



ELEMENT MATERIALS TECHNOLOGY

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SAR EVALUATION REPORT

Applicant Name:

Samsung Electronics Co., Ltd.
129, Samsung-ro, Maetan dong,
Yeongtong-gu, Suwon-si
Gyeonggi-do, 16677, Korea

Date of Testing:

04/14/22 - 06/09/22

Test Site/Location:

Element, Columbia, MD, USA

Document Serial No.:

1M2204080051-19.A3L (Rev1)

FCC ID:

A3LSMF721U

APPLICANT:

SAMSUNG ELECTRONICS CO., LTD.

DUT Type:

Portable Handset

Application Type:

Certification

FCC Rule Part(s):

CFR §2.1093

Model(s):

SM-F721U

Additional Model(s):

SM-F721U1

Equipment Class	Band & Mode	Tx Frequency	SAR			
			1g Head (W/kg)	1g Body/Worn (W/kg)	1g Hotspot (W/kg)	10g Phantom (W/kg)
PCE	GSM/GPRS/EDGE 850	824.20 - 848.80 MHz	0.21	0.31	0.71	N/A
PCE	GSM/GPRS/EDGE 1900	1850.20 - 1908.80 MHz	< 0.1	0.22	0.66	1.44
PCE	UMTS 850	824.40 - 846.60 MHz	0.32	0.44	1.03	N/A
PCE	UMTS 1900	1712.4 - 1752.6 MHz	0.13	0.31	0.96	2.63
PCE	UMTS 1900	1852.4 - 1907.6 MHz	0.14	0.35	0.93	2.68
PCE	LTE Band 71	665.5 - 695.5 MHz	0.20	0.30	0.51	N/A
PCE	LTE Band 12	699.7 - 719.3 MHz	0.20	0.25	0.39	N/A
PCE	LTE Band 13	776.5 - 786.5 MHz	0.19	0.34	0.62	N/A
PCE	LTE Band 14	790.5 - 795.5 MHz	0.25	0.34	0.70	N/A
PCE	LTE Band 26 (Cell)	814.7 - 848.3 MHz	0.26	0.35	0.73	N/A
PCE	LTE Band 5 (Cell)	824.7 - 848.3 MHz	0.29	0.36	0.84	N/A
PCE	LTE Band 66 (AWS)	1710.7 - 1779.3 MHz	< 0.1	0.72	0.84	2.30
PCE	LTE Band 4 (AWS)	1710.7 - 1754.3 MHz	N/A	N/A	N/A	N/A
PCE	LTE Band 26 (PCS)	1850.7 - 1914.3 MHz	< 0.1	0.65	0.99	2.49
PCE	LTE Band 2 (PCS)	1850.7 - 1909.3 MHz	N/A	N/A	N/A	N/A
PCE	LTE Band 30	2307.5 - 2312.5 MHz	< 0.1	0.39	0.72	1.56
PCE	LTE Band 7	2025.5 - 2087.5 MHz	0.11	0.29	0.50	1.49
PCE	LTE Band 41	2498.5 - 2687.5 MHz	0.11	0.34	0.78	N/A
PCE	LTE Band 38	2672.5 - 2677.5 MHz	N/A	N/A	N/A	N/A
CBE	LTE Band 48	3052.5 - 3097.5 MHz	1.06	0.34	0.70	2.34
PCE	NR Band n71	665.5 - 695.5 MHz	0.27	0.33	0.45	N/A
PCE	NR Band n12	701.5 - 713.5 MHz	0.26	0.35	0.49	N/A
PCE	NR Band n6 (Cell)	826.5 - 846.5 MHz	0.26	0.49	0.88	N/A
PCE	NR Band n66 (AWS)	1712.5 - 1777.5 MHz	0.22	0.84	0.96	2.03
PCE	NR Band n66 (PCS)	1852.5 - 1912.5 MHz	0.24	0.81	0.92	2.57
PCE	NR Band n66 (PCS)	1852.5 - 1907.5 MHz	N/A	N/A	N/A	N/A
PCE	NR Band n30	2307.5 - 2312.5 MHz	0.65	0.32	0.98	2.16
PCE	NR Band n7	2500.5 - 2667.5 MHz	< 0.1	0.26	0.52	1.35
PCE	NR Band n41	2508.02 - 2679.99 MHz	0.59	0.11	0.83	1.83
PCE	NR Band n38	2675 - 2676 MHz	N/A	N/A	N/A	N/A
CBE	NR Band n48	3058 - 3064.98 MHz	1.01	0.11	0.26	1.03
PCE	NR Band n77 Dss	3408.01 - 3444.98 MHz	0.78	< 0.1	0.45	1.22
PCE	NR Band n77	3705 - 3975 MHz	0.88	0.20	0.73	2.13
OTS	2.4 GHz WLAN	2412 - 2462 MHz	0.38	< 0.1	0.48	N/A
NI	U-NB-1	5180 - 5240 MHz	N/A	N/A	N/A	N/A
NI	U-NB-2A	5200 - 5220 MHz	0.57	< 0.1	N/A	0.23
NI	U-NB-2B	5200 - 5220 MHz	0.14	< 0.1	N/A	0.48
NI	U-NB-3	5745 - 5825 MHz	0.11	< 0.1	0.30	N/A
NI	U-NB-4	5845 - 5885 MHz	0.10	< 0.1	N/A	0.65
DSSTD7E	Bluetooth	2402 - 2480 MHz	0.26	< 0.1	0.31	N/A
DOX	NFC	13.56 MHz	N/A	N/A	N/A	< 0.1

Simultaneous SAR per KDB 680783 D01v0103:

Note: This revised Test Report (S/N: 1M2204080051-19.A3L (Rev1)) supersedes and replaces the previously issued test report on the same subject device for the same type of testing as indicated. Please discard or destroy the previously issued test report(s) and dispose of it accordingly.

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

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

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 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	2506.02 - 2679.99 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
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 Gen1 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 Senario		Body-Worn	Phablet Max	Grip Sensor Active	Head	Hotspot	Earjack	Maximum Tune-Up Output Power*
Averaging Volume		1g	10g	10g	1g	1g	10g	
Spacing		15 mm	8, 6, 12, 0 mm	0 mm	0 mm	10, 5 mm	0 mm	
DSI		0	0	1	2	3	4	
Technology/Band	Antenna							Pmax
GSM 850	A	29.2		29.2	30.9	21.8	29.2	25.3
GSM 1900	A	27.3		18.8	36.1	18.8	18.8	22.1
UMTS 850	A	28.6		28.9	22.0	23.0	28.9	24.0
UMTS 1750	A	25.4		21.0	22.0	19.0	21.0	24.0
UMTS 1900	A	25.7		21.0	22.0	18.0	21.0	24.0
LTE Band 71	A	29.2		29.2	32.1	23.0	29.2	24.0
LTE Band 12	A	29.5		29.0	32.1	23.0	29.0	24.0
LTE Band 13	A	31.2		28.1	32.1	23.0	28.1	24.0
LTE Band 14	A	29.0		28.6	30.6	23.0	28.6	23.5
LTE Band 26 (Cell)	A	29.6		28.8	30.9	23.0	28.8	24.0
LTE Band 5 (Cell)	A	29.3		28.5	30.2	23.0	28.5	24.0
LTE Band 66 (AWS)	A	25.9		20.5	37.3	18.5	20.5	23.5
LTE Band 4 (AWS)	A	25.9		20.0	37.3	18.0	20.0	23.5
LTE Band 25/2 (PCS)	A	26.4		21.0	36.3	18.0	21.0	23.5
LTE Band 30	B	27.1		21.0	36.7	17.0	21.0	22.0
LTE Band 7	B	26.8		20.5	34.0	17.5	20.5	23.5
LTE Band 41 (PC3)	B	24.0		24.0	32.9	18.0	24.0	22.0
LTE Band 41 (PC2)	B	24.0		24.0	32.9	18.0	24.0	22.0
LTE Band 38	B	23.0		23.0	23.0	20.0	23.0	23.0
LTE Band 48	F	18.5		18.5	14.0	15.5	18.5	21.0
NR Band n71	A	27.9		27.6	30.7	23.0	27.6	24.0
NR Band n12	A	28.9		28.9	30.8	23.0	28.9	24.0
NR Band n5 (Cell)	A	29.5		26.8	30.8	23.0	26.8	24.0
NR Band n66 (AWS)	A	24.8		19.5	34.3	17.5	19.5	23.5
NR Band n66 (AWS)	I	21.0		21.0	15.0	15.0	21.0	23.0
NR Band n25/n2 (PCS)	A	25.4		21.0	34.9	17.5	21.0	23.5
NR Band n25/n2 (PCS)	I	21.0		21.0	15.5	15.5	21.0	23.5
NR Band n30	B	28.2		21.5	35.9	18.0	21.5	22.5
NR Band n30	I	21.0		21.0	16.0	18.5	21.0	23.0
NR Band n7	B	27.9		20.5	34.7	19.5	20.5	23.5
NR Band n41 (PC3)	I	20.0		20.0	15.0	17.0	20.0	24.5
NR Band n41 (PC2)	I	20.0		20.0	15.0	17.0	20.0	26.5
NR Band n38	I	19.5		19.5	15.0	17.0	19.5	24.0
NR Band n41 (PC3)	B	15.0		15.0	15.0	15.0	15.0	18.5
NR Band n41 (PC2)	B	15.0		15.0	15.0	15.0	15.0	20.5
NR Band n41 (PC3)	F	16.5		16.5	11.5	13.5	16.5	18.0
NR Band n41 (PC2)	F	16.5		16.5	11.5	13.5	16.5	20.0
NR Band n41 (PC3)	C	10.0		10.0	10.0	10.0	10.0	13.5
NR Band n41 (PC2)	C	10.0		10.0	10.0	10.0	10.0	15.5
NR Band n48	F	18.0		18.0	14.0	16.5	18.0	24.0
NR Band n48	I	18.0		18.0	14.0	16.5	18.0	20.0
NR Band n48	E	18.0		18.0	14.0	16.5	18.0	20.0
NR Band n48	C	14.0		14.0	14.0	14.0	14.0	18.0
NR Band n77 DoD (PC3)	F	18.0		18.0	14.0	15.5	18.0	24.0
NR Band n77 DoD (PC2)	F	18.0		18.0	14.0	15.5	18.0	26.0
NR Band n77 DoD (PC3)	I	18.0		18.0	14.0	15.5	18.0	20.0
NR Band n77 DoD (PC2)	I	18.0		18.0	14.0	15.5	18.0	22.0
NR Band n77 DoD (PC3)	E	18.0		18.0	14.0	15.5	18.0	20.0
NR Band n77 DoD (PC2)	E	18.0		18.0	14.0	15.5	18.0	22.0
NR Band n77 DoD (PC3)	C	14.0		14.0	14.0	14.0	14.0	18.0
NR Band n77 DoD (PC2)	C	14.0		14.0	14.0	14.0	14.0	20.0
NR Band n77 (PC3)	F	18.0		18.0	14.0	15.5	18.0	24.0
NR Band n77 (PC2)	F	18.0		18.0	14.0	15.5	18.0	26.0
NR Band n77 (PC3)	I	18.0		18.0	14.0	15.5	18.0	20.0
NR Band n77 (PC2)	I	18.0		18.0	14.0	15.5	18.0	22.0
NR Band n77 (PC3)	E	18.0		18.0	14.0	15.5	18.0	20.0
NR Band n77 (PC2)	E	18.0		18.0	14.0	15.5	18.0	22.0
NR Band n77 (PC3)	C	14.0		14.0	14.0	14.0	14.0	18.0
NR Band n77 (PC2)	C	14.0		14.0	14.0	14.0	14.0	20.0

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

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The maximum time-averaged output power (dBm) for any 2G/3G/4G/5G Sub6 WWAN technology, band, and DSI = minimum of " P_{limit} EFS" and "Maximum tune up output power P_{max} " + 1dB device uncertainty. SAR values in this report were scaled to this maximum time-averaged output power to determine compliance per KDB Publication 447498 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 WLAN operations when 5G NR is active. Per FCC Guidance, the held-to-ear exposure conditions were evaluated at reduced power according to the head SAR positions described in IEEE 1528-2013. Detailed descriptions of the power reduction mechanism are included in the operational description.

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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 2G/3G/4G/5G 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	33.2	33.2	32.5	30.5	28.5	28.0	26.0	24.0	23.0
	Nominal	32.2	32.2	31.5	29.5	27.5	27.0	25.0	23.0	22.0
DSI = 0 (Body-Worn or Phablet Max)	Max Allowed Power	33.2	33.2	32.5	30.5	28.5	28.0	26.0	24.0	23.0
	Nominal	32.2	32.2	31.5	29.5	27.5	27.0	25.0	23.0	22.0
DSI = 1 (Grip Sensor Active)	Max Allowed Power	33.2	33.2	32.5	30.5	28.5	28.0	26.0	24.0	23.0
	Nominal	32.2	32.2	31.5	29.5	27.5	27.0	25.0	23.0	22.0
DSI = 2 (Head)	Max Allowed Power	33.2	33.2	32.5	30.5	28.5	28.0	26.0	24.0	23.0
	Nominal	32.2	32.2	31.5	29.5	27.5	27.0	25.0	23.0	22.0
DSI = 3 (Hotspot)	Max Allowed Power	N/A	32.0	29.0	27.2	26.0	28.0	26.0	24.0	23.0
	Nominal	N/A	31.0	28.0	26.2	25.0	27.0	25.0	23.0	22.0
DSI = 4 (Earjack)	Max Allowed Power	33.2	33.2	32.5	30.5	28.5	28.0	26.0	24.0	23.0
	Nominal	32.2	32.2	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	26.0	25.0	23.0	22.0
	Nominal	29.0	29.0	28.0	26.5	24.5	25.0	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	26.0	25.0	23.0	22.0
	Nominal	29.0	29.0	28.0	26.5	24.5	25.0	24.0	22.0	21.0
DSI = 1 (Grip Sensor Active)	Max Allowed Power	29.0	29.0	26.0	24.2	23.0	26.0	25.0	23.0	22.0
	Nominal	28.0	28.0	25.0	23.2	22.0	25.0	24.0	22.0	21.0
DSI = 2 (Head)	Max Allowed Power	30.0	30.0	29.0	27.5	25.5	26.0	25.0	23.0	22.0
	Nominal	29.0	29.0	28.0	26.5	24.5	25.0	24.0	22.0	21.0
DSI = 3 (Hotspot)	Max Allowed Power	N/A	29.0	26.0	24.2	23.0	26.0	25.0	23.0	22.0
	Nominal	N/A	28.0	25.0	23.2	22.0	25.0	24.0	22.0	21.0
DSI = 4 (Earjack)	Max Allowed Power	29.0	29.0	26.0	24.2	23.0	26.0	25.0	23.0	22.0
	Nominal	28.0	28.0	25.0	23.2	22.0	25.0	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 (Grip Sensor Active)	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	23.0	22.0	22.0	22.0
	Nominal	22.0	21.0	21.0	21.0
DSI = 3 (Hotspot)	Max Allowed Power	24.0	23.0	23.0	23.0
	Nominal	23.0	22.0	22.0	22.0
DSI = 4 (Earjack)	Max Allowed Power	25.0	24.0	24.0	24.0
	Nominal	24.0	23.0	23.0	23.0
UMTS Band 4 (1750 MHz)					
Power Level		Modulated Average Output Power			
		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 (Grip Sensor Active)	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	23.0	22.0	22.0	22.0
	Nominal	22.0	21.0	21.0	21.0
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	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 (Grip Sensor Active)	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	23.0	22.0	22.0	22.0
	Nominal	22.0	21.0	21.0	21.0
DSI = 3 (Hotspot)	Max Allowed Power	19.0	18.0	18.0	18.0
	Nominal	18.0	17.0	17.0	17.0
DSI = 4 (Earjack)	Max Allowed Power	22.0	21.0	21.0	21.0
	Nominal	21.0	20.0	20.0	20.0

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Mode / Band	Antenna		Modulated Average Output Power (in dBm)					
			Pmax	DSI = 0 (Body- Worn or Phablet Max)	DSI = 1 (Grip Sensor Active)	DSI = 2 (Head)	DSI = 3 (Hotspot)	DSI = 4 (Earjack)
LTE Band 71	A	Max Allowed	25.0	25.0	25.0	25.0	24.0	25.0
		Nominal	24.0	24.0	24.0	24.0	23.0	24.0
LTE Band 12	A	Max Allowed	25.0	25.0	25.0	25.0	24.0	25.0
		Nominal	24.0	24.0	24.0	24.0	23.0	24.0
LTE Band 13	A	Max Allowed	25.0	25.0	25.0	25.0	24.0	25.0
		Nominal	24.0	24.0	24.0	24.0	23.0	24.0
LTE Band 14	A	Max Allowed	24.5	24.5	24.5	24.5	24.0	24.5
		Nominal	23.5	23.5	23.5	23.5	23.0	23.5
LTE Band 26 (Cell)	A	Max Allowed	25.0	25.0	25.0	25.0	24.0	25.0
		Nominal	24.0	24.0	24.0	24.0	23.0	24.0
LTE Band 5 (Cell)	A	Max Allowed	25.0	25.0	25.0	25.0	24.0	25.0
		Nominal	24.0	24.0	24.0	24.0	23.0	24.0
LTE Band 66 (AWS)	A	Max Allowed	24.5	24.5	21.5	24.5	19.5	21.5
		Nominal	23.5	23.5	20.5	23.5	18.5	20.5
LTE Band 4 (AWS)	A	Max Allowed	24.5	24.5	21.0	24.5	19.0	21.0
		Nominal	23.5	23.5	20.0	23.5	18.0	20.0
LTE Band 25 (PCS)	A	Max Allowed	24.5	24.5	22.0	24.5	19.0	22.0
		Nominal	23.5	23.5	21.0	23.5	18.0	21.0
LTE Band 2 (PCS)	A	Max Allowed	24.5	24.5	22.0	24.5	19.0	22.0
		Nominal	23.5	23.5	21.0	23.5	18.0	21.0
LTE Band 30	B	Max Allowed	23.0	23.0	22.0	23.0	18.0	22.0
		Nominal	22.0	22.0	21.0	22.0	17.0	21.0
LTE Band 7	B	Max Allowed	24.5	24.5	21.5	24.5	18.5	21.5
		Nominal	23.5	23.5	20.5	23.5	17.5	20.5
LTE Band 41 (PC3)	B	Max Allowed	25.0	25.0	25.0	25.0	21.0	25.0
		Nominal	24.0	24.0	24.0	24.0	20.0	24.0
LTE Band 41 (PC2)	B	Max Allowed	26.7	26.6	26.6	26.6	22.6	26.6
		Nominal	25.7	25.6	25.6	25.6	21.6	25.6
LTE Band 38	B	Max Allowed	24.0	24.0	24.0	24.0	21.0	24.0
		Nominal	23.0	23.0	23.0	23.0	20.0	23.0
LTE Band 48	F	Max Allowed	24.0	21.5	21.5	17.0	18.5	21.5
		Nominal	23.0	20.5	20.5	16.0	17.5	20.5

Mode / Band	Antenna		Modulated Average Output Power (in dBm)					
			Pmax	DSI = 0 (Body- Worn or Phablet Max)	DSI = 1 (Grip Sensor Active)	DSI = 2 (Head)	DSI = 3 (Hotspot)	DSI = 4 (Earjack)
NR Band n71	A	Max Allowed	25.0	25.0	25.0	25.0	24.0	25.0
		Nominal	24.0	24.0	24.0	24.0	23.0	24.0
NR Band n12	A	Max Allowed	25.0	25.0	25.0	25.0	24.0	25.0
		Nominal	24.0	24.0	24.0	24.0	23.0	24.0
NR Band n5 (Cell)	A	Max Allowed	25.0	25.0	25.0	25.0	24.0	25.0
		Nominal	24.0	24.0	24.0	24.0	23.0	24.0
NR Band n66 (AWS)	A	Max Allowed	24.5	24.5	20.5	24.5	18.5	20.5
		Nominal	23.5	23.5	19.5	23.5	17.5	19.5
NR Band n66 (AWS)	I	Max Allowed	24.0	22.0	22.0	16.0	16.0	22.0
		Nominal	23.0	21.0	21.0	15.0	15.0	21.0
NR Band n25 (PCS)	A	Max Allowed	24.5	24.5	22.0	24.5	18.5	22.0
		Nominal	23.5	23.5	21.0	23.5	17.5	21.0
NR Band n25 (PCS)	I	Max Allowed	24.5	22.0	22.0	16.5	16.5	22.0
		Nominal	23.5	21.0	21.0	15.5	15.5	21.0
NR Band n2 (PCS)	A	Max Allowed	24.5	24.5	22.0	24.5	18.5	22.0
		Nominal	23.5	23.5	21.0	23.5	17.5	21.0
NR Band n2 (PCS)	I	Max Allowed	24.5	22.0	22.0	16.5	16.5	22.0
		Nominal	23.5	21.0	21.0	15.5	15.5	21.0
NR Band n30	B	Max Allowed	23.5	23.5	22.5	23.5	19.0	22.5
		Nominal	22.5	22.5	21.5	22.5	18.0	21.5
NR Band n30	I	Max Allowed	24.0	22.0	22.0	17.0	19.5	22.0
		Nominal	23.0	21.0	21.0	16.0	18.5	21.0
NR Band n7	B	Max Allowed	24.5	24.5	21.5	24.5	20.5	21.5
		Nominal	23.5	23.5	20.5	23.5	19.5	20.5

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Mode / Band	Antenna		Modulated Average Output Power (in dBm)					
			Pmax	DSI = 0 (Body-Worn or Phablet Max)	DSI = 1 (Grip Sensor Active)	DSI = 2 (Head)	DSI = 3 (Hotspot)	DSI = 4 (Earjack)
NR Band n41 (PC3)	I	Max Allowed	25.5	21.0	21.0	16.0	18.0	21.0
		Nominal	24.5	20.0	20.0	15.0	17.0	20.0
NR Band n41 (PC2)	I	Max Allowed	27.5	21.0	21.0	16.0	18.0	21.0
		Nominal	26.5	20.0	20.0	15.0	17.0	20.0
NR Band n41 (PC3)	B	Max Allowed	19.5	16.0	16.0	16.0	16.0	16.0
		Nominal	18.5	15.0	15.0	15.0	15.0	15.0
NR Band n41 (PC2)	B	Max Allowed	21.5	16.0	16.0	16.0	16.0	16.0
		Nominal	20.5	15.0	15.0	15.0	15.0	15.0
NR Band n41 (PC3)	F	Max Allowed	19.0	17.5	17.5	12.5	14.5	17.5
		Nominal	18.0	16.5	16.5	11.5	13.5	16.5
NR Band n41 (PC2)	F	Max Allowed	21.0	17.5	17.5	12.5	14.5	17.5
		Nominal	20.0	16.5	16.5	11.5	13.5	16.5
NR Band n41 (PC3)	C	Max Allowed	14.5	11.0	11.0	11.0	11.0	11.0
		Nominal	13.5	10.0	10.0	10.0	10.0	10.0
NR Band n41 (PC2)	C	Max Allowed	16.5	11.0	11.0	11.0	11.0	11.0
		Nominal	15.5	10.0	10.0	10.0	10.0	10.0
NR Band n38	I	Max Allowed	25.0	20.5	20.5	16.0	18.0	20.5
		Nominal	24.0	19.5	19.5	15.0	17.0	19.5
NR Band n48	F	Max Allowed	25.0	19.0	19.0	15.0	17.5	19.0
		Nominal	24.0	18.0	18.0	14.0	16.5	18.0
NR Band n48	I	Max Allowed	21.0	19.0	19.0	15.0	17.5	19.0
		Nominal	20.0	18.0	18.0	14.0	16.5	18.0
NR Band n48	E	Max Allowed	21.0	19.0	19.0	15.0	17.5	19.0
		Nominal	20.0	18.0	18.0	14.0	16.5	18.0
NR Band n48	C	Max Allowed	19.0	15.0	15.0	15.0	15.0	15.0
		Nominal	18.0	14.0	14.0	14.0	14.0	14.0
NR Band n77 DoD (PC3)	F	Max Allowed	25.0	19.0	19.0	15.0	16.5	19.0
		Nominal	24.0	18.0	18.0	14.0	15.5	18.0
NR Band n77 DoD (PC2)	F	Max Allowed	27.0	19.0	19.0	15.0	16.5	19.0
		Nominal	26.0	18.0	18.0	14.0	15.5	18.0
NR Band n77 DoD (PC3)	I	Max Allowed	21.0	19.0	19.0	15.0	16.5	19.0
		Nominal	20.0	18.0	18.0	14.0	15.5	18.0
NR Band n77 DoD (PC2)	I	Max Allowed	23.0	19.0	19.0	15.0	16.5	19.0
		Nominal	22.0	18.0	18.0	14.0	15.5	18.0
NR Band n77 DoD (PC3)	E	Max Allowed	21.0	19.0	19.0	15.0	16.5	19.0
		Nominal	20.0	18.0	18.0	14.0	15.5	18.0
NR Band n77 DoD (PC2)	E	Max Allowed	23.0	19.0	19.0	15.0	16.5	19.0
		Nominal	22.0	18.0	18.0	14.0	15.5	18.0
NR Band n77 DoD (PC3)	C	Max Allowed	19.0	15.0	15.0	15.0	15.0	15.0
		Nominal	18.0	14.0	14.0	14.0	14.0	14.0
NR Band n77 DoD (PC2)	C	Max Allowed	21.0	15.0	15.0	15.0	15.0	15.0
		Nominal	20.0	14.0	14.0	14.0	14.0	14.0
NR Band n77 (PC3)	F	Max Allowed	25.0	19.0	19.0	15.0	16.5	19.0
		Nominal	24.0	18.0	18.0	14.0	15.5	18.0
NR Band n77 (PC2)	F	Max Allowed	27.0	19.0	19.0	15.0	16.5	19.0
		Nominal	26.0	18.0	18.0	14.0	15.5	18.0
NR Band n77 (PC3)	I	Max Allowed	21.0	19.0	19.0	15.0	16.5	19.0
		Nominal	20.0	18.0	18.0	14.0	15.5	18.0
NR Band n77 (PC2)	I	Max Allowed	23.0	19.0	19.0	15.0	16.5	19.0
		Nominal	22.0	18.0	18.0	14.0	15.5	18.0
NR Band n77 (PC3)	E	Max Allowed	21.0	19.0	19.0	15.0	16.5	19.0
		Nominal	20.0	18.0	18.0	14.0	15.5	18.0
NR Band n77 (PC2)	E	Max Allowed	23.0	19.0	19.0	15.0	16.5	19.0
		Nominal	22.0	18.0	18.0	14.0	15.5	18.0
NR Band n77 (PC3)	C	Max Allowed	19.0	15.0	15.0	15.0	15.0	15.0
		Nominal	18.0	14.0	14.0	14.0	14.0	14.0
NR Band n77 (PC2)	C	Max Allowed	21.0	15.0	15.0	15.0	15.0	15.0
		Nominal	20.0	14.0	14.0	14.0	14.0	14.0

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

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1.4.2 2.4 GHz Maximum SISO/MIMO WLAN Output Power

Mode	Band	IEEE 802.11 (in dBm)													
		SISO								MIMO					
		Antenna 2													
		b		g		n		ax (SU)		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.
2.4 GHz WIFI	2.45 GHz	19.0	18.0	18.0	17.0	18.0	17.0	17.0	16.0	21.0	20.0	21.0	20.0	20.0	19.0

(Upper tolerance: Target +1.0 dB)

1.4.3 2.4 GHz Reduced WLAN Output Powers

The below table is applicable in the following conditions:

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

Mode	Band	IEEE 802.11 (in dBm)													
		SISO								MIMO					
		Antenna 2													
		b		g		n		ax (SU)		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.
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

(Upper tolerance: Target +1.0 dB)

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1.4.4 5 GHz Maximum SISO/MIMO WLAN Output Power

