	21.5	21.07	0	0.02	1:1	2.580	1.104	2.848	
1745.00	349000	Mid	top	0 mm	NR Band n66	F	0169M	40	DFT-S-OFDM	QPSK	216	0	21.5	21.06	0	0.00	1:1	2.610	1.107	2.889	
1745.00	349000	Mid	top	0 mm	NR Band n66	F	0169M	40	CP-OFDM	QPSK	1	1	21.5	21.04	0	0.09	1:1	2.650	1.112	2.947	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												

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Table 11-86
NR Band n25 Phablet SAR

MEASUREMENT RESULTS																						
FREQUENCY		Side	Spacing	Mode	Antenna Config	Tune State	Serial Number	Bandwidth [MHz]	Waveform	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPR [dB]	Power Drift [dB]	Duty Cycle	SAR (10g) (W/kg)	Scaling Factor	Reported SAR (10g) (W/kg)	Plot #	
MHz	Ch.																					
1882.50	376500	Mid	back	8 mm	NR Band n25	A	32	0233M	40	DFT-S-OFDM	QPSK	1	1	24.5	23.73	0	-0.11	1:1	0.709	1.194	0.847	
1882.50	376500	Mid	back	8 mm	NR Band n25	A	32	0233M	40	DFT-S-OFDM	QPSK	108	54	24.5	23.81	0	0.00	1:1	0.810	1.172	0.949	
1882.50	376500	Mid	front	6 mm	NR Band n25	A	36	0233M	40	DFT-S-OFDM	QPSK	1	1	24.5	23.73	0	-0.05	1:1	0.974	1.194	1.163	
1882.50	376500	Mid	front	6 mm	NR Band n25	A	36	0233M	40	DFT-S-OFDM	QPSK	108	54	24.5	23.81	0	-0.06	1:1	1.120	1.172	1.313	
1882.50	376500	Mid	bottom	11 mm	NR Band n25	A	32	0233M	40	DFT-S-OFDM	QPSK	1	1	24.5	23.73	0	0.02	1:1	0.939	1.194	1.121	
1882.50	376500	Mid	bottom	11 mm	NR Band n25	A	32	0233M	40	DFT-S-OFDM	QPSK	108	54	24.5	23.81	0	0.04	1:1	1.210	1.172	1.418	
1882.50	376500	Mid	right	0 mm	NR Band n25	A	36	0233M	40	DFT-S-OFDM	QPSK	1	1	24.5	23.73	0	-0.14	1:1	0.240	1.194	0.287	
1882.50	376500	Mid	right	0 mm	NR Band n25	A	36	0233M	40	DFT-S-OFDM	QPSK	108	54	24.5	23.81	0	-0.06	1:1	0.287	1.172	0.336	
1882.50	376500	Mid	left	0 mm	NR Band n25	A	32	0233M	40	DFT-S-OFDM	QPSK	1	1	24.5	23.73	0	-0.01	1:1	0.697	1.194	0.832	
1882.50	376500	Mid	left	0 mm	NR Band n25	A	32	0233M	40	DFT-S-OFDM	QPSK	108	54	24.5	23.81	0	-0.01	1:1	0.687	1.172	0.805	
1882.50	376500	Mid	back	0 mm	NR Band n25	A	39	0233M	40	DFT-S-OFDM	QPSK	1	1	22.5	21.88	0	-0.03	1:1	2.330	1.153	2.686	A102
1882.50	376500	Mid	back	0 mm	NR Band n25	A	33	0233M	40	DFT-S-OFDM	QPSK	108	0	22.5	21.91	0	-0.05	1:1	2.320	1.146	2.659	
1882.50	376500	Mid	back	0 mm	NR Band n25	A	33	0233M	40	DFT-S-OFDM	QPSK	216	0	22.5	21.87	0	0.01	1:1	2.250	1.156	2.601	
1882.50	376500	Mid	front	0 mm	NR Band n25	A	137	0233M	40	DFT-S-OFDM	QPSK	1	1	22.5	21.88	0	-0.06	1:1	1.260	1.153	1.453	
1882.50	376500	Mid	front	0 mm	NR Band n25	A	137	0233M	40	DFT-S-OFDM	QPSK	108	0	22.5	21.91	0	-0.01	1:1	1.210	1.146	1.387	
1882.50	376500	Mid	bottom	0 mm	NR Band n25	A	137	0233M	40	DFT-S-OFDM	QPSK	1	1	22.5	21.88	0	0.03	1:1	2.520	1.153	2.906	
1882.50	376500	Mid	bottom	0 mm	NR Band n25	A	137	0233M	40	DFT-S-OFDM	QPSK	108	0	22.5	21.91	0	0.05	1:1	2.460	1.146	2.819	
1882.50	376500	Mid	bottom	0 mm	NR Band n25	A	137	0233M	40	DFT-S-OFDM	QPSK	216	0	22.5	21.87	0	-0.08	1:1	2.480	1.156	2.867	
1882.50	376500	Mid	bottom	0 mm	NR Band n25	A	137	0233M	40	CP-OFDM	QPSK	1	1	22.5	21.43	0	-0.17	1:1	2.140	1.279	2.737	
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 11-87
NR Band n30 Phablet SAR

MEASUREMENT RESULTS																					
FREQUENCY			Side	Spacing	Mode	Antenna Config	Serial Number	Bandwidth [MHz]	Waveform	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPR [dB]	Power Drift [dB]	Duty Cycle	SAR (10g) [W/kg]	Scaling Factor	Reported SAR (10g) [W/kg]	Plot #
MHz	Ch.																				
2310.00	462000	Mid	back	8 mm	NR Band n30	A	0282M	10	DFT-S-OFDM	QPSK	1	26	23.5	22.62	0	-0.20	1:1	0.437	1.225	0.535	
2310.00	462000	Mid	back	8 mm	NR Band n30	A	0282M	10	DFT-S-OFDM	QPSK	25	14	23.5	22.58	0	-0.20	1:1	0.481	1.236	0.595	
2310.00	462000	Mid	front	6 mm	NR Band n30	A	0282M	10	DFT-S-OFDM	QPSK	1	26	23.5	22.62	0	-0.10	1:1	0.578	1.225	0.708	
2310.00	462000	Mid	front	6 mm	NR Band n30	A	0282M	10	DFT-S-OFDM	QPSK	25	14	23.5	22.58	0	-0.02	1:1	0.652	1.236	0.806	
2310.00	462000	Mid	bottom	11 mm	NR Band n30	A	0282M	10	DFT-S-OFDM	QPSK	1	26	23.5	22.62	0	-0.17	1:1	0.575	1.225	0.704	
2310.00	462000	Mid	bottom	11 mm	NR Band n30	A	0282M	10	DFT-S-OFDM	QPSK	25	14	23.5	22.58	0	-0.05	1:1	0.621	1.236	0.768	
2310.00	462000	Mid	right	0 mm	NR Band n30	A	0282M	10	DFT-S-OFDM	QPSK	1	26	23.5	22.62	0	0.01	1:1	0.121	1.225	0.148	
2310.00	462000	Mid	right	0 mm	NR Band n30	A	0282M	10	DFT-S-OFDM	QPSK	25	14	23.5	22.58	0	-0.08	1:1	0.136	1.236	0.168	
2310.00	462000	Mid	left	0 mm	NR Band n30	A	0282M	10	DFT-S-OFDM	QPSK	1	26	23.5	22.62	0	-0.01	1:1	0.334	1.225	0.409	
2310.00	462000	Mid	left	0 mm	NR Band n30	A	0282M	10	DFT-S-OFDM	QPSK	25	14	23.5	22.58	0	-0.01	1:1	0.346	1.236	0.428	
2310.00	462000	Mid	back	0 mm	NR Band n30	A	0282M	10	DFT-S-OFDM	QPSK	1	50	22.0	20.55	0	0.02	1:1	1.440	1.396	2.010	
2310.00	462000	Mid	back	0 mm	NR Band n30	A	0282M	10	DFT-S-OFDM	QPSK	25	27	22.0	20.65	0	-0.17	1:1	1.370	1.365	1.870	
2310.00	462000	Mid	back	0 mm	NR Band n30	A	0282M	10	DFT-S-OFDM	QPSK	50	0	22.0	20.54	0	0.07	1:1	1.360	1.400	1.904	
2310.00	462000	Mid	front	0 mm	NR Band n30	A	0282M	10	DFT-S-OFDM	QPSK	1	50	22.0	20.55	0	0.11	1:1	1.610	1.396	2.248	
2310.00	462000	Mid	front	0 mm	NR Band n30	A	0282M	10	DFT-S-OFDM	QPSK	25	27	22.0	20.65	0	-0.01	1:1	1.810	1.365	2.471	
2310.00	462000	Mid	front	0 mm	NR Band n30	A	0282M	10	DFT-S-OFDM	QPSK	50	0	22.0	20.54	0	0.00	1:1	1.840	1.400	2.576	A103
2310.00	462000	Mid	front	0 mm	NR Band n30	A	0282M	10	CP-OFDM	QPSK	1	1	22.0	20.46	0	0.01	1:1	1.830	1.426	2.610	
2310.00	462000	Mid	bottom	0 mm	NR Band n30	A	0282M	10	DFT-S-OFDM	QPSK	1	50	22.0	20.55	0	-0.05	1:1	1.360	1.396	1.899	
2310.00	462000	Mid	bottom	0 mm	NR Band n30	A	0282M	10	DFT-S-OFDM	QPSK	25	27	22.0	20.65	0	-0.09	1:1	1.740	1.365	2.375	
2310.00	462000	Mid	bottom	0 mm	NR Band n30	A	0282M	10	DFT-S-OFDM	QPSK	50	0	22.0	20.54	0	-0.01	1:1	1.790	1.400	2.506	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population									Phablet 4.0 W/kg (mW/g) averaged over 10 grams												

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Table 11-88
NR Band n7 Phablet SAR

MEASUREMENT RESULTS																					
FREQUENCY		Side	Spacing	Mode	Antenna Config	Serial Number	Bandwidth [MHz]	Waveform	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPR [dB]	Power Drift [dB]	Duty Cycle	SAR (10g)	Scaling Factor	Reported SAR (10g)	Plot #	
MHz	Ch.																(W/kg)		(W/kg)		
2535.00	507000	Mid	back	8 mm	NR Band n7	B	0230M	40	DFT-S-OFDM	QPSK	1	108	24.0	22.60	0	0.05	1:1	0.511	1.380	0.705	
2535.00	507000	Mid	back	8 mm	NR Band n7	B	0230M	40	DFT-S-OFDM	QPSK	108	54	24.0	22.74	0	-0.03	1:1	0.496	1.337	0.663	
2535.00	507000	Mid	front	6 mm	NR Band n7	B	0230M	40	DFT-S-OFDM	QPSK	1	108	24.0	22.60	0	0.08	1:1	0.352	1.380	0.486	
2535.00	507000	Mid	front	6 mm	NR Band n7	B	0230M	40	DFT-S-OFDM	QPSK	108	54	24.0	22.74	0	0.13	1:1	0.412	1.337	0.551	
2535.00	507000	Mid	bottom	11 mm	NR Band n7	B	0230M	40	DFT-S-OFDM	QPSK	1	108	24.0	22.60	0	-0.13	1:1	0.255	1.380	0.352	
2535.00	507000	Mid	bottom	11 mm	NR Band n7	B	0230M	40	DFT-S-OFDM	QPSK	108	54	24.0	22.74	0	-0.05	1:1	0.287	1.337	0.384	
2535.00	507000	Mid	left	0 mm	NR Band n7	B	0230M	40	DFT-S-OFDM	QPSK	1	108	24.0	22.60	0	0.00	1:1	1.780	1.380	2.456	
2535.00	507000	Mid	left	0 mm	NR Band n7	B	0230M	40	DFT-S-OFDM	QPSK	108	54	24.0	22.74	0	-0.02	1:1	1.800	1.337	2.407	
2535.00	507000	Mid	left	0 mm	NR Band n7	B	0230M	40	DFT-S-OFDM	QPSK	216	0	23.0	21.72	1	0.08	1:1	1.440	1.343	1.934	
2535.00	507000	Mid	back	0 mm	NR Band n7	B	0230M	40	DFT-S-OFDM	QPSK	1	108	22.5	21.14	0	0.07	1:1	1.880	1.368	2.572	
2535.00	507000	Mid	back	0 mm	NR Band n7	B	0230M	40	DFT-S-OFDM	QPSK	108	54	22.5	21.33	0	-0.02	1:1	1.890	1.309	2.474	
2535.00	507000	Mid	back	0 mm	NR Band n7	B	0230M	40	DFT-S-OFDM	QPSK	216	0	22.5	21.13	0	-0.11	1:1	1.820	1.371	2.495	
2535.00	507000	Mid	back	0 mm	NR Band n7	B	0230M	40	CP-OFDM	QPSK	1	1	22.5	21.00	0	0.04	1:1	1.730	1.413	2.444	
2535.00	507000	Mid	front	0 mm	NR Band n7	B	0230M	40	DFT-S-OFDM	QPSK	1	108	22.5	21.14	0	0.01	1:1	1.360	1.368	1.860	
2535.00	507000	Mid	front	0 mm	NR Band n7	B	0230M	40	DFT-S-OFDM	QPSK	108	54	22.5	21.33	0	-0.05	1:1	1.310	1.309	1.715	
2535.00	507000	Mid	bottom	0 mm	NR Band n7	B	0230M	40	DFT-S-OFDM	QPSK	1	108	22.5	21.14	0	0.04	1:1	1.490	1.368	2.038	
2535.00	507000	Mid	bottom	0 mm	NR Band n7	B	0230M	40	DFT-S-OFDM	QPSK	108	54	22.5	21.33	0	-0.04	1:1	1.530	1.309	2.003	
2535.00	507000	Mid	bottom	0 mm	NR Band n7	B	0230M	40	DFT-S-OFDM	QPSK	216	0	22.5	21.13	0	-0.02	1:1	1.530	1.371	2.098	
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 11-89
NR Band n41 Phablet SAR

MEASUREMENT RESULTS																						
FREQUENCY		Side	Spacing	Mode	Antenna Config	Path	Serial Number	Bandwidth [MHz]	Waveform	Modulation	RB Size	RB Offset	Maximum Allowed Power [dBm]	Conducted Power [dBm]	MPR [dB]	Power Drift [dB]	Duty Cycle	SAR (10g)	Scaling Factor	Reported SAR (10g)	Plot #	
MHz	Ch.																	(W/kg)		(W/kg)		
2592.99	518598	Mid	top	0 mm	NR Band n41	F	Path 1	0387M	100	DFT-S-OFDM	QPSK	1	137	20.5	19.56	0	0.02	1:1	1.440	1.242	1.788	A105
2592.99	518598	Mid	top	0 mm	NR Band n41	F	Path 1	0387M	100	DFT-S-OFDM	QPSK	135	69	20.5	19.58	0	-0.03	1:1	1.470	1.236	1.817	
2592.99	518598	Mid	top	0 mm	NR Band n41	F	Path 1	0387M	100	DFT-S-OFDM	QPSK	270	0	20.5	19.46	0	0.04	1:1	1.530	1.271	1.945	
2592.99	518598	Mid	top	0 mm	NR Band n41	F	Path 1	0387M	100	CP-OFDM	QPSK	1	1	20.5	19.44	0	0.06	1:1	1.520	1.276	1.940	
2592.99	518598	Mid	top	0 mm	NR Band n41	F	Path 2	0387M	100	CW/SRS	N/A	N/A	N/A	17.5	16.02	N/A	-0.03	1:1	0.875	1.406	1.230	
2592.99	518598	Mid	back	0 mm	NR Band n41	B	Path 1	0387M	100	CW/SRS	N/A	N/A	N/A	16.5	15.62	N/A	-0.12	1:1	1.090	1.225	1.335	
2592.99	518598	Mid	back	0 mm	NR Band n41	B	Path 2	0387M	100	DFT-S-OFDM	QPSK	1	1	22.0	21.44	0	-0.17	1:1	2.100	1.138	2.390	
2592.99	518598	Mid	back	0 mm	NR Band n41	B	Path 2	0387M	100	DFT-S-OFDM	QPSK	135	0	22.0	21.41	0	-0.13	1:1	2.050	1.146	2.349	
2592.99	518598	Mid	back	0 mm	NR Band n41	B	Path 2	0387M	100	DFT-S-OFDM	QPSK	270	0	22.0	21.25	0	-0.16	1:1	2.010	1.189	2.390	
2592.99	518598	Mid	back	0 mm	NR Band n41	B	Path 2	0387M	100	CP-OFDM	QPSK	1	1	22.0	21.32	0	-0.08	1:1	1.990	1.169	2.326	
2592.99	518598	Mid	bottom	0 mm	NR Band n41	B	Path 2	0387M	100	DFT-S-OFDM	QPSK	1	1	22.0	21.44	0	-0.09	1:1	1.310	1.138	1.491	
2592.99	518598	Mid	bottom	0 mm	NR Band n41	B	Path 2	0387M	100	DFT-S-OFDM	QPSK	135	0	22.0	21.41	0	-0.09	1:1	1.390	1.146	1.593	
2592.99	518598	Mid	bottom	0 mm	NR Band n41	B	Path 2	0387M	100	DFT-S-OFDM	QPSK	270	0	22.0	21.25	0	-0.13	1:1	1.420	1.189	1.688	
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: Light Purple entries indicate the additional check on the worst case exposure scenario for the n41 pathway that is not fully evaluated.

Table 11-90
NR Band n77 Phablet SAR

MEASUREMENT RESULTS																			
FREQUENCY			Side	Spacing	Mode	Antenna Config	Bandwidth [MHz]	Waveform	Modulation	RB Size	RB Offset	Conducted Power [dBm]	MPR [dB]	Power Drift [dB]	Duty Cycle	SAR (10g)	Scaling Factor	Reported SAR (10g)	Plot #
MHz	Ch.	(W/kg)														(W/kg)			
3500.01	633334	Mid	back	0 mm	NR Band n77 DoD	F	100	DFT-S-OFDM	QPSK	1	1	17.32	0	0.00	1:1	0.596	1.169	0.697	A106
3930.00	662000	High	back	0 mm	NR Band n77	F	100	DFT-S-OFDM	QPSK	1	137	18.00	0	0.04	1:1	0.747	1.000	0.747	A107
3930.00	662000	High	back	0 mm	NR Band n77	F	100	DFT-S-OFDM	QPSK	135	69	17.71	0	-0.04	1:1	0.693	1.069	0.741	
3930.00	662000	High	back	0 mm	NR Band n77	F	100	CP-OFDM	QPSK	1	1	17.48	0	-0.09	1:1	0.627	1.127	0.707	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population									Phablet 4 W/kg (mW/g) averaged over 10 grams										

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Table 11-91
WLAN MIMO Phablet SAR

MEASUREMENT RESULTS																					
FREQUENCY		Side	Spacing	Mode	Service	Antenna Config.	Device Serial Number	Bandwidth [MHz]	Data Rate [Mbps]	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]	Maximum Duty Cycle (%)	Duty Cycle (%)	SAR (10g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (10g)	Plot #
MHz	Ch.																(W/kg)			(W/kg)	
5320	64	back	0 mm	802.11n	OFDM	MIMO	0219M	20	13	18.0	17.99	18.0	17.00	0.03	100.00	92.79	0.561	1.259	1.078	0.761	
5320	64	front	0 mm	802.11n	OFDM	MIMO	0219M	20	13	18.0	17.99	18.0	17.00	0.04	100.00	92.79	0.743	1.259	1.078	1.008	
5320	64	top	0 mm	802.11n	OFDM	MIMO	0219M	20	13	18.0	17.99	18.0	17.00	-0.05	100.00	92.79	0.402	1.259	1.078	0.546	
5320	64	right	0 mm	802.11n	OFDM	MIMO	0219M	20	13	18.0	17.99	18.0	17.00	0.06	100.00	92.79	0.110	1.259	1.078	0.149	
5320	64	left	0 mm	802.11n	OFDM	MIMO	0219M	20	13	18.0	17.99	18.0	17.00	0.01	100.00	92.79	1.200	1.259	1.078	1.629	
5500	100	back	0 mm	802.11n	OFDM	MIMO	0219M	20	13	18.0	17.94	18.0	17.93	-0.01	100.00	92.79	0.742	1.016	1.078	0.813	
5500	100	front	0 mm	802.11n	OFDM	MIMO	0219M	20	13	18.0	17.94	18.0	17.93	-0.08	100.00	92.79	0.795	1.016	1.078	0.871	
5500	100	top	0 mm	802.11n	OFDM	MIMO	0219M	20	13	18.0	17.94	18.0	17.93	-0.08	100.00	92.79	0.330	1.016	1.078	0.361	
5500	100	right	0 mm	802.11n	OFDM	MIMO	0219M	20	13	18.0	17.94	18.0	17.93	0.02	100.00	92.79	0.076	1.016	1.078	0.083	
5500	100	left	0 mm	802.11n	OFDM	MIMO	0219M	20	13	18.0	17.94	18.0	17.93	0.01	100.00	92.79	1.550	1.016	1.078	1.698	A108
5600	120	left	0 mm	802.11n	OFDM	MIMO	0219M	20	13	18.0	17.55	18.0	16.67	0.02	100.00	92.79	1.510	1.358	1.078	2.211	
5620	124	left	0 mm	802.11n	OFDM	MIMO	0219M	20	13	18.0	17.48	18.0	16.71	-0.05	100.00	92.79	1.540	1.346	1.078	2.235	
5720	144	left	0 mm	802.11n	OFDM	MIMO	0219M	20	13	18.0	17.71	18.0	16.74	-0.02	100.00	92.79	1.490	1.337	1.078	2.148	
5865	173	back	0 mm	802.11n	OFDM	MIMO	0219M	20	13	18.0	17.94	18.0	17.91	0.00	100.00	92.79	0.684	1.021	1.078	0.753	
5865	173	front	0 mm	802.11n	OFDM	MIMO	0219M	20	13	18.0	17.94	18.0	17.91	0.03	100.00	92.79	0.802	1.021	1.078	0.883	
5865	173	top	0 mm	802.11n	OFDM	MIMO	0219M	20	13	18.0	17.94	18.0	17.91	-0.02	100.00	92.79	0.375	1.021	1.078	0.413	
5865	173	right	0 mm	802.11n	OFDM	MIMO	0219M	20	13	18.0	17.94	18.0	17.91	0.20	100.00	92.79	0.119	1.021	1.078	0.131	
5845	169	left	0 mm	802.11n	OFDM	MIMO	0219M	20	13	18.0	17.62	18.0	16.45	0.01	100.00	92.79	1.430	1.429	1.078	2.203	
5865	173	left	0 mm	802.11n	OFDM	MIMO	0219M	20	13	18.0	17.94	18.0	17.91	0.01	100.00	92.79	1.540	1.021	1.078	1.695	
5885	177	left	0 mm	802.11n	OFDM	MIMO	0219M	20	13	18.0	17.82	18.0	16.78	0.08	100.00	92.79	1.460	1.324	1.078	2.084	
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 11-92
WLAN MIMO Phablet SAR during Conditions with 5G FR2 NR

MEASUREMENT RESULTS																					
FREQUENCY		Side	Spacing	Mode	Service	Antenna Config.	Device Serial Number	Bandwidth [MHz]	Data Rate (Mbps)	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]	Maximum Duty Cycle (%)	Duty Cycle (%)	SAR (10g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (10g)	Plot #
MHz	Ch.																(W/kg)			(W/kg)	
5290	58	back	0 mm	802.11ac	OFDM	MIMO	0219M	80	58.5	14.0	13.36	14.0	13.96	0.09	100.00	92.39	0.206	1.159	1.082	0.258	
5290	58	front	0 mm	802.11ac	OFDM	MIMO	0219M	80	58.5	14.0	13.36	14.0	13.96	0.01	100.00	92.39	0.279	1.159	1.082	0.350	
5290	58	top	0 mm	802.11ac	OFDM	MIMO	0219M	80	58.5	14.0	13.36	14.0	13.96	-0.15	100.00	92.39	0.164	1.159	1.082	0.206	
5290	58	right	0 mm	802.11ac	OFDM	MIMO	0219M	80	58.5	14.0	13.36	14.0	13.96	0.01	100.00	92.39	0.034	1.159	1.082	0.043	
5290	58	left	0 mm	802.11ac	OFDM	MIMO	0219M	80	58.5	14.0	13.36	14.0	13.96	0.03	100.00	92.39	0.405	1.159	1.082	0.508	
5690	138	back	0 mm	802.11ac	OFDM	MIMO	0219M	80	58.5	14.0	13.62	14.0	13.78	0.05	100.00	92.39	0.246	1.091	1.082	0.290	
5690	138	front	0 mm	802.11ac	OFDM	MIMO	0219M	80	58.5	14.0	13.62	14.0	13.78	0.20	100.00	92.39	0.229	1.091	1.082	0.270	
5690	138	top	0 mm	802.11ac	OFDM	MIMO	0219M	80	58.5	14.0	13.62	14.0	13.78	0.08	100.00	92.39	0.141	1.091	1.082	0.166	
5690	138	right	0 mm	802.11ac	OFDM	MIMO	0219M	80	58.5	14.0	13.62	14.0	13.78	0.20	100.00	92.39	0.034	1.091	1.082	0.040	
5690	138	left	0 mm	802.11ac	OFDM	MIMO	0219M	80	58.5	14.0	13.62	14.0	13.78	-0.18	100.00	92.39	0.619	1.091	1.082	0.731	
5855	171	back	0 mm	802.11ac	OFDM	MIMO	0219M	80	58.5	14.0	13.77	14.0	13.26	0.20	100.00	92.39	0.261	1.186	1.082	0.335	
5855	171	front	0 mm	802.11ac	OFDM	MIMO	0219M	80	58.5	14.0	13.77	14.0	13.26	0.03	100.00	92.39	0.324	1.186	1.082	0.416	
5855	171	top	0 mm	802.11ac	OFDM	MIMO	0219M	80	58.5	14.0	13.77	14.0	13.26	0.05	100.00	92.39	0.144	1.186	1.082	0.185	
5855	171	right	0 mm	802.11ac	OFDM	MIMO	0219M	80	58.5	14.0	13.77	14.0	13.26	0.07	100.00	92.39	0.034	1.186	1.082	0.044	
5855	171	left	0 mm	802.11ac	OFDM	MIMO	0219M	80	58.5	14.0	13.77	14.0	13.26	0.03	100.00	92.39	0.594	1.186	1.082	0.762	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT												Phablet									
Spatial Peak												4.0 W/kg (mW/g)									
Uncontrolled Exposure/General Population												averaged over 10 grams									

Note: To achieve the 17.0 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 14.0 dBm.