Mode	Band	IEEE 802.11 (in dBm)															
		SISO								MIMO							
		Antenna 1															
		a		n		ac		ax (SU)		a (CDD + STBC)		n (CDD+STBC, SDM)		ac (CDD+STBC, SDM)		ax (SU) (CDD+STBC, SDM)	
Maximum / Nominal Power		Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.
5 GHz WIFI (20MHz BW)	UNII-1	18.0	17.0	18.0	17.0	18.0	17.0	17.0	16.0	21.0	20.0	21.0	20.0	21.0	20.0	20.0	19.0
	UNII-2A	18.0	17.0	18.0	17.0	18.0	17.0	17.0	16.0	21.0	20.0	21.0	20.0	21.0	20.0	20.0	19.0
	UNII-2C	18.0	17.0	18.0	17.0	18.0	17.0	17.0	16.0	21.0	20.0	21.0	20.0	21.0	20.0	20.0	19.0
	UNII-3	18.0	17.0	18.0	17.0	18.0	17.0	17.0	16.0	21.0	20.0	21.0	20.0	21.0	20.0	20.0	19.0
	UNII-4	18.0	17.0	18.0	17.0	18.0	17.0	17.0	16.0	21.0	20.0	21.0	20.0	21.0	20.0	20.0	19.0
5 GHz WIFI (40MHz BW)	UNII-1			17.0	16.0	17.0	16.0	17.0	16.0			20.0	19.0	20.0	19.0	20.0	19.0
	UNII-2A			ch. 38: 16.0	15.0	ch. 38: 16.0	15.0	ch. 38: 16.0	15.0			ch. 38: 19.0	18.0	ch. 38: 19.0	18.0	ch. 38: 19.0	18.0
	UNII-2C			17.0	16.0	17.0	16.0	17.0	16.0			20.0	19.0	20.0	19.0	20.0	19.0
	UNII-3			17.0	16.0	17.0	16.0	17.0	16.0			20.0	19.0	20.0	19.0	20.0	19.0
	UNII-4			17.0	16.0	17.0	16.0	17.0	16.0			20.0	19.0	20.0	19.0	20.0	19.0
5 GHz WIFI (80MHz BW)	UNII-1					15.5	14.5	15.5	14.5					18.5	17.5	18.5	17.5
	UNII-2A					16.0	15.0	16.0	15.0					19.0	18.0	19.0	18.0
	UNII-2C					16.0	15.0	17.0	16.0					19.0	18.0	20.0	19.0
	UNII-3					ch. 106: 15.5	14.5	ch. 106: 15.5	14.5					ch. 106: 18.5	17.5	ch. 106: 18.5	17.5
	UNII-4					16.0	15.0	17.0	16.0					19.0	18.0	20.0	19.0
5 GHz WIFI (160MHz BW)	UNII-1/2A					15.0	14.0	15.0	14.0					18.0	17.0	18.0	17.0
	UNII-2C					14.5	13.5	14.5	13.5					17.5	16.5	17.5	16.5
	UNII-3/4					16.0	15.0	17.0	16.0					19.0	18.0	20.0	19.0

(Upper tolerance: Target +1.0 dB)

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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 2.4 GHz WLAN
- Simultaneous conditions with 5G FR1/FR2 NR
- Simultaneous conditions with 5G FR1/FR2 NR and 2.4 GHz WLAN
- RCV Active
- RCV Active during simultaneous conditions with 5G FR1/FR2 NR
- 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)															
		SISO								MIMO							
		Antenna 1															
		a		n		ac		ax (SU)		a (CDD + STBC)		n (CDD+STBC, SDM)		ac (CDD+STBC, SDM)		ax (SU) (CDD+STBC, SDM)	
Maximum / Nominal Power		Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.
5 GHz WIFI (20MHz BW)	UNII-1	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0
	UNII-2A	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0
	UNII-2C	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0
	UNII-3	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0
	UNII-4	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0
5 GHz WIFI (40MHz BW)	UNII-1			11.0	10.0	11.0	10.0	11.0	10.0			14.0	13.0	14.0	13.0	14.0	13.0
	UNII-2A			11.0	10.0	11.0	10.0	11.0	10.0			14.0	13.0	14.0	13.0	14.0	13.0
	UNII-2C			11.0	10.0	11.0	10.0	11.0	10.0			14.0	13.0	14.0	13.0	14.0	13.0
	UNII-3			11.0	10.0	11.0	10.0	11.0	10.0			14.0	13.0	14.0	13.0	14.0	13.0
	UNII-4			11.0	10.0	11.0	10.0	11.0	10.0			14.0	13.0	14.0	13.0	14.0	13.0
5 GHz WIFI (80MHz BW)	UNII-1					11.0	10.0	11.0	10.0					14.0	13.0	14.0	13.0
	UNII-2A					11.0	10.0	11.0	10.0					14.0	13.0	14.0	13.0
	UNII-2C					11.0	10.0	11.0	10.0					14.0	13.0	14.0	13.0
	UNII-3					11.0	10.0	11.0	10.0					14.0	13.0	14.0	13.0
	UNII-4					11.0	10.0	11.0	10.0					14.0	13.0	14.0	13.0
5 GHz WIFI (160MHz BW)	UNII-1/2A					11.0	10.0	11.0	10.0					14.0	13.0	14.0	13.0
	UNII-2C					11.0	10.0	11.0	10.0					14.0	13.0	14.0	13.0
	UNII-3/4					11.0	10.0	11.0	10.0					14.0	13.0	14.0	13.0

(Upper tolerance: Target +1.0 dB)

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1.4.6 2.4 GHz Maximum Bluetooth Output Power

Mode	Antenna 1/Antenna 2	
	Nominal	Maximum
Bluetooth (in dBm)	16.5	17.5
Bluetooth EDR (in dBm)	12.5	13.5
Bluetooth LE 1/2Mbps (in dBm)	16.0	17.0
Bluetooth LE 125/500 kbps (in dBm)	9.5	10.5

(Upper tolerance: Target +1.0 dB)

1.4.7 2.4 GHz Reduced Bluetooth Output Power

The below table is applicable in the following condition:

- RCV Active.

Mode	Antenna 1/Antenna 2	
	Nominal	Maximum
Bluetooth (in dBm)	10.5	11.5
Bluetooth EDR (in dBm)	10.5	11.5
Bluetooth LE 1/2Mbps (in dBm)	10.5	11.5
Bluetooth LE 125/500 kbps (in dBm)	9.5	10.5

(Upper tolerance: Target +1.0 dB)

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1.5 DUT Antenna Locations

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

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

Mode	Back	Front	Top	Bottom	Right	Left
GPRS 850	Yes	Yes	No	Yes	Yes	Yes
GPRS 1900	Yes	Yes	No	Yes	Yes	Yes
UMTS 850	Yes	Yes	No	Yes	Yes	Yes
UMTS 1750	Yes	Yes	No	Yes	Yes	Yes
UMTS 1900	Yes	Yes	No	Yes	Yes	Yes
LTE Band 71	Yes	Yes	No	Yes	Yes	Yes
LTE Band 12	Yes	Yes	No	Yes	Yes	Yes
LTE Band 13	Yes	Yes	No	Yes	Yes	Yes
LTE Band 14	Yes	Yes	No	Yes	Yes	Yes
LTE Band 26 (Cell)	Yes	Yes	No	Yes	Yes	Yes
LTE Band 5 (Cell)	Yes	Yes	No	Yes	Yes	Yes
LTE Band 66 (AWS)	Yes	Yes	No	Yes	Yes	Yes
LTE Band 25 (PCS)	Yes	Yes	No	Yes	Yes	Yes
LTE Band 30	Yes	Yes	No	Yes	No	Yes
LTE Band 7	Yes	Yes	No	Yes	No	Yes
LTE Band 41	Yes	Yes	No	Yes	No	Yes
LTE Band 48	Yes	Yes	Yes	No	No	Yes
NR Band n71	Yes	Yes	No	Yes	Yes	Yes
NR Band n12	Yes	Yes	No	Yes	Yes	Yes
NR Band n5 (Cell)	Yes	Yes	No	Yes	Yes	Yes
NR Band n66 (AWS) Antenna A	Yes	Yes	No	Yes	Yes	Yes
NR Band n66 (AWS) Antenna I	Yes	Yes	Yes	No	Yes	No
NR Band n25 (PCS) Antenna A	Yes	Yes	No	Yes	Yes	Yes
NR Band n25 (PCS) Antenna I	Yes	Yes	Yes	No	Yes	No
NR Band n30 Antenna B	Yes	Yes	No	Yes	No	Yes
NR Band n30 Antenna I	Yes	Yes	Yes	No	Yes	No
NR Band n7 Antenna B	Yes	Yes	No	Yes	No	Yes
NR Band n41 Antenna I	Yes	Yes	Yes	No	Yes	No
NR Band n41 Antenna B	Yes	Yes	No	Yes	No	Yes
NR Band n41 Antenna F	Yes	Yes	Yes	No	No	Yes
NR Band n41 Antenna C	Yes	Yes	No	Yes	No	Yes
NR Band n48 Antenna F	Yes	Yes	Yes	No	No	Yes
NR Band n48 Antenna I	Yes	Yes	Yes	No	Yes	No
NR Band n48 Antenna E	Yes	Yes	Yes	No	No	Yes
NR Band n48 Antenna C	Yes	Yes	No	Yes	No	Yes
NR Band n77 DoD Antenna F	Yes	Yes	Yes	No	No	Yes
NR Band n77 DoD Antenna I	Yes	Yes	Yes	No	Yes	No
NR Band n77 DoD Antenna E	Yes	Yes	Yes	No	No	Yes
NR Band n77 DoD Antenna C	Yes	Yes	No	Yes	No	Yes
NR Band n77 Antenna F	Yes	Yes	Yes	No	No	Yes
NR Band n77 Antenna I	Yes	Yes	Yes	No	Yes	No
NR Band n77 Antenna E	Yes	Yes	Yes	No	No	Yes
NR Band n77 Antenna C	Yes	Yes	No	Yes	No	Yes
2.4 GHz WLAN Ant 2	Yes	Yes	Yes	No	Yes	No
2.4 GHz WLAN MIMO	Yes	Yes	Yes	No	Yes	Yes
5 GHz WLAN Ant 1	Yes	Yes	Yes	No	No	Yes
5 GHz WLAN MIMO	Yes	Yes	Yes	No	Yes	Yes
Bluetooth Ant 1	Yes	Yes	Yes	No	No	Yes
Bluetooth Ant 2	Yes	Yes	Yes	No	Yes	No
NFC	Yes	Yes	No	Yes	Yes	Yes

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

Mode	Back	Front	Top	Bottom	Right	Left
GPRS 850	Yes	Yes	No	Yes	Yes	Yes
GPRS 1900	Yes	Yes	No	Yes	Yes	Yes
UMTS 850	Yes	Yes	No	Yes	Yes	Yes
UMTS 1750	Yes	Yes	No	Yes	Yes	Yes
UMTS 1900	Yes	Yes	No	Yes	Yes	Yes
LTE Band 71	Yes	Yes	No	Yes	Yes	Yes
LTE Band 12	Yes	Yes	No	Yes	Yes	Yes
LTE Band 13	Yes	Yes	No	Yes	Yes	Yes
LTE Band 14	Yes	Yes	No	Yes	Yes	Yes
LTE Band 26 (Cell)	Yes	Yes	No	Yes	Yes	Yes
LTE Band 5 (Cell)	Yes	Yes	No	Yes	Yes	Yes
LTE Band 66 (AWS)	Yes	Yes	No	Yes	Yes	Yes
LTE Band 25 (PCS)	Yes	Yes	No	Yes	Yes	Yes
LTE Band 30	Yes	Yes	No	Yes	No	Yes
LTE Band 7	Yes	Yes	No	Yes	No	Yes
LTE Band 41	Yes	Yes	No	Yes	No	Yes
LTE Band 48	Yes	Yes	No	Yes	No	Yes
NR Band n71	Yes	Yes	No	Yes	Yes	Yes
NR Band n12	Yes	Yes	No	Yes	Yes	Yes
NR Band n5 (Cell)	Yes	Yes	No	Yes	Yes	Yes
NR Band n66 (AWS) Antenna A	Yes	Yes	No	Yes	Yes	Yes
NR Band n66 (AWS) Antenna I	Yes	Yes	Yes	Yes	Yes	No
NR Band n25 (PCS) Antenna A	Yes	Yes	No	Yes	Yes	Yes
NR Band n25 (PCS) Antenna I	Yes	Yes	Yes	Yes	Yes	No
NR Band n30 Antenna B	Yes	Yes	No	Yes	No	Yes
NR Band n30 Antenna I	Yes	Yes	Yes	Yes	Yes	No
NR Band n7 Antenna B	Yes	Yes	No	Yes	No	Yes
NR Band n41 Antenna I	Yes	Yes	Yes	Yes	Yes	No
NR Band n41 Antenna B	Yes	Yes	No	Yes	No	Yes
NR Band n41 Antenna F	Yes	Yes	No	Yes	No	Yes
NR Band n41 Antenna C	Yes	Yes	Yes	Yes	No	Yes
NR Band n48 Antenna F	Yes	Yes	No	Yes	No	Yes
NR Band n48 Antenna I	Yes	Yes	Yes	Yes	Yes	No
NR Band n48 Antenna E	Yes	Yes	Yes	Yes	No	Yes
NR Band n48 Antenna C	Yes	Yes	Yes	Yes	No	Yes
NR Band n77 DoD Antenna F	Yes	Yes	No	Yes	No	Yes
NR Band n77 DoD Antenna I	Yes	Yes	Yes	Yes	Yes	No
NR Band n77 DoD Antenna E	Yes	Yes	Yes	Yes	No	Yes
NR Band n77 DoD Antenna C	Yes	Yes	Yes	Yes	No	Yes
NR Band n77 Antenna F	Yes	Yes	No	Yes	No	Yes
NR Band n77 Antenna I	Yes	Yes	Yes	Yes	Yes	No
NR Band n77 Antenna E	Yes	Yes	Yes	Yes	No	Yes
NR Band n77 Antenna C	Yes	Yes	Yes	Yes	No	Yes
2.4 GHz WLAN Ant 2	Yes	Yes	No	Yes	Yes	No
2.4 GHz WLAN MIMO	Yes	Yes	No	Yes	Yes	Yes
5 GHz WLAN Ant 1	Yes	Yes	No	Yes	No	Yes
5 GHz WLAN MIMO	Yes	Yes	No	Yes	Yes	Yes
Bluetooth Ant 1	Yes	Yes	No	Yes	No	Yes
Bluetooth Ant 2	Yes	Yes	No	Yes	Yes	No

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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, UNII-4 operations are disabled.

1.6 Near Field Communications (NFC) Antenna

This DUT has NFC operations. The NFC antenna is integrated into the device for this model. Therefore, all SAR tests were performed with the device which already incorporates the NFC antenna. A diagram showing the location of the NFC antenna can be found in DUT Antenna Diagram and 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 1-3
Simultaneous Transmission Scenarios**

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

- 2.4 GHz WLAN ant 1 and 2.4 GHz Bluetooth ant 1 share the same antenna path and cannot transmit simultaneously.
- When the user utilizes multiple services in UMTS 3G mode it uses multi-Radio Access Bearer or multi-RAB. The power control is based on a physical control channel (Dedicated Physical Control Channel

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[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. This device supports 2x2 MIMO Tx for WLAN 802.11a/g/n/ac/ax. 802.11a/g/n/ac/ax supports CDD and STBC and 802.11n/ac/ax additionally supports SDM.
6. This device supports VoWIFI.
7. This device supports Bluetooth Tethering.
8. This device supports VoLTE.
9. This device supports VoNR.
10. LTE + 5G NR FR1 Scenarios are limited to EN-DC combinations with anchor bands as shown in the NR FR1 checklist.
11. 5G NR FR2 n258, n260, and n261 cannot transmit simultaneously.
12. LTE + 5G NR FR2 Scenarios are limited to EN-DC combinations with anchor bands as shown in the NR FR2 checklist.

1.8 Miscellaneous SAR Test Considerations

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

(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 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 GHz
- f) MU-MIMO UL Operations are not supported

Per FCC KDB Publication 648474 D04v01r03, this device is considered a "phablet" in open configuration since the diagonal dimension is greater than 160mm and less than 200mm. Phablet SAR tests are required when wireless router mode does not apply or if wireless router 1g SAR > 1.2 W/kg. Because wireless router operations are not supported for U-NII-1, U-NII-2A, U-NII-2C, and U-NII-4 WLAN, phablet SAR tests were performed. Phablet SAR was not evaluated for 2.4 GHz and U-NII-3 WLAN operations since wireless router 1g SAR was < 1.2 W/kg.

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

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(B) Licensed Transmitter(s)

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

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

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

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" when it is in an open configuration since the diagonal dimension is greater than 160mm and less than 200mm. Therefore, phablet SAR tests are required when wireless router mode does not apply or if wireless router 1g SAR > 1.2 W/kg.

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

This device supports LTE/NR 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 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.

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

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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)

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
RF Exposure Part 2 Test Report	1M2204080051-22.A3L
PD Exposure Part 0 Test Report	Revision A
Near Field PD Report (Part 1)	1M2204080051-25.A3L
RF Exposure Compliance Summary Report	1M2204080051-24.A3L
RF Exposure Part 0 Test Report	1M2204080051-23.A3L

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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 (23095)		715.3 (23173)
LTE Band 12: 3 MHz	700.5 (23025)		707.5 (23095)		714.5 (23165)
LTE Band 12: 5 MHz	701.5 (23035)		707.5 (23095)		713.5 (23155)
LTE Band 12: 10 MHz	704 (23060)		707.5 (23095)		711 (23130)
LTE Band 13: 5 MHz	779.5 (23205)		782 (23230)		784.5 (23255)
LTE Band 13: 10 MHz	N/A		782 (23230)		N/A
LTE Band 14: 5 MHz	790.5 (23305)		793 (23330)		795.5 (23355)
LTE Band 14: 10 MHz	N/A		793 (23330)		N/A
LTE Band 26 (Cell): 1.4 MHz	814.7 (26697)		831.5 (26865)		848.3 (27033)
LTE Band 26 (Cell): 3 MHz	815.5 (26705)		831.5 (26865)		847.5 (27025)
LTE Band 26 (Cell): 5 MHz	816.5 (26715)		831.5 (26865)		846.5 (27015)
LTE Band 26 (Cell): 10 MHz	819 (26740)		831.5 (26865)		844 (26990)
LTE Band 26 (Cell): 15 MHz	821.5 (26765)		831.5 (26865)		841.5 (26965)
LTE Band 5 (Cell): 1.4 MHz	824.7 (20407)		836.5 (20525)		848.3 (20643)
LTE Band 5 (Cell): 3 MHz	825.5 (20415)		836.5 (20525)		847.5 (20635)
LTE Band 5 (Cell): 5 MHz	826.5 (20425)		836.5 (20525)		846.5 (20625)
LTE Band 5 (Cell): 10 MHz	829 (20450)		836.5 (20525)		844 (20600)
LTE Band 66 (AWS): 1.4 MHz	1710.7 (131979)		1745 (132322)		1779.3 (132665)
LTE Band 66 (AWS): 3 MHz	1711.5 (131987)		1745 (132322)		1778.5 (132657)
LTE Band 66 (AWS): 5 MHz	1712.5 (131997)		1745 (132322)		1777.5 (132647)
LTE Band 66 (AWS): 10 MHz	1715 (132022)		1745 (132322)		1775 (132622)
LTE Band 66 (AWS): 15 MHz	1717.5 (132047)		1745 (132322)		1772.5 (132597)
LTE Band 66 (AWS): 20 MHz	1720 (132072)		1745 (132322)		1770 (132572)
LTE Band 4 (AWS): 1.4 MHz	1710.7 (19957)		1732.5 (20175)		1754.3 (20389)
LTE Band 4 (AWS): 3 MHz	1711.5 (19965)		1732.5 (20175)		1753.5 (20385)
LTE Band 4 (AWS): 5 MHz	1712.5 (19975)		1732.5 (20175)		1752.5 (20375)
LTE Band 4 (AWS): 10 MHz	1715 (20000)		1732.5 (20175)		1750 (20350)
LTE Band 4 (AWS): 15 MHz	1717.5 (20025)		1732.5 (20175)		1747.5 (20325)
LTE Band 4 (AWS): 20 MHz	1720 (20050)		1732.5 (20175)		1745 (20300)
LTE Band 25 (PCS): 1.4 MHz	1850.7 (26047)		1882.5 (26365)		1914.3 (26683)
LTE Band 25 (PCS): 3 MHz	1851.5 (26055)		1882.5 (26365)		1913.5 (26675)
LTE Band 25 (PCS): 5 MHz	1852.5 (26065)		1882.5 (26365)		1912.5 (26665)
LTE Band 25 (PCS): 10 MHz	1855 (26090)		1882.5 (26365)		1910 (26640)
LTE Band 25 (PCS): 15 MHz	1857.5 (26115)		1882.5 (26365)		1907.5 (26615)
LTE Band 25 (PCS): 20 MHz	1860 (26140)		1882.5 (26365)		1905 (26590)
LTE Band 2 (PCS): 1.4 MHz	1850.7 (18607)		1880 (18900)		1909.3 (19193)
LTE Band 2 (PCS): 3 MHz	1851.5 (18615)		1880 (18900)		1908.5 (19185)
LTE Band 2 (PCS): 5 MHz	1852.5 (18625)		1880 (18900)		1907.5 (19175)
LTE Band 2 (PCS): 10 MHz	1855 (18650)		1880 (18900)		1905 (19150)
LTE Band 2 (PCS): 15 MHz	1857.5 (18675)		1880 (18900)		1902.5 (19125)
LTE Band 2 (PCS): 20 MHz	1860 (18700)		1880 (18900)		1900 (19100)
LTE Band 30: 5 MHz	2307.5 (27685)		2310 (27710)		2312.5 (27735)
LTE Band 30: 10 MHz	N/A		2310 (27710)		N/A
LTE Band 7: 5 MHz	2502.5 (20775)		2535 (21100)		2567.5 (21425)
LTE Band 7: 10 MHz	2505 (20800)		2535 (21100)		2565 (21400)
LTE Band 7: 15 MHz	2507.5 (20825)		2535 (21100)		2562.5 (21375)
LTE Band 7: 20 MHz	2510 (20850)		2535 (21100)		2560 (21350)
LTE Band 41: 5 MHz	2506 (39750)	2549.5 (40185)	2549.5 (40185)	2593 (40620)	2636.5 (41055)
LTE Band 41: 10 MHz	2506 (39750)	2549.5 (40185)	2549.5 (40185)	2593 (40620)	2636.5 (41055)
LTE Band 41: 15 MHz	2506 (39750)	2549.5 (40185)	2549.5 (40185)	2593 (40620)	2636.5 (41055)
LTE Band 41: 20 MHz	2506 (39750)	2549.5 (40185)	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)	3696 (56690)
LTE Band 48: 15 MHz	3557.5 (55315)	3602.5 (55765)	N/A	3647.5 (56215)	3695.5 (56685)
LTE Band 48: 20 MHz	3560 (55340)	3603.3 (55773)	N/A	3646.7 (56207)	3695 (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 6.2.3-6.2.5.7 (manufacturer attestation to be provided)	YES				
A-MPR (Additional MPR) disabled for SAR Testing?	YES				
LTE Carrier Aggregation Possible Combinations	The technical description includes all the possible carrier aggregation combinations				
LTE Additional Information	This device does not support full CA features on 3GPP Release 16. It supports carrier aggregation, downlink MIMO, LAA features as shown in Section 9 and Appendix 1. All uplink communications are identical to the Release 8 Specifications. Uplink communications are done on the PCC. The following LTE Release 16 Features are not supported: Relay, HetNet, Enhanced MIMO, eICIC, eMBS, Cross-Carrier Scheduling, Enhanced SC-FDMA.				

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NR Information					
Form Factor Frequency Range of each NR transmission band	Portable Handset				
	NR Band n1 (655.5 - 695.5 MHz)				
	NR Band n12 (701.5 - 713.5 MHz)				
	NR Band n5 (Cell) (826.5 - 846.5 MHz)				
	NR Band n66 (AWS) (1712.5 - 1777.5 MHz)				
	NR Band n25 (PCS) (1852.5 - 1912.5 MHz)				
	NR Band n2 (PCS) (1852.5 - 1907.5 MHz)				
	NR Band n30 (2307.5 - 2312.5 MHz)				
	NR Band n7 (2502.5 - 2567.5 MHz)				
	NR Band n41 (2506.02 - 2679.99 MHz)				
	NR Band n38 (2579 - 2675 MHz)				
	NR Band n48 (3555 - 3694.98 MHz)				
	NR Band n77 DoD (3455.01 - 3544.98 MHz)				
	NR Band n77 (3705 - 3975 MHz)				
Channel Bandwidths	NR Band n1: 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	NR Band n12: 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	NR Band n5 (Cell): 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	NR Band n66 (AWS): 5 MHz, 10 MHz, 15 MHz, 20 MHz, 30 MHz, 40 MHz				
	NR Band n25 (PCS): 5 MHz, 10 MHz, 15 MHz, 20 MHz, 25 MHz, 30 MHz, 40 MHz				
	NR Band n2 (PCS): 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	NR Band n30: 5 MHz, 10 MHz				
	NR Band n7: 5 MHz, 10 MHz, 15 MHz, 20 MHz, 25 MHz, 30 MHz, 40 MHz				
	NR Band n41: 20 MHz, 30 MHz, 40 MHz, 50 MHz, 60 MHz, 70 MHz, 80 MHz, 90 MHz, 100 MHz				
	NR Band n38: 10 MHz, 15 MHz, 20 MHz, 30 MHz, 40 MHz				
	NR Band n77 DoD: 10 MHz, 15 MHz, 20 MHz, 30 MHz, 40 MHz, 50 MHz, 60 MHz, 70 MHz, 80 MHz, 90 MHz, 100 MHz				
	NR Band n77: 10 MHz, 15 MHz, 20 MHz, 30 MHz, 40 MHz, 50 MHz, 60 MHz, 70 MHz, 80 MHz, 90 MHz, 100 MHz				
	Channel Numbers and Frequencies (MHz)				
	NR Band n1: 5 MHz	655.5 (133147)	680.5 (136100)	695.5 (133447)	
NR Band n1: 10 MHz	668 (133600)	680.5 (136100)	693 (138600)		
NR Band n1: 15 MHz	670.5 (134100)	680.5 (136100)	690.5 (138100)		
NR Band n1: 20 MHz	673 (134600)	680.5 (136100)	688 (137600)		
NR Band n12: 5 MHz	701.5 (140300)	707.5 (141500)	713.5 (142700)		
NR Band n12: 10 MHz	704 (140800)	707.5 (141500)	711 (142200)		
NR Band n12: 15 MHz	706.5 (141300)	707.5 (141500)	708.5 (141700)		
NR Band n5 (Cell): 5 MHz	826.5 (165300)	836.5 (167300)	846.5 (169300)		
NR Band n5 (Cell): 10 MHz	829 (165800)	836.5 (167300)	844 (168800)		
NR Band n5 (Cell): 15 MHz	831.5 (166300)	836.5 (167300)	841.5 (168300)		
NR Band n5 (Cell): 20 MHz	834 (166800)	836.5 (167300)	839 (167800)		
NR Band n66 (AWS): 5 MHz	1712.5 (342500)	1745 (349000)	1777.5 (355500)		
NR Band n66 (AWS): 10 MHz	1715 (343000)	1745 (349000)	1775 (355000)		
NR Band n66 (AWS): 15 MHz	1717.5 (343500)	1745 (349000)	1772.5 (354500)		
NR Band n66 (AWS): 20 MHz	1720 (344000)	1745 (349000)	1770 (354000)		
NR Band n66 (AWS): 30 MHz	1725 (345000)	1745 (349000)	1765 (353000)		
NR Band n66 (AWS): 40 MHz	1730 (346000)	1745 (349000)	1760 (352000)		
NR Band n25 (PCS): 5 MHz	1852.5 (370500)	1852.5 (376500)	1912.5 (382500)		
NR Band n25 (PCS): 10 MHz	1855 (371000)	1852.5 (376500)	1910 (382000)		
NR Band n25 (PCS): 15 MHz	1857.5 (371500)	1852.5 (376500)	1907.5 (381500)		
NR Band n25 (PCS): 20 MHz	1860 (372000)	1852.5 (376500)	1905 (381000)		
NR Band n25 (PCS): 25 MHz	1862.5 (372500)	1852.5 (376500)	1902.5 (380500)		
NR Band n25 (PCS): 30 MHz	1865 (373000)	1852.5 (376500)	1900 (380000)		
NR Band n25 (PCS): 40 MHz	1870 (374000)	1852.5 (376500)	1895 (379000)		
NR Band n2 (PCS): 5 MHz	1852.5 (370500)	1880 (376000)	1907.5 (381500)		
NR Band n2 (PCS): 10 MHz	1855 (371000)	1880 (376000)	1905 (381000)		
NR Band n2 (PCS): 15 MHz	1857.5 (371500)	1880 (376000)	1902.5 (380500)		
NR Band n2 (PCS): 20 MHz	1860 (372000)	1880 (376000)	1900 (380000)		
NR Band n30: 5 MHz	2307.5 (461500)	2310 (462000)	2312.5 (462500)		
NR Band n30: 10 MHz	N/A	2310 (462000)	N/A		
NR Band n7: 5 MHz	2502.5 (500500)	2535 (507000)	2567.5 (513500)		
NR Band n7: 10 MHz	2505 (501000)	2535 (507000)	2565 (513000)		
NR Band n7: 15 MHz	2507.5 (501500)	2535 (507000)	2562.5 (512500)		
NR Band n7: 20 MHz	2510 (502000)	2535 (507000)	2560 (512000)		
NR Band n7: 25 MHz	2512.5 (502500)	2535 (507000)	2557.5 (511500)		
NR Band n7: 30 MHz	2515 (503000)	2535 (507000)	2555 (511000)		
NR Band n7: 40 MHz	2520 (504000)	2535 (507000)	2550 (510000)		
NR Band n41: 20 MHz	2506.02 (501204)	2549.49 (509998)	2636.40 (527296)	2679.99 (535998)	
NR Band n41: 30 MHz	2511 (502000)	2552.01 (510402)	2592.99 (518998)	2634 (526900)	
NR Band n41: 40 MHz	2516.01 (503202)	2567.34 (513468)	N/A	2618.67 (523734)	
NR Band n41: 50 MHz	2521.02 (504204)	2592.99 (518998)	2644.99 (525998)	2670 (534000)	
NR Band n41: 60 MHz	2526 (505200)	2592.99 (518998)	2650.99 (531098)		
NR Band n41: 70 MHz	2531.01 (506202)	N/A	2655 (531000)		
NR Band n41: 80 MHz	2536.02 (507204)	N/A	2649.99 (529998)		
NR Band n41: 90 MHz	2541 (508200)	N/A	2644.99 (528998)		
NR Band n41: 100 MHz	2546.01 (509202)	2592.99 (518998)	2640 (528000)		
NR Band n38: 10 MHz	2575 (515000)	2595 (519000)	2615 (523000)		
NR Band n38: 15 MHz	2577.5 (515500)	2595 (519000)	2612.5 (522500)		
NR Band n38: 20 MHz	2580 (516000)	2595 (519000)	2610 (522000)		
NR Band n38: 30 MHz	2585 (517000)	2595 (519000)	2605 (521000)		
NR Band n38: 40 MHz	2590 (518000)	2595 (519000)	2600 (520000)		
NR Band n48: 10 MHz	3555 (637000)	3601.68 (640112)	N/A	3648.33 (643222)	
NR Band n48: 20 MHz	3560.01 (637334)	3603.33 (640222)	N/A	3645.66 (643112)	
NR Band n48: 30 MHz	3565.02 (637668)	3605.01 (640334)	N/A	3645 (643000)	
NR Band n48: 40 MHz	3570 (638000)	N/A	3624.99 (641666)	N/A	
NR Band n77 DoD: 10 MHz	3455.01 (630334)	3500.01 (633334)	3544.98 (636332)		
NR Band n77 DoD: 15 MHz	3457.5 (630500)	3500.01 (633334)	3542.49 (636166)		
NR Band n77 DoD: 20 MHz	3460.02 (630668)	3500.01 (633334)	3540 (636000)		
NR Band n77 DoD: 30 MHz	3465 (631000)	3500.01 (633334)	3534.99 (635666)		
NR Band n77 DoD: 40 MHz	3470.01 (631334)	N/A	3470.01 (631334)		
NR Band n77 DoD: 50 MHz	3475.02 (631668)	N/A	3475.02 (631668)		
NR Band n77 DoD: 60 MHz	N/A	3500.01 (633334)	N/A		
NR Band n77 DoD: 70 MHz	N/A	3500.01 (633334)	N/A		
NR Band n77 DoD: 80 MHz	N/A	3500.01 (633334)	N/A		
NR Band n77 DoD: 90 MHz	N/A	3500.01 (633334)	N/A		
NR Band n77 DoD: 100 MHz	N/A	3500.01 (633334)	N/A		
NR Band n77: 10 MHz	3705 (647000)	3759 (650600)	3813 (654200)	3867 (657800)	
NR Band n77: 15 MHz	3707.52 (647168)	3760.5 (650700)	3813.51 (654234)	3866.49 (657766)	
NR Band n77: 20 MHz	3710.01 (647334)	3762 (650800)	3813.99 (654266)	3866.01 (657734)	
NR Band n77: 30 MHz	3715.02 (647668)	3765 (651000)	3815.01 (654334)	3864.99 (657666)	
NR Band n77: 40 MHz	3720 (648000)	3768 (651200)	3816 (654400)	3864 (657600)	
NR Band n77: 50 MHz	3725.01 (648334)	3782.48 (651266)	3820 (655000)	3867.51 (658334)	
NR Band n77: 60 MHz	3730.02 (648668)	3803.34 (653566)	N/A	3876.66 (658444)	
NR Band n77: 70 MHz	3735 (649000)	3804.99 (653666)	N/A	3875.01 (658334)	
NR Band n77: 80 MHz	3740.01 (649334)	N/A	3840 (659000)	3939.99 (662666)	
NR Band n77: 90 MHz	3745.02 (649668)	N/A	3840 (659000)	N/A	
NR Band n77: 100 MHz	3750 (650000)	N/A	N/A	N/A	
SCS for NR Band n1/n12/n5/n66/n25/n30/n7			15 kHz		
SCS for NR Band n41/n38/n48/n77			30 kHz		
Modulations Supported in UL					
DFT-s-OFDM: μ /2 BPSK, QPSK, 16QAM, 64QAM, 256QAM					
CP-OFDM: QPSK, 16QAM, 64QAM, 256QAM					
A-MPR (Additional MPDR) 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 2/48/66					
LTE Anchor Bands for NR Band n12					
LTE Band 2/48/66					
LTE Anchor Bands for NR Band n5 (Cell)					
LTE Band 2/30/48/66					
LTE Anchor Bands for NR Band n66 (AWS)					
LTE Band 2/5/12/13/14/30/48					
LTE Anchor Bands for NR Band n25 (PCS)					
LTE Band 12/66					
LTE Anchor Bands for NR Band n2 (PCS)					
LTE Band 5/12/13/14/30/48/66					
LTE Anchor Bands for NR Band n30					
LTE Band 2/5/12/14/66					
LTE Anchor Bands for NR Band n7					
N/A					
LTE Anchor Bands for NR Band n41					
LTE Band 2/66					
LTE Anchor Bands for NR Band n38					
N/A					
LTE Anchor Bands for NR Band n48					
LTE Band 2/66					
LTE Anchor Bands for NR Band n77					
LTE Band 2/5/12/13/14/30/66					

3 INTRODUCTION

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

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

3.1 SAR Definition

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

Equation 3-1
SAR Mathematical Equation

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

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

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

where:

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

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

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4 DOSIMETRIC ASSESSMENT

4.1 Measurement Procedure

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

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

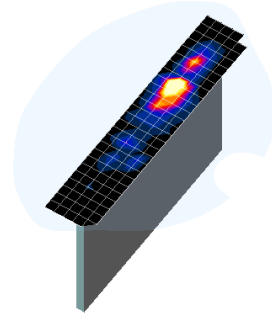


Figure 4-1
Sample SAR Area
Scan

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

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

*Also compliant to IEEE 1528-2013 Table 6

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5.1 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].

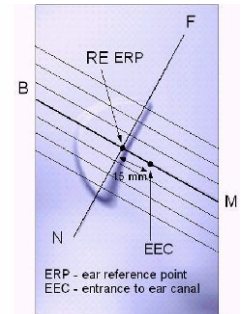


Figure 5-1
Close-Up Side view
of ERP

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.

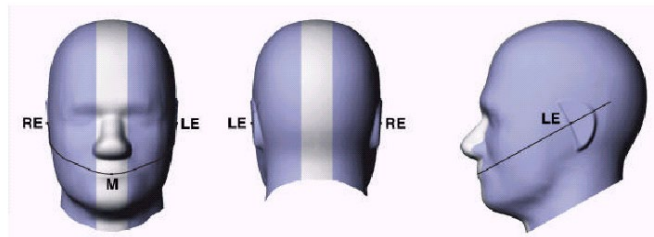


Figure 5-2
Front, back and side view of SAM Twin Phantom

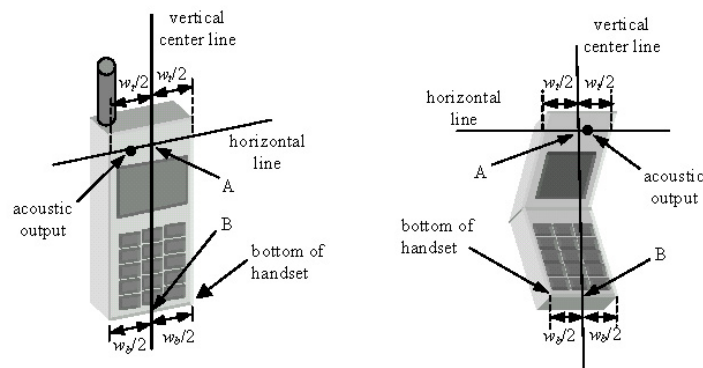


Figure 5-3
Handset Vertical Center & Horizontal Line Reference Points

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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.

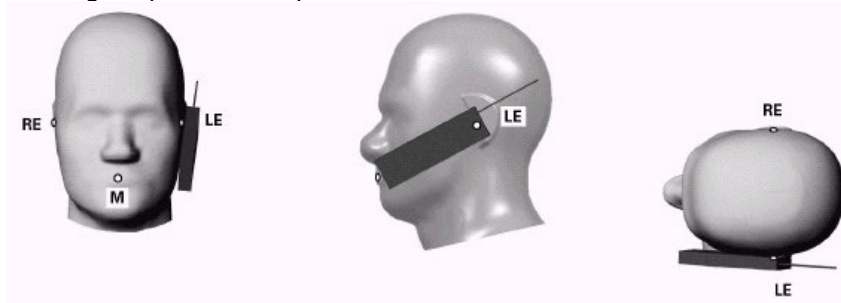


Figure 6-1 Front, Side and Top View of Cheek Position

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

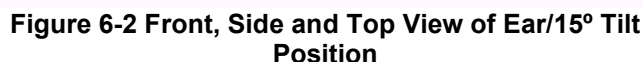
With the test device aligned in the “Cheek Position”:

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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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 support voice calls next to the ear, the phablets procedures outlined in KDB Publication 648474 D04v01r03

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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.

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

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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.

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

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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 2G/3G/4G/5G 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}

Maximum Burst-Averaged Output Power										
		Voice	GPRS/EDGE Data (GMSK)				EDGE Data (8-PSK)			
Band	Channel	GSM [dBm] CS (1 Slot)	GPRS [dBm] 1 Tx Slot	GPRS [dBm] 2 Tx Slot	GPRS [dBm] 3 Tx Slot	GPRS [dBm] 4 Tx Slot	EDGE [dBm] 1 Tx Slot	EDGE [dBm] 2 Tx Slot	EDGE [dBm] 3 Tx Slot	EDGE [dBm] 4 Tx Slot
GSM 850	128	32.34	32.39	31.59	29.68	27.66	26.66	24.92	23.12	22.23
	190	32.30	32.40	31.80	29.73	27.89	26.89	25.23	23.06	22.42
	251	32.41	32.12	31.91	29.53	27.94	26.73	25.07	23.18	21.83
GSM 1900	512	29.87	29.77	28.66	26.67	25.10	25.71	24.66	22.60	21.59
	661	29.96	29.89	28.92	26.92	25.14	25.91	24.77	22.69	21.87
	810	29.91	29.94	28.84	26.98	24.28	25.79	24.43	22.76	21.37
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	23.14	23.19	25.40	25.25	24.48	17.46	18.73	18.69	19.05
	190	23.10	23.20	25.61	25.30	24.71	17.69	19.04	18.63	19.24
	251	23.21	22.92	25.72	25.10	24.76	17.53	18.88	18.75	18.65
GSM 1900	512	20.67	20.57	22.47	22.24	21.92	16.51	18.47	18.17	18.41
	661	20.76	20.69	22.73	22.49	21.96	16.71	18.58	18.26	18.69
	810	20.71	20.74	22.65	22.55	21.10	16.59	18.24	18.33	18.19
GSM 850	Frame Avg. Targets:	23.00	23.00	25.31	25.07	24.32	17.80	18.81	18.57	18.82
GSM 1900		19.80	19.80	21.81	22.07	21.32	15.80	17.81	17.57	17.82

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Table 9-2
Measured P_{limit} for DSI = 3 (Hotspot mode) for GSM 850

Maximum Burst-Averaged Output Power									
		GPRS/EDGE Data (GMSK)				EDGE Data (8-PSK)			
Band	Channel	GPRS [dBm] 1 Tx Slot	GPRS [dBm] 2 Tx Slot	GPRS [dBm] 3 Tx Slot	GPRS [dBm] 4 Tx Slot	EDGE [dBm] 1 Tx Slot	EDGE [dBm] 2 Tx Slot	EDGE [dBm] 3 Tx Slot	EDGE [dBm] 4 Tx Slot
GSM 850	128	30.97	28.49	26.02	24.77	26.66	24.92	23.12	22.23
	190	31.37	28.63	26.14	24.83	26.89	25.23	23.06	22.42
	251	31.40	28.74	27.12	24.76	26.73	25.07	23.18	21.83
Calculated Maximum Frame-Averaged Output Power									
		GPRS/EDGE Data (GMSK)				EDGE Data (8-PSK)			
Band	Channel	GPRS [dBm] 1 Tx Slot	GPRS [dBm] 2 Tx Slot	GPRS [dBm] 3 Tx Slot	GPRS [dBm] 4 Tx Slot	EDGE [dBm] 1 Tx Slot	EDGE [dBm] 2 Tx Slot	EDGE [dBm] 3 Tx Slot	EDGE [dBm] 4 Tx Slot
GSM 850	128	21.77	22.30	21.59	21.59	17.46	18.73	18.69	19.05
	190	22.17	22.44	21.71	21.65	17.69	19.04	18.63	19.24
	251	22.20	22.55	22.69	21.58	17.53	18.88	18.75	18.65
GSM 850	Frame Avg.Targets:	21.80	21.81	21.77	21.82	17.80	18.81	18.57	18.82

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Table 9-3
Measured Plimit for DSI = 3 (Hotspot Mode), or
DSI = 1 (Phablet with grip sensor inactive), or and/or DSI = 4 (Earjack active) for GSM 1900

Maximum Burst-Averaged Output Power										
		Voice	GPRS/EDGE Data (GMSK)				EDGE Data (8-PSK)			
Band	Channel	GSM [dBm] CS (1 Slot)	GPRS [dBm] 1 Tx Slot	GPRS [dBm] 2 Tx Slot	GPRS [dBm] 3 Tx Slot	GPRS [dBm] 4 Tx Slot	EDGE [dBm] 1 Tx Slot	EDGE [dBm] 2 Tx Slot	EDGE [dBm] 3 Tx Slot	EDGE [dBm] 4 Tx Slot
GSM 1900	512	28.55	28.39	25.88	23.56	22.46	25.71	24.66	22.60	21.59
	661	28.72	28.31	25.83	23.71	22.60	25.91	24.77	22.69	21.87
	810	28.94	28.67	25.96	23.84	22.92	25.79	24.43	22.76	21.37
Calculated Maximum Frame-Averaged Output Power										
		Voice	GPRS/EDGE Data (GMSK)				EDGE Data (8-PSK)			
Band	Channel	GSM [dBm] CS (1 Slot)	GPRS [dBm] 1 Tx Slot	GPRS [dBm] 2 Tx Slot	GPRS [dBm] 3 Tx Slot	GPRS [dBm] 4 Tx Slot	EDGE [dBm] 1 Tx Slot	EDGE [dBm] 2 Tx Slot	EDGE [dBm] 3 Tx Slot	EDGE [dBm] 4 Tx Slot
GSM 1900	512	19.35	19.19	19.69	19.13	19.28	16.51	18.47	18.17	18.41
	661	19.52	19.11	19.64	19.28	19.42	16.71	18.58	18.26	18.69
	810	19.74	19.47	19.77	19.41	19.74	16.59	18.24	18.33	18.19
GSM 1900	Frame Avg. Targets:	18.80	18.80	18.81	18.77	18.82	15.80	17.81	17.57	17.82

Note:

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

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

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Figure 9-1
Power Measurement Setup

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9.2 UMTS Conducted Powers

Table 9-4
Measured P_{max}

3GPP Release Version	Mode	3GPP 34.121 Subtest	Cellular Band [dBm]			AWS Band [dBm]			PCS Band [dBm]			3GPP MPR [dB]
			4132	4183	4233	1312	1412	1513	9262	9400	9538	
99	WCDMA	12.2 kbps RMC	24.22	24.33	24.38	24.33	24.13	24.22	23.77	23.89	23.92	-
99		12.2 kbps AMR	24.29	24.33	24.34	24.49	24.09	24.17	23.75	23.92	23.86	-
6	HSDPA	Subtest 1	23.76	23.84	23.83	23.87	23.62	23.56	23.27	23.52	23.51	0
6		Subtest 2	23.74	23.85	23.81	23.90	23.64	23.67	23.38	23.55	23.62	0
6		Subtest 3	23.31	23.49	23.39	23.45	23.15	23.22	22.81	22.92	23.11	0.5
6		Subtest 4	23.29	23.43	23.35	23.44	23.13	23.15	22.63	22.70	22.72	0.5
6	HSUPA	Subtest 1	23.77	23.90	23.84	23.92	23.64	23.72	23.43	23.60	23.64	0
6		Subtest 2	21.75	21.90	21.83	21.87	21.59	21.66	21.32	21.58	21.59	2
6		Subtest 3	22.70	22.84	22.80	22.92	22.57	22.69	22.39	22.56	22.58	1
6		Subtest 4	21.78	21.89	21.83	21.93	21.67	21.71	21.37	21.54	21.55	2
6		Subtest 5	23.74	23.90	23.87	23.93	23.70	23.74	23.37	23.50	23.53	0
8	DC-HSDPA	Subtest 1	23.77	23.92	23.88	23.97	23.69	23.79	23.47	23.65	23.69	0
8		Subtest 2	23.87	23.99	23.95	23.98	23.76	23.84	23.48	23.63	23.68	0
8		Subtest 3	23.36	23.50	23.41	23.48	23.22	23.30	23.00	23.18	23.19	0.5
8		Subtest 4	23.39	23.50	23.43	23.50	23.27	23.32	23.02	23.17	23.21	0.5

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

3GPP Release Version	Mode	3GPP 34.121 Subtest	Cellular Band [dBm]			AWS Band [dBm]			PCS Band [dBm]			3GPP MPR [dB]
			4132	4183	4233	1312	1412	1513	9262	9400	9538	
99	WCDMA	12.2 kbps RMC	23.40	23.42	23.37	19.12	19.17	19.30	18.01	18.11	18.14	-
99		12.2 kbps AMR	23.43	23.44	23.30	19.23	19.10	19.17	18.00	18.06	18.12	-
6	HSDPA	Subtest 1	22.40	22.46	22.41	17.87	17.69	17.99	17.01	16.97	17.02	0
6		Subtest 2	22.37	22.47	22.41	17.89	17.69	18.00	16.98	16.95	17.04	0
6		Subtest 3	21.87	21.96	21.94	17.39	17.13	17.45	16.26	16.31	16.26	0.5
6		Subtest 4	21.88	21.95	21.92	17.31	17.13	17.49	16.36	16.47	16.25	0.5
6	HSUPA	Subtest 1	22.12	22.21	22.19	18.72	18.42	18.51	16.98	17.20	17.35	0
6		Subtest 2	19.93	20.03	20.01	16.70	16.40	16.53	14.95	15.21	15.32	2
6		Subtest 3	20.93	21.02	21.01	17.68	17.41	17.51	15.98	16.21	16.35	1
6		Subtest 4	19.97	20.13	20.10	16.71	16.42	16.55	14.98	15.21	15.34	2
6		Subtest 5	21.88	21.99	21.97	18.65	18.37	18.51	16.95	17.15	17.34	0
8	DC-HSDPA	Subtest 1	22.32	22.40	22.29	18.68	18.14	18.48	16.96	17.18	17.38	0
8		Subtest 2	22.36	22.43	22.32	18.63	18.41	18.46	16.93	17.24	17.47	0
8		Subtest 3	21.90	21.98	21.86	18.14	17.90	17.96	16.40	16.72	16.97	0.5
8		Subtest 4	21.90	21.96	21.84	18.14	17.89	17.97	16.43	16.74	16.96	0.5

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Table 9-6
Measured P_{limit} for DSI = 2 (Head)

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	21.91	22.01	22.05	21.23	21.05	21.22	21.38	21.32	21.44	-
99		12.2 kbps AMR	21.94	22.02	21.93	21.21	21.05	21.20	21.45	21.34	21.46	-
6	HSDPA	Subtest 1	21.33	21.43	21.39	20.86	20.69	21.03	21.03	20.98	21.08	0
6		Subtest 2	21.40	21.48	21.45	20.91	20.73	21.07	21.03	20.98	21.04	0
6		Subtest 3	20.88	20.97	20.96	20.38	20.16	20.54	20.57	20.50	20.58	0.5
6		Subtest 4	20.87	20.97	20.97	20.41	20.21	20.57	20.55	20.49	20.56	0.5
6	HSUPA	Subtest 1	21.32	21.40	21.40	20.83	20.63	20.95	20.95	20.93	21.02	0
6		Subtest 2	19.31	19.42	19.40	18.84	18.64	18.97	19.02	18.78	19.04	2
6		Subtest 3	20.24	20.35	20.33	19.79	19.61	19.93	19.99	19.96	20.02	1
6		Subtest 4	19.30	19.40	19.35	18.85	18.69	19.00	19.05	19.04	19.08	2
6		Subtest 5	21.33	21.42	21.41	20.88	20.69	21.02	21.07	21.04	21.05	0
8	DC-HSDPA	Subtest 1	21.78	21.93	21.83	20.25	20.03	20.35	20.38	20.31	20.35	0
8		Subtest 2	21.78	21.93	21.83	20.25	20.00	20.32	20.37	20.30	20.36	0
8		Subtest 3	21.29	21.46	21.33	19.74	19.50	19.87	19.88	19.79	19.86	0.5
8		Subtest 4	21.30	21.45	21.32	19.73	19.56	19.83	19.85	19.80	19.85	0.5

Table 9-7
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	21.33	21.03	21.17	20.32	20.32	20.35	-
99		12.2 kbps AMR	21.29	21.13	21.15	20.34	20.29	20.40	-
6	HSDPA	Subtest 1	20.89	20.63	20.68	20.27	20.43	20.43	0
6		Subtest 2	20.88	20.67	20.69	20.32	20.45	20.46	0
6		Subtest 3	20.38	20.15	20.15	19.83	19.98	19.91	0.5
6		Subtest 4	20.37	20.14	20.18	19.81	19.94	19.94	0.5
6	HSUPA	Subtest 1	20.87	20.56	20.69	20.42	20.62	20.62	0
6		Subtest 2	18.86	18.61	18.66	18.24	18.30	18.31	2
6		Subtest 3	19.89	19.62	19.70	19.39	19.61	19.63	1
6		Subtest 4	18.88	18.61	18.68	18.32	18.46	18.48	2
6		Subtest 5	20.90	20.65	20.68	20.25	20.36	20.37	0
8	DC-HSDPA	Subtest 1	20.18	19.83	19.85	19.50	19.77	19.85	0
8		Subtest 2	20.16	19.82	19.83	19.54	19.74	19.87	0
8		Subtest 3	19.68	19.33	19.36	19.00	19.26	19.36	0.5
8		Subtest 4	19.69	19.32	19.35	18.99	19.26	19.41	0.5

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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

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.

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9.3.1

LTE Band 71

Table 9-8

LTE Band 71 Measured P_{Max} for DSI = 2 (Head) or DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack Active) - 20 MHz Bandwidth

LTE Band 71 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			133297 (680.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	24.23	0	0
	1	50	24.24		0
	1	99	24.20		0
	50	0	23.07	0-1	1
	50	25	23.18		1
	50	50	23.11		1
	100	0	23.06		1
16QAM	1	0	23.63	0-1	1
	1	50	23.58		1
	1	99	23.54		1
	50	0	22.11	0-2	2
	50	25	22.14		2
	50	50	22.15		2
	100	0	22.06		2
64QAM	1	0	22.42	0-2	2
	1	50	22.48		2
	1	99	22.51		2
	50	0	21.17	0-3	3
	50	25	21.13		3
	50	50	21.20		3
	100	0	21.08		3
256QAM	1	0	18.96	0-5	5
	1	50	19.21		5
	1	99	19.19		5
	50	0	18.91		5
	50	25	19.06		5
	50	50	19.13		5
	100	0	19.04		5

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Table 9-9
LTE Band 71 Measured P_{Limit} for DSI = 3 (Hotspot Mode) - 20 MHz Bandwidth

LTE Band 71 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			133297 (680.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	23.48	0	0
	1	50	23.45		0
	1	99	23.42		0
	50	0	23.39	0-1	0
	50	25	23.46		0
	50	50	23.36		0
	100	0	23.35		0
16QAM	1	0	23.75	0-1	0
	1	50	23.72		0
	1	99	23.70		0
	50	0	22.41	0-2	1
	50	25	22.43		1
	50	50	22.39		1
	100	0	22.36		1
64QAM	1	0	22.55	0-2	1
	1	50	22.73		1
	1	99	22.59		1
	50	0	21.38	0-3	2
	50	25	21.41		2
	50	50	21.37		2
	100	0	21.34		2
256QAM	1	0	19.35	0-5	4
	1	50	19.49		4
	1	99	19.35		4
	50	0	19.22		4
	50	25	19.37		4
	50	50	19.37		4
	100	0	19.32		4

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9.3.2

LTE Band 12

Table 9-10

LTE Band 12 Measured P_{Max} for DSI = 2 (Head) or DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack Active) - 10 MHz Bandwidth

LTE Band 12 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23095 (707.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	24.39	0	0
	1	25	24.33		0
	1	49	24.29		0
	25	0	23.25	0-1	1
	25	12	23.17		1
	25	25	23.23		1
	50	0	23.08		1
16QAM	1	0	23.61	0-1	1
	1	25	23.67		1
	1	49	23.62		1
	25	0	22.15	0-2	2
	25	12	22.27		2
	25	25	22.28		2
	50	0	22.23		2
64QAM	1	0	22.34	0-2	2
	1	25	22.37		2
	1	49	22.25		2
	25	0	21.03	0-3	3
	25	12	21.10		3
	25	25	21.05		3
	50	0	21.11		3
256QAM	1	0	18.89	0-5	5
	1	25	19.34		5
	1	49	19.10		5
	25	0	19.11		5
	25	12	19.19		5
	25	25	19.17		5
	50	0	19.03		5

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Table 9-11
LTE Band 12 Measured P_{Limit} for DSI = 3 (Hotspot Mode) - 10 MHz Bandwidth

LTE Band 12 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23095 (707.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	23.49	0	0
	1	25	23.55		0
	1	49	23.56		0
	25	0	23.42	0-1	0
	25	12	23.54		0
	25	25	23.49		0
	50	0	23.44		0
16QAM	1	0	23.83	0-1	0
	1	25	23.88		0
	1	49	23.76		0
	25	0	22.46	0-2	1
	25	12	22.55		1
	25	25	22.54		1
	50	0	22.48		1
64QAM	1	0	22.51	0-2	1
	1	25	22.60		1
	1	49	22.51		1
	25	0	21.22	0-3	2
	25	12	21.39		2
	25	25	21.36		2
	50	0	21.29		2
256QAM	1	0	19.19	0-5	4
	1	25	19.61		4
	1	49	19.26		4
	25	0	19.27		4
	25	12	19.35		4
	25	25	19.35		4
	50	0	19.33		4

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9.3.3

LTE Band 13

Table 9-12

LTE Band 13 Measured P_{Max} for DSI = 2 (Head) or DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack Active) - 10 MHz Bandwidth