Table 11-93
NFC Phablet SAR

MEASUREMENT RESULTS									
FREQUENCY	Side	Test Position	Mode	Type	Antenna Config.	Device Serial Number	Power Drift	SAR (10g) (W/kg)	Plot #
MHz									
13.56	back	0 mm	NFC	B	NFC	0125M	-0.04	0.024	A109
13.56	front	0 mm	NFC	B	NFC	0125M	0.09	0.000	
13.56	right	0 mm	NFC	B	NFC	0125M	0.02	0.000	
13.56	left	0 mm	NFC	B	NFC	0125M	0.05	0.000	
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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11.5 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 D04v01.
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 D04v01.
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 12 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 display diagonal dimension is > 150 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. 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 13 for supplemental data.
12. Additional SAR tests for phablet SAR were evaluated per KDB 616217 Section 6 (See Section 6.9 for more information).
13. Unless otherwise noted, when 10g SAR measurement is considered, a factor of 2.5 is applied to the 1g thresholds for the equivalent test cases.
14. This device uses Qualcomm Smart Transmit for WWAN 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 D04v01, if the reported (scaled) SAR measured at the 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).

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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 D04v01, if the reported (scaled) SAR measured at the 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).

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 8.5.4.
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 and MCC=001 on the base station simulator. SAR tests were performed with the same number of RB and RB offsets transmitting on all TTI frames (maximum TTI).
4. Per FCC KDB Publication 447498 D04v01, when the reported 1g SAR measured at the highest output power channel in a given a test configuration was > 0.6 W/kg for LTE B41/48, 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.
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 13 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. Due to test setup limitations, SAR testing for NR TDD was performed using test mode software to establish the connection.

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3. Simultaneous transmission analysis for EN-DC operations is addressed in the Part 2 Test Report (Serial Number can be found in the bibliography).
4. This device additionally supports some EN-DC conditions where additional LTE carriers are added on the downlink only.
5. Per FCC Guidance, NR modulations and RB Sizes/Offsets were selected for testing such that configurations with the highest output power were evaluated for SAR tests.
6. Per FCC KDB Publication 447498 D04v01, when the reported NR Band n77 C-Band 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.
7. Per FCC KDB Publication 447498 D04v01, when the reported NR Band n41/48 SAR measured at the highest output power channel in a given a test configuration was > 0.6 W/kg for 1g evaluations and > 1.5 W/kg for 10g evaluation, testing at the other channels was required for such test configurations.
8. SRS was tested with CW signal per Qualcomm guidance in 80-w2112-4.
9. For final implementation, NR Band n41, n48 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.
10. Per FCC Guidance, C-Band for NR n77 (3705 – 3975 MHz) was fully tested according to FCC procedures. For each exposure condition and antenna, the worst-case position was additionally evaluated for the NR n77 DoD (3455.01 – 3544.98 MHz).
11. This device uses two transmit pathways for n41 operations (Path 1 and Path 2). For each exposure condition, the pathway with the highest target power was fully evaluated. The worst case for each antenna and exposure condition was additionally evaluated using the other path.

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 single transmission chain operations, the highest measured maximum output power channel for DSSS was selected for SAR measurement. SAR for OFDM modes (2.4 GHz 802.11g/n/ax) was not required due to the maximum allowed powers and the highest reported DSSS SAR. See Section 8.6.5 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 8.6.6 for more information.
4. Per KDB Publication 248227 D01v02r02, SAR for MIMO was evaluated by following the simultaneous SAR provisions from KDB Publication 447498 D04v01 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 Multi-TX and Antenna SAR Considerations Appendix for complete analysis.
5. When the maximum reported 1g averaged SAR is ≤ 0.8 W/kg, SAR testing on additional channels was not required. Otherwise, SAR for the next highest output power channel was required until the reported SAR result was ≤ 1.20 W/kg for 1g evaluations or all test channels were measured.
6. The device was configured to transmit continuously at the required data rate, channel bandwidth and signal modulation, using the highest transmission duty factor supported by the test mode tools. The reported SAR was scaled to the 100% transmission duty factor to determine compliance. Procedures used to measure the duty factor are identical to that in the associated EMC test reports.
7. When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

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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 78% transmission duty factor for Bluetooth and 87% transmission duty factor for Bluetooth LE to determine compliance. See RF Conducted Power Section for the time domain plot and calculation for the duty factor of the device.
2. Head and Hotspot Bluetooth SAR were evaluated for BT BDR tethering applications.
3. The highest frame average power configurations for both Bluetooth and Bluetooth LE were evaluated for SAR. The worst case configuration was used for the remaining test positions as the most conservative scenario.

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12 SAR MEASUREMENT VARIABILITY

12.1 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 ($\sim 10\%$ 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 12-1
Body SAR Measurement Variability Results

BODY VARIABILITY RESULTS															
Band	FREQUENCY		Mode	Service	Side	Spacing	Channel	Tune State	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)	
1750	1720.00	132072	LTE Band 66 (AWS), 20 MHz Bandwidth	QPSK, 50 RB, 25 RB Offset	bottom	10 mm	A	17	0.840	0.827	1.02	N/A	N/A	N/A	N/A
1900	1905.00	26590	LTE Band 25 (PCS), 20 MHz Bandwidth	QPSK, 50 RB, 50 RB Offset	bottom	10 mm	A	17	0.988	0.933	1.06	N/A	N/A	N/A	N/A
2300	2310.00	462000	NR Band n30, 10 MHz Bandwidth	DFT-S-OFDM, QPSK, 1 RB, 50 RB Offset	bottom	10 mm	A	N/A	0.898	0.804	1.12	N/A	N/A	N/A	N/A
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 12-2
Phablet SAR Measurement Variability Results

PHABLET VARIABILITY RESULTS															
Band	FREQUENCY		Mode	Service	Side	Spacing	Channel	Tune State	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	1712.40	1312	UMTS 1750	RMC	bottom	0 mm	A	136	2.880	2.660	1.08	N/A	N/A	N/A	N/A
1900	1905.00	26590	LTE Band 25 (PCS), 20 MHz Bandwidth	QPSK, 50 RB, 50 RB Offset	bottom	0 mm	A	0	2.590	2.590	1.00	N/A	N/A	N/A	N/A
2450	2510.00	20850	LTE Band 7, 20 MHz Bandwidth	QPSK, 1 RB, 50 RB Offset	back	0 mm	B	N/A	2.070	2.020	1.02	N/A	N/A	N/A	N/A
2600	2680.00	41490	ULCA LTE Band 41, 20 MHz Bandwidth	PCC: QPSK, 50 RB, 0 RB Offset	back	0 mm	B	N/A	2.370	2.350	1.01	N/A	N/A	N/A	N/A
	2660.20	41292		SCC: QPSK, 50 RB, 50 RB Offset											
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population								Phablet 4.0 W/kg (mW/g) averaged over 10 grams							

12.2 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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13 ADDITIONAL TESTING PER FCC GUIDANCE

13.1 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. 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 144 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 measured 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 144 states.

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

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Table 13-1
UMTS Supplemental Head SAR Data

Supplemental Head SAR Data					
UMTS B5		UMTS B4		UMTS B2	
RMC		RMC		RMC	
Test Position	Right Cheek	Test Position	Left Cheek	Test Position	Left Cheek
Frequency (MHz)	836.60	Frequency (MHz)	1732.40	Frequency (MHz)	1852.40
Channel	4183	Channel	1412	Channel	9262
Measured 1g SAR (W/kg)	0.268	Measured 1g SAR (W/kg)	0.146	Measured 1g SAR (W/kg)	0.156
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)	
Auto-tune (State 128)	0.349	Auto-tune (State 137)	0.164	Auto-tune (State 3)	0.168
Default (State 0)	0.333	Default (State 16)	0.139	Default (State 16)	0.155
State 11	0.144	State 10	0.089	State 3	0.159
State 44	0.021	State 43	0.139	State 9	0.151
State 77	0.017	State 76	0.124	State 42	0.141
State 110	0.010	State 109	0.080	State 75	0.139
State 128	0.333	State 137	0.143	State 108	0.128
State 143	0.099	State 142	0.126	State 141	0.126

Table 13-2
LTE Supplemental Head SAR Data

Supplemental Head SAR Data							
LTE B71		LTE B12		LTE B13		LTE B14	
QPSK, 20 MHz Bandwidth, 1 RB, 0 RB Offset		QPSK, 10 MHz Bandwidth, 1 RB, 25 RB Offset		QPSK, 10 MHz Bandwidth, 1 RB, 0 RB Offset		QPSK, 10 MHz Bandwidth, 1 RB, 25 RB Offset	
Test Position	Right Cheek	Test Position	Right Cheek	Test Position	Right Cheek	Test Position	Right Cheek
Frequency (MHz)	680.50	Frequency (MHz)	707.50	Frequency (MHz)	782.00	Frequency (MHz)	793.00
Channel	133297	Channel	23095	Channel	23230	Channel	23330
Measured 1g SAR (W/kg)	0.147	Measured 1g SAR (W/kg)	0.224	Measured 1g SAR (W/kg)	0.257	Measured 1g SAR (W/kg)	0.256
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)	0.171	Auto-tune (State 136)	0.265	Auto-tune (State 136)	0.308	Auto-tune (State 0)	0.299
Default (State 0)	0.183	Default (State 0)	0.268	Default (State 0)	0.318	Default (State 0)	0.303
State 0	0.183	State 7	0.193	State 6	0.271	State 0	0.303
State 8	0.178	State 40	0.034	State 39	0.077	State 5	0.313
State 41	0.024	State 73	0.097	State 72	0.137	State 38	0.094
State 74	0.014	State 106	0.026	State 105	0.071	State 71	0.159
State 107	0.018	State 136	0.266	State 136	0.311	State 104	0.106
State 140	0.009	State 139	0.242	State 138	0.097	State 137	0.222

Supplemental Head SAR Data							
LTE B5		LTE B26		LTE B66		LTE B25	
QPSK, 10 MHz Bandwidth, 1 RB, 0 RB Offset		QPSK, 15 MHz Bandwidth, 1 RB, 36 RB Offset		QPSK, 20 MHz Bandwidth, 1 RB, 99 RB Offset		QPSK, 20 MHz Bandwidth, 1 RB, 0 RB Offset	
Test Position	Right Cheek	Test Position	Right Cheek	Test Position	Left Cheek	Test Position	Right Cheek
Frequency (MHz)	836.50	Frequency (MHz)	831.50	Frequency (MHz)	1720.00	Frequency (MHz)	1860.00
Channel	20525	Channel	26865	Channel	132072	Channel	26140
Measured 1g SAR (W/kg)	0.286	Measured 1g SAR (W/kg)	0.262	Measured 1g SAR (W/kg)	0.172	Measured 1g SAR (W/kg)	0.122
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)	0.333	Auto-tune (State 0)	0.338	Auto-tune (State 32)	0.187	Auto-tune (State 136)	0.131
Default (State 0)	0.328	Default (State 0)	0.320	Default (State 16)	0.178	Default (State 16)	0.132
State 0	0.328	State 0	0.320	State 2	0.143	State 1	0.132
State 4	0.285	State 3	0.281	State 32	0.183	State 34	0.104
State 37	0.108	State 36	0.114	State 35	0.178	State 67	0.088
State 70	0.135	State 69	0.136	State 68	0.179	State 100	0.118
State 103	0.113	State 102	0.126	State 101	0.150	State 133	0.105
State 136	0.325	State 135	0.089	State 134	0.154	State 136	0.133

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Table 13-3
NR Supplemental Head SAR Data

Supplemental Head SAR Data			
NR Band n71		NR Band n12	
DFT-s-OFDM QPSK, 20 MHz Bandwidth, 1 RB, 104 RB Offset		DFT-s-OFDM QPSK, 15 MHz Bandwidth, 36 RB, 22 RB Offset	
Test Position	Left Cheek	Test Position	Right Cheek
Frequency (MHz)	680.50	Frequency (MHz)	707.50
Channel	136100	Channel	141500
Measured 1g SAR (W/kg)	0.240	Measured 1g SAR (W/kg)	0.238
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)	
Auto-tune (State 136)	0.248	Auto-tune (State 136)	0.241
Default (State 0)	0.252	Default (State 0)	0.255
State 0	0.252	State 11	0.079
State 33	0.018	State 32	0.255
State 66	0.029	State 65	0.057
State 99	0.019	State 98	0.060
State 132	0.010	State 131	0.224
State 136	0.245	State 136	0.260

Supplemental Head SAR Data					
NR Band n26		NR Band n66		NR Band n25	
DFT-s-OFDM QPSK, 20 MHz Bandwidth, 1 RB, 1 RB Offset		DFT-s-OFDM QPSK, 40 MHz Bandwidth, 1 RB, 108 RB Offset		DFTS-OFDM QPSK, 40 MHz Bandwidth, 108 RB, 54 RB Offset	
Test Position	Right Cheek	Test Position	Left Cheek	Test Position	Left Cheek
Frequency (MHz)	831.50	Frequency (MHz)	1745.00	Frequency (MHz)	1882.50
Channel	166300	Channel	349000	Channel	376500
Measured 1g SAR (W/kg)	0.252	Measured 1g SAR (W/kg)	0.156	Measured 1g SAR (W/kg)	0.119
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)	0.269	Auto-tune (State 26)	0.173	Auto-tune (State 26)	0.129
Default (State 0)	0.265	Default (State 16)	0.165	Default (State 16)	0.106
State 0	0.265	State 26	0.166	State 26	0.120
State 2	0.246	State 29	0.154	State 28	0.113
State 14	0.050	State 62	0.025	State 61	0.056
State 48	0.248	State 81	0.076	State 83	0.093
State 84	0.230	State 95	0.060	State 94	0.048
State 113	0.099	State 128	0.133	State 129	0.106

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Table 13-4
UMTS Supplemental Body SAR Data

Supplemental Body SAR Data					
UMTS B5		UMTS B4		UMTS B2	
RMC		RMC		RMC	
Test Position	Back	Test Position	Bottom	Test Position	Bottom
Spacing	10 mm	Spacing	10 mm	Spacing	10 mm
Frequency (MHz)	836.60	Frequency (MHz)	1752.60	Frequency (MHz)	1880.00
Channel	4183	Channel	1513	Channel	9400
Measured 1g SAR (W/kg)	0.483	Measured 1g SAR (W/kg)	0.713	Measured 1g SAR (W/kg)	0.744
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)	
Auto-tune (State 139)	0.529	Auto-tune (State 17)	0.731	Auto-tune (State 26)	0.851
Default (State 0)	0.575	Default (State 16)	0.762	Default (State 16)	0.690
State 27	0.312	State 17	0.748	State 1	0.813
State 60	0.167	State 26	0.676	State 25	0.823
State 96	0.261	State 59	0.248	State 26	0.847
State 104	0.197	State 92	0.308	State 58	0.604
State 126	0.016	State 125	0.581	State 91	0.762
State 139	0.544	State 141	0.480	State 124	0.750

Table 13-5
LTE Supplemental Body SAR Data

Supplemental Body SAR Data							
LTE B71		LTE B12		LTE B13		LTE B14	
QPSK, 20 MHz Bandwidth, 1 RB, 0 RB Offset		QPSK, 10 MHz Bandwidth, 1 RB, 25 RB Offset		QPSK, 10 MHz Bandwidth, 1 RB, 0 RB Offset		QPSK, 10 MHz Bandwidth, 1 RB, 25 RB Offset	
Test Position	Back	Test Position	Back	Test Position	Back	Test Position	Back
Spacing	10 mm	Spacing	10 mm	Spacing	10 mm	Spacing	10 mm
Frequency (MHz)	680.50	Frequency (MHz)	707.50	Frequency (MHz)	782.00	Frequency (MHz)	793.00
Channel	133297	Channel	23095	Channel	23230	Channel	23330
Measured 1g SAR (W/kg)	0.428	Measured 1g SAR (W/kg)	0.473	Measured 1g SAR (W/kg)	0.436	Measured 1g SAR (W/kg)	0.501
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)	0.627	Auto-tune (State 136)	0.676	Auto-tune (State 136)	0.725	Auto-tune (State 0)	0.534
Default (State 0)	0.641	Default (State 0)	0.710	Default (State 0)	0.718	Default (State 0)	0.521
State 0	0.641	State 23	0.665	State 22	0.626	State 0	0.522
State 15	0.103	State 33	0.160	State 47	0.005	State 21	0.432
State 24	0.438	State 56	0.338	State 55	0.506	State 54	0.468
State 57	0.428	State 89	0.501	State 88	0.500	State 64	0.086
State 90	0.241	State 122	0.133	State 121	0.263	State 87	0.383
State 123	0.041	State 136	0.709	State 136	0.719	State 120	0.295

Supplemental Body SAR Data							
LTE B5		LTE B26		LTE B66		LTE B25	
QPSK, 10 MHz Bandwidth, 1 RB, 0 RB Offset		QPSK, 15 MHz Bandwidth, 1 RB, 36 RB Offset		QPSK, 20 MHz Bandwidth, 50 RB, 25 RB Offset		QPSK, 20 MHz Bandwidth, 50 RB, 50 RB Offset	
Test Position	Back	Test Position	Back	Test Position	Bottom	Test Position	Bottom
Spacing	10 mm	Spacing	10 mm	Spacing	10 mm	Spacing	10 mm
Frequency (MHz)	836.50	Frequency (MHz)	831.50	Frequency (MHz)	1720.00	Frequency (MHz)	1905.00
Channel	20525	Channel	26865	Channel	132072	Channel	26590
Measured 1g SAR (W/kg)	0.465	Measured 1g SAR (W/kg)	0.501	Measured 1g SAR (W/kg)	0.840	Measured 1g SAR (W/kg)	0.988
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 139)	0.554	Auto-tune (State 0)	0.559	Auto-tune (State 17)	0.957	Auto-tune (State 27)	1.110
Default (State 0)	0.586	Default (State 0)	0.553	Default (State 16)	0.968	Default (State 16)	0.907
State 20	0.544	State 0	0.553	State 17	0.951	State 17	0.963
State 53	0.460	State 19	0.507	State 18	0.948	State 27	1.100
State 80	0.544	State 52	0.448	State 51	0.495	State 50	0.738
State 86	0.506	State 85	0.474	State 84	0.603	State 83	0.825
State 119	0.301	State 92	0.170	State 97	0.886	State 110	0.940
State 139	0.563	State 118	0.260	State 117	0.886	State 116	0.787

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Table 13-6
NR Supplemental Body SAR Data

Supplemental Body SAR Data			
NR Band n71		NR Band n12	
DFT-s-OFDM QPSK, 20 MHz Bandwidth, 1 RB, 104 RB Offset		DFT-s-OFDM QPSK, 15 MHz Bandwidth, 36 RB, 22 RB Offset	
Test Position	Back	Test Position	Back
Spacing	10 mm	Spacing	10 mm
Frequency (MHz)	680.50	Frequency (MHz)	707.50
Channel	136100	Channel	141500
Measured 1g SAR (W/kg)	0.577	Measured 1g SAR (W/kg)	0.501
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)	
Auto-tune (State 0)	0.621	Auto-tune (State 0)	0.520
Default (State 0)	0.632	Default (State 0)	0.570
State 0	0.632	State 0	0.570
State 5	0.501	State 16	0.499
State 31	0.053	State 49	0.382
State 63	0.057	State 82	0.543
State 101	0.049	State 114	0.181
State 127	0.000	State 115	0.185

Supplemental Body SAR Data					
NR Band n26		NR Band n66		NR Band n25	
DFT-OFDM QPSK, 20 MHz Bandwidth, 50 RB, 28 RB Offset		CP-OFDM QPSK, 40 MHz Bandwidth, 1 RB, 1 RB Offset		DFT-s-OFDM QPSK, 40 MHz Bandwidth, 216 RB, 0 RB Offset	
Test Position	Back	Test Position	Bottom	Test Position	Bottom
Spacing	10 mm	Spacing	10 mm	Spacing	10 mm
Frequency (MHz)	831.50	Frequency (MHz)	1745.00	Frequency (MHz)	1882.50
Channel	166300	Channel	349000	Channel	376500
Measured 1g SAR (W/kg)	0.415	Measured 1g SAR (W/kg)	0.811	Measured 1g SAR (W/kg)	0.785
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)	
Auto-tune (State 139)	0.543	Auto-tune (State 17)	0.918	Auto-tune (State 25)	0.895
Default (State 0)	0.551	Default (State 16)	0.940	Default (State 16)	0.766
State 13	0.152	State 17	0.999	State 12	0.953
State 38	0.184	State 30	0.617	State 25	0.897
State 61	0.104	State 46	0.394	State 45	0.838
State 93	0.097	State 79	0.445	State 78	0.008
State 130	0.203	State 112	0.782	State 111	0.640
State 139	0.513	State 140	0.574	State 143	0.602

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13.2 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 13-7
LTE Band 41 Head Linearity Data – Antenna B

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	25.0	26.5
Measured Output Power (dBm)	23.86	25.25
Measured SAR (W/kg)	0.235	0.210
Measured Power (mW)	243.22	334.97
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	153.96	145.04
% deviation from expected linearity		-5.14%

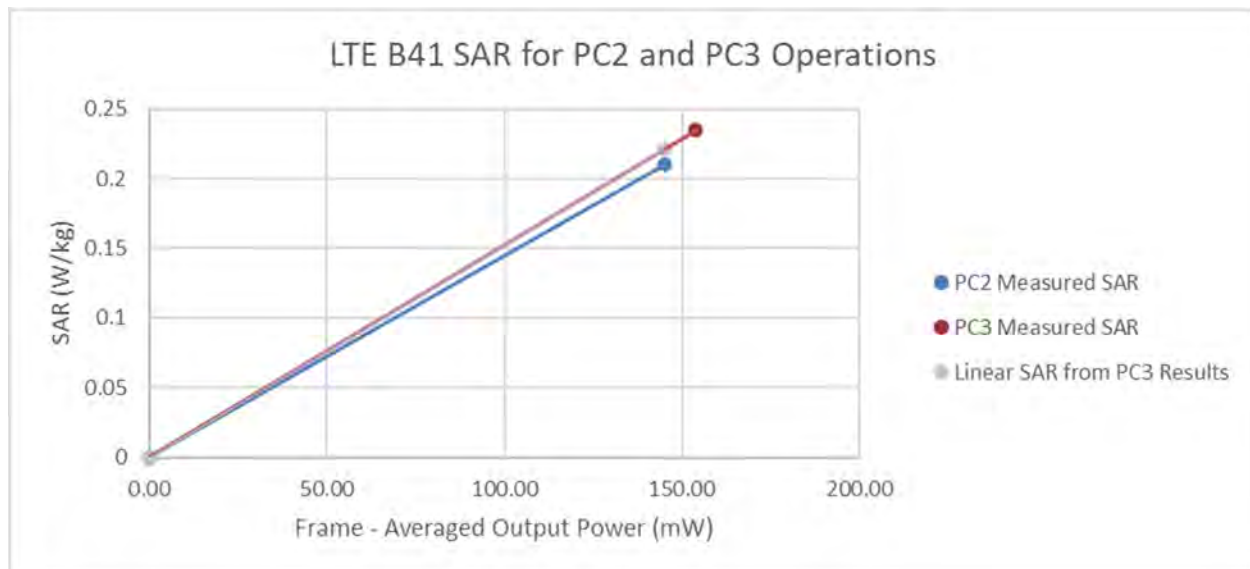


Figure 13-1
LTE Band 41 Head Linearity – Antenna B

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Table 13-8
LTE Band 41 ULCA Head Linearity Data – Antenna B

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	25.0	26.5
Measured Output Power (dBm)	24.09	25.49
Measured SAR (W/kg)	0.236	0.221
Measured Power (mW)	256.45	354.00
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	162.33	153.28
% deviation from expected linearity		-0.83%