LTE Band 13 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23230 (782.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	24.46	0	0
	1	25	24.41		0
	1	49	24.40		0
	25	0	23.56	0-1	1
	25	12	23.53		1
	25	25	23.46		1
	50	0	23.44		1
16QAM	1	0	23.76	0-1	1
	1	25	23.81		1
	1	49	23.57		1
	25	0	22.52	0-2	2
	25	12	22.56		2
	25	25	22.53		2
	50	0	22.59		2
64QAM	1	0	22.75	0-2	2
	1	25	22.72		2
	1	49	22.79		2
	25	0	21.59	0-3	3
	25	12	21.67		3
	25	25	21.56		3
	50	0	21.60		3
256QAM	1	0	19.44	0-5	5
	1	25	19.54		5
	1	49	19.37		5
	25	0	19.41		5
	25	12	19.55		5
	25	25	19.52		5
	50	0	19.50		5

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Table 9-13
LTE Band 13 Measured P_{Limit} for DSI = 3 (Hotspot Mode) - 10 MHz Bandwidth

LTE Band 13 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23230 (782.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	23.30	0	0
	1	25	23.31		0
	1	49	23.30		0
	25	0	23.32	0-1	0
	25	12	23.37		0
	25	25	23.35		0
	50	0	23.27		0
16QAM	1	0	23.53	0-1	0
	1	25	23.55		0
	1	49	23.44		0
	25	0	22.34	0-2	1
	25	12	22.34		1
	25	25	22.40		1
	50	0	22.27		1
64QAM	1	0	22.55	0-2	1
	1	25	22.47		1
	1	49	22.31		1
	25	0	21.21	0-3	2
	25	12	21.14		2
	25	25	21.15		2
	50	0	21.05		2
256QAM	1	0	19.05	0-5	4
	1	25	19.51		4
	1	49	19.18		4
	25	0	19.20		4
	25	12	19.29		4
	25	25	19.23		4
	50	0	19.24		4

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9.3.4

LTE Band 14

Table 9-14

LTE Band 14 Measured P_{Max} for DSI = 2 (Head) or DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack Active) - 10 MHz Bandwidth

LTE Band 14 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23330 (793.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	23.71	0	0
	1	25	23.61		0
	1	49	23.57		0
	25	0	22.61	0-1	1
	25	12	22.66		1
	25	25	22.40		1
	50	0	22.55		1
16QAM	1	0	22.77	0-1	1
	1	25	22.79		1
	1	49	22.55		1
	25	0	21.55	0-2	2
	25	12	21.53		2
	25	25	21.63		2
	50	0	21.54		2
64QAM	1	0	21.64	0-2	2
	1	25	21.67		2
	1	49	21.53		2
	25	0	20.64	0-3	3
	25	12	20.46		3
	25	25	20.50		3
	50	0	20.55		3
256QAM	1	0	18.68	0-5	5
	1	25	18.86		5
	1	49	18.56		5
	25	0	18.62		5
	25	12	18.62		5
	25	25	18.58		5
	50	0	18.50		5

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Table 9-15
LTE Band 14 Measured P_{Limit} for DSI = 3 (Hotspot Mode) - 10 MHz Bandwidth

LTE Band 14 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23330 (793.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	23.30	0	0
	1	25	23.18		0
	1	49	23.12		0
	25	0	22.93	0-1	0.5
	25	12	22.67		0.5
	25	25	22.48		0.5
	50	0	22.60		0.5
16QAM	1	0	23.05	0-1	0.5
	1	25	22.89		0.5
	1	49	22.65		0.5
	25	0	21.73	0-2	1.5
	25	12	21.71		1.5
	25	25	21.50		1.5
	50	0	21.58		1.5
64QAM	1	0	21.93	0-2	1.5
	1	25	21.76		1.5
	1	49	21.65		1.5
	25	0	20.62	0-3	2.5
	25	12	20.56		2.5
	25	25	20.34		2.5
	50	0	20.49		2.5
256QAM	1	0	18.51	0-5	4.5
	1	25	18.74		4.5
	1	49	18.23		4.5
	25	0	18.61		4.5
	25	12	18.60		4.5
	25	25	18.41		4.5
	50	0	18.47		4.5

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9.3.5

LTE Band 26

Table 9-16

LTE Band 26 (Cell) Measured P_{Max} for DSI = 2 (Head) or DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack Active) - 15 MHz Bandwidth

LTE Band 26 (Cell) 15 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26865 (831.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	23.87	0	0
	1	36	24.13		0
	1	74	24.08		0
	36	0	22.87	0-1	1
	36	18	23.09		1
	36	37	22.99		1
	75	0	22.98		1
16QAM	1	0	23.17	0-1	1
	1	36	23.38		1
	1	74	23.47		1
	36	0	21.91	0-2	2
	36	18	22.08		2
	36	37	22.12		2
	75	0	22.03		2
64QAM	1	0	22.24	0-2	2
	1	36	22.33		2
	1	74	22.28		2
	36	0	20.91	0-3	3
	36	18	21.14		3
	36	37	21.20		3
	75	0	21.02		3
256QAM	1	0	18.90	0-5	5
	1	36	19.15		5
	1	74	19.22		5
	36	0	18.91		5
	36	18	19.07		5
	36	37	19.12		5
	75	0	19.13		5

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Table 9-17
LTE Band 26 (Cell) Measured P_{Limit} for DSI = 3 (Hotspot Mode) - 15 MHz Bandwidth

LTE Band 26 (Cell) 15 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26865 (831.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	23.20	0	0
	1	36	23.34		0
	1	74	23.28		0
	36	0	23.04	0-1	0
	36	18	23.22		0
	36	37	23.24		0
	75	0	23.11		0
16QAM	1	0	23.40	0-1	0
	1	36	23.54		0
	1	74	23.52		0
	36	0	22.08	0-2	1
	36	18	22.23		1
	36	37	22.24		1
	75	0	22.15		1
64QAM	1	0	22.36	0-2	1
	1	36	22.45		1
	1	74	22.41		1
	36	0	21.06	0-3	2
	36	18	21.22		2
	36	37	21.24		2
	75	0	21.15		2
256QAM	1	0	18.97	0-5	4
	1	36	19.37		4
	1	74	19.29		4
	36	0	19.06		4
	36	18	19.22		4
	36	37	19.25		4
	75	0	19.15		4

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9.3.6

LTE Band 5

Table 9-18

LTE Band 5 (Cell) Measured P_{Max} for DSI = 2 (Head) or DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack Active) - 10 MHz Bandwidth

LTE Band 5 (Cell) 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20525 (836.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	24.02	0	0
	1	25	23.97		0
	1	49	23.91		0
	25	0	22.91	0-1	1
	25	12	22.89		1
	25	25	22.90		1
	50	0	22.81		1
16QAM	1	0	23.18	0-1	1
	1	25	23.24		1
	1	49	23.17		1
	25	0	21.92	0-2	2
	25	12	21.94		2
	25	25	21.95		2
	50	0	21.84		2
64QAM	1	0	22.08	0-2	2
	1	25	22.14		2
	1	49	22.04		2
	25	0	20.92	0-3	3
	25	12	20.93		3
	25	25	20.94		3
	50	0	20.80		3
256QAM	1	0	18.79	0-5	5
	1	25	19.16		5
	1	49	18.80		5
	25	0	18.88		5
	25	12	18.94		5
	25	25	18.92		5
	50	0	18.86		5

Table 9-19

LTE Band 5 (Cell) Uplink Carrier Aggregation Measured P_{Max} for DSI = 2 (Head) or DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack Active) - 10 MHz Bandwidth

Combination	PCC Band	PCC Bandwidth [MHz]	PCC UL Channel	PCC				Modulation	PCC UL RB		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	Power	
				PCC UL Frequency [MHz]	PCC DL Channel	PCC DL Frequency [MHz]			PCC UL RB	PCC UL RB Offset										LTE Tx Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_5B	LTE B5	10	20525	836.5	2525	881.5		QPSK	1	0	LTE B5	5	20453	829.3	2453	874.3	QPSK	1	24	24.08	24.02

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Table 9-20
LTE Band 5 (Cell) Measured P_{Limit} for DSI = 3 (Hotspot Mode) - 10 MHz Bandwidth

LTE Band 5 (Cell) 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20525 (836.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	22.69	0	0
	1	25	22.72		0
	1	49	22.65		0
	25	0	22.72	0-1	0
	25	12	22.73		0
	25	25	22.75		0
	50	0	22.67		0
16QAM	1	0	22.90	0-1	0
	1	25	22.96		0
	1	49	22.92		0
	25	0	21.73	0-2	1
	25	12	21.75		1
	25	25	21.74		1
	50	0	21.64		1
64QAM	1	0	21.90	0-2	1
	1	25	21.95		1
	1	49	21.93		1
	25	0	20.73	0-3	2
	25	12	20.75		2
	25	25	20.76		2
	50	0	20.67		2
256QAM	1	0	18.55	0-5	4
	1	25	18.94		4
	1	49	18.58		4
	25	0	18.69		4
	25	12	18.79		4
	25	25	18.75		4
	50	0	18.68		4

Table 9-21
LTE Band 5 (Cell) Uplink Carrier Aggregation Measured P_{Limit} for DSI = 3 (Hotspot Mode) - 10 MHz Bandwidth

	PCC									SCC									Power	
Combination	PCC Band	PCC Bandwidth [MHz]	PCC UL Channel	PCC UL Frequency [MHz]	PCC DL Channel	PCC DL Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC UL Channel	SCC UL Frequency [MHz]	SCC DL Channel	SCC DL Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_5B	LTE_B5	10	20525	836.5	2525	881.5	QPSK	1	0	LTE_B5	5	20453	829.3	2453	874.3	QPSK	1	24	22.45	22.69

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9.3.7

LTE Band 66

Table 9-22

LTE Band 66 (AWS) Measured P_{Max} for DSI = 2 (Head) or DSI = 0 (Body-worn, or Phablet with grip sensor inactive) - 20 MHz Bandwidth

LTE Band 66 (AWS) 20 MHz Bandwidth						
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	Designed MPR [dB]
			132072 (1720.0 MHz)	132322 (1745.0 MHz)	132572 (1770.0 MHz)	
			Conducted Power [dBm]			
QPSK	1	0	23.62	23.50	23.81	0
	1	50	23.69	23.58	23.97	0
	1	99	23.52	23.39	24.02	0
	50	0	21.58	21.45	21.71	2
	50	25	21.65	21.54	21.89	2
	50	50	21.54	21.41	21.93	2
	100	0	21.56	21.45	21.80	2
16QAM	1	0	22.80	22.79	23.44	1
	1	50	23.47	23.01	23.41	1
	1	99	22.90	23.07	23.39	1
	50	0	21.61	21.50	21.75	2
	50	25	21.70	21.60	21.88	2
	50	50	21.53	21.51	21.91	2
	100	0	21.61	21.48	21.77	2
64QAM	1	0	21.57	21.44	22.00	2
	1	50	21.79	21.76	22.03	2
	1	99	21.55	21.54	22.31	2
	50	0	20.55	20.51	20.76	3
	50	25	20.65	20.58	20.89	3
	50	50	20.56	20.45	20.94	3
	100	0	20.60	20.46	20.78	3
256QAM	1	0	18.59	18.43	18.74	5
	1	50	18.93	18.73	19.21	5
	1	99	18.51	18.42	19.09	5
	50	0	18.54	18.47	18.75	5
	50	25	18.55	18.52	18.89	5
	50	50	18.58	18.48	18.87	5
	100	0	18.54	18.48	18.79	5

Table 9-23

LTE Band 66 (AWS) Uplink Carrier Aggregation Measured P_{Max} for DSI = 2 (Head) or DSI = 0 (Body-worn, or Phablet with grip sensor inactive) - 20 MHz Bandwidth

		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)		
SCC higher	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	23.85	23.52		
SCC lower	CA_66C	LTE B66	20	132572	1770.0	67036	2170.0	QPSK	1	0	LTE B66	20	132374	1750.2	66838	2150.2	QPSK	1	99	24.00	23.81		

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Table 9-24

LTE Band 66 (AWS) Measured P_{Max} for DSI = 2 (Head) or DSI = 0 (Body-worn, or Phablet with grip sensor inactive) - 10 MHz Bandwidth

LTE Band 66 (AWS) 10 MHz Bandwidth						
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	Designed MPR [dB]
			132022 (1715.0 MHz)	132322 (1745.0 MHz)	132622 (1775.0 MHz)	
			Conducted Power [dBm]			
QPSK	1	0	23.61	23.51	23.86	0
	1	25	24.01	23.89	24.39	0
	1	49	23.68	23.77	24.24	0
	25	0	22.01	21.93	22.19	2
	25	12	22.00	22.03	22.25	2
	25	25	22.03	21.87	22.27	2
	50	0	22.03	21.94	22.25	2
16QAM	1	0	22.75	22.64	22.98	1
	1	25	23.09	22.94	23.37	1
	1	49	22.70	22.72	23.20	1
	25	0	21.72	21.61	21.97	2
	25	12	21.75	21.73	22.18	2
	25	25	21.63	21.61	22.10	2
	50	0	21.67	21.62	22.07	2
64QAM	1	0	21.54	21.53	21.89	2
	1	25	21.83	21.87	22.32	2
	1	49	21.53	21.65	22.10	2
	25	0	20.70	20.60	20.95	3
	25	12	20.70	20.70	21.10	3
	25	25	20.57	20.61	21.05	3
	50	0	20.60	20.60	21.05	3
256QAM	1	0	18.59	18.43	18.75	5
	1	25	18.89	18.74	19.25	5
	1	49	18.46	18.54	19.06	5
	25	0	18.69	18.62	18.91	5
	25	12	18.70	18.72	19.14	5
	25	25	18.62	18.61	19.04	5
	50	0	18.60	18.61	19.02	5

Table 9-25

LTE Band 66 (AWS) Uplink Carrier Aggregation Measured P_{Max} for DSI = 2 (Head) or DSI = 0 (Body-worn, or Phablet with grip sensor inactive) - 10 MHz Bandwidth

		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)
SCC higher	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	23.91	23.68
SCC lower	CA_66B	LTE B66	10	132622	1775.0	67086	2175.0	QPSK	1	0	LTE B66	10	132523	1765.1	66987	2165.1	QPSK	1	49	24.05	23.86

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Table 9-26
LTE Band 66 (AWS) Measured P_{Limit} for DSI = 3 (Hotspot Mode) - 20 MHz Bandwidth

LTE Band 66 (AWS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			132072 (1720.0 MHz)	132322 (1745.0 MHz)	132572 (1770.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	18.69	18.71	19.10	0	0
	1	50	19.07	19.07	19.19		0
	1	99	18.85	18.82	19.06		0
	50	0	18.90	19.11	19.20	0-1	0
	50	25	19.07	19.19	19.28		0
	50	50	19.01	19.09	19.08		0
100	0	19.00	19.12	19.18	0		
16QAM	1	0	19.02	19.22	19.45	0-1	0
	1	50	19.46	19.40	19.40		0
	1	99	19.29	19.32	19.30		0
	50	0	18.90	19.11	19.22	0-2	0
	50	25	19.09	19.22	19.28		0
	50	50	19.04	19.13	19.08		0
100	0	19.00	19.12	19.19	0		
64QAM	1	0	18.84	19.17	19.46	0-2	0
	1	50	19.21	19.50	19.41		0
	1	99	18.95	19.26	19.36		0
	50	0	18.90	19.12	19.21	0-3	0
	50	25	19.08	19.24	19.29		0
	50	50	19.02	19.12	19.11		0
100	0	19.00	19.14	19.17	0		
256QAM	1	0	18.83	19.09	19.13	0-5	0
	1	50	19.16	19.49	19.46		0
	1	99	19.01	19.06	19.13		0
	50	0	18.89	19.12	19.24		0
	50	25	19.08	19.21	19.28		0
	50	50	19.00	19.12	19.11		0
100	0	18.96	19.00	19.09	0		

Table 9-27
LTE Band 66 (AWS) Uplink Carrier Aggregation Measured P_{Limit} for DSI = 3 (Hotspot Mode) - 20 MHz Bandwidth

	PCC										SCC								Power	
Combination	PCC Band	PCC Bandwidth [MHz]	PCC (UL) Channel	PCC (UL) Frequency [MHz]	PCC DL Channel	PCC DL Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL) Channel	SCC (UL) Frequency [MHz]	SCC (DL) Channel	SCC (DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_66C	LTE B66	20	132322	1745.0	66786	2145.0	QPSK	1	99	LTE B66	20	132520	1764.8	66984	2164.8	QPSK	1	0	19.01	18.82

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Table 9-28
LTE Band 66 (AWS) Measured P_{Limit} for DSI = 3 (Hotspot Mode) - 10 MHz Bandwidth

LTE Band 66 (AWS) 10 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			132022 (1715.0 MHz)	132322 (1745.0 MHz)	132622 (1775.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	18.86	19.04	19.05	0	0
	1	25	19.17	19.37	19.32		0
	1	49	18.96	19.04	19.08		0
	25	0	19.09	19.27	19.32	0-1	0
	25	12	19.18	19.33	19.43		0
	25	25	19.08	19.23	19.32		0
16QAM	50	0	19.09	19.24	19.32	0-1	0
	1	0	19.10	19.25	19.40		0
	1	25	19.40	19.49	19.46		0
	1	49	19.18	19.27	19.40	0-2	0
	25	0	19.12	19.31	19.36		0
	25	12	19.20	19.38	19.45		0
64QAM	25	25	19.11	19.26	19.33	0-2	0
	50	0	19.09	19.28	19.34		0
	1	0	18.97	19.24	19.30		0-2
	1	25	19.38	19.45	19.41	0	
	1	49	19.09	19.32	19.18	0-3	
	25	0	19.16	19.28	19.34		0
25	12	19.24	19.36	19.41	0		
256QAM	25	25	19.11	19.24	19.32	0-5	0
	50	0	19.13	19.24	19.34		0
	1	0	18.93	19.12	19.27		0
	1	25	19.33	19.39	19.42		0
	1	49	19.04	19.00	19.18		0
	25	0	19.13	19.26	19.33		0
	25	12	19.22	19.36	19.41		0
	25	25	19.10	19.24	19.30		0
50	0	19.12	19.23	19.33	0		

Table 9-29
LTE Band 66 (AWS) Uplink Carrier Aggregation Measured P_{Limit} for DSI = 3 (Hotspot Mode) - 10 MHz Bandwidth

	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_66B	LTE B66	10	132322	1745.0	66786	2145.0	QPSK	1	49	LTE B66	10	132421	1754.9	66885	2154.9	QPSK	1	0	19.06	19.04	

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Table 9-30

LTE Band 66 (AWS) 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	20.80	21.03	21.13	0	0
	1	50	21.14	21.15	21.14		0
	1	99	20.94	21.13	21.10		0
	50	0	21.07	21.25	21.15	0-1	0
	50	25	21.23	21.30	21.25		0
	50	50	21.13	21.17	21.19		0
	100	0	21.11	21.12	21.14		0
16QAM	1	0	21.13	21.10	21.50	0-1	0
	1	50	21.42	21.40	21.50		0
	1	99	21.31	21.20	21.50		0
	50	0	21.07	20.91	21.20	0-2	0
	50	25	21.25	21.05	21.39		0
	50	50	21.21	20.94	21.22		0
	100	0	21.19	20.96	21.28		0
64QAM	1	0	20.97	21.05	21.48	0-2	0
	1	50	21.46	21.47	21.43		0
	1	99	21.10	21.20	21.47		0
	50	0	21.04	21.16	21.30	0-3	0
	50	25	21.22	21.25	21.34		0
	50	50	21.16	21.18	21.17		0
	100	0	21.11	21.16	21.26		0
256QAM	1	0	18.91	19.15	19.13	0-5	2
	1	50	19.37	19.43	19.40		2
	1	99	19.08	19.16	19.18		2
	50	0	19.03	19.14	19.22		2
	50	25	19.20	19.27	19.33		2
	50	50	19.12	19.17	19.21		2
	100	0	19.14	19.19	19.28		2

Table 9-31

LTE Band 66 (AWS) Uplink Carrier Aggregation Measured P_{limit} for DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack active) - 20 MHz Bandwidth

	PCC									SCC								Power		
Combination	PCC Band	PCC Bandwidth [MHz]	PCC (UL) Channel	PCC (UL) Frequency [MHz]	PCC DL Channel	PCC DL Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL) Channel	SCC (UL) Frequency [MHz]	SCC (DL) Channel	SCC (DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dbm)
CA_66C	LTE B66	20	132572	1770.0	67036	2170.0	QPSK	1	0	LTE B66	20	132374	1750.2	66838	2150.2	QPSK	1	99	21.05	21.13

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Table 9-32

LTE Band 66 (AWS) 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	20.51	20.58	20.73	0	0
	1	25	20.85	20.97	21.00		0
	1	49	20.73	21.01	20.68		0
	25	0	20.70	20.90	20.93	0-1	0
	25	12	20.87	20.98	21.05		0
	25	25	20.86	20.92	20.98		0
	50	0	20.78	20.79	20.80		0
16QAM	1	0	21.09	21.20	21.34	0-1	0
	1	25	21.46	21.44	21.40		0
	1	49	21.24	21.23	21.43		0
	25	0	21.12	21.28	21.29	0-2	0
	25	12	21.21	21.34	21.38		0
	25	25	21.14	21.22	21.30		0
	50	0	21.10	21.22	21.28		0
64QAM	1	0	21.06	21.27	21.13	0-2	0
	1	25	21.44	21.50	21.50		0
	1	49	21.24	21.30	21.24		0
	25	0	21.12	21.22	21.28	0-3	0
	25	12	21.22	21.30	21.40		0
	25	25	21.14	21.22	21.25		0
	50	0	21.14	21.22	21.30		0
256QAM	1	0	18.86	19.10	19.15	0-5	2
	1	25	19.25	19.20	19.37		2
	1	49	19.06	19.24	19.07		2
	25	0	19.10	19.21	19.24		2
	25	12	19.22	19.31	19.35		2
	25	25	19.12	19.19	19.25		2
	50	0	19.13	19.20	19.28		2

Table 9-33

LTE Band 66 (AWS) Uplink Carrier Aggregation Measured P_{limit} for DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack active) - 10 MHz Bandwidth

	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_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	21.04	20.73

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9.3.8

LTE Band 25

Table 9-34

LTE Band 25 (PCS) Measured P_{Max} for DSI = 2 (Head) or DSI = 0 (Body-worn, or Phablet with grip sensor inactive) - 20 MHz Bandwidth

LTE Band 25 (PCS) 20 MHz Bandwidth						
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	Designed MPR [dB]
			26140 (1860.0 MHz)	26365 (1882.5 MHz)	26590 (1905.0 MHz)	
			Conducted Power [dBm]			
QPSK	1	0	23.90	24.05	23.85	0
	1	50	24.20	23.87	24.02	0
	1	99	24.15	24.06	24.16	0
	50	0	21.86	21.87	21.92	2
	50	25	22.12	22.11	21.96	2
	50	50	21.82	21.83	22.10	2
	100	0	21.79	21.72	21.96	2
16QAM	1	0	23.40	23.25	23.46	1
	1	50	23.33	23.44	23.48	1
	1	99	23.09	23.34	23.50	1
	50	0	21.90	21.81	21.94	2
	50	25	21.97	21.82	21.99	2
	50	50	21.83	21.85	22.13	2
	100	0	21.83	21.77	21.93	2
64QAM	1	0	22.15	21.89	22.22	2
	1	50	22.13	22.13	22.23	2
	1	99	22.10	22.14	22.44	2
	50	0	20.84	20.78	20.89	3
	50	25	20.90	20.82	20.95	3
	50	50	20.83	20.79	21.12	3
	100	0	20.76	20.71	20.95	3
256QAM	1	0	18.80	18.48	18.69	5
	1	50	19.10	19.03	19.25	5
	1	99	18.74	18.82	19.33	5
	50	0	18.74	18.65	18.81	5
	50	25	18.91	18.80	18.99	5
	50	50	18.74	18.78	18.99	5
	100	0	18.76	18.67	18.94	5

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Table 9-35
LTE Band 25 (PCS) Measured P_{Limit} for DSI = 3 (Hotspot Mode) - 20 MHz Bandwidth

LTE Band 25 (PCS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26140 (1860.0 MHz)	26365 (1882.5 MHz)	26590 (1905.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	17.54	18.01	18.24	0	0
	1	50	17.70	18.15	18.42		0
	1	99	17.72	18.16	18.23		0
	50	0	17.78	18.03	18.16	0-1	0
	50	25	17.94	18.10	18.23		0
	50	50	18.00	18.09	18.22		0
	100	0	17.80	17.93	18.10		0
16QAM	1	0	17.97	18.15	18.48	0-1	0
	1	50	18.31	18.39	18.64		0
	1	99	18.24	18.30	18.63		0
	50	0	17.81	18.04	18.19	0-2	0
	50	25	17.89	18.07	18.22		0
	50	50	17.93	18.07	18.25		0
	100	0	17.79	17.94	18.13		0
64QAM	1	0	17.93	18.24	18.30	0-2	0
	1	50	18.04	18.38	18.45		0
	1	99	18.02	18.28	18.43		0
	50	0	17.78	18.02	18.19	0-3	0
	50	25	17.86	18.06	18.20		0
	50	50	17.91	18.07	18.22		0
	100	0	17.80	17.94	18.09		0
256QAM	1	0	17.52	17.63	17.89	0-5	0
	1	50	18.05	18.34	18.42		0
	1	99	17.81	18.00	17.97		0
	50	0	17.63	17.88	18.01		0
	50	25	17.90	18.05	18.19		0
	50	50	17.87	17.99	18.17		0
	100	0	17.78	17.96	18.12		0

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Table 9-36
LTE Band 25 (PCS) 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	26365	26590		
			(1860.0 MHz)	(1882.5 MHz)	(1905.0 MHz)		
Conducted Power [dBm]							
QPSK	1	0	21.65	21.88	21.81	0	0
	1	50	21.57	21.83	21.88		0
	1	99	21.84	21.84	21.95		0
	50	0	21.52	21.75	21.80	0-1	0
	50	25	21.62	21.76	21.83		0
	50	50	21.63	21.74	21.82		0
	100	0	21.54	21.68	21.76		0
16QAM	1	0	21.72	21.92	21.93	0-1	0
	1	50	21.90	22.00	21.99		0
	1	99	21.95	21.91	21.97		0
	50	0	21.50	21.71	21.78	0-2	0
	50	25	21.72	21.74	21.80		0
	50	50	21.70	21.79	21.84		0
	100	0	21.58	21.65	21.70		0
64QAM	1	0	21.69	21.94	22.00	0-2	0
	1	50	21.88	22.00	21.96		0
	1	99	21.86	21.94	21.91		0
	50	0	21.04	21.24	21.32	0-3	0.5
	50	25	21.14	21.30	21.36		0.5
	50	50	21.22	21.25	21.31		0.5
	100	0	21.06	21.16	21.32		0.5
256QAM	1	0	18.67	19.10	18.90	0-5	2.5
	1	50	19.33	19.45	19.32		2.5
	1	99	18.91	19.19	19.07		2.5
	50	0	18.87	19.06	19.11		2.5
	50	25	19.13	19.22	19.26		2.5
	50	50	19.11	19.26	19.27		2.5
	100	0	19.05	19.13	19.29		2.5

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9.3.9

LTE Band 30

Table 9-37

LTE Band 30 Measured P_{Max} for DSI = 2 (Head) or DSI = 0 (Body-worn, or Phablet with grip sensor inactive) - 10 MHz Bandwidth

LTE Band 30 10 MHz Bandwidth				
Modulation	RB Size	RB Offset	Mid Channel	Designed MPR [dB]
			27710 (2310.0 MHz)	
			Conducted Power [dBm]	
QPSK	1	0	21.97	0
	1	25	22.00	0
	1	49	22.03	0
	25	0	20.33	2
	25	12	20.26	2
	25	25	20.32	2
	50	0	20.26	2
16QAM	1	0	21.17	1
	1	25	21.13	1
	1	49	21.21	1
	25	0	19.84	2
	25	12	19.82	2
	25	25	19.84	2
	50	0	19.86	2
64QAM	1	0	20.23	2
	1	25	20.26	2
	1	49	20.23	2
	25	0	19.10	3
	25	12	19.15	3
	25	25	19.05	3
	50	0	18.87	3
256QAM	1	0	16.95	5
	1	25	17.25	5
	1	49	16.90	5
	25	0	17.01	5
	25	12	17.02	5
	25	25	17.11	5
	50	0	17.00	5