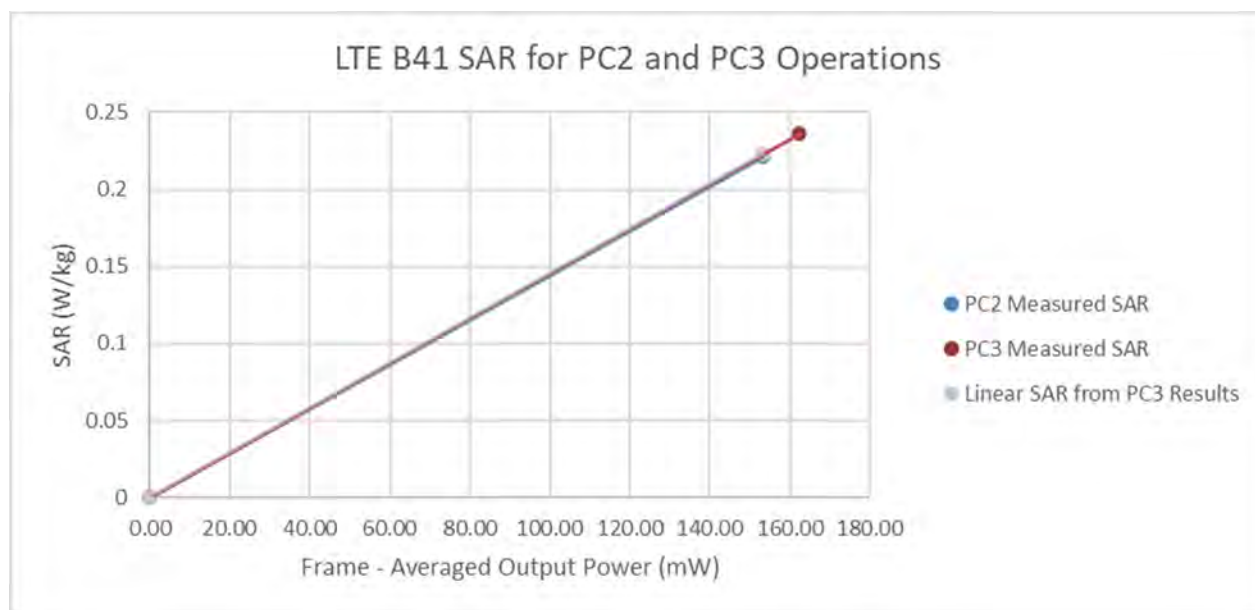


Figure 13-2
LTE Band 41 ULCA Head Linearity – Antenna B

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Table 13-9
LTE Band 41 Head Linearity Data – Antenna F

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	18.00	19.60
Measured Output Power (dBm)	16.44	18.14
Measured SAR (W/kg)	0.487	0.471
Measured Power (mW)	44.06	65.16
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	27.89	28.22
% deviation from expected linearity		-4.41%

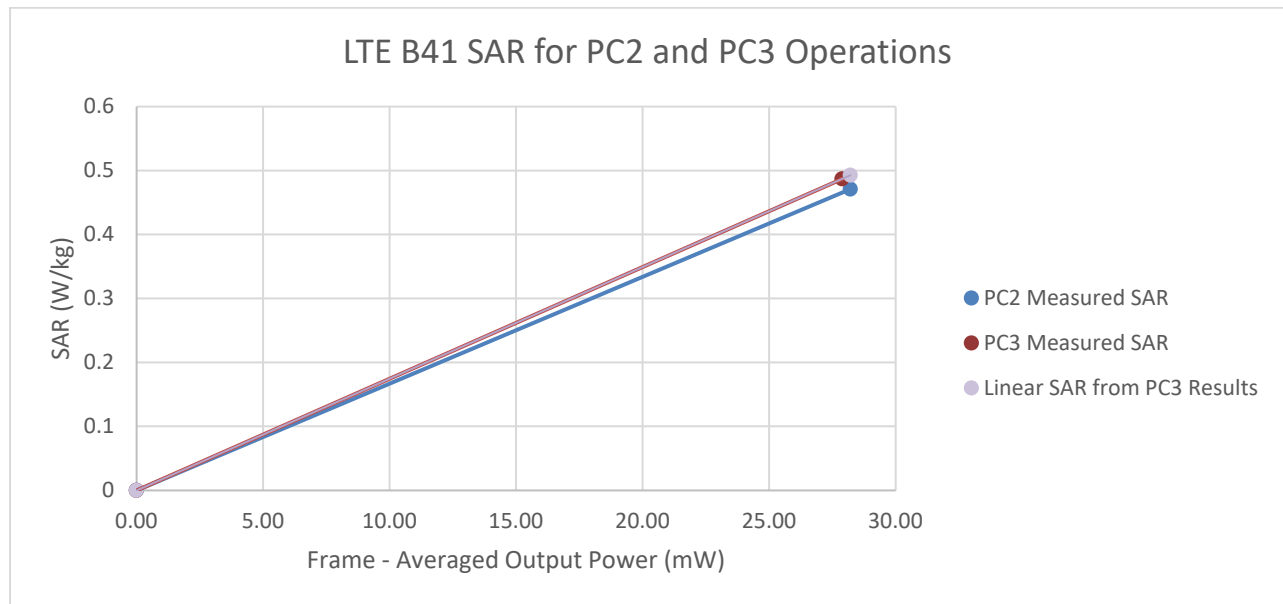


Figure 13-3
LTE Band 41 Head Linearity – Antenna F

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Table 13-10
LTE Band 41 ULCA Head Linearity Data – Antenna F

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	18.0	19.6
Measured Output Power (dBm)	16.48	18.11
Measured SAR (W/kg)	0.483	0.474
Measured Power (mW)	44.46	64.71
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	28.15	28.02
% deviation from expected linearity		-1.43%

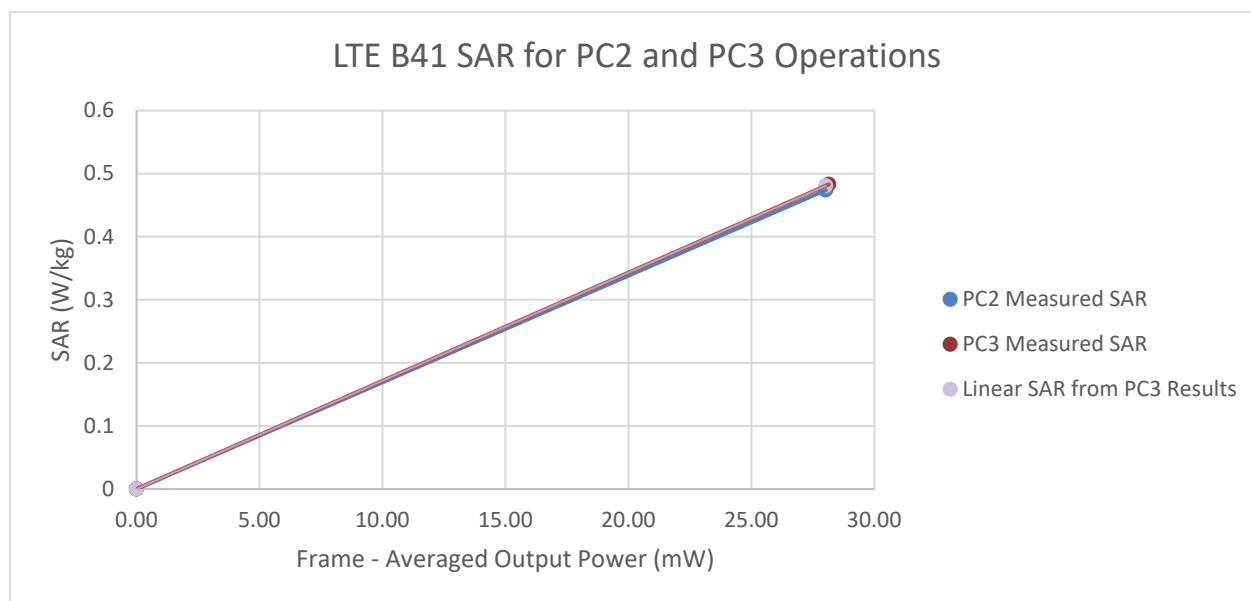


Figure 13-4
LTE Band 41 ULCA Head Linearity – Antenna F

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Table 13-11
LTE Band 41 Body-Worn Linearity Data – Antenna B

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	25.0	26.5
Measured Output Power (dBm)	23.86	25.25
Measured SAR (W/kg)	0.236	0.242
Measured Power (mW)	243.22	334.97
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	153.96	145.04
% deviation from expected linearity		8.85%

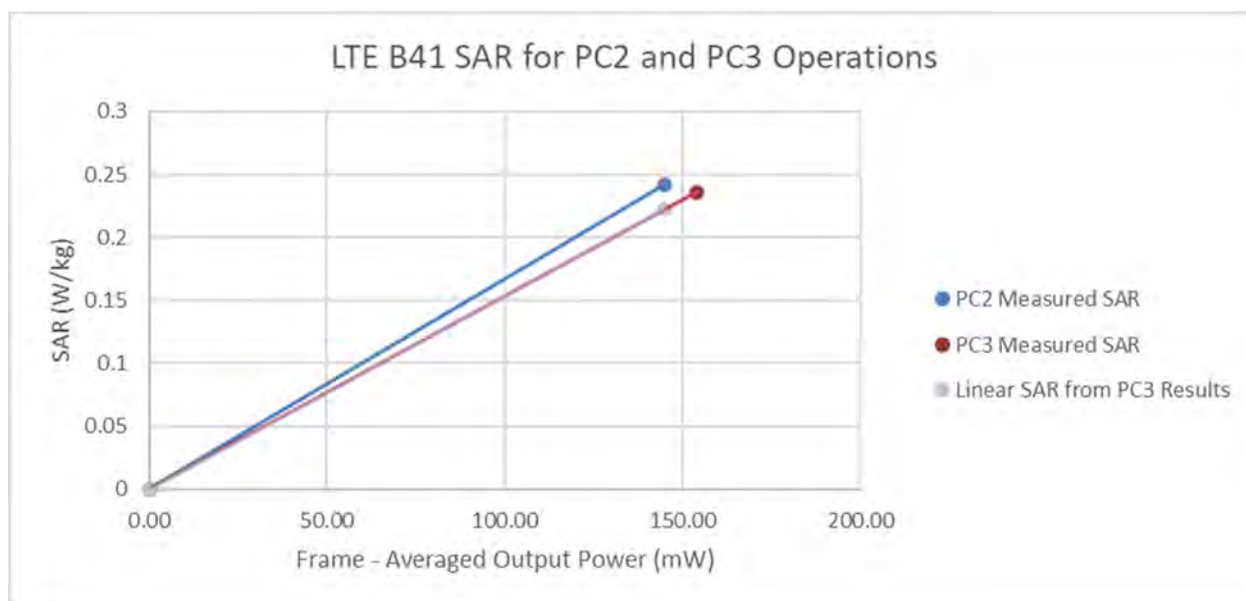


Figure 13-5
LTE Band 41 Body-Worn Linearity - Antenna B

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Table 13-12
LTE Band 41 ULCA Body-Worn Linearity Data – Antenna B

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	25.0	26.5
Measured Output Power (dBm)	24.09	25.49
Measured SAR (W/kg)	0.258	0.239
Measured Power (mW)	256.45	354.00
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	162.33	153.28
% deviation from expected linearity		-1.89%

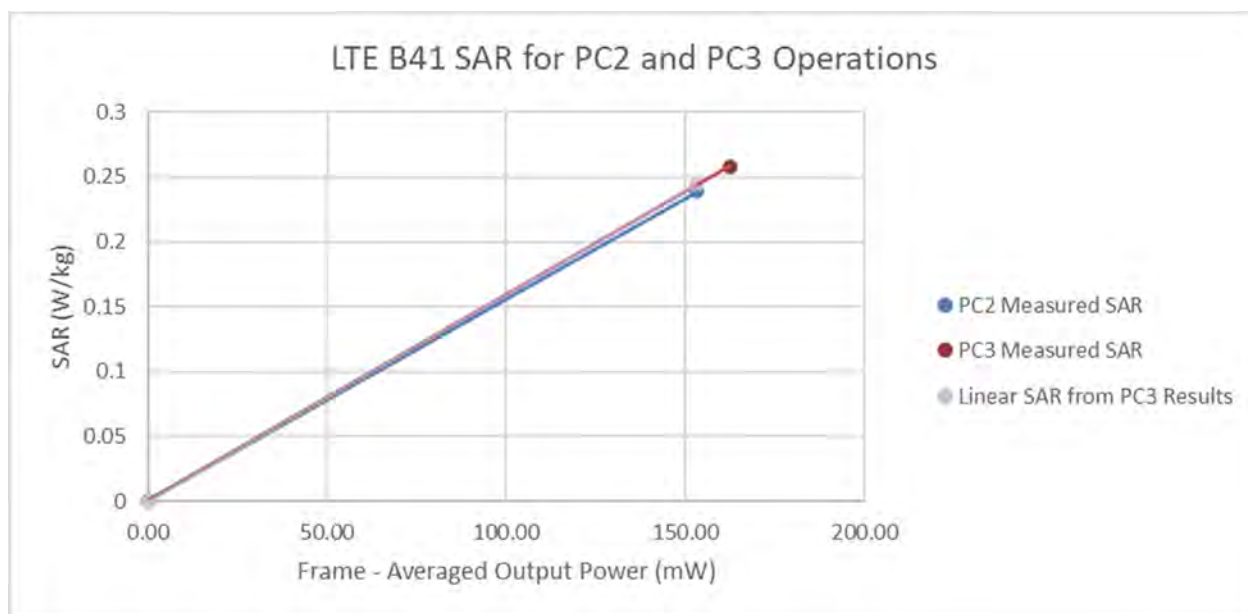


Figure 13-6
LTE Band 41 ULCA Body-Worn Linearity – Antenna B

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Table 13-13
LTE Band 41 Body-Worn Linearity Data – Antenna F