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Table 9-38
LTE Band 30 Measured P_{Limit} for DSI = 3 (Hotspot Mode) - 10 MHz Bandwidth

LTE Band 30 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			27710 (2310.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	17.15	0	0
	1	25	17.25		0
	1	49	17.26		0
	25	0	17.11	0-1	0
	25	12	17.27		0
	25	25	17.25		0
	50	0	17.14		0
16QAM	1	0	17.46	0-1	0
	1	25	17.53		0
	1	49	17.51		0
	25	0	17.14	0-2	0
	25	12	17.25		0
	25	25	17.08		0
	50	0	17.16		0
64QAM	1	0	17.30	0-2	0
	1	25	17.37		0
	1	49	17.36		0
	25	0	17.17	0-3	0
	25	12	17.30		0
	25	25	17.11		0
	50	0	17.17		0
256QAM	1	0	17.10	0-5	0
	1	25	17.46		0
	1	49	16.98		0
	25	0	17.18		0
	25	12	17.27		0
	25	25	17.12		0
	50	0	17.22		0

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Table 9-39
LTE Band 30 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	21.11	0	0
	1	25	21.13		0
	1	49	21.14		0
	25	0	20.31	0-1	1
	25	12	20.33		1
	25	25	20.30		1
	50	0	20.31		1
16QAM	1	0	21.25	0-1	0
	1	25	21.27		0
	1	49	21.28		0
	25	0	20.04	0-2	1
	25	12	20.08		1
	25	25	20.07		1
	50	0	20.08		1
64QAM	1	0	20.25	0-2	1
	1	25	20.29		1
	1	49	20.19		1
	25	0	19.07	0-3	2
	25	12	19.08		2
	25	25	19.11		2
	50	0	19.04		2
256QAM	1	0	16.83	0-5	4
	1	25	17.01		4
	1	49	17.06		4
	25	0	17.09		4
	25	12	17.10		4
	25	25	17.00		4
	50	0	17.00		4

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9.3.10

LTE Band 7

Table 9-40

LTE Band 7 Measured P_{Max} for DSI = 2 (Head) or DSI = 0 (Body-worn, or Phablet with grip sensor inactive)
- 20 MHz Bandwidth

LTE Band 7 20 MHz Bandwidth						
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	Designed MPR [dB]
			20850 (2510.0 MHz)	21100 (2535.0 MHz)	21350 (2560.0 MHz)	
			Conducted Power [dBm]			
QPSK	1	0	23.60	23.55	23.21	0
	1	50	23.57	23.34	23.18	0
	1	99	23.55	23.30	23.50	0
	50	0	21.70	21.33	21.13	2
	50	25	21.58	21.27	21.18	2
	50	50	21.51	21.19	21.13	2
	100	0	21.53	21.19	21.10	2
16QAM	1	0	23.25	22.77	22.78	1
	1	50	23.25	22.96	22.82	1
	1	99	23.07	22.78	22.82	1
	50	0	21.73	21.39	21.14	2
	50	25	21.66	21.28	21.17	2
	50	50	21.57	21.23	21.21	2
	100	0	21.52	21.19	21.12	2
64QAM	1	0	22.15	21.63	21.30	2
	1	50	22.02	21.61	21.35	2
	1	99	22.09	21.45	21.45	2
	50	0	20.70	20.36	20.12	3
	50	25	20.63	20.27	20.18	3
	50	50	20.59	20.20	20.14	3
	100	0	20.54	20.15	20.10	3
256QAM	1	0	18.58	18.28	18.10	5
	1	50	19.14	18.68	18.58	5
	1	99	18.58	18.29	18.00	5
	50	0	18.56	18.26	18.02	5
	50	25	18.53	18.27	18.17	5
	50	50	18.48	18.18	18.04	5
	100	0	18.49	18.10	18.06	5

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Table 9-41
LTE Band 7 Measured P_{Limit} for DSI = 3 (Hotspot Mode) - 20 MHz Bandwidth

LTE Band 7 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20850 (2510.0 MHz)	21100 (2535.0 MHz)	21350 (2560.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	17.51	17.79	18.11	0	0
	1	50	17.73	17.92	18.25		0
	1	99	17.77	17.93	18.33		0
	50	0	17.54	17.79	18.11	0-1	0
	50	25	17.62	17.87	18.14		0
	50	50	17.70	17.91	18.20		0
	100	0	17.55	17.79	18.05		0
16QAM	1	0	17.85	18.10	18.26	0-1	0
	1	50	18.04	18.31	18.35		0
	1	99	18.10	18.27	18.37		0
	50	0	17.52	17.79	18.07	0-2	0
	50	25	17.69	17.88	18.12		0
	50	50	17.73	17.94	18.24		0
	100	0	17.56	17.78	18.03		0
64QAM	1	0	17.69	18.01	18.36	0-2	0
	1	50	17.93	18.06	18.38		0
	1	99	17.88	18.12	18.42		0
	50	0	17.52	17.77	18.12	0-3	0
	50	25	17.66	17.89	18.10		0
	50	50	17.76	17.96	18.24		0
	100	0	17.59	17.78	18.08		0
256QAM	1	0	17.20	17.61	18.01	0-5	0
	1	50	17.84	18.09	18.27		0
	1	99	17.69	17.87	18.07		0
	50	0	17.41	17.67	18.03		0
	50	25	17.68	17.88	18.12		0
	50	50	17.67	17.83	18.08		0
	100	0	17.56	17.78	18.02		0

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Table 9-42
LTE Band 7 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	20.66	20.88	21.22	0	0
	1	50	20.83	20.76	21.11		0
	1	99	20.94	20.77	21.31		0
	50	0	20.63	20.78	21.00	0-1	0
	50	25	20.74	20.81	21.01		0
	50	50	20.78	20.84	21.17		0
	100	0	20.72	20.80	20.82		0
16QAM	1	0	20.62	20.88	21.33	0-1	0
	1	50	20.90	21.11	21.16		0
	1	99	20.95	20.95	21.27		0
	50	0	20.64	20.97	21.00	0-2	0
	50	25	20.83	20.78	20.93		0
	50	50	20.75	20.92	21.10		0
	100	0	20.74	20.83	20.91		0
64QAM	1	0	20.87	20.83	21.19	0-2	0
	1	50	21.20	21.01	21.10		0
	1	99	21.03	20.84	21.15		0
	50	0	20.70	20.67	20.95	0-3	0
	50	25	20.78	20.84	21.09		0
	50	50	20.85	20.94	21.14		0
	100	0	20.78	20.74	20.96		0
256QAM	1	0	18.45	18.56	18.76	0-5	2
	1	50	18.55	18.84	18.84		2
	1	99	18.75	18.66	18.50		2
	50	0	18.47	18.63	18.84		2
	50	25	18.77	18.83	18.88		2
	50	50	18.76	18.77	18.91		2
	100	0	18.74	18.74	18.90		2

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9.3.1

LTE Band 41

Table 9-43

LTE Band 41 PC3 Measured P_{Max} for DSI = 2 (Head) or DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack Active) - 20 MHz Bandwidth

LTE Band 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	23.55	23.67	23.68	23.85	23.87	0	0
	1	50	23.35	23.88	23.95	24.01	24.11		0
	1	99	23.48	23.98	23.76	23.62	23.99		0
	50	0	22.34	22.77	22.94	23.10	22.87	0-1	1
	50	25	22.43	22.82	23.09	23.09	23.10		1
	50	50	22.34	22.90	23.02	22.99	23.17		1
	100	0	22.35	22.66	23.04	23.03	22.97		1
16QAM	1	0	22.25	22.90	22.65	22.59	22.75	0-1	1
	1	50	22.34	22.92	22.86	22.98	22.90		1
	1	99	22.36	22.93	22.81	22.64	23.04		1
	50	0	21.34	21.85	22.08	21.95	21.91	0-2	2
	50	25	21.46	21.90	22.22	22.14	22.04		2
	50	50	21.30	21.91	22.01	22.05	22.17		2
	100	0	21.34	21.79	22.16	22.10	22.01		2
64QAM	1	0	21.45	21.71	21.70	21.67	21.80	0-2	2
	1	50	21.58	21.78	22.50	21.92	22.02		2
	1	99	21.56	21.83	22.00	21.77	22.29		2
	50	0	20.33	20.82	21.04	21.09	20.98	0-3	3
	50	25	20.47	20.83	21.13	21.16	20.94		3
	50	50	20.36	20.99	21.02	20.98	21.21		3
	100	0	20.39	20.72	21.10	21.11	21.04		3
256QAM	1	0	17.97	18.39	18.83	18.98	18.54	0-5	5
	1	50	18.09	18.84	19.13	19.36	19.32		5
	1	99	18.09	18.72	18.74	19.04	18.80		5
	50	0	18.25	18.68	19.00	19.01	18.96		5
	50	25	18.45	18.83	19.20	19.16	19.11		5
	50	50	18.30	18.84	19.09	19.04	19.14		5
	100	0	18.28	18.74	19.12	19.03	19.09		5

Table 9-44

LTE Band 41 Uplink Carrier Aggregation Measured P_{Max} for DSI = 2 (Head) or DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack Active) - 20 MHz Bandwidth

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	1	0	LTE B41	20	41292	2660.2	QPSK	1	99	24.25	23.87

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Table 9-45
LTE Band 41 PC3 Measured P_{Limit} for DSI = 3 (Hotspot Mode) - 20 MHz Bandwidth

LTE Band 41 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	19.34	19.70	19.72	19.71	19.53	0	0
	1	50	19.36	19.95	20.10	20.03	19.95		0
	1	99	19.30	19.81	19.81	19.63	19.87		0
	50	0	19.34	19.79	20.00	19.93	19.82	0-1	0
	50	25	19.38	19.83	20.12	20.04	19.90		0
	50	50	19.36	19.78	19.91	19.99	20.00		0
	100	0	19.32	19.66	19.97	19.96	19.78		0
16QAM	1	0	19.33	19.79	19.56	19.84	19.56	0-1	0
	1	50	19.40	19.90	19.97	19.75	19.98		0
	1	99	19.63	19.72	19.74	19.62	19.75		0
	50	0	19.44	19.77	19.92	19.94	19.74	0-2	0
	50	25	19.37	19.80	20.15	20.12	19.83		0
	50	50	19.22	19.76	19.93	19.93	19.99		0
	100	0	19.31	19.74	19.95	20.04	19.81		0
64QAM	1	0	19.35	19.58	19.55	20.06	19.65	0-2	0
	1	50	19.50	19.90	19.95	20.01	19.95		0
	1	99	19.26	19.79	19.82	19.60	19.92		0
	50	0	19.34	19.82	19.89	19.90	19.79	0-3	0
	50	25	19.38	19.79	20.05	20.05	19.89		0
	50	50	19.35	19.83	19.95	19.92	20.04		0
	100	0	19.33	19.68	19.99	19.96	19.95		0
256QAM	1	0	18.11	18.23	18.43	18.56	18.58	0-5	1
	1	50	18.20	18.65	18.68	18.75	18.62		1
	1	99	18.17	18.55	18.53	18.72	18.86		1
	50	0	18.19	18.54	18.81	18.86	18.79		1
	50	25	18.22	18.55	18.96	18.93	18.80		1
	50	50	18.16	18.67	18.74	18.80	18.94		1
	100	0	18.18	18.68	18.77	18.84	18.81		1

Table 9-46
LTE Band 41 Uplink Carrier Aggregation Measured P_{Limit} for DSI = 3 (Hotspot Mode) - 20 MHz Bandwidth

Combination	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC				SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC				Power	
				PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset				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	40620	2593.0	QPSK	1	0	LTE B41	20	40422	2573.2	QPSK	1	99	19.94	19.72

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Table 9-47

LTE Band 41 PC2 Measured P_{Max} for DSI = 2 (Head) or DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack Active) - 20 MHz Bandwidth

LTE Band 41 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	25.29	25.44	25.79	25.40	25.40	0	0
	1	50	25.48	25.53	26.08	25.84	25.73		0
	1	99	25.49	25.65	25.92	25.59	25.95		0
	50	0	24.07	24.55	24.66	24.66	24.60	0-1	0.9
	50	25	24.15	24.49	24.85	24.89	24.65		0.9
	50	50	24.11	24.69	24.62	24.70	24.75		0.9
	100	0	24.01	24.45	24.76	24.75	24.64		0.9

Table 9-48

LTE Band 41 Uplink Carrier Aggregation Measured P_{Max} for DSI = 2 (Head) or DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack Active) - 20 MHz Bandwidth

	PCC							SCC							Power	
Combination	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_41C	LTE B41 PC2	20	41490	2680.0	QPSK	1	0	LTE B41 PC2	20	41292	2660.2	QPSK	1	99	26.00	25.40

Table 9-49

LTE Band 41 PC2 Measured P_{Limit} for DSI = 3 (Hotspot Mode) - 20 MHz Bandwidth

LTE Band 41 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	21.25	21.57	21.39	21.56	21.72	0	0
	1	50	21.38	21.74	22.02	22.00	22.01		0
	1	99	21.66	21.81	21.88	21.74	21.80		0
	50	0	21.25	21.66	21.68	21.73	21.58	0-1	0
	50	25	21.27	21.62	21.82	21.80	21.72		0
	50	50	21.17	21.79	21.68	21.74	21.79		0
	100	0	21.12	21.54	21.67	21.73	21.68		0

Table 9-50

LTE Band 41 Uplink Carrier Aggregation Measured P_{Limit} for DSI = 3 (Hotspot Mode) - 20 MHz Bandwidth

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	40620	2593.0	QPSK	1	0	LTE B41 PC2	20	40422	2573.2	QPSK	1	99	21.53	21.39

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9.3.2

LTE Band 48

Table 9-51

LTE Band 48 Measured P_{Limit} for DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack Active) - 20 MHz Bandwidth

LTE Band 48 20 MHz Bandwidth								
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			55340 (3560.0 MHz)	55773 (3603.3 MHz)	56207 (3646.7 MHz)	56640 (3690.0 MHz)		
			Conducted Power [dBm]					
QPSK	1	0	20.60	20.29	20.13	20.30	0	0
	1	50	20.57	20.22	20.21	20.43		0
	1	99	20.47	20.12	20.24	20.48		0
	50	0	20.42	20.11	20.10	20.36	0-1	0
	50	25	20.44	20.05	20.00	20.43		0
	50	50	20.41	20.09	20.10	20.42		0
	100	0	20.40	20.01	20.04	20.42		0
16QAM	1	0	20.63	20.19	20.12	20.34	0-1	0
	1	50	20.80	20.22	20.10	20.60		0
	1	99	20.53	20.18	20.06	20.61		0
	50	0	20.42	20.21	20.16	20.45	0-2	0
	50	25	20.52	20.28	20.11	20.52		0
	50	50	20.38	20.06	20.13	20.31		0
	100	0	20.44	20.17	20.11	20.38		0
64QAM	1	0	20.64	20.27	20.48	20.41	0-2	0
	1	50	20.59	20.49	20.31	20.32		0
	1	99	20.57	20.25	20.22	20.73		0
	50	0	19.85	19.63	19.38	19.80	0-3	0.5
	50	25	19.56	19.71	19.70	19.96		0.5
	50	50	19.84	19.57	19.52	19.67		0.5
	100	0	19.81	19.58	19.43	19.75		0.5
256QAM	1	0	17.78	17.43	17.70	17.70	0-5	2.5
	1	50	18.03	17.50	17.50	17.90		2.5
	1	99	17.60	17.44	17.27	17.96		2.5
	50	0	18.00	17.69	17.42	17.73		2.5
	50	25	17.93	17.71	17.51	17.79		2.5
	50	50	17.82	17.68	17.61	17.82		2.5
	100	0	17.90	17.70	17.41	17.93		2.5

Table 9-52

LTE Band 48 Uplink Carrier Aggregation P_{Limit} for DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack Active) - 20 MHz Bandwidth

Combination	PCC Band	PCC Bandwidth [MHz]	PCC		Modulation	PCC UL# RB	PCC UL RB Offset	SCC				Modulation	SCC UL# RB	SCC UL RB Offset	Power	
			PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]				SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]				LTE Tx Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_48C	LTE B48	20	55340	3560.0	QPSK	50	50	LTE B48	20	55538	3579.8	QPSK	50	0	20.70	20.41
CA_48C	LTE B48	20	56640	3690.0	QPSK	50	0	LTE B48	20	56442	3670.2	QPSK	50	50	20.53	20.36

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Table 9-53
LTE Band 48 Measured P_{Limit} for DSI = 3 (Hotspot Mode) - 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	18.06	17.69	17.66	18.03	0	0
	1	50	18.04	17.59	17.77	18.10		0
	1	99	18.05	17.70	17.84	18.13		0
	50	0	18.04	17.83	17.63	18.02	0-1	0
	50	25	18.03	17.76	17.86	18.15		0
	50	50	18.02	17.62	17.84	18.19		0
	100	0	17.96	17.70	17.72	18.11		0
16QAM	1	0	18.00	17.82	17.69	18.08	0-1	0
	1	50	18.22	17.85	18.00	18.22		0
	1	99	18.10	17.66	17.89	18.20		0
	50	0	17.99	17.84	17.64	18.00	0-2	0
	50	25	18.06	17.78	17.85	18.17		0
	50	50	18.04	17.63	17.89	18.11		0
	100	0	17.98	17.70	17.74	18.09		0
64QAM	1	0	18.08	17.89	17.78	18.11	0-2	0
	1	50	18.24	17.85	17.90	18.22		0
	1	99	18.20	17.75	18.01	18.24		0
	50	0	18.00	17.83	17.65	18.00	0-3	0
	50	25	18.07	17.77	17.82	18.16		0
	50	50	18.03	17.59	17.88	18.17		0
	100	0	17.99	17.61	17.70	18.08		0
256QAM	1	0	17.67	17.60	17.27	17.73	0-5	0
	1	50	18.12	17.77	17.87	18.12		0
	1	99	17.85	17.20	17.58	17.84		0
	50	0	18.01	17.84	17.66	18.00		0
	50	25	18.10	17.77	17.82	18.18		0
	50	50	18.04	17.61	17.89	18.11		0
	100	0	17.98	17.67	17.73	18.09		0

Table 9-54
LTE Band 48 Uplink Carrier Aggregation Measured P_{Limit} for DSI = 3 (Hotspot Mode) - 20 MHz Bandwidth

Combination	PCC				Modulation	PCC UL# RB		SCC				Modulation	SCC UL# RB		Power	
	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]		PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]		SCC UL# RB	SCC UL RB Offset	LTE Tx Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_48C	LTE B48	20	56207	3646.7	QPSK	1	99	LTE B48	20	56405	3666.5	QPSK	1	0	17.80	17.84

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Table 9-55
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	16.24	16.30	16.21	16.45	0	0
	1	50	16.25	16.29	16.17	16.38		0
	1	99	16.21	16.19	16.16	16.65		0
	50	0	16.18	16.37	16.08	16.30	0-1	0
	50	25	16.22	16.33	16.21	16.62		0
	50	50	16.16	16.18	16.20	16.45		0
	100	0	16.15	16.22	16.12	16.55		0
16QAM	1	0	16.32	16.24	16.27	16.35	0-1	0
	1	50	16.24	16.40	16.37	16.46		0
	1	99	16.33	16.21	16.25	16.44		0
	50	0	16.07	16.35	16.08	16.28	0-2	0
	50	25	16.10	16.32	16.22	16.48		0
	50	50	16.03	16.19	16.22	16.42		0
	100	0	16.00	16.22	16.13	16.40		0
64QAM	1	0	16.20	16.41	16.28	16.41	0-2	0
	1	50	16.27	16.39	16.36	16.50		0
	1	99	16.17	16.32	16.34	16.53		0
	50	0	16.07	16.35	16.14	16.30	0-3	0
	50	25	16.11	16.32	16.27	16.50		0
	50	50	16.03	16.18	16.25	16.45		0
	100	0	16.00	16.23	16.18	16.42		0
256QAM	1	0	15.77	16.10	15.89	15.96	0-5	0
	1	50	16.17	16.35	16.30	16.42		0
	1	99	15.75	15.72	15.94	16.15		0
	50	0	16.07	16.15	16.14	16.29		0
	50	25	16.10	16.12	16.24	16.48		0
	50	50	16.02	15.93	16.25	16.44		0
	100	0	16.00	15.95	16.15	16.38		0

Table 9-56
LTE Band 48 Uplink Carrier Aggregation Measured P_{Limit} for DSI = 2 (Head) - 20 MHz Bandwidth

	PCC							SCC						Power		
Combination	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_48C	LTE_B48	20	56640	3690.0	QPSK	1	0	LTE_B48	20	56442	3670.2	QPSK	1	99	16.12	16.45



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 9-57

NR Band n71 Measured P_{Max} for DSI = 2 (Head) or DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack Active) - 20 MHz Bandwidth

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	23.78	0	0.0
	1	53	23.61		0.0
	1	104	23.63		0.0
	50	0	23.17	0-0.5	0.5
	50	28	23.62	0	0.0
	50	56	23.17	0-0.5	0.5
	100	0	23.12		0.5
DFT-s-OFDM QPSK	1	1	23.75	0	0.0
	1	53	23.60		0.0
	1	104	23.54		0.0
	50	0	22.66	0-1	1.0
	50	28	23.69	0	0.0
	50	56	22.58	0-1	1.0
	100	0	22.66		1.0
DFT-s-OFDM 16QAM	1	1	22.77	0-1	1.0
CP-OFDM QPSK	1	1	22.45	0-1.5	1.5

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Table 9-58
NR Band n71 Measured P_{Limit} for DSI = 3 (Hotspot Mode) - 20 MHz Bandwidth

NR Band n71 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			136100 (680.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	23.37	0	0.0
	1	53	23.21		0.0
	1	104	23.24		0.0
	50	0	23.33	0-0.5	0.0
	50	28	23.22	0	0.0
	50	56	23.27		0.0
	100	0	23.23		0.0
DFT-s-OFDM QPSK	1	1	23.20	0	0.0
	1	53	23.25		0.0
	1	104	23.24		0.0
	50	0	23.31	0-1	0.0
	50	28	23.32	0	0.0
	50	56	23.23		0.0
	100	0	23.23		0.0
DFT-s-OFDM 16QAM	1	1	23.34	0-1	0.0
CP-OFDM QPSK	1	1	22.43	0-1.5	0.5

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9.4.2 NR Band n12

Table 9-59

NR Band n12 Measured P_{Max} for DSI = 2 (Head) or DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack Active) - 15 MHz Bandwidth

NR Band n12 15 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			141500 (707.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	23.78	0	0.0
	1	40	23.68		0.0
	1	77	23.49		0.0
	36	0	23.25	0-0.5	0.5
	36	22	23.64	0	0.0
	36	43	23.09		0.5
	75	0	23.20		0.5
DFT-s-OFDM QPSK	1	1	23.79	0	0.0
	1	40	23.67		0.0
	1	77	23.51		0.0
	36	0	22.76	0-1	1.0
	36	22	23.61	0	0.0
	36	43	22.63		1.0
	75	0	22.62		1.0
DFT-s-OFDM 16QAM	1	1	22.70	0-1	1.0
CP-OFDM QPSK	1	1	22.23	0-1.5	1.5

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Table 9-60
NR Band n12 Measured P_{Limit} for DSI = 3 (Hotspot Mode) - 15 MHz Bandwidth

NR Band n12 15 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			141500 (707.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	23.31	0	0.0
	1	40	23.18		0.0
	1	77	23.07		0.0
	36	0	23.27	0-0.5	0.0
	36	22	23.25	0	0.0
	36	43	23.22	0-0.5	0.0
	75	0	23.37		0.0
DFT-s-OFDM QPSK	1	1	23.30	0	0.0
	1	40	23.23		0.0
	1	77	23.09		0.0
	36	0	23.27	0-1	0.0
	36	22	23.22	0	0.0
	36	43	23.20	0-1	0.0
	75	0	23.24		0.0
DFT-s-OFDM 16QAM	1	1	23.33	0-1	0.0
CP-OFDM QPSK	1	1	22.50	0-1.5	0.5

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9.4.3 NR Band n5

Table 9-61

NR Band n5 Measured P_{Max} for DSI = 2 (Head) or DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack Active) - 20 MHz Bandwidth

NR Band n5 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			167300 (836.5 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	23.77	0	0.0
	1	53	23.73		0.0
	1	104	23.58		0.0
	50	0	23.32	0-0.5	0.5
	50	28	23.66	0	0.0
	50	56	23.12	0-0.5	0.5
	100	0	23.22		0.5
DFT-s-OFDM QPSK	1	1	23.69	0	0.0
	1	53	23.72		0.0
	1	104	23.50		0.0
	50	0	22.83	0-1	1.0
	50	28	23.68	0	0.0
	50	56	22.63	0-1	1.0
	100	0	22.72		1.0
DFT-s-OFDM 16QAM	1	1	22.68	0-1	1.0
CP-OFDM QPSK	1	1	22.24	0-1.5	1.5

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Table 9-62
NR Band n5 Measured P_{Limit} for DSI = 3 (Hotspot Mode) - 20 MHz Bandwidth

NR Band n5 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			167300 (836.5 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	23.32	0	0.0
	1	53	23.33		0.0
	1	104	23.20		0.0
	50	0	23.44	0-0.5	0.0
	50	28	23.29	0	0.0
	50	56	23.18	0-0.5	0.0
	100	0	23.36		0.0
DFT-s-OFDM QPSK	1	1	23.42	0	0.0
	1	53	23.34		0.0
	1	104	23.23		0.0
	50	0	23.41	0-1	0.0
	50	28	23.30	0	0.0
	50	56	23.20	0-1	0.0
	100	0	23.36		0.0
DFT-s-OFDM 16QAM	1	1	23.26	0-1	0.0
CP-OFDM QPSK	1	1	22.06	0-1.5	0.5

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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 = 2 (Head) or DSI = 0 (Body-worn, or Phablet with grip sensor inactive) - 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	23.60	0	0.0
	1	108	23.99		0.0
	1	214	24.03		0.0
	108	0	23.33	0-0.5	0.5
	108	54	23.84	0	0.0
	108	108	23.55		0.5
	216	0	23.30		0.5
DFT-s-OFDM QPSK	1	1	23.34	0	0.0
	1	108	23.43		0.0
	1	214	23.54		0.0
	108	0	23.00	0-1	1.0
	108	54	23.72	0	0.0
	108	108	23.10		1.0
	216	0	22.85		1.0
DFT-s-OFDM 16QAM	1	1	22.51	0-1	1.0
CP-OFDM QPSK	1	1	21.92	0-1.5	1.5

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Table 9-64
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	17.98	0	0.0
	1	108	18.05		0.0
	1	214	18.16		0.0
	108	0	18.09	0-0.5	0.0
	108	54	18.14	0	0.0
	108	108	18.31	0-0.5	0.0
	216	0	18.13		0.0
DFT-s-OFDM QPSK	1	1	17.98	0	0.0
	1	108	18.10		0.0
	1	214	18.23		0.0
	108	0	18.09	0-1	0.0
	108	54	18.14	0	0.0
	108	108	18.28	0-1	0.0
	216	0	18.13		0.0
DFT-s-OFDM 16QAM	1	1	18.31	0-1	0.0
CP-OFDM QPSK	1	1	17.94	0-1.5	0.0

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Table 9-65
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	19.81	0	0.0
	1	108	19.99		0.0
	1	214	20.04		0.0
	108	0	19.93	0-0.5	0.0
	108	54	19.94	0	0.0
	108	108	20.10	0-0.5	0.0
	216	0	19.95		0.0
DFT-s-OFDM QPSK	1	1	20.14	0	0.0
	1	108	19.93		0.0
	1	214	20.01		0.0
	108	0	19.98	0-1	0.0
	108	54	20.02	0	0.0
	108	108	20.16	0-1	0.0
	216	0	19.98		0.0
DFT-s-OFDM 16QAM	1	1	20.02	0-1	0.0
CP-OFDM QPSK	1	1	19.82	0-1.5	0.0

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9.4.5 NR Band n66 Antenna I

Table 9-66

NR Band n66 Antenna I Measured P_{Limit} for DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack Active) - 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	21.40	0	0.0
	1	108	21.62		0.0
	1	214	21.39		0.0
	108	0	21.54	0-0.5	0.0
	108	54	21.57	0	0.0
	108	108	21.62	0-0.5	0.0
	216	0	21.59		0.0
DFT-s-OFDM QPSK	1	1	21.42	0	0.0
	1	108	21.67		0.0
	1	214	21.36		0.0
	108	0	21.54	0-1	0.0
	108	54	21.55	0	0.0
	108	108	21.64	0-1	0.0
	216	0	21.57		0.0
DFT-s-OFDM 16QAM	1	1	21.28	0-1	0.0
CP-OFDM QPSK	1	1	21.43	0-1.5	0.0

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Table 9-67
NR Band n66 Antenna I Measured P_{Limit} for DSI = 2 (Head) and/or 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	14.99	0	0.0
	1	108	15.30		0.0
	1	214	15.02		0.0
	108	0	15.15	0-0.5	0.0
	108	54	15.20	0	0.0
	108	108	15.27	0-0.5	0.0
	216	0	15.24		0.0
DFT-s-OFDM QPSK	1	1	14.99	0	0.0
	1	108	15.30		0.0
	1	214	15.08		0.0
	108	0	15.20	0-1	0.0
	108	54	15.22	0	0.0
	108	108	15.27	0-1	0.0
	216	0	15.19		0.0
DFT-s-OFDM 16QAM	1	1	14.92	0-1	0.0
CP-OFDM QPSK	1	1	15.06	0-1.5	0.0

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9.4.6 NR Band n25 Antenna A

Table 9-68
NR Band n25 Antenna A Measured P_{Max} for DSI = 2 (Head) or DSI = 0 (Body-worn, or Phablet with grip sensor inactive) - 40 MHz Bandwidth

NR Band n25 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			376500 (1882.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	24.03	0	0.0
	1	108	24.20		0.0
	1	214	24.24		0.0
	108	0	23.75	0-0.5	0.5
	108	54	24.12	0	0.0
	108	108	23.92	0-0.5	0.5
	216	0	23.76		0.5
DFT-s-OFDM QPSK	1	1	23.78	0	0.0
	1	108	23.50		0.0
	1	214	23.73		0.0
	108	0	23.21	0-1	1.0
	108	54	23.94	0	0.0
	108	108	23.43	0-1	1.0
	216	0	23.19		1.0
DFT-s-OFDM 16QAM	1	1	22.84	0-1	1.0
CP-OFDM QPSK	1	1	22.53	0-1.5	1.5

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Table 9-69
NR Band n25 Antenna A Measured P_{Limit} for DSI = 3 (Hotspot mode) - 40 MHz Bandwidth
NR Band n25
40 MHz Bandwidth

			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	376500 (1882.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	17.99	0	0.0
	1	108	17.97		0.0
	1	214	18.04		0.0
	108	0	18.06	0-0.5	0.0
	108	54	18.02	0	0.0
	108	108	18.11		0.0
	216	0	18.04		0.0
DFT-s-OFDM QPSK	1	1	17.96	0	0.0
	1	108	17.98		0.0
	1	214	17.97		0.0
	108	0	18.05	0-1	0.0
	108	54	18.04	0	0.0
	108	108	18.08		0.0
	216	0	17.97		0.0
DFT-s-OFDM 16QAM	1	1	18.27	0-1	0.0
CP-OFDM QPSK	1	1	17.97	0-1.5	0.0

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Table 9-70
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	21.52	0	0.0
	1	108	21.48		0.0
	1	214	21.64		0.0
	108	0	21.61	0-0.5	0.0
	108	54	21.57	0	0.0
	108	108	21.68	0-0.5	0.0
	216	0	21.57		0.0
DFT-s-OFDM QPSK	1	1	21.47	0	0.0
	1	108	21.54		0.0
	1	214	21.53		0.0
	108	0	21.66	0-1	0.0
	108	54	21.62	0	0.0
	108	108	21.69	0-1	0.0
	216	0	21.53		0.0
DFT-s-OFDM 16QAM	1	1	21.97	0-1	0.0
CP-OFDM QPSK	1	1	21.60	0-1.5	0.0

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9.4.7 NR Band n25 Antenna I

Table 9-71

NR Band n25 Antenna I Measured P_{Limit} for DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack Active) - 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	21.93	0	0.0
	1	108	21.91		0.0
	1	214	21.87		0.0
	108	0	22.00	0-0.5	0.0
	108	54	22.00	0	0.0
	108	108	21.99	0-0.5	0.0
	216	0	21.99		0.0
DFT-s-OFDM QPSK	1	1	21.90	0	0.0
	1	108	21.93		0.0
	1	214	21.94		0.0
	108	0	21.98	0-1	0.0
	108	54	21.99	0	0.0
	108	108	22.00	0-1	0.0
	216	0	21.93		0.0
DFT-s-OFDM 16QAM	1	1	21.55	0-1	0.0
CP-OFDM QPSK	1	1	21.88	0-1.5	0.0

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Table 9-72
NR Band n25 Antenna I Measured P_{Limit} for DSI = 2 (Head) and/or 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	16.26	0	0.0
	1	108	16.27		0.0
	1	214	16.24		0.0
	108	0	16.33	0-0.5	0.0
	108	54	16.30	0	0.0
	108	108	16.33	0-0.5	0.0
	216	0	16.36		0.0
DFT-s-OFDM QPSK	1	1	16.20	0	0.0
	1	108	16.28		0.0
	1	214	16.15		0.0
	108	0	16.33	0-1	0.0
	108	54	16.33	0	0.0
	108	108	16.34	0-1	0.0
	216	0	16.27		0.0
DFT-s-OFDM 16QAM	1	1	16.50	0-1	0.0
CP-OFDM QPSK	1	1	16.24	0-1.5	0.0

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9.4.8 NR Band n30 Antenna B

Table 9-73

NR Band n30 Antenna B Measured P_{Max} for DSI = 2 (Head) or DSI = 0 (Body-worn, or Phablet with grip sensor inactive)- 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	23.26	0	0.0
	1	26	23.20		0.0
	1	50	23.19		0.0
	25	0	22.96	0-0.5	0.5
	25	14	23.45	0	0.0
	25	27	22.90	0-0.5	0.5
	50	0	22.89		0.5
DFT-s-OFDM QPSK	1	1	23.33	0	0.0
	1	26	23.28		0.0
	1	50	23.50		0.0
	25	0	22.35	0-1	1.0
	25	14	23.47	0	0.0
	25	27	22.47	0-1	1.0
	50	0	22.47		1.0
DFT-s-OFDM 16QAM	1	1	22.50	0-1	1.0
CP-OFDM QPSK	1	1	22.00	0-1.5	1.5

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Table 9-74
NR Band n30 Antenna B 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	18.24	0	0.0
	1	26	18.25		0.0
	1	50	18.01		0.0
	25	0	18.14	0-0.5	0.0
	25	14	18.13	0	0.0
	25	27	18.07	0-0.5	0.0
	50	0	18.11		0.0
DFT-s-OFDM QPSK	1	1	18.00	0	0.0
	1	26	18.05		0.0
	1	50	17.77		0.0
	25	0	18.03	0-1	0.0
	25	14	18.09	0	0.0
	25	27	18.05	0-1	0.0
	50	0	18.04		0.0
DFT-s-OFDM 16QAM	1	1	18.37	0-1	0.0
CP-OFDM QPSK	1	1	18.22	0-1.5	0.0

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Table 9-75
NR Band n30 Antenna B Measured P_{Limit} for DSI = 1 (Phablet with Grip Sensor Active) and/or DSI = 4 (Earjack Active) - 10 MHz Bandwidth

NR Band n30 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			462000 (2310 MHz) Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	21.63	0	0.0
	1	26	21.61		0.0
	1	50	21.42		0.0
	25	0	21.54	0-0.5	0.0
	25	14	21.56	0	0.0
	25	27	21.55	0-0.5	0.0
	50	0	21.57		0.0
DFT-s-OFDM QPSK	1	1	21.49	0	0.0
	1	26	21.59		0.0
	1	50	21.28		0.0
	25	0	21.59	0-1	0.0
	25	14	21.58	0	0.0
	25	27	21.60	0-1	0.0
	50	0	21.58		0.0
DFT-s-OFDM 16QAM	1	1	21.63	0-1	0.0
CP-OFDM QPSK	1	1	20.99	0-1.5	0.5

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9.4.1 NR Band n30 Antenna I

Table 9-76

NR Band n30 Antenna I Measured P_{Limit} for DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack Active)- 10 MHz Bandwidth

NR Band n30 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			462000 (2310 MHz) Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	21.80	0	0.0
	1	26	21.83		0.0
	1	50	21.75		0.0
	25	0	21.83	0-0.5	0.0
	25	14	21.84	0	0.0
	25	27	21.76		0.0
	50	0	21.85		0.0
DFT-s-OFDM QPSK	1	1	21.77	0	0.0
	1	26	21.70		0.0
	1	50	21.68		0.0
	25	0	21.88	0-1	0.0
	25	14	21.84	0	0.0
	25	27	21.81	0-1	0.0
	50	0	21.76		0.0
DFT-s-OFDM 16QAM	1	1	21.94	0-1	0.0
CP-OFDM QPSK	1	1	21.89	0-1.5	0.0

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Table 9-77

NR Band n30 Antenna I 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	19.32	0	0.0
	1	26	19.34		0.0
	1	50	19.28		0.0
	25	0	19.33	0-0.5	0.0
	25	14	19.29	0	0.0
	25	27	19.21		0.0
	50	0	19.27		0.0
DFT-s-OFDM QPSK	1	1	19.19	0	0.0
	1	26	19.11		0.0
	1	50	19.14		0.0
	25	0	19.24	0-1	0.0
	25	14	19.25	0	0.0
	25	27	19.22		0.0
	50	0	19.18		0.0
DFT-s-OFDM 16QAM	1	1	19.49	0-1	0.0
CP-OFDM QPSK	1	1	19.32	0-1.5	0.0

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Table 9-78
NR Band n30 Antenna I 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	16.71	0	0.0
	1	26	16.66		0.0
	1	50	16.67		0.0
	25	0	16.71	0-0.5	0.0
	25	14	16.65	0	0.0
	25	27	16.62	0-0.5	0.0
	50	0	16.63		0.0
DFT-s-OFDM QPSK	1	1	16.56	0	0.0
	1	26	16.55		0.0
	1	50	16.57		0.0
	25	0	16.73	0-1	0.0
	25	14	16.74	0	0.0
	25	27	16.66	0-1	0.0
	50	0	16.55		0.0
DFT-s-OFDM 16QAM	1	1	16.98	0-1	0.0
CP-OFDM QPSK	1	1	16.62	0-1.5	0.0

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9.4.1 NR Band n7 Antenna B

Table 9-79
NR Band n7 Antenna B Measured P_{Max} for DSI = 2 (Head) or DSI = 0 (Body-worn, or Phablet with grip sensor inactive)- 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	23.96	0	0.0
	1	108	24.33		0.0
	1	214	24.19		0.0
	108	0	23.31	0-0.5	0.5
	108	54	24.04	0	0.0
	108	108	24.00	0-0.5	0.5
	216	0	23.91		0.5
DFT-s-OFDM QPSK	1	1	23.83	0	0.0
	1	108	24.27		0.0
	1	214	24.19		0.0
	108	0	23.50	0-1	1.0
	108	54	24.14	0	0.0
	108	108	23.42	0-1	1.0
	216	0	23.08		1.0
DFT-s-OFDM 16QAM	1	1	23.06	0-1	1.0
CP-OFDM QPSK	1	1	22.46	0-1.5	1.5

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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	19.47	0	0.0
	1	108	19.77		0.0
	1	214	19.80		0.0
	108	0	19.61	0-0.5	0.0
	108	54	19.73	0	0.0
	108	108	19.84		0.0
	216	0	19.74		0.0
DFT-s-OFDM QPSK	1	1	19.39	0	0.0
	1	108	19.71		0.0
	1	214	19.64		0.0
	108	0	19.63	0-1	0.0
	108	54	19.70	0	0.0
	108	108	19.86		0.0
	216	0	19.69		0.0
DFT-s-OFDM 16QAM	1	1	19.79	0-1	0.0
CP-OFDM QPSK	1	1	19.54	0-1.5	0.0

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Table 9-81
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	20.38	0	0.0
	1	108	20.71		0.0
	1	214	20.73		0.0
	108	0	20.55	0-0.5	0.0
	108	54	20.60	0	0.0
	108	108	20.74	0-0.5	0.0
	216	0	20.61		0.0
DFT-s-OFDM QPSK	1	1	20.33	0	0.0
	1	108	20.62		0.0
	1	214	20.66		0.0
	108	0	20.57	0-1	0.0
	108	54	20.72	0	0.0
	108	108	20.83	0-1	0.0
	216	0	20.60		0.0
DFT-s-OFDM 16QAM	1	1	20.64	0-1	0.0
CP-OFDM QPSK	1	1	20.50	0-1.5	0.0

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9.4.2 NR Band n41 Antenna I

Table 9-82

NR Band n41 Antenna I Measured P_{Limit} for DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 1 (Phablet with grip sensor active), and/or DSI = 4 (Earjack Active) - 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	19.17	0	0.0
	1	137	19.26		0.0
	1	271	19.46		0.0
	135	0	19.18	0-0.5	0.0
	135	69	19.31	0	0.0
	135	138	19.40	0-0.5	0.0
	270	0	19.27		0.0
DFT-s-OFDM QPSK	1	1	19.28	0	0.0
	1	137	19.40		0.0
	1	271	19.52		0.0
	135	0	19.12	0-1	0.0
	135	69	19.23	0	0.0
	135	138	19.35	0-1	0.0
	270	0	19.27		0.0
DFT-s-OFDM 16QAM	1	1	18.98	0-1	0.0
CP-OFDM QPSK	1	1	19.12	0-1.5	0.0

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Table 9-83
NR Band n41 Antenna I Measured P_{Limit} for DSI = 3 (Hotspot mode) - 100 MHz Bandwidth

NR Band n41 100 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			518598 (2592.99 MHz) Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	17.09	0	0.0
	1	137	17.58		0.0
	1	271	17.76		0.0
	135	0	17.17	0-0.5	0.0
	135	69	17.46	0	0.0
	135	138	17.62	0-0.5	0.0
	270	0	17.74		0.0
DFT-s-OFDM QPSK	1	1	17.15	0	0.0
	1	137	17.57		0.0
	1	271	17.74		0.0
	135	0	17.14	0-1	0.0
	135	69	17.47	0	0.0
	135	138	17.58	0-1	0.0
	270	0	17.44		0.0
DFT-s-OFDM 16QAM	1	1	17.30	0-1	0.0
CP-OFDM QPSK	1	1	16.85	0-1.5	0.0

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Table 9-84
NR Band n41 Antenna I Measured P_{Limit} for DSI = 2 (Head) - 100 MHz Bandwidth

NR Band n41 100 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			518598 (2592.99 MHz) Conducted Power [dBm]		
DFT-s-OFDM $\pi/2$ BPSK	1	1	15.43	0	0.0
	1	137	15.82		0.0
	1	271	15.51		0.0
	135	0	15.60	0-0.5	0.0
	135	69	15.70	0	0.0
	135	138	15.71	0-0.5	0.0
	270	0	15.59		0.0
DFT-s-OFDM QPSK	1	1	15.85	0	0.0
	1	137	15.84		0.0
	1	271	15.86		0.0
	135	0	15.66	0-1	0.0
	135	69	15.64	0	0.0
	135	138	15.67	0-1	0.0
	270	0	15.55		0.0
DFT-s-OFDM 16QAM	1	1	15.10	0-1	0.0
CP-OFDM QPSK	1	1	15.11	0-1.5	0.0

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9.4.3 NR Band n41 Antenna B, F, C

Table 9-85
NR Band n41 Antenna B, C 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	15.12
SRS#4 Ant C	10.28

Table 9-86
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) 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 F	16.12

Table 9-87
NR Band n41 Antenna F Measured P_{Limit} for DSI = 3 (Hotspot mode) – 100 MHz Bandwidth

NR Band n41 100 MHz Bandwidth	
Channel	
Modulation	518598 (2592.99 MHz)
	Conducted Power [dBm]
SRS#3 Ant F	13.70

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Table 9-88
NR Band n41 Antenna F 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 F	11.61

9.4.1 NR Band n48 Antenna F

Table 9-89
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) 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	18.97	18.79	18.74	0	0.0
	1	53	18.82	18.72	18.71		0.0
	1	104	18.92	18.76	18.78		0.0
	50	0	18.89	18.64	18.67	0-0.5	0.0
	50	28	18.77	18.63	18.66	0-0.5	0.0
	50	56	18.80	18.62	18.63		0.0
	100	0	18.82	18.65	18.70		0.0
DFT-s-OFDM QPSK	1	1	18.95	18.85	18.73	0	0.0
	1	53	18.88	18.75	18.72		0.0
	1	104	18.92	18.81	18.81		0.0
	50	0	18.89	18.67	18.67	0-1	0.0
	50	28	18.77	18.61	18.67	0	0.0
	50	56	18.82	18.63	18.65	0-1	0.0
	100	0	18.80	18.68	18.67		0.0
DFT-s-OFDM 16QAM	1	1	18.97	18.90	18.95	0-1	0.0
CP-OFDM QPSK	1	1	18.63	18.40	18.41	0-1.5	0.0

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Table 9-90
NR Band n48 Antenna F Measured P_{Limit} for DSI = 3 (Hotspot mode) - 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	17.47	17.31	17.21	0	0.0
	1	53	17.28	17.18	17.17		0.0
	1	104	17.34	17.28	17.28		0.0
	50	0	17.35	17.15	17.17	0-0.5	0.0
	50	28	17.26	17.11	17.12	0	0.0
	50	56	17.30	17.11	17.10	0-0.5	0.0
	100	0	17.27	17.10	17.13		0.0
DFT-s-OFDM QPSK	1	1	17.49	17.29	17.28	0	0.0
	1	53	17.34	17.19	17.20		0.0
	1	104	17.42	17.31	17.28		0.0
	50	0	17.34	17.15	17.15	0-1	0.0
	50	28	17.28	17.11	17.15	0	0.0
	50	56	17.32	17.14	17.10	0-1	0.0
	100	0	17.28	17.15	17.14		0.0
DFT-s-OFDM 16QAM	1	1	17.43	17.46	17.43	0-1	0.0
CP-OFDM QPSK	1	1	17.09	16.86	16.81	0-1.5	0.0

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Table 9-91
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	14.67	14.17	14.05	0	0.0
	1	53	14.42	13.96	14.08		0.0
	1	104	14.40	14.04	14.16		0.0
	50	0	14.52	14.03	14.02	0-0.5	0.0
	50	28	14.41	13.91	14.07	0	0.0
	50	56	14.29	13.91	14.04	0-0.5	0.0
	100	0	14.42	13.95	14.05		0.0
DFT-s-OFDM QPSK	1	1	14.61	14.36	14.25	0	0.0
	1	53	14.47	14.12	14.30		0.0
	1	104	14.42	14.25	14.60		0.0
	50	0	14.45	14.01	14.02	0-1	0.0
	50	28	14.44	13.87	14.07	0	0.0
	50	56	14.30	13.89	14.40	0-1	0.0
	100	0	14.40	13.90	14.12		0.0
DFT-s-OFDM 16QAM	1	1	14.86	14.31	14.27	0-1	0.0
CP-OFDM QPSK	1	1	14.38	13.92	13.83	0-1.5	0.0

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9.4.2 NR Band n48 Antenna I, E, C

Table 9-92

NR Band n48 Antenna I, E Measured P_{Limit} for DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack Active) – 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 I	17.95	17.93	18.08
SRS #3 Ant E	17.89	17.81	17.95

Table 9-93

NR Band n48 Antenna I, E Measured P_{Limit} for DSI = 3 (Hotspot mode) – 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 I	16.42	16.43	16.63
SRS #3 Ant E	16.37	16.34	16.47

Table 9-94

NR Band n48 Antenna I, E 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 #2 Ant I	13.88	13.87	14.08
SRS #3 Ant E	13.93	13.92	14.07

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Table 9-95
NR Band n48 Antenna C 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 #4 Ant C	13.95	13.91	14.10

9.4.3 NR Band n77 DoD Antenna F

Table 9-96
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) 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	18.84	0	0.0
	1	137	18.76		0.0
	1	271	18.70		0.0
	135	0	18.81	0-0.5	0.0
	135	69	18.80	0	0.0
	135	138	18.64	0-0.5	0.0
	270	0	18.79		0.0
DFT-s-OFDM QPSK	1	1	18.88	0	0.0
	1	137	18.74		0.0
	1	271	18.71		0.0
	135	0	18.83	0-1	0.0
	135	69	18.78	0	0.0
	135	138	18.67	0-1	0.0
	270	0	18.79		0.0
DFT-s-OFDM 16QAM	1	1	18.95	0-1	0.0
CP-OFDM QPSK	1	1	18.51	0-1.5	0.0

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Table 9-97

NR Band n77 DoD Antenna F Measured P_{Limit} for DSI = 3 (Hotspot mode) - 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	16.30	0	0.0
	1	137	16.21		0.0
	1	271	16.17		0.0
	135	0	16.26	0-0.5	0.0
	135	69	16.26	0	0.0
	135	138	16.17	0-0.5	0.0
	270	0	16.26		0.0
DFT-s-OFDM QPSK	1	1	16.38	0	0.0
	1	137	16.25		0.0
	1	271	16.15		0.0
	135	0	16.35	0-1	0.0
	135	69	16.27	0	0.0
	135	138	16.18	0-1	0.0
	270	0	16.25		0.0
DFT-s-OFDM 16QAM	1	1	16.44	0-1	0.0
CP-OFDM QPSK	1	1	15.89	0-1.5	0.0

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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	14.00	0	0.0
	1	137	13.98		0.0
	1	271	13.96		0.0
	135	0	14.07	0-0.5	0.0
	135	69	13.98	0	0.0
	135	138	13.89	0-0.5	0.0
	270	0	14.05		0.0
DFT-s-OFDM QPSK	1	1	14.04	0	0.0
	1	137	14.05		0.0
	1	271	13.98		0.0
	135	0	14.05	0-1	0.0
	135	69	13.97	0	0.0
	135	138	13.89	0-1	0.0
	270	0	13.96		0.0
DFT-s-OFDM 16QAM	1	1	14.18	0-1	0.0
CP-OFDM QPSK	1	1	13.70	0-1.5	0.0

9.4.1 NR Band n77 DoD Antenna I, E, C

Table 9-99
NR Band n77 DoD Antenna I, E Measured P_{Limit} for DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack Active) – 100 MHz Bandwidth

NR Band n77 DoD 100 MHz Bandwidth	
Channel	
Antenna	633334 (3500.01 MHz)
	Conducted Power [dBm]
SRS#2 Ant I	17.92
SRS#3 Ant E	18.03

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Table 9-100
NR Band n77 DoD Antenna I, E Measured P_{Limit} for DSI = 3 (Hotspot mode) – 100 MHz Bandwidth

NR Band n77 DoD 100 MHz Bandwidth	
Channel	
Modulation	633334 (3500.01 MHz)
	Conducted Power [dBm]
SRS#2 Ant I	15.37
SRS#3 Ant E	15.53

Table 9-101
NR Band n77 DoD Antenna I, E Measured P_{Limit} for DSI = 2 (Head) – 100 MHz Bandwidth

NR Band n77 DoD 100 MHz Bandwidth	
Channel	
Modulation	633334 (3500.01 MHz)
	Conducted Power [dBm]
SRS#2 Ant I	14.08
SRS#3 Ant E	14.17

Table 9-102
NR Band n77 DoD Antenna C 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#4 Ant C	13.92

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9.4.1 NR Band n77 C-Band Antenna F

Table 9-103

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

NR Band n77 100 MHz Bandwidth						
			Channel		MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	650000 (3750 MHz)	662000 (3930 MHz)		
			Conducted Power [dBm]			
DFT-s-OFDM $\pi/2$ BPSK	1	1	18.50	18.76	0	0.0
	1	137	18.89	18.76		0.0
	1	271	18.71	18.47		0.0
	135	0	18.68	18.66	0-0.5	0.0
	135	69	18.80	18.55	0	0.0
	135	138	18.71	18.50	0-0.5	0.0
	270	0	18.69	18.53		0.0
DFT-s-OFDM QPSK	1	1	18.66	18.82	0	0.0
	1	137	18.91	18.77		0.0
	1	271	18.77	18.50		0.0
	135	0	18.72	18.64	0-1	0.0
	135	69	18.78	18.55	0	0.0
	135	138	18.67	18.51	0-1	0.0
	270	0	18.64	18.52		0.0
DFT-s-OFDM 16QAM	1	1	18.72	18.91	0-1	0.0
CP-OFDM QPSK	1	1	18.20	18.35	0-1.5	0.0

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Table 9-104
NR Band n77 Antenna F Measured P_{Limit} for DSI = 3 (Hotspot mode) - 100 MHz Bandwidth

NR Band n77 100 MHz Bandwidth						
			Channel		MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	650000 (3750 MHz)	662000 (3930 MHz)		
			Conducted Power [dBm]			
DFT-s-OFDM $\pi/2$ BPSK	1	1	16.04	16.10	0	0.0
	1	137	16.30	16.05		0.0
	1	271	16.11	15.84		0.0
	135	0	16.11	16.02	0-0.5	0.0
	135	69	16.22	15.91	0	0.0
	135	138	16.13	15.85	0-0.5	0.0
	270	0	16.09	15.85		0.0
DFT-s-OFDM QPSK	1	1	16.09	16.14	0	0.0
	1	137	16.30	16.06		0.0
	1	271	16.21	15.83		0.0
	135	0	16.10	15.97	0-1	0.0
	135	69	16.24	15.86	0	0.0
	135	138	16.11	15.80	0-1	0.0
	270	0	16.09	15.89		0.0
DFT-s-OFDM 16QAM	1	1	16.15	16.26	0-1	0.0
CP-OFDM QPSK	1	1	15.67	15.66	0-1.5	0.0

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Table 9-105
NR Band n77 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	14.23	14.34	0	0.0
	1	137	14.79	14.38		0.0
	1	271	14.63	14.29		0.0
	135	0	14.42	14.30	0-0.5	0.0
	135	69	14.57	14.25	0	0.0
	135	138	14.58	14.28	0-0.5	0.0
	270	0	14.44	14.24		0.0
DFT-s-OFDM QPSK	1	1	14.27	14.39	0	0.0
	1	137	14.83	14.43		0.0
	1	271	14.69	14.34		0.0
	135	0	14.41	14.28	0-1	0.0
	135	69	14.57	14.23	0	0.0
	135	138	14.59	14.23	0-1	0.0
	270	0	14.44	14.21		0.0
DFT-s-OFDM 16QAM	1	1	14.02	14.56	0-1	0.0
CP-OFDM QPSK	1	1	14.15	14.09	0-1.5	0.0

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

Table 9-106
NR Band n77 Antenna I, E Measured P_{Limit} for DSI = 0 (Body-worn, or Phablet with grip sensor inactive), or DSI = 1 (Phablet with grip sensor active) and/or DSI = 4 (Earjack Active) – 100 MHz Bandwidth

NR Band n77 100 MHz Bandwidth		
Channel		
Antenna	650000 (3750 MHz)	662000 (3930 MHz)
	Conducted Power [dBm]	
SRS#2 Ant I	18.23	18.26
SRS#3 Ant E	18.42	18.31

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Table 9-107
NR Band n77 Antenna I, E Measured P_{Limit} for DSI = 3 (Hotspot mode) – 100 MHz Bandwidth

NR Band n77 100 MHz Bandwidth		
Channel		
Modulation	650000 (3750 MHz)	662000 (3930 MHz)
	Conducted Power [dBm]	
SRS#2 Ant I	15.72	15.74
SRS#3 Ant E	15.92	15.85

Table 9-108
NR Band n77 Antenna I, E Measured P_{Limit} for DSI = 2 (Head) – 100 MHz Bandwidth

NR Band n77 100 MHz Bandwidth		
Channel		
Modulation	650000 (3750 MHz)	662000 (3930 MHz)
	Conducted Power [dBm]	
SRS#2 Ant I	14.53	13.94
SRS#3 Ant E	14.15	13.77

Table 9-109
NR Band n77 Antenna C Measured P_{Limit} for all DSI – 100 MHz Bandwidth

NR Band n77 100 MHz Bandwidth		
Channel		
Antenna	650000 (3750 MHz)	662000 (3930 MHz)
	Conducted Power [dBm]	
SRS#4 Ant C	13.93	14.12

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Figure 9-4
Power Measurement Setup – NR FDD