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	22.50	24.10
Measured Output Power (dBm)	22.10	23.61
Measured SAR (W/kg)	0.146	0.154
Measured Power (mW)	162.00	229.61
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	102.55	99.42
% deviation from expected linearity		8.79%

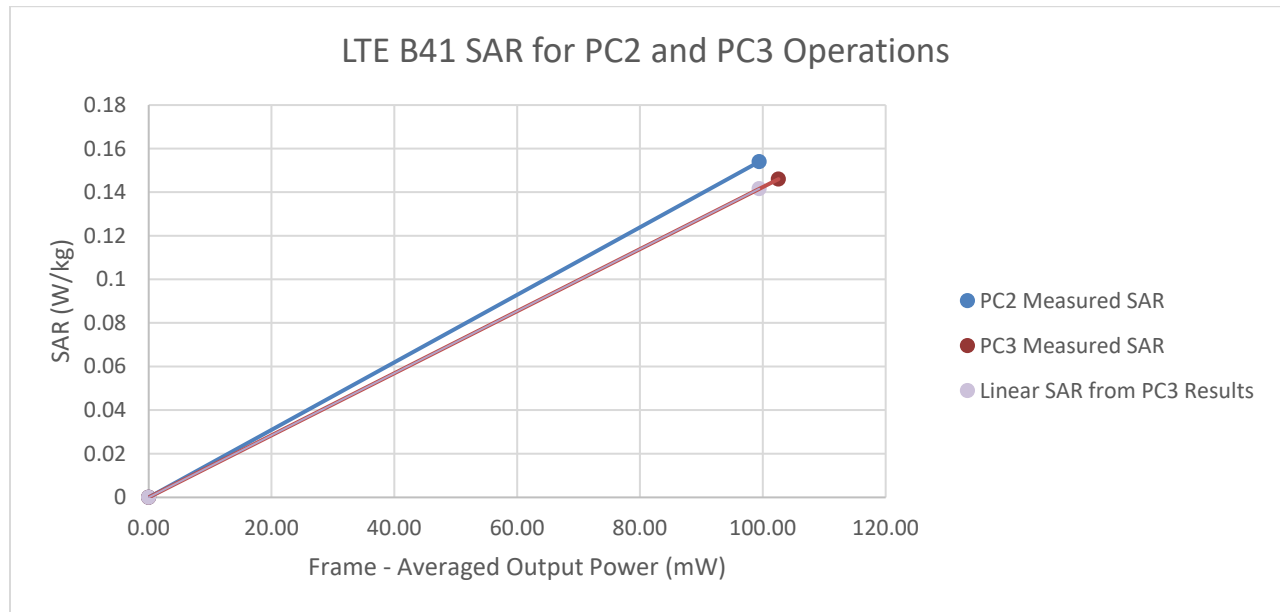


Figure 13-7
LTE Band 41 Body-Worn Linearity - Antenna F

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Table 13-14
LTE Band 41 ULCA Body-Worn Linearity Data – Antenna F

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	22.5	24.1
Measured Output Power (dBm)	21.93	23.50
Measured SAR (W/kg)	0.135	0.144
Measured Power (mW)	155.96	223.87
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	98.72	96.94
% deviation from expected linearity		8.63%

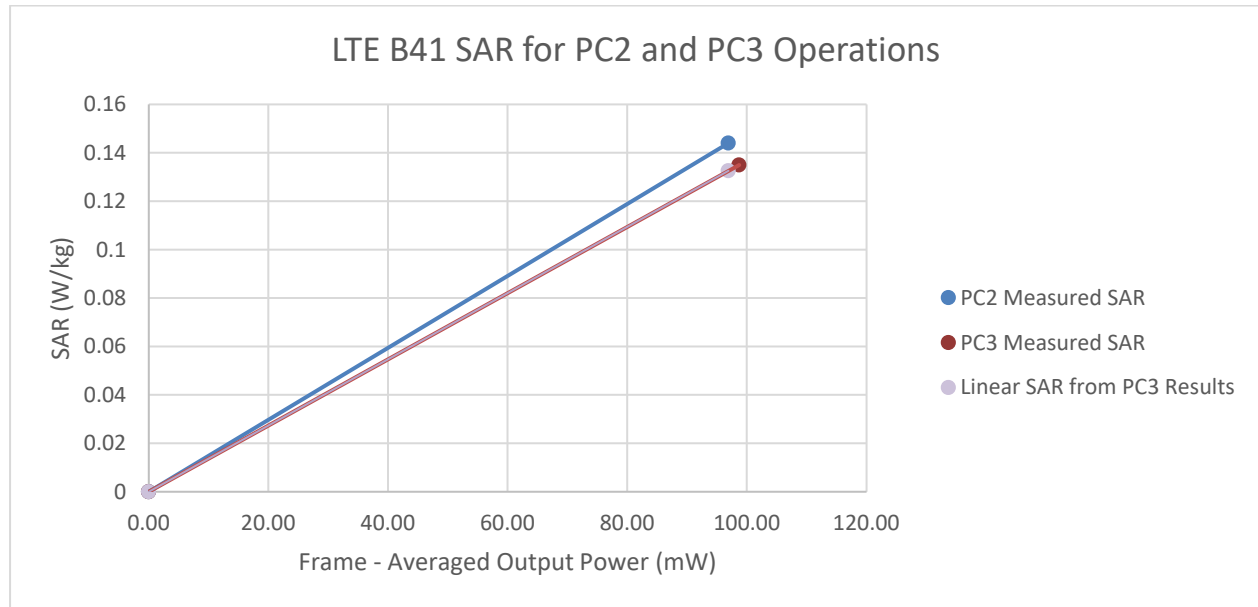


Figure 13-8
LTE Band 41 ULCA Body-Worn Linearity – Antenna F

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Table 13-15
LTE Band 41 Hotspot Linearity Data – Antenna B

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	24.0	25.6
Measured Output Power (dBm)	23.20	24.94
Measured SAR (W/kg)	0.447	0.429
Measured Power (mW)	208.93	311.89
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	132.25	135.05
% deviation from expected linearity	Chart Area	-6.01%

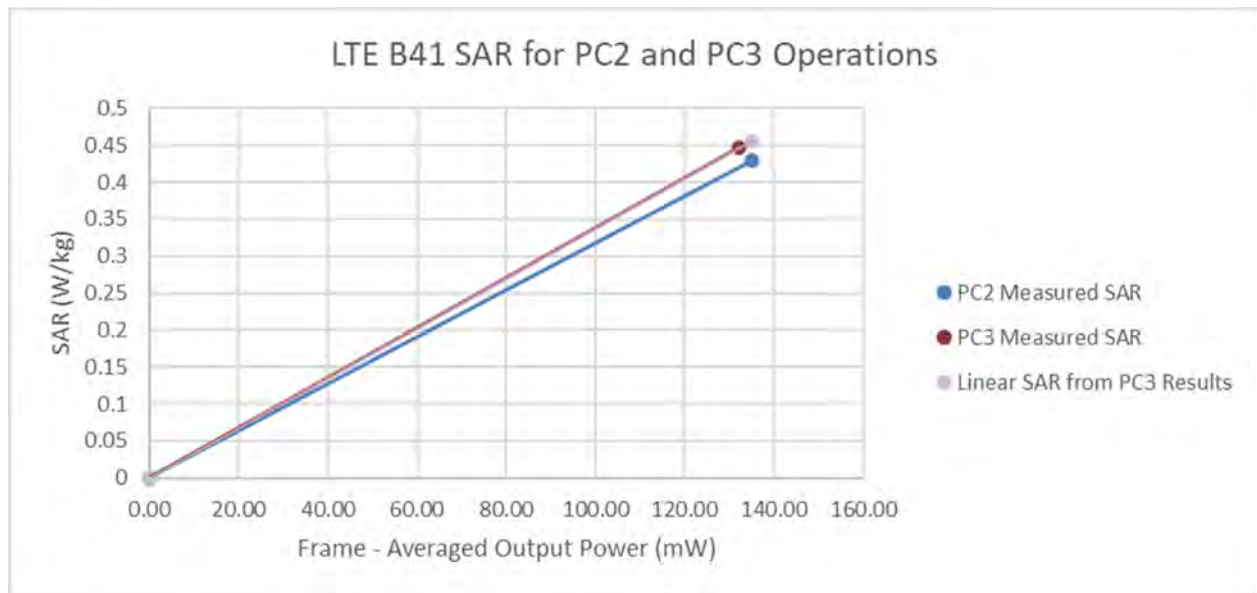


Figure 13-9
LTE Band 41 Hotspot Linearity - Antenna B

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Table 13-16
LTE Band 41 ULCA Hotspot Linearity Data – Antenna B

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	24.0	25.6
Measured Output Power (dBm)	23.14	24.87
Measured SAR (W/kg)	0.426	0.419
Measured Power (mW)	206.06	306.90
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	130.44	132.89
% deviation from expected linearity		-3.46%

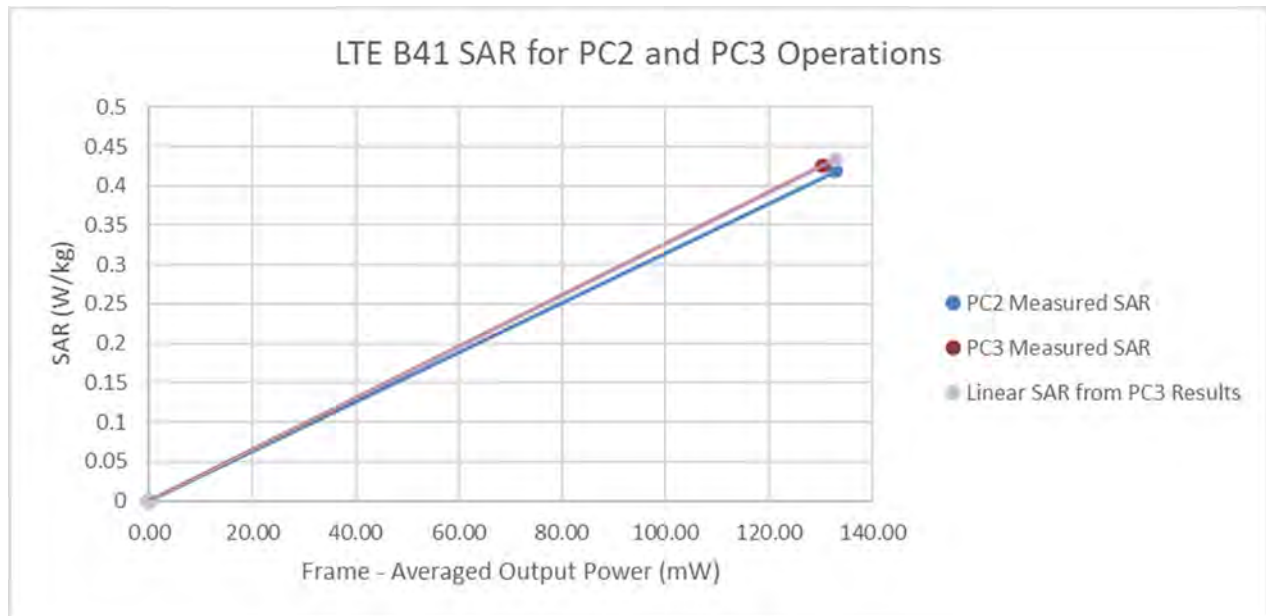


Figure 13-10
LTE Band 41 ULCA Hotspot Linearity - Antenna B

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Table 13-17
LTE Band 41 Hotspot Linearity Data – Antenna F

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	22.50	24.10
Measured Output Power (dBm)	22.10	23.61
Measured SAR (W/kg)	0.493	0.443
Measured Power (mW)	162.00	229.61
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	102.55	99.42
% deviation from expected linearity		-7.32%

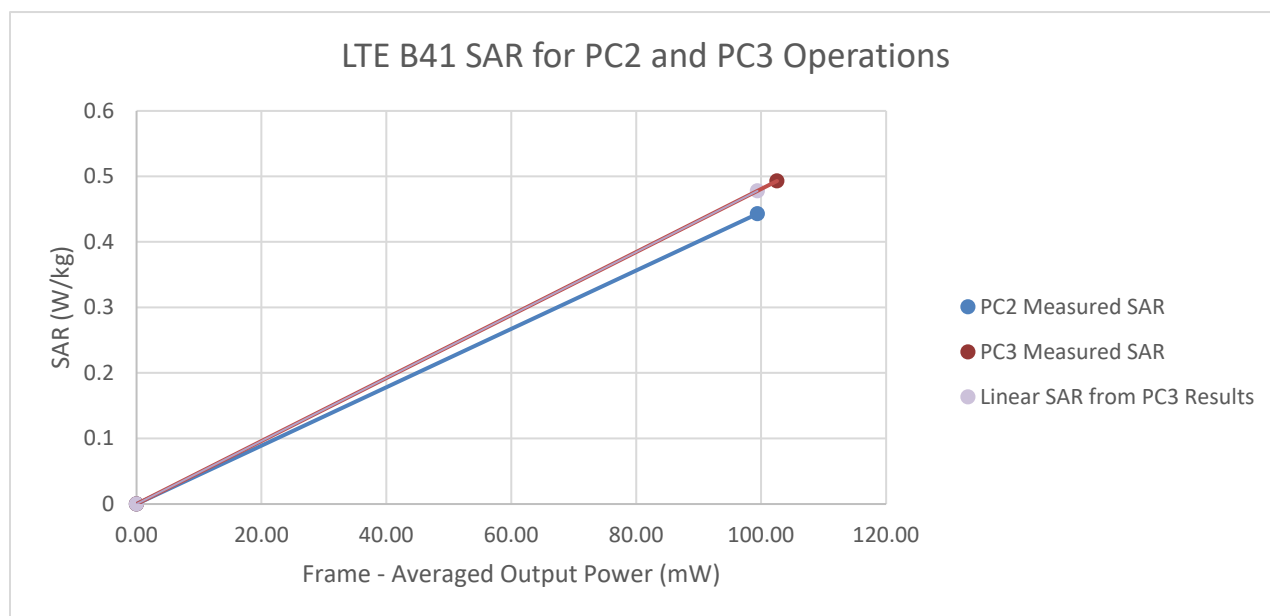


Figure 13-11
LTE Band 41 Hotspot Linearity - Antenna F

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Table 13-18
LTE Band 41 ULCA Hotspot Linearity Data – Antenna F

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	22.5	24.1
Measured Output Power (dBm)	21.93	23.50
Measured SAR (W/kg)	0.464	0.413
Measured Power (mW)	155.96	223.87
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	98.72	96.94
% deviation from expected linearity		-9.35%

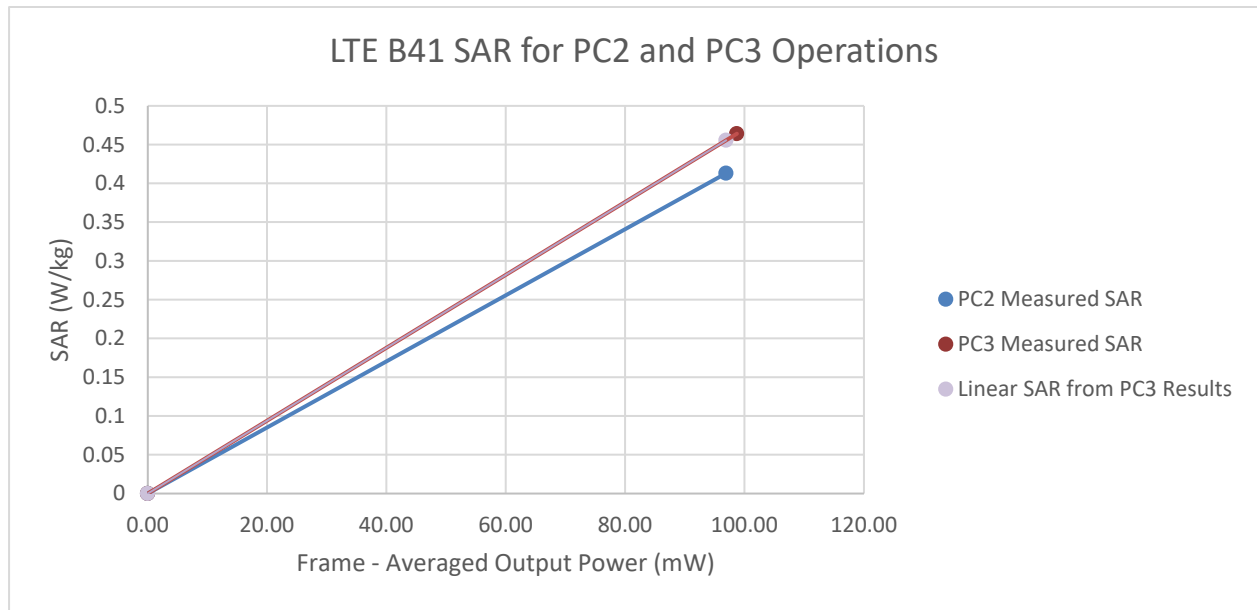


Figure 13-12
LTE Band 41 ULCA Hotspot Linearity - Antenna F

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Table 13-19
LTE Band 41 Phablet Linearity Data – Antenna B

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	24.00	25.60
Measured Output Power (dBm)	22.93	24.25
Measured SAR (W/kg)	2.220	2.060
Measured Power (mW)	196.34	266.22
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	124.28	115.27
% deviation from expected linearity		0.04%

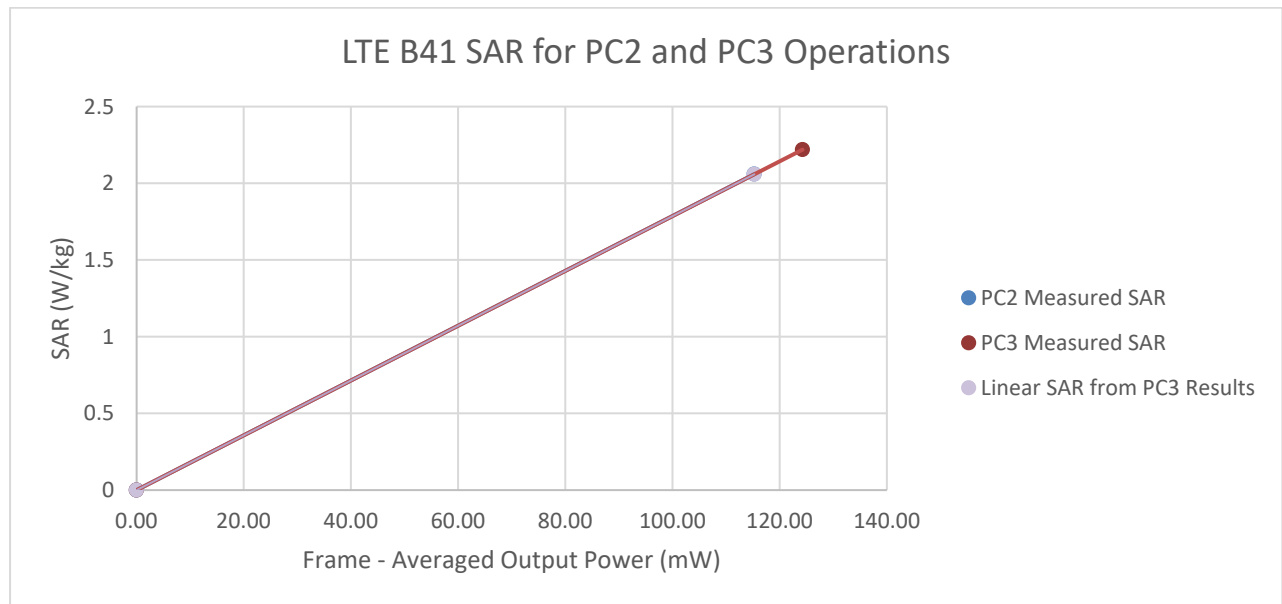


Figure 13-13
LTE Band 41 Phablet Linearity - Antenna B

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Table 13-20
LTE Band 41 ULCA Phablet Linearity Data – Antenna B

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	24.0	25.6
Measured Output Power (dBm)	23.20	24.63
Measured SAR (W/kg)	2.350	2.260
Measured Power (mW)	208.93	290.40
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	132.25	125.74
% deviation from expected linearity		1.15%