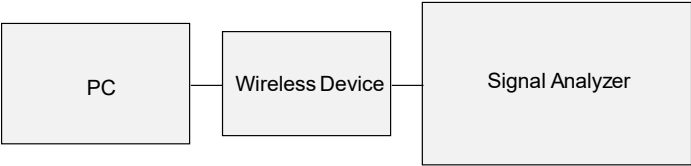


Figure 9-5
Power Measurement Setup – NR TDD

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9.5 WLAN Conducted Powers

Table 9-110
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	18.81	17.96	17.75	16.96
2437	6	18.87	17.60	17.98	16.61
2462	11	18.78	17.82	17.98	16.39

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

2.4GHz 802.11n Conducted Power [dBm]				
Freq [MHz]	Channel	ANT1	ANT2	MIMO
2412	1	17.77	17.75	20.77
2437	6	17.99	17.98	21.00
2462	11	17.65	17.98	20.83

Table 9-112
2.4 GHz WLAN Reduced Average RF Power with RCV Active and/or During Conditions with 5 GHz WLAN and/or 5G NR – Ant 2

2.4GHz Conducted Power [dBm]					
Freq [MHz]	Channel	IEEE Transmission Mode			
		802.11b	802.11g	802.11n	802.11ax
		Average	Average	Average	Average
2412	1	12.57	12.69	12.70	12.38
2437	6	12.93	12.80	12.49	12.44
2462	11	12.95	12.52	12.17	12.28

Table 9-113
2.4 GHz WLAN Reduced Average RF Power with RCV Active and/or During Conditions with 5 GHz WLAN and/or 5G NR – MIMO

2.4GHz 802.11n Conducted Power [dBm]				
Freq [MHz]	Channel	ANT1	ANT2	MIMO
2412	1	12.79	12.70	15.76
2437	6	12.70	12.49	15.61
2462	11	12.80	12.17	15.51

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Table 9-114
5 GHz WLAN Maximum Average RF Power – Ant 1
5GHz (20MHz) Conducted Power [dBm]

Freq [MHz]	Channel	IEEE Transmission Mode			
		802.11a	802.11n	802.11ac	802.11ax
		Average	Average	Average	Average
5180	36	17.91	17.79	17.90	16.98
5200	40	17.65	17.70	17.71	16.97
5220	44	17.73	17.76	17.76	16.83
5240	48	17.64	17.92	17.88	16.85
5260	52	17.74	17.94	17.89	16.71
5280	56	17.97	17.97	17.97	16.87
5300	60	17.76	17.72	17.70	16.84
5320	64	17.78	17.64	17.78	16.62
5500	100	17.86	17.90	17.91	16.83
5600	120	17.91	17.90	17.99	16.72
5620	124	17.80	17.76	17.74	16.87
5720	144	17.89	17.80	17.76	16.77
5745	149	17.56	17.98	17.93	16.90
5785	157	17.84	17.74	17.63	16.78
5825	165	17.69	17.65	17.59	16.98
5845	169	17.79	17.64	17.71	16.79
5865	173	17.64	17.52	17.97	16.93
5885	177	17.88	17.72	17.70	16.85

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Table 9-115
5 GHz WLAN Maximum Average RF Power – MIMO

5GHz (20MHz) 802.11n Conducted Power [dBm]				
Freq [MHz]	Channel	ANT1	ANT2	MIMO
5180	36	17.79	17.88	20.85
5200	40	17.70	17.86	20.79
5220	44	17.76	17.96	20.87
5240	48	17.92	17.69	20.82
5260	52	17.94	17.65	20.81
5280	56	17.97	17.57	20.78
5300	60	17.72	17.61	20.68
5320	64	17.64	17.98	20.82
5500	100	17.90	17.71	20.82
5600	120	17.90	17.58	20.75
5620	124	17.76	17.74	20.76
5720	144	17.80	17.75	20.79
5745	149	17.98	17.97	20.99
5785	157	17.74	17.94	20.85
5825	165	17.65	17.64	20.66
5845	169	17.64	17.55	20.61
5865	173	17.52	17.54	20.54
5885	177	17.72	17.92	20.83

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Table 9-116

5 GHz WLAN Reduced Average RF Power with RCV Active and/or During Conditions with 2.4 GHz WLAN and/or 5G NR - Ant 1

5GHz (80MHz) Conducted Power [dBm]			
Freq [MHz]	Channel	IEEE Transmission Mode	
		802.11ac	802.11ax
		Average	Average
5210	42	10.65	10.64
5290	58	10.68	10.49
5530	106	10.76	10.49
5610	122	10.80	10.42
5690	138	10.71	10.89
5775	155	10.68	10.57
5855	171	10.92	10.60

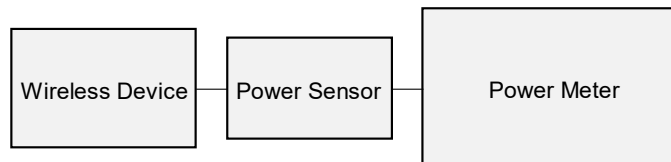
Table 9-117

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

5GHz (80MHz) 802.11ac Conducted Power [dBm]				
Freq [MHz]	Channel	ANT1	ANT2	MIMO
5210	42	10.65	10.59	13.63
5290	58	10.68	10.44	13.57
5530	106	10.76	10.79	13.79
5610	122	10.80	10.70	13.76
5690	138	10.71	10.81	13.77
5775	155	10.68	10.79	13.75
5855	171	10.92	10.95	13.95

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.



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Figure 9-6
Power Measurement Setup

9.6 Bluetooth Conducted Powers

Table 9-118
Bluetooth Maximum Average RF Power– Antenna 1

Frequency [MHz]	Data Rate [Mbps]	Mod.	Power Scheme	Channel No.	Avg Conducted Power	
					[dBm]	[mW]
2402	1.0	GFSK	ePA	0	17.23	52.871
2441	1.0	GFSK	ePA	39	17.43	55.271
2480	1.0	GFSK	ePA	78	15.58	36.122
2402	2.0	$\pi/4$ -DQPSK	ePA	0	13.15	20.652
2441	2.0	$\pi/4$ -DQPSK	ePA	39	13.24	21.066
2480	2.0	$\pi/4$ -DQPSK	ePA	78	11.28	13.417
2402	3.0	8DPSK	ePA	0	13.07	20.279
2441	3.0	8DPSK	ePA	39	13.32	21.487
2480	3.0	8DPSK	ePA	78	11.36	13.666

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Table 9-119
Bluetooth Maximum Average RF Power– Antenna 2

Frequency [MHz]	Data Rate [Mbps]	Mod.	Power Scheme	Channel No.	Avg Conducted Power	
					[dBm]	[mW]
2402	1.0	GFSK	ePA	0	15.93	39.203
2441	1.0	GFSK	ePA	39	15.66	36.793
2480	1.0	GFSK	ePA	78	14.51	28.250
2402	2.0	$\pi/4$ -DQPSK	ePA	0	11.73	14.900
2441	2.0	$\pi/4$ -DQPSK	ePA	39	11.31	13.532
2480	2.0	$\pi/4$ -DQPSK	ePA	78	10.05	10.105
2402	3.0	8DPSK	ePA	0	11.65	14.609
2441	3.0	8DPSK	ePA	39	11.39	13.772
2480	3.0	8DPSK	ePA	78	10.12	10.276

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Table 9-120
Bluetooth Reduced Average RF Power (RCV Active) – Antenna 1

Frequency [MHz]	Data Rate [Mbps]	Mod.	Power Scheme	Channel No.	Avg Conducted Power	
					[dBm]	[mW]
2402	1.0	GFSK	ePA	0	10.67	11.668
2441	1.0	GFSK	ePA	39	11.45	13.964
2480	1.0	GFSK	ePA	78	9.98	9.954

Table 9-121
Bluetooth Reduced Average RF Power (RCV Active) – Antenna 2

Frequency [MHz]	Data Rate [Mbps]	Mod.	Power Scheme	Channel No.	Avg Conducted Power	
					[dBm]	[mW]
2402	1.0	GFSK	ePA	0	10.19	10.447
2441	1.0	GFSK	ePA	39	10.18	10.423
2480	1.0	GFSK	ePA	78	9.64	9.204

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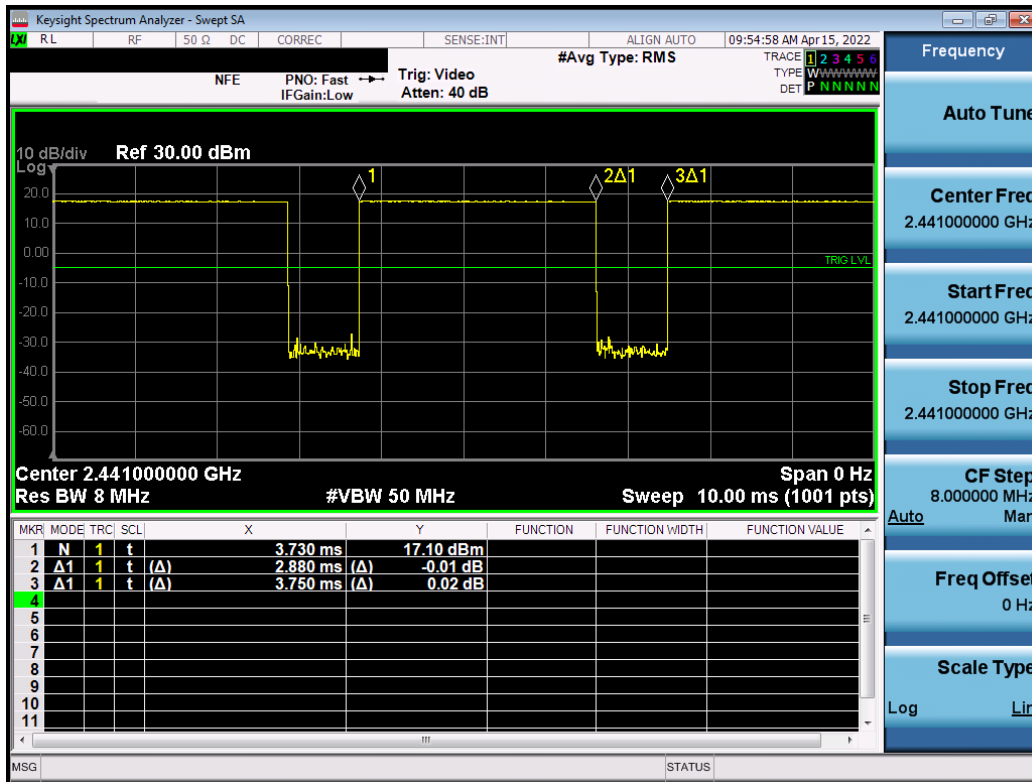


Figure 9-7
Bluetooth Antenna 1 Transmission Plot

Equation 9-1
Bluetooth Antenna 1 Duty Cycle Calculation

$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.88\text{ms}}{3.750\text{ms}} * 100\% = 76.80\%$$

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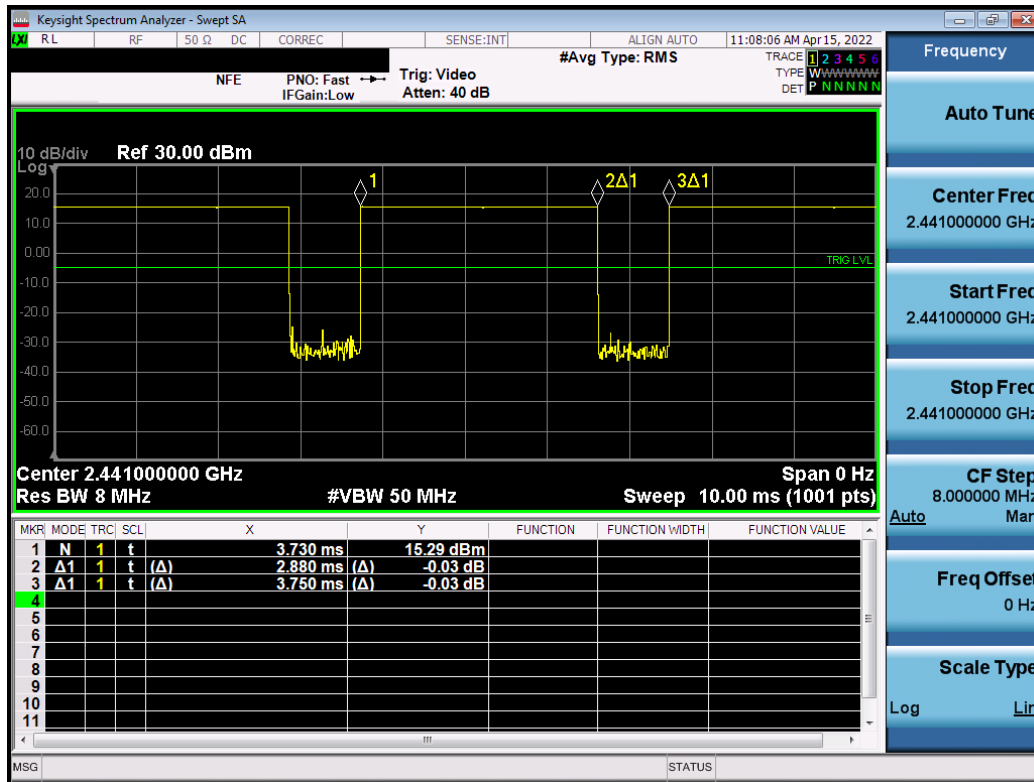


Figure 9-8
Bluetooth Antenna 2 Transmission Plot

Equation 9-2
Bluetooth Antenna 2 Duty Cycle Calculation

$$Duty Cycle = \frac{Pulse Width}{Period} * 100\% = \frac{2.88ms}{3.75ms} * 100\% = 76.80\%$$

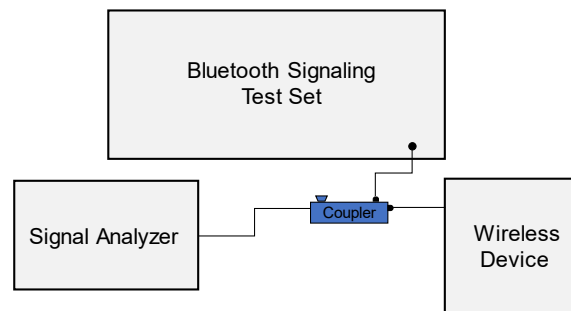


Figure 9-9
Power Measurement Setup

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10 SYSTEM VERIFICATION

10.1 Tissue Verification

Table 10-1
Measured Head Tissue Properties

Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ϵ	% dev σ	% dev ϵ
06/09/2022	30 Head	21.5	12	0.762	52.265	0.750	55.000	1.60%	-4.97%
			13	0.762	52.537	0.750	55.000	1.60%	-4.48%
			14	0.762	52.681	0.750	55.000	1.60%	-4.22%
			30	0.764	53.410	0.750	55.000	1.87%	-2.89%
			60	0.769	53.180	0.753	54.325	2.12%	-2.11%
			65	0.771	53.096	0.753	54.213	2.38%	-2.06%
04/21/2022	750 Head	21.0	680	0.870	44.038	0.888	42.305	-2.03%	4.10%
			695	0.875	44.000	0.889	42.227	-1.57%	4.20%
			700	0.877	43.988	0.889	42.201	-1.35%	4.23%
			710	0.880	43.962	0.890	42.149	-1.12%	4.30%
			725	0.886	43.929	0.891	42.071	-0.56%	4.42%
			750	0.894	43.886	0.894	41.942	0.00%	4.63%
			770	0.901	43.844	0.895	41.838	0.67%	4.79%
			785	0.907	43.804	0.896	41.760	1.23%	4.89%
			800	0.912	43.763	0.897	41.682	1.67%	4.99%
			850	0.861	43.130	0.888	42.305	-3.04%	1.95%
04/27/2022	750 Head	20.0	685	0.867	43.104	0.889	42.227	-2.47%	2.08%
			700	0.869	43.096	0.889	42.201	-2.28%	2.12%
			710	0.872	43.077	0.890	42.149	-2.02%	2.20%
			725	0.877	43.032	0.891	42.071	-1.57%	2.28%
			750	0.886	42.947	0.894	41.942	-0.89%	2.40%
			770	0.892	42.891	0.895	41.838	-0.34%	2.52%
			785	0.897	42.853	0.896	41.760	0.11%	2.62%
			800	0.903	42.820	0.897	41.682	0.67%	2.73%
			850	0.892	42.015	0.888	42.305	0.45%	-0.69%
			865	0.897	41.980	0.889	42.227	0.90%	-0.58%
04/29/2022	750 Head	21.9	700	0.899	41.969	0.889	42.201	1.12%	-0.55%
			710	0.902	41.944	0.890	42.149	1.35%	-0.49%
			725	0.906	41.901	0.891	42.071	1.68%	-0.40%
			750	0.915	41.828	0.894	41.942	2.35%	-0.27%
			770	0.921	41.778	0.895	41.838	2.91%	-0.15%
			785	0.926	41.743	0.896	41.760	3.35%	-0.04%
			800	0.931	41.707	0.897	41.682	3.79%	0.06%
			850	0.887	42.994	0.888	42.305	-0.11%	1.63%
			865	0.891	42.965	0.889	42.227	0.22%	1.75%
			700	0.893	42.955	0.889	42.201	0.45%	1.79%
05/31/2022	750 Head	22.5	710	0.897	42.925	0.890	42.149	0.79%	1.84%
			725	0.902	42.878	0.891	42.071	1.23%	1.92%
			750	0.910	42.812	0.894	41.942	1.79%	2.07%
			770	0.916	42.756	0.895	41.838	2.35%	2.19%
			785	0.921	42.704	0.896	41.760	2.79%	2.26%
			800	0.926	42.647	0.897	41.682	3.23%	2.32%
			815	0.920	43.196	0.898	41.594	2.45%	3.85%
			820	0.922	43.179	0.899	41.578	2.56%	3.85%
			835	0.928	43.130	0.900	41.500	3.11%	3.93%
			850	0.933	43.093	0.916	41.500	1.86%	3.84%
04/26/2022	835 Head	21.1	815	0.934	40.947	0.898	41.594	4.01%	-1.56%
			820	0.936	40.937	0.899	41.578	4.12%	-1.54%
			835	0.942	40.906	0.900	41.500	4.67%	-1.43%
			850	0.947	40.866	0.916	41.500	3.38%	-1.53%
			815	0.933	42.512	0.898	41.594	3.90%	2.21%
			820	0.934	42.499	0.899	41.578	3.89%	2.22%
			835	0.940	42.466	0.900	41.500	4.44%	2.33%
			850	0.945	42.450	0.916	41.500	3.17%	2.29%
			1710	1.284	38.922	1.348	40.142	-4.75%	-3.04%
			1720	1.295	38.873	1.354	40.126	-4.36%	-3.12%
04/20/2022	1750 Head	21.0	1745	1.322	38.760	1.368	40.087	-3.36%	-3.31%
			1750	1.327	38.737	1.371	40.079	-3.21%	-3.35%
			1770	1.348	38.641	1.383	40.047	-2.53%	-3.51%
			1790	1.367	38.537	1.394	40.016	-1.94%	-3.70%
			1710	1.318	41.517	1.348	40.142	-2.23%	3.43%
			1720	1.324	41.504	1.354	40.126	-2.22%	3.43%
			1745	1.339	41.474	1.368	40.087	-2.12%	3.46%
			1750	1.341	41.467	1.371	40.079	-2.19%	3.46%
			1770	1.351	41.420	1.383	40.047	-2.31%	3.43%
			1790	1.363	41.376	1.394	40.016	-2.22%	3.40%
05/30/2022	1750 Head	21.5	1710	1.339	41.375	1.348	40.142	-0.67%	3.07%
			1720	1.346	41.363	1.354	40.126	-0.59%	3.08%
			1745	1.361	41.345	1.368	40.087	-0.51%	3.14%
			1750	1.363	41.342	1.371	40.079	-0.58%	3.15%
			1770	1.374	41.309	1.383	40.047	-0.65%	3.15%
			1790	1.385	41.272	1.394	40.016	-0.65%	3.14%
			1850	1.342	39.034	1.400	40.000	-4.14%	-2.42%
			1860	1.352	38.994	1.400	40.000	-3.43%	-2.52%
			1880	1.371	38.923	1.400	40.000	-2.07%	-2.69%
			1900	1.391	38.848	1.400	40.000	-0.64%	-2.88%
04/14/2022	1900 Head	23.6	1905	1.396	38.830	1.400	40.000	-0.29%	-2.93%
			1910	1.401	38.811	1.400	40.000	0.07%	-2.97%
			1850	1.378	39.755	1.400	40.000	-1.57%	-0.61%
			1860	1.388	39.710	1.400	40.000	-0.86%	-0.72%
			1880	1.409	39.618	1.400	40.000	0.64%	-0.95%
			1900	1.429	39.525	1.400	40.000	2.07%	-1.19%
			1905	1.435	39.502	1.400	40.000	2.50%	-1.24%
			1910	1.440	39.482	1.400	40.000	2.86%	-1.30%
			1850	1.392	38.860	1.400	40.000	-0.57%	-2.85%
			1860	1.402	38.817	1.400	40.000	0.14%	-2.98%
06/02/2022	1900 Head	21.8	1880	1.422	38.729	1.400	40.000	1.57%	-3.18%
			1900	1.443	38.638	1.400	40.000	3.07%	-3.41%
			1905	1.448	38.615	1.400	40.000	3.43%	-3.46%
			1910	1.453	38.593	1.400	40.000	3.79%	-3.52%

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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
05/01/2022	2450 Head	23.5	2300	1.630	38.821	1.670	39.500	-2.40%	-1.72%
			2310	1.640	38.771	1.679	39.480	-2.32%	-1.80%
			2320	1.651	38.730	1.687	39.460	-2.13%	-1.85%
			2400	1.735	38.485	1.756	39.289	-1.20%	-2.05%
			2450	1.792	38.329	1.800	39.200	-0.44%	-2.22%
			2480	1.820	38.223	1.833	39.162	-0.71%	-2.40%
			2500	1.840	38.126	1.855	39.136	-0.81%	-2.58%
			2510	1.851	38.087	1.866	39.123	-0.80%	-2.65%
			2535	1.881	38.021	1.893	39.092	-0.63%	-2.74%
			2550	1.890	37.985	1.909	39.073	-0.52%	-2.78%
			2560	1.909	37.955	1.920	39.060	-0.57%	-2.83%
			2600	1.948	37.786	1.964	39.009	-0.81%	-3.14%
			2650	2.005	37.640	2.018	38.945	-0.59%	-3.35%
			2680	2.034	37.522	2.051	38.907	-0.83%	-3.56%
			2700	2.054	37.442	2.073	38.882	-0.92%	-3.70%
05/04/2022	2450 Head	22.9	2300	1.714	39.770	1.670	39.500	2.63%	-1.85%
			2310	1.724	38.726	1.679	39.480	2.68%	-1.91%
			2320	1.735	38.684	1.687	39.460	2.85%	-1.97%
			2400	1.822	38.421	1.756	39.289	3.76%	-2.21%
			2450	1.876	38.238	1.800	39.200	4.22%	-2.45%
			2480	1.909	38.133	1.833	39.162	4.15%	-2.63%
			2500	1.929	38.061	1.855	39.136	3.99%	-2.75%
			2510	1.940	38.023	1.866	39.123	3.97%	-2.81%
			2535	1.968	37.930	1.893	39.092	3.96%	-2.97%
			2550	1.986	37.873	1.909	39.073	4.03%	-3.07%
			2560	1.998	37.836	1.920	39.060	4.06%	-3.13%
			2600	2.040	37.687	1.964	39.009	3.87%	-3.39%
			2650	2.097	37.473	2.018	38.945	3.91%	-3.78%
			2680	2.131	37.379	2.051	38.907	3.90%	-3.93%
			2700	2.149	37.305	2.073	38.882	3.67%	-4.06%
05/09/2022	2450 Head	23.0	2300	1.735	38.279	1.670	39.500	3.89%	-3.09%
			2310	1.744	38.267	1.679	39.480	3.87%	-3.07%
			2320	1.752	38.255	1.687	39.460	3.85%	-3.05%
			2400	1.810	38.119	1.756	39.289	3.08%	-2.98%
			2450	1.851	38.054	1.800	39.200	2.83%	-2.92%
			2480	1.873	38.018	1.833	39.162	2.18%	-2.92%
			2500	1.887	37.977	1.855	39.136	1.73%	-2.96%
			2510	1.895	37.956	1.866	39.123	1.55%	-2.98%
			2535	1.915	37.905	1.893	39.092	1.16%	-3.04%
			2550	1.928	37.884	1.909	39.073	1.00%	-3.04%
			2560	1.937	37.875	1.920	39.060	0.89%	-3.03%
			2600	1.967	37.837	1.964	39.009	0.15%	-3.00%
			2650	2.005	37.751	2.018	38.945	-0.64%	-3.07%
			2680	2.031	37.702	2.051	38.907	-0.98%	-3.10%
			2700	2.047	37.678	2.073	38.882	-1.25%	-3.10%
05/11/2022	2450 Head	21.0	2300	1.745	40.566	1.670	39.500	4.49%	2.70%
			2310	1.753	40.550	1.679	39.480	4.41%	2.71%
			2320	1.762	40.537	1.687	39.460	4.45%	2.73%
			2400	1.828	40.420	1.756	39.289	4.10%	2.88%
			2450	1.873	40.336	1.800	39.200	4.06%	2.90%
			2480	1.897	40.292	1.833	39.162	3.49%	2.89%
			2500	1.913	40.253	1.855	39.136	3.13%	2.85%
			2510	1.922	40.232	1.866	39.123	3.00%	2.83%
			2535	1.945	40.177	1.893	39.092	2.75%	2.78%
			2550	1.959	40.152	1.909	39.073	2.62%	2.76%
			2560	1.968	40.138	1.920	39.060	2.50%	2.76%
			2600	2.002	40.075	1.964	39.009	1.93%	2.73%
			2650	2.045	39.974	2.018	38.945	1.34%	2.64%
			2680	2.072	39.914	2.051	38.907	1.02%	2.59%
			2700	2.087	39.878	2.073	38.882	0.68%	2.56%
05/15/2022	2450 Head	22.7	2300	1.661	39.890	1.670	39.500	-0.54%	0.99%
			2310	1.671	39.864	1.679	39.480	-0.48%	0.97%
			2320	1.680	39.828	1.687	39.460	-0.41%	0.93%
			2400	1.765	39.562	1.756	39.289	0.51%	0.69%
			2450	1.811	39.334	1.800	39.200	0.61%	0.34%
			2480	1.847	39.259	1.833	39.162	0.76%	0.25%
			2500	1.867	39.213	1.855	39.136	0.65%	0.20%
			2510	1.876	39.174	1.866	39.123	0.54%	0.13%
			2535	1.898	39.041	1.893	39.092	0.26%	-0.13%
			2550	1.916	38.972	1.909	39.073	0.37%	-0.26%
			2560	1.929	38.944	1.920	39.060	0.47%	-0.30%
			2600	1.976	38.864	1.964	39.009	0.61%	-0.37%
			2650	2.025	38.604	2.018	38.945	0.35%	-0.88%
			2680	2.065	38.554	2.051	38.907	0.68%	-0.91%
			2700	2.083	38.515	2.073	38.882	0.48%	-0.94%
05/22/2022	2450 Head	22.0	2300	1.704	38.938	1.670	39.500	2.04%	-1.42%
			2310	1.714	38.896	1.679	39.480	2.08%	-1.47%
			2320	1.725	38.861	1.687	39.460	2.25%	-1.52%
			2400	1.811	38.581	1.756	39.289	3.13%	-1.80%
			2450	1.866	38.399	1.800	39.200	3.67%	-2.04%
			2480	1.898	38.289	1.833	39.162	3.55%	-2.23%
			2500	1.920	38.209	1.855	39.136	3.50%	-2.37%
			2510	1.931	38.171	1.866	39.123	3.48%	-2.43%
			2535	1.957	38.078	1.893	39.092	3.38%	-2.59%
			2550	1.974	38.022	1.909	39.073	3.40%	-2.69%
			2560	1.985	37.984	1.920	39.060	3.39%	-2.75%
			2600	2.027	37.827	1.964	39.009	3.21%	-3.03%
			2650	2.080	37.642	2.018	38.945	3.07%	-3.35%
			2680	2.111	37.529	2.051	38.907	2.93%	-3.54%
			2700	2.130	37.460	2.073	38.882	2.75%	-3.66%
05/25/2022	2450 Head	22.8	2300	1.702	39.504	1.670	39.500	1.82%	0.01%
			2310	1.712	39.466	1.679	39.480	1.97%	-0.04%
			2320	1.723	39.430	1.687	39.460	2.13%	-0.08%
			2400	1.810	39.148	1.756	39.289	3.08%	-0.36%
			2450	1.865	38.960	1.800	39.200	3.61%	-0.61%
			2480	1.898	38.856	1.833	39.162	3.55%	-0.78%
			2500	1.919	38.784	1.855	39.136	3.45%	-0.90%
			2510	1.930	38.749	1.866	39.123	3.43%	-0.96%
			2535	1.958	38.656	1.893	39.092	3.43%	-1.12%
			2550	1.975	38.596	1.909	39.073	3.46%	-1.22%
			2560	1.986	38.562	1.920	39.060	3.44%	-1.27%
			2600	2.030	38.427	1.964	39.009	3.36%	-1.49%
			2650	2.084	38.233	2.018	38.945	3.27%	-1.83%
			2680	2.110	38.136	2.051	38.907	3.32%	-1.98%
			2700	2.139	38.069	2.073	38.882	3.18%	-2.09%