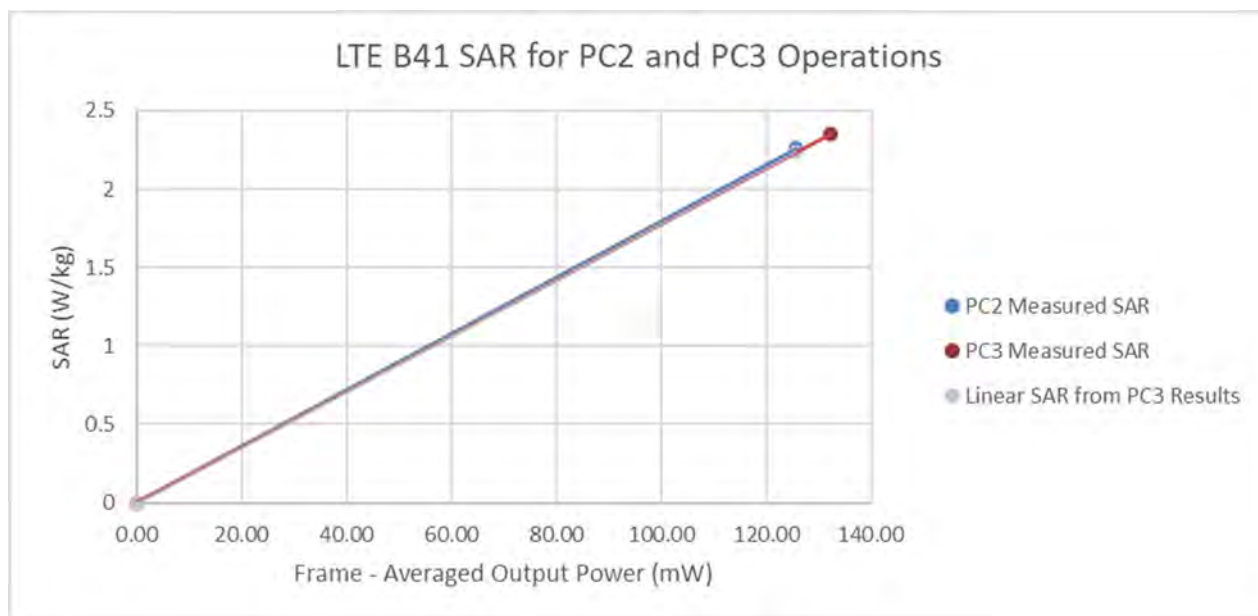


Figure 13-14
LTE Band 41 ULCA Phablet Linearity – Antenna B

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14 EQUIPMENT LIST

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Agilent	E4403B	Spectrum Analyzer	N/A	N/A	N/A	MY45113242
Agilent	E4438C	ESG Vector Signal Generator	5/20/2022	Annual	5/18/2023	MY42082659
Agilent	E4438C	ESG Vector Signal Generator	5/24/2023	Annual	5/24/2023	MY46026276
Agilent	N5182A	MMG Vector Signal Generator	7/20/2022	Annual	7/20/2023	MY47420800
Agilent	N5182A	MMG Vector Signal Generator	1/12/2022	Annual	1/12/2023	MY47420837
Agilent	8733ES	5-Parameter Vector Network Analyzer	2/11/2022	Annual	2/11/2023	MY40002841
Agilent	8733ES	5-Parameter Vector Network Analyzer	12/17/2021	Annual	12/17/2022	MY40002670
Agilent	E5113C	Wireless Communications Test Set	5/12/2023	Annual	5/12/2023	GB41304716
Agilent	E5113C	Wireless Communications Test Set	5/4/2021	Biennial	5/4/2023	GB41400751
Agilent	N4010A	Wireless Connectivity Test Set	N/A	N/A	N/A	GB46170464
Amplifier Research	155106	Amplifier	CBT	N/A	CBT	433972
Amplifier Research	155106	Amplifier	CBT	N/A	CBT	343972
Amplifier Research	155106	Amplifier	CBT	N/A	CBT	433974
Amplifier Research	155106	Amplifier	CBT	N/A	CBT	351132
Anteu	ML246A	Power Meter	8/16/2022	Annual	8/16/2023	1151001
Anteu	ML246A	Power Meter	3/17/2022	Annual	3/17/2023	941001
Anteu	ML246A	Power Meter	3/17/2022	Annual	3/17/2023	111001
Anteu	ML246A	Power Meter	3/29/2022	Annual	3/29/2023	130000
Anteu	ML246A	Power Meter	2/11/2022	Annual	2/11/2023	140003
Anteu	MA241B	Pulse Power Sensor	10/21/2022	Annual	10/21/2023	1201364
Anteu	MA241B	Pulse Power Sensor	3/28/2022	Annual	3/28/2023	1339007
Anteu	MT8821C	Radio Communication Analyzer MT8821C	6/27/2022	Annual	6/27/2023	6263092513
Anteu	MT8821C	Radio Communication Analyzer MT8821C	5/11/2022	Annual	5/11/2023	6262047151
Anteu	MT8821C	Radio Communication Analyzer MT8821C	5/24/2022	Annual	5/24/2023	6201144419
Anteu	MT8821C	Radio Communication Analyzer MT8821C	3/13/2022	Annual	3/13/2023	6201044796
Anteu	MT8800A	Radio Communication Test Station	9/29/2022	Annual	9/29/2023	6273319488
Anteu	MT8800A	Radio Communication Test Station	3/30/2022	Annual	3/30/2023	6261914237
Anteu	MT8800A	Radio Communication Test Station	6/15/2022	Annual	6/15/2023	6272317405
Anteu	MA241DA	USB Power Sensor	10/21/2022	Annual	10/21/2023	1211538
Anteu	MA241DA	USB Power Sensor	3/28/2022	Annual	3/28/2023	1320043
Control Company	4352	Long Stem Thermometer	8/10/2021	Biennial	8/10/2023	101714026
Control Company	4353	Long Stem Thermometer	10/28/2020	Biennial	10/28/2022	200670621
Control Company	4352	Long Stem Thermometer	9/19/2021	Biennial	9/19/2023	210774485
Control Company	4360	Therm. Coupled Frequency Monitor	1/21/2021	Biennial	1/21/2023	140514118
Multisys	SDD-196-30	CD-4°AXE diode Digital Caliper	2/16/2022	Triennial	2/16/2025	A20218413
Naught Technologies	NE700B	DC Power Analyzer	5/5/2021	Annual	5/5/2024	MY31004050
Naught Technologies	NQ502A	MMA Signal Analyzer	1/4/2022	Annual	1/4/2023	106417051
Naught Technologies	NQ502A	MMA Signal Analyzer	4/14/2021	Annual	4/14/2023	MY40010313
MCL	BW-N20W5	6dB Attenuator	CBT	N/A	CBT	1139
Mini-Circuits	VLF-400W	Low Pass Filter DC to 400MHz	CBT	N/A	CBT	N/A
Mini-Circuits	BW-N20W5	DC to 18GHz Precision Fixed 20 dB Attenuator	CBT	N/A	CBT	N/A
Mini-Circuits	NLP-1200H	Low Pass Filter DC to 1000 MHz	CBT	N/A	CBT	N/A
Mini-Circuits	NLP-200W	Low Pass Filter DC to 210 MHz	CBT	N/A	CBT	N/A
Mini-Circuits	BW-N20W5	Power Attenuator	CBT	N/A	CBT	1236
Mini-Circuits	ZUC-10-83-S+	Directional Coupler	CBT	N/A	CBT	2050
Mini-Circuits	ZUC-10-10-15	Directional Coupler	7/4/2022	Annual	7/4/2023	2111
Mini-Circuits	PWR-40W	Power Sensor	1/3/2022	Annual	5/1/2023	1387
Huber + Suhner	745-G-0-21	Torque Wrench	4/26/2022	Biennial	4/26/2024	83881
Packman	PE501-1.5	Torque Wrench	12/11/2021	Biennial	12/11/2023	84975
Narda	4773-3	Attenuator (dBi)	CBT	N/A	CBT	9406
Narda	BW-15W2	Attenuator (dBi)	CBT	N/A	CBT	120
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	8/25/2022	Annual	8/25/2023	140148
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	4/14/2022	Annual	4/14/2023	167284
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	8/26/2022	Annual	8/26/2023	166818
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	8/25/2022	Annual	8/25/2023	165148
SPAG	DAM-3.5	DiElectric Assessment Kit	1/6/2022	Annual	1/6/2023	1278
SPAG	DAM-42	DiElectric Assessment Kit (Mini - Spot)	3/21/2022	Annual	3/21/2023	1502
SPAG	DAMS-1.5	Portable DiElectric Assessment Kit	8/15/2022	Annual	8/15/2023	1061
SPAG	DAMS-1.5	Portable DiElectric Assessment Kit	7/5/2022	Annual	7/5/2023	1039
SPAG	MA1A	Modulator and Audio Interference Analyzer	N/A	N/A	N/A	1039
SPAG	MA1A	Modulator and Audio Interference Analyzer	N/A	N/A	N/A	1237
SPAG	CLA-13	Carried Loop Antenna	9/13/2022	Annual	9/13/2023	1002
SPAG	D750V3	750 MHz SAR Dipole	1/14/2022	Annual	1/14/2023	1054
SPAG	D750V3	750 MHz SAR Dipole	2/14/2022	Annual	2/14/2023	1046
SPAG	D750V3	750 MHz SAR Dipole	1/10/2022	Annual	1/10/2023	1003
SPAG	DB3V2	835 MHz SAR Dipole	1/10/2022	Annual	1/10/2023	1018
SPAG	DB3V2	835 MHz SAR Dipole	1/21/2021	Biennial	1/21/2023	40132
SPAG	DB3V2	835 MHz SAR Dipole	3/14/2022	Annual	3/14/2023	40047
SPAG	DB3V2	835 MHz SAR Dipole	5/7/2022	Annual	5/7/2023	40180
SPAG	DB750V2	1750 MHz SAR Dipole	10/22/2022	Annual	10/22/2023	1159
SPAG	DB750V2	1750 MHz SAR Dipole	3/14/2021	Biennial	3/14/2023	1058
SPAG	DB750V2	1750 MHz SAR Dipole	1/18/2022	Annual	1/18/2023	1148
SPAG	DB900V2	1900 MHz SAR Dipole	2/12/2022	Annual	2/12/2023	1045
SPAG	DB900V2	1900 MHz SAR Dipole	8/6/2022	Annual	8/6/2023	1045
SPAG	DB900V2	1900 MHz SAR Dipole	9/21/2021	Biennial	9/21/2023	10140
SPAG	DB300V2	2300 MHz SAR Dipole	6/3/2021	Biennial	6/3/2023	1116
SPAG	DB300V2	2300 MHz SAR Dipole	8/25/2022	Annual	8/25/2023	1053
SPAG	DB300V2	2300 MHz SAR Dipole	11/10/2020	Biennial	11/10/2022	1064
SPAG	DB450V2	2450 MHz SAR Dipole	2/22/2022	Annual	2/22/2023	882
SPAG	DB450V2	2450 MHz SAR Dipole	11/29/2021	Annual	11/29/2022	881
SPAG	DB450V2	2450 MHz SAR Dipole	5/11/2022	Annual	5/11/2023	705
SPAG	DB450V2	2450 MHz SAR Dipole	8/18/2021	Biennial	8/18/2023	710
SPAG	DB450V2	2450 MHz SAR Dipole	1/10/2022	Annual	1/10/2023	1018
SPAG	DB600V2	2600 MHz SAR Dipole	4/14/2021	Biennial	4/14/2023	1004
SPAG	DB600V2	2600 MHz SAR Dipole	1/11/2022	Annual	1/11/2023	1042
SPAG	DB600V2	2600 MHz SAR Dipole	11/12/2021	Triennial	11/12/2023	1071
SPAG	DB600V2	2600 MHz SAR Dipole	8/18/2022	Annual	8/18/2023	1126
SPAG	DB600V2	2600 MHz SAR Dipole	8/20/2022	Biennial	8/20/2023	1126
SPAG	DB300V2	3500 MHz SAR Dipole	1/19/2021	Biennial	1/19/2023	1059
SPAG	DB500V2	3500 MHz SAR Dipole	1/21/2022	Triennial	1/21/2023	1097
SPAG	DB700V2	3700 MHz SAR Dipole	6/20/2021	Annual	6/20/2022	1097
SPAG	DB700V2	3700 MHz SAR Dipole	1/21/2020	Triennial	1/21/2023	1067
SPAG	DB700V2	3700 MHz SAR Dipole	1/19/2021	Biennial	1/19/2023	1058
SPAG	DB900V2	3900 MHz SAR Dipole	6/10/2021	Biennial	6/10/2023	1073
SPAG	DB900V2	3900 MHz SAR Dipole	11/13/2020	Biennial	11/13/2022	1062
SPAG	DB90V2	1.9GHz SAR Dipole	1/10/2022	Annual	1/10/2023	1057
SPAG	DAM-4	Diey Data Acquisition Electronics	3/16/2022	Annual	3/16/2023	12779
SPAG	DAM-4	Diey Data Acquisition Electronics	6/14/2022	Annual	6/14/2023	1334
SPAG	DAM-4	Diey Data Acquisition Electronics	6/14/2022	Annual	6/14/2023	1333
SPAG	DAM-4	Diey Data Acquisition Electronics	3/14/2022	Annual	3/14/2023	1452
SPAG	DAM-4	Diey Data Acquisition Electronics	2/23/2022	Annual	2/23/2023	1415
SPAG	DAM-4	Diey Data Acquisition Electronics	1/10/2022	Annual	1/10/2023	1678
SPAG	DAM-4	Diey Data Acquisition Electronics	4/14/2022	Annual	4/14/2023	1402
SPAG	DAM-4	Diey Data Acquisition Electronics	2/21/2022	Annual	2/21/2023	1645
SPAG	DAM-4	Diey Data Acquisition Electronics	7/18/2022	Annual	7/18/2023	1583
SPAG	DAM-4	Diey Data Acquisition Electronics	7/18/2022	Annual	7/18/2023	1677
SPAG	DAM-4	Diey Data Acquisition Electronics	8/15/2022	Annual	8/15/2023	1680
SPAG	DAM-4	Diey Data Acquisition Electronics	5/16/2022	Annual	5/16/2023	1551
SPAG	DAM-4	Diey Data Acquisition Electronics	2/22/2022	Annual	2/22/2023	865
SPAG	DAM-4	Diey Data Acquisition Electronics	11/14/2022	Annual	11/14/2023	2058
SPAG	DAM-4	Diey Data Acquisition Electronics	11/16/2021	Annual	11/16/2022	855
SPAG	DAM-4	Diey Data Acquisition Electronics	4/13/2022	Annual	4/13/2023	1407
SPAG	DAM-4	Diey Data Acquisition Electronics	2/12/2022	Annual	2/12/2023	1409
SPAG	DAM-4	Diey Data Acquisition Electronics	2/24/2022	Annual	2/24/2023	867
SPAG	EX30V4	SAR Probe	3/21/2022	Annual	3/21/2023	7527
SPAG	EX30V4	SAR Probe	1/16/2022	Annual	1/16/2023	7409
SPAG	EX30V4	SAR Probe	6/29/2022	Annual	6/29/2023	7493
SPAG	EX30V4	SAR Probe	3/21/2022	Annual	3/21/2023	7637
SPAG	EX30V4	SAR Probe	2/17/2022	Annual	2/17/2023	7408
SPAG	EX30V4	SAR Probe	5/18/2022	Annual	5/18/2023	7660
SPAG	EX30V4	SAR Probe	4/21/2022	Annual	4/21/2023	7546
SPAG	EX30V4	SAR Probe	2/18/2022	Annual	2/18/2023	7410
SPAG	EX30V4	SAR Probe	7/18/2022	Annual	7/18/2023	7406
SPAG	EX30V4	SAR Probe	8/23/2022	Annual	8/23/2023	7408
SPAG	EX30V4	SAR Probe	6/7/2022	Annual	6/7/2023	7402
SPAG	EX30V4	SAR Probe	2/22/2022	Annual	2/22/2023	7417
SPAG	EX30V4	SAR Probe	1/18/2022	Annual	1/18/2023	7526
SPAG	EX30V4	SAR Probe	1/10/2022	Annual	1/10/2023	7571
SPAG	EX30V4	SAR Probe	4/20/2022	Annual	4/20/2023	7529
SPAG	EX30V4	SAR Probe	2/12/2022	Annual	2/12/2023	7308
SPAG	EX30V4	SAR Probe	2/12/2022	Annual	2/12/2023	7427
SPAG	EX30V4	SAR Probe	2/14/2022	Annual	2/14/2023	7640

Note: 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.

Note: All equipment was used solely within its respective calibration period.

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15 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	7	N	1	1	1	7.0	7.0	∞
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	∞
Modulation Response	E.2.5	4.8	R	1.732	1	1	2.8	2.8	∞
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	12.2	12.0
Expanded Uncertainty (95% CONFIDENCE LEVEL)							k=2	24.4	24.0

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

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16 CONCLUSION

16.1 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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