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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
04/21/2022	3600 Head	20.2	3300	2.648	39.424	2.708	38.157	-2.22%	3.32%
			3350	2.691	39.326	2.759	38.100	-2.46%	3.22%
			3450	2.784	39.130	2.861	37.986	-2.69%	3.01%
			3500	2.836	39.041	2.913	37.929	-2.64%	2.93%
			3550	2.879	38.945	2.964	37.871	-2.87%	2.84%
			3560	2.891	38.926	2.974	37.860	-2.79%	2.82%
			3600	2.931	38.879	3.015	37.814	-2.79%	2.82%
			3650	2.976	38.754	3.066	37.757	-2.94%	2.64%
			3690	3.015	38.712	3.107	37.711	-2.96%	2.65%
			3700	3.025	38.694	3.117	37.700	-2.95%	2.64%
			3750	3.074	38.599	3.169	37.643	-3.00%	2.54%
			3900	3.223	38.363	3.323	37.471	-3.01%	2.38%
			3930	3.257	38.281	3.353	37.437	-2.86%	2.25%
			4100	3.432	38.022	3.528	37.243	-2.72%	2.09%
			4150	3.495	37.951	3.579	37.186	-2.35%	2.06%
			3300	2.627	39.984	2.708	38.157	-2.99%	4.79%
05/02/2022	3600 Head	21.0	3350	2.673	39.904	2.759	38.100	-3.12%	4.73%
			3450	2.767	39.724	2.861	37.986	-3.29%	4.58%
			3500	2.815	39.649	2.913	37.929	-3.36%	4.53%
			3550	2.862	39.553	2.964	37.871	-3.44%	4.44%
			3560	2.872	39.528	2.974	37.860	-3.43%	4.41%
			3600	2.911	39.470	3.015	37.814	-3.45%	4.38%
			3650	2.959	39.370	3.066	37.757	-3.49%	4.27%
			3690	2.998	39.321	3.107	37.711	-3.51%	4.27%
			3700	3.009	39.286	3.117	37.700	-3.46%	4.21%
			3750	3.063	39.198	3.169	37.643	-3.34%	4.13%
			3900	3.210	38.971	3.323	37.471	-3.40%	4.00%
			3930	3.248	38.911	3.353	37.437	-3.13%	3.94%
			4100	3.428	38.635	3.528	37.243	-2.83%	3.74%
			4150	3.488	38.578	3.579	37.186	-2.54%	3.74%
			3300	2.619	39.641	2.708	38.157	-3.29%	3.89%
			3350	2.664	39.548	2.759	38.100	-3.44%	3.80%
05/28/2022	3600 Head	20.8	3450	2.758	39.375	2.861	37.986	-3.60%	3.66%
			3500	2.802	39.294	2.913	37.929	-3.81%	3.60%
			3550	2.847	39.199	2.964	37.871	-3.95%	3.51%
			3560	2.859	39.175	2.974	37.860	-3.90%	3.47%
			3600	2.897	39.116	3.015	37.814	-3.91%	3.44%
			3650	2.946	39.025	3.066	37.757	-3.91%	3.36%
			3690	2.983	38.963	3.107	37.711	-3.99%	3.32%
			3700	2.992	38.950	3.117	37.700	-4.01%	3.32%
			3750	3.044	38.873	3.169	37.643	-3.94%	3.27%
			3900	3.194	38.615	3.323	37.471	-3.88%	3.05%
			3930	3.227	38.572	3.353	37.437	-3.76%	3.03%
			4100	3.408	38.280	3.528	37.243	-3.40%	2.78%
			4150	3.461	38.212	3.579	37.186	-3.30%	2.76%
			5180	4.558	35.629	4.635	36.009	-1.66%	-1.08%
			5190	4.568	35.603	4.645	35.998	-1.66%	-1.10%
			5200	4.582	35.575	4.655	35.986	-1.57%	-1.14%
05/19/2022	5200-5800 Head	22.2	5210	4.595	35.562	4.666	35.975	-1.52%	-1.15%
			5220	4.606	35.532	4.676	35.963	-1.50%	-1.20%
			5240	4.631	35.507	4.696	35.940	-1.38%	-1.20%
			5250	4.643	35.498	4.706	35.929	-1.34%	-1.20%
			5260	4.655	35.487	4.717	35.917	-1.31%	-1.20%
			5270	4.669	35.464	4.727	35.906	-1.23%	-1.23%
			5280	4.683	35.445	4.737	35.894	-1.14%	-1.25%
			5290	4.694	35.429	4.748	35.883	-1.14%	-1.27%
			5300	4.703	35.419	4.758	35.871	-1.16%	-1.26%
			5310	4.708	35.407	4.768	35.860	-1.26%	-1.26%
			5320	4.716	35.389	4.778	35.849	-1.30%	-1.28%
			5500	4.939	35.105	4.963	35.643	-0.48%	-1.51%
			5510	4.952	35.103	4.973	35.632	-0.42%	-1.48%
			5520	4.963	35.101	4.983	35.620	-0.40%	-1.46%
			5530	4.970	35.099	4.994	35.609	-0.48%	-1.43%
			5540	4.976	35.082	5.004	35.597	-0.56%	-1.45%
			5550	4.982	35.058	5.014	35.586	-0.64%	-1.48%
			5560	4.994	35.032	5.024	35.574	-0.60%	-1.52%
			5580	5.026	34.984	5.045	35.551	-0.38%	-1.59%
			5600	5.056	34.949	5.065	35.529	-0.18%	-1.63%
			5610	5.071	34.948	5.076	35.518	-0.10%	-1.60%
			5620	5.081	34.945	5.086	35.506	-0.10%	-1.58%
			5640	5.098	34.922	5.106	35.483	-0.16%	-1.58%
			5660	5.112	34.883	5.127	35.460	-0.29%	-1.63%
			5670	5.121	34.854	5.137	35.449	-0.31%	-1.68%
			5680	5.135	34.830	5.147	35.437	-0.23%	-1.71%
			5690	5.150	34.809	5.158	35.426	-0.16%	-1.74%
			5700	5.165	34.792	5.168	35.414	-0.06%	-1.76%
			5710	5.179	34.772	5.178	35.403	0.02%	-1.78%
			5720	5.192	34.759	5.188	35.391	0.08%	-1.79%
			5745	5.213	34.727	5.214	35.363	-0.02%	-1.80%
			5750	5.217	34.718	5.219	35.357	-0.04%	-1.81%
			5755	5.222	34.708	5.224	35.351	-0.04%	-1.82%
			5765	5.233	34.684	5.234	35.340	-0.02%	-1.86%
			5775	5.247	34.661	5.245	35.329	0.04%	-1.89%
			5785	5.261	34.636	5.255	35.317	0.11%	-1.93%
			5795	5.274	34.616	5.265	35.305	0.17%	-1.95%
			5805	5.285	34.589	5.275	35.294	0.19%	-2.00%
			5825	5.311	34.542	5.296	35.271	0.28%	-2.07%
			5835	5.323	34.536	5.305	35.230	0.34%	-1.97%
			5845	5.331	34.529	5.315	35.210	0.30%	-1.93%
			5855	5.336	34.512	5.325	35.197	0.21%	-1.95%
			5875	5.355	34.451	5.347	35.183	0.15%	-2.08%
			5885	5.367	34.426	5.357	35.177	0.19%	-2.13%
			5905	5.391	34.377	5.379	35.163	0.22%	-2.24%

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Table 10-4
Measured Body Tissue Properties

Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ϵ	% dev σ	% dev ϵ
04/25/2022	750 Body	20.3	680	0.926	55.257	0.958	55.804	-3.34%	-0.98%
			695	0.931	55.235	0.959	55.745	-2.92%	-0.91%
			700	0.933	55.227	0.959	55.726	-2.71%	-0.90%
			710	0.936	55.203	0.960	55.687	-2.50%	-0.87%
			725	0.942	55.153	0.961	55.629	-1.98%	-0.86%
			750	0.950	55.082	0.964	55.531	-1.45%	-0.81%
			770	0.958	55.056	0.965	55.453	-0.73%	-0.72%
			785	0.963	55.041	0.966	55.395	-0.31%	-0.64%
			800	0.969	55.015	0.967	55.336	0.21%	-0.58%
05/03/2022	750 Body	21.8	680	0.959	54.234	0.958	55.804	0.10%	-2.81%
			695	0.965	54.207	0.959	55.745	0.63%	-2.76%
			700	0.966	54.200	0.959	55.726	0.73%	-2.74%
			710	0.970	54.180	0.960	55.687	1.04%	-2.71%
			725	0.975	54.147	0.961	55.629	1.46%	-2.66%
			750	0.984	54.081	0.964	55.531	2.07%	-2.61%
			770	0.991	54.038	0.965	55.453	2.69%	-2.55%
			785	0.997	54.011	0.966	55.395	3.21%	-2.50%
			800	1.002	53.984	0.967	55.336	3.62%	-2.44%
05/09/2022	750 Body	21.1	680	0.927	55.160	0.958	55.804	-3.24%	-1.15%
			695	0.931	55.133	0.959	55.745	-2.92%	-1.10%
			700	0.933	55.122	0.959	55.726	-2.71%	-1.08%
			710	0.936	55.099	0.960	55.687	-2.50%	-1.06%
			725	0.941	55.071	0.961	55.629	-2.08%	-1.00%
			750	0.951	55.029	0.964	55.531	-1.35%	-0.90%
			770	0.959	55.010	0.965	55.453	-0.62%	-0.80%
			785	0.965	54.980	0.966	55.395	-0.10%	-0.75%
			800	0.972	54.940	0.967	55.336	0.52%	-0.72%
06/02/2022	750 Body	22.1	680	0.944	54.109	0.958	55.804	-1.46%	-3.04%
			695	0.950	54.072	0.959	55.745	-0.94%	-3.00%
			700	0.951	54.060	0.959	55.726	-0.83%	-2.99%
			710	0.955	54.035	0.960	55.687	-0.52%	-2.97%
			725	0.960	53.997	0.961	55.629	-0.10%	-2.93%
			750	0.969	53.944	0.964	55.531	0.52%	-2.86%
			770	0.976	53.905	0.965	55.453	1.14%	-2.79%
			785	0.982	53.867	0.966	55.395	1.66%	-2.76%
			800	0.988	53.831	0.967	55.336	2.17%	-2.72%
04/21/2022	835 Body	20.0	815	0.965	54.407	0.968	55.271	-0.31%	-1.56%
			820	0.967	54.395	0.969	55.258	-0.21%	-1.56%
			835	0.973	54.359	0.970	55.200	0.31%	-1.52%
05/02/2022	835 Body	21.5	850	0.979	54.332	0.988	55.154	-0.91%	-1.49%
			815	1.008	54.635	0.968	55.271	4.13%	-1.15%
			820	1.009	54.609	0.969	55.258	4.13%	-1.17%
05/11/2022	835 Body	21.1	835	1.014	54.539	0.970	55.200	4.54%	-1.20%
			850	1.021	54.520	0.988	55.154	3.34%	-1.15%
			815	1.010	53.470	0.968	55.271	4.34%	-3.26%
05/12/2022	835 Body	21.1	820	1.012	53.457	0.969	55.258	4.44%	-3.26%
			835	1.018	53.427	0.970	55.200	4.95%	-3.21%
			850	1.024	53.403	0.988	55.154	3.64%	-3.17%
05/17/2022	835 Body	20.9	815	1.007	52.839	0.968	55.271	4.03%	-4.40%
			820	1.009	52.824	0.969	55.258	4.13%	-4.40%
			835	1.015	52.793	0.970	55.200	4.64%	-4.36%
05/23/2022	835 Body	21.5	850	1.021	52.769	0.988	55.154	3.34%	-4.32%
			815	1.005	54.030	0.968	55.271	3.82%	-2.25%
			820	1.007	54.019	0.969	55.258	3.92%	-2.24%
04/23/2022	1750 Body	21.2	835	1.013	53.987	0.970	55.200	4.43%	-2.20%
			850	1.019	53.962	0.988	55.154	3.14%	-2.16%
			815	0.920	56.016	0.968	55.271	-4.96%	1.35%
04/26/2022	1750 Body	21.3	820	0.926	55.976	0.969	55.258	-4.44%	1.30%
			835	0.942	55.850	0.970	55.200	-2.89%	1.18%
			850	0.957	55.709	0.988	55.154	-3.14%	1.01%
04/28/2022	1750 Body	21.3	1710	1.444	54.015	1.463	53.537	-1.30%	0.89%
			1720	1.456	53.980	1.469	53.511	-0.88%	0.88%
			1745	1.483	53.897	1.485	53.445	-0.13%	0.85%
	1750 Body	21.3	1750	1.489	53.879	1.488	53.432	0.07%	0.84%
			1770	1.509	53.809	1.501	53.379	0.53%	0.81%
			1790	1.530	53.733	1.514	53.326	1.06%	0.76%
	1750 Body	21.3	1710	1.459	53.701	1.463	53.537	-0.27%	0.31%
			1720	1.470	53.663	1.469	53.511	0.07%	0.28%
			1745	1.497	53.567	1.485	53.445	0.81%	0.23%
	1750 Body	21.3	1750	1.502	53.549	1.488	53.432	0.94%	0.22%
			1770	1.523	53.473	1.501	53.379	1.47%	0.18%
			1790	1.544	53.388	1.514	53.326	1.98%	0.12%
	1750 Body	21.3	1710	1.462	52.085	1.463	53.537	-0.07%	-2.71%
			1720	1.473	52.050	1.469	53.511	0.27%	-2.73%
			1745	1.501	51.962	1.485	53.445	1.08%	-2.77%
	1750 Body	21.3	1750	1.506	51.944	1.488	53.432	1.21%	-2.78%
			1770	1.528	51.865	1.501	53.379	1.80%	-2.84%
			1790	1.549	51.783	1.514	53.326	2.31%	-2.89%

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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
05/01/2022	1750 Body	20.8	1710	1.481	51.813	1.463	53.537	1.23%	-3.22%
			1720	1.492	51.774	1.469	53.511	1.57%	-3.25%
			1745	1.520	51.684	1.485	53.445	2.36%	-3.29%
			1750	1.526	51.664	1.488	53.432	2.55%	-3.31%
			1770	1.548	51.585	1.501	53.379	3.13%	-3.36%
			1790	1.569	51.499	1.514	53.326	3.63%	-3.43%
05/18/2022	1750 Body	21.4	1710	1.501	51.699	1.463	53.537	2.60%	-3.43%
			1720	1.508	51.688	1.469	53.511	2.65%	-3.41%
			1745	1.525	51.662	1.485	53.445	2.69%	-3.34%
			1750	1.528	51.657	1.488	53.432	2.69%	-3.32%
			1770	1.542	51.627	1.501	53.379	2.73%	-3.28%
			1790	1.556	51.586	1.514	53.326	2.77%	-3.26%
05/24/2022	1750 Body	21.2	1710	1.487	51.858	1.463	53.537	1.64%	-3.14%
			1720	1.494	51.848	1.469	53.511	1.70%	-3.11%
			1745	1.511	51.824	1.485	53.445	1.75%	-3.03%
			1750	1.514	51.818	1.488	53.432	1.75%	-3.02%
			1770	1.527	51.790	1.501	53.379	1.73%	-2.98%
			1790	1.542	51.762	1.514	53.326	1.85%	-2.93%
06/05/2022	1750 Body	21.7	1710	1.443	52.337	1.463	53.537	-1.37%	-2.24%
			1720	1.450	52.332	1.469	53.511	-1.29%	-2.20%
			1745	1.466	52.324	1.485	53.445	-1.28%	-2.10%
			1750	1.469	52.322	1.488	53.432	-1.28%	-2.08%
			1770	1.481	52.292	1.501	53.379	-1.33%	-2.04%
			1790	1.494	52.253	1.514	53.326	-1.32%	-2.01%
04/17/2022	1900 Body	24.0	1850	1.527	52.286	1.520	53.300	0.46%	-1.90%
			1860	1.538	52.257	1.520	53.300	1.18%	-1.96%
			1880	1.560	52.195	1.520	53.300	2.63%	-2.07%
			1900	1.580	52.125	1.520	53.300	3.95%	-2.20%
			1905	1.585	52.107	1.520	53.300	4.28%	-2.24%
			1910	1.590	52.086	1.520	53.300	4.61%	-2.28%
04/20/2022	1900 Body	23.3	1850	1.530	52.347	1.520	53.300	0.66%	-1.79%
			1860	1.541	52.310	1.520	53.300	1.38%	-1.86%
			1880	1.563	52.235	1.520	53.300	2.83%	-2.00%
			1900	1.584	52.155	1.520	53.300	4.21%	-2.15%
			1905	1.590	52.135	1.520	53.300	4.61%	-2.19%
			1910	1.595	52.115	1.520	53.300	4.93%	-2.22%
04/27/2022	1900 Body	24.1	1850	1.508	51.027	1.520	53.300	-0.79%	-4.26%
			1860	1.519	51.001	1.520	53.300	-0.07%	-4.31%
			1880	1.540	50.941	1.520	53.300	1.32%	-4.43%
			1900	1.563	50.874	1.520	53.300	2.83%	-4.55%
			1905	1.569	50.858	1.520	53.300	3.22%	-4.58%
			1910	1.574	50.843	1.520	53.300	3.55%	-4.61%
05/10/2022	1900 Body	22.2	1850	1.513	52.190	1.520	53.300	-0.46%	-2.08%
			1860	1.524	52.153	1.520	53.300	0.26%	-2.15%
			1880	1.547	52.081	1.520	53.300	1.78%	-2.29%
			1900	1.571	52.006	1.520	53.300	3.36%	-2.43%
			1905	1.577	51.985	1.520	53.300	3.75%	-2.47%
			1910	1.583	51.962	1.520	53.300	4.14%	-2.51%
05/16/2022	1900 Body	22.5	1850	1.515	51.071	1.520	53.300	-0.35%	-4.18%
			1860	1.526	51.036	1.520	53.300	0.38%	-4.25%
			1880	1.549	50.968	1.520	53.300	1.88%	-4.38%
			1900	1.572	50.898	1.520	53.300	3.40%	-4.51%
			1905	1.578	50.881	1.520	53.300	3.80%	-4.54%
			1910	1.584	50.862	1.520	53.300	4.18%	-4.57%
05/18/2022	1900 Body	21.7	1850	1.506	53.321	1.520	53.300	-0.92%	0.04%
			1860	1.516	53.288	1.520	53.300	-0.26%	-0.02%
			1880	1.538	53.220	1.520	53.300	1.18%	-0.15%
			1900	1.561	53.163	1.520	53.300	2.70%	-0.26%
			1905	1.567	53.146	1.520	53.300	3.09%	-0.29%
			1910	1.572	53.131	1.520	53.300	3.42%	-0.32%
05/23/2022	1900 Body	22.5	1850	1.501	52.727	1.520	53.300	-1.25%	-1.08%
			1860	1.511	52.684	1.520	53.300	-0.59%	-1.16%
			1880	1.536	52.586	1.520	53.300	1.05%	-1.34%
			1900	1.565	52.522	1.520	53.300	2.96%	-1.46%
			1905	1.571	52.514	1.520	53.300	3.36%	-1.47%
			1910	1.577	52.508	1.520	53.300	3.75%	-1.49%
05/31/2022	1900 Body	23.6	1850	1.504	50.901	1.520	53.300	-1.05%	-4.50%
			1860	1.515	50.861	1.520	53.300	-0.33%	-4.58%
			1880	1.537	50.779	1.520	53.300	1.12%	-4.73%
			1900	1.560	50.697	1.520	53.300	2.63%	-4.88%
			1905	1.565	50.675	1.520	53.300	2.96%	-4.92%
			1910	1.571	50.654	1.520	53.300	3.36%	-4.96%
06/08/2022	1900 Body	23.0	1850	1.511	51.258	1.520	53.300	-0.59%	-3.83%
			1860	1.520	51.215	1.520	53.300	0.00%	-3.91%
			1880	1.544	51.137	1.520	53.300	1.58%	-4.06%
			1900	1.571	51.089	1.520	53.300	3.36%	-4.15%
			1905	1.577	51.081	1.520	53.300	3.75%	-4.16%
			1910	1.583	51.076	1.520	53.300	4.14%	-4.17%

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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
05/15/2022	2450 Body	23.2	2300	1.798	52.158	1.809	52.900	-0.61%	-1.40%
			2310	1.811	52.114	1.816	52.887	-0.28%	-1.46%
			2320	1.823	52.070	1.826	52.873	-0.16%	-1.52%
			2400	1.922	51.779	1.902	52.767	1.05%	-1.87%
			2450	1.989	51.634	1.950	52.700	2.00%	-2.02%
			2480	2.029	51.548	1.993	52.662	1.81%	-2.12%
			2500	2.057	51.482	2.021	52.636	1.78%	-2.19%
			2510	2.071	51.448	2.035	52.623	1.77%	-2.23%
			2535	2.108	51.355	2.071	52.592	1.79%	-2.35%
			2550	2.131	51.300	2.092	52.573	1.86%	-2.42%
			2560	2.145	51.264	2.106	52.560	1.85%	-2.47%
			2600	2.201	51.112	2.163	52.509	1.76%	-2.66%
			2650	2.273	50.898	2.234	52.445	1.75%	-2.95%
			2680	2.314	50.777	2.277	52.407	1.62%	-3.11%
			2700	2.341	50.699	2.305	52.382	1.56%	-3.21%
05/18/2022	2450 Body	23.3	2300	1.795	51.637	1.809	52.900	-0.77%	-2.39%
			2310	1.809	51.602	1.816	52.887	-0.39%	-2.43%
			2320	1.822	51.571	1.826	52.873	-0.22%	-2.46%
			2400	1.927	51.300	1.902	52.767	1.31%	-2.78%
			2450	1.997	51.129	1.950	52.700	2.41%	-2.98%
			2480	2.037	51.023	1.993	52.662	2.21%	-3.11%
			2500	2.065	50.947	2.021	52.636	2.18%	-3.21%
			2510	2.079	50.910	2.035	52.623	2.16%	-3.26%
			2535	2.116	50.817	2.071	52.592	2.17%	-3.38%
			2550	2.138	50.767	2.092	52.573	2.20%	-3.44%
			2560	2.152	50.734	2.106	52.560	2.18%	-3.47%
			2600	2.206	50.592	2.163	52.509	1.99%	-3.65%
			2650	2.278	50.383	2.234	52.445	1.97%	-3.93%
			2680	2.319	50.267	2.277	52.407	1.84%	-4.08%
			2700	2.346	50.190	2.305	52.382	1.78%	-4.18%
05/23/2022	2450 Body	22.9	2300	1.801	51.609	1.809	52.900	-0.44%	-2.44%
			2310	1.815	51.575	1.816	52.887	-0.06%	-2.48%
			2320	1.829	51.545	1.826	52.873	0.16%	-2.51%
			2400	1.937	51.262	1.902	52.767	1.84%	-2.85%
			2450	2.008	51.070	1.950	52.700	2.97%	-3.09%
			2480	2.048	50.957	1.993	52.662	2.76%	-3.24%
			2500	2.075	50.871	2.021	52.636	2.67%	-3.35%
			2510	2.088	50.827	2.035	52.623	2.60%	-3.41%
			2535	2.124	50.721	2.071	52.592	2.56%	-3.56%
			2550	2.146	50.667	2.092	52.573	2.58%	-3.63%
			2560	2.160	50.633	2.106	52.560	2.56%	-3.67%
			2600	2.213	50.486	2.163	52.509	2.31%	-3.85%
			2650	2.281	50.289	2.234	52.445	2.10%	-4.11%
			2680	2.323	50.177	2.277	52.407	2.02%	-4.26%
			2700	2.351	50.100	2.305	52.382	2.00%	-4.36%
05/26/2022	2450 Body	19.5	2300	1.863	51.626	1.809	52.900	2.99%	-2.41%
			2310	1.871	51.580	1.816	52.887	3.03%	-2.47%
			2320	1.879	51.533	1.826	52.873	2.90%	-2.53%
			2400	1.968	51.352	1.902	52.767	3.47%	-2.68%
			2450	2.014	51.155	1.950	52.700	3.28%	-2.93%
			2480	2.046	51.057	1.993	52.662	2.66%	-3.05%
			2500	2.068	51.011	2.021	52.636	2.33%	-3.09%
			2510	2.078	50.987	2.035	52.623	2.11%	-3.11%
			2535	2.104	50.909	2.071	52.592	1.59%	-3.20%
			2550	2.121	50.855	2.092	52.573	1.39%	-3.27%
			2560	2.132	50.817	2.106	52.560	1.23%	-3.32%
			2600	2.175	50.682	2.163	52.509	0.55%	-3.48%
			2650	2.232	50.543	2.234	52.445	-0.09%	-3.63%
			2680	2.270	50.425	2.277	52.407	-0.31%	-3.78%
			2700	2.296	50.355	2.305	52.382	-0.39%	-3.87%
05/29/2022	2450 Body	23.8	2300	1.764	52.093	1.809	52.900	-2.49%	-1.53%
			2310	1.777	52.053	1.816	52.887	-2.15%	-1.58%
			2320	1.790	52.026	1.826	52.873	-1.97%	-1.60%
			2400	1.898	51.782	1.902	52.767	-0.21%	-1.87%
			2450	1.970	51.619	1.950	52.700	1.03%	-2.05%
			2480	2.010	51.495	1.993	52.662	0.85%	-2.22%
			2500	2.035	51.416	2.021	52.636	0.69%	-2.32%
			2510	2.049	51.379	2.035	52.623	0.69%	-2.36%
			2535	2.086	51.293	2.071	52.592	0.72%	-2.47%
			2550	2.109	51.232	2.092	52.573	0.81%	-2.55%
			2560	2.123	51.186	2.106	52.560	0.81%	-2.61%
			2600	2.174	51.017	2.163	52.509	0.51%	-2.84%
			2650	2.248	50.829	2.234	52.445	0.63%	-3.08%
			2680	2.287	50.719	2.277	52.407	0.44%	-3.22%
			2700	2.311	50.635	2.305	52.382	0.26%	-3.34%

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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
05/31/2022	2450 Body	20.5	2300	1.851	51.372	1.809	52.900	2.32%	-2.89%
			2310	1.863	51.345	1.816	52.887	2.59%	-2.92%
			2320	1.875	51.318	1.826	52.873	2.68%	-2.94%
			2400	1.965	51.112	1.902	52.767	3.31%	-3.14%
			2450	2.027	50.972	1.950	52.700	3.95%	-3.28%
			2480	2.061	50.900	1.993	52.662	3.41%	-3.35%
			2500	2.084	50.846	2.021	52.636	3.12%	-3.40%
			2510	2.097	50.817	2.035	52.623	3.05%	-3.43%
			2535	2.129	50.737	2.071	52.592	2.80%	-3.53%
			2550	2.148	50.693	2.092	52.573	2.68%	-3.58%
			2560	2.161	50.667	2.106	52.560	2.61%	-3.60%
			2600	2.208	50.561	2.163	52.509	2.08%	-3.71%
			2650	2.270	50.397	2.234	52.445	1.61%	-3.91%
			2680	2.306	50.299	2.277	52.407	1.27%	-4.02%
			2700	2.329	50.239	2.305	52.382	1.04%	-4.09%
			2300	1.750	51.725	1.809	52.900	-3.26%	-2.22%
			2310	1.763	51.682	1.816	52.887	-2.92%	-2.28%
			2320	1.776	51.645	1.826	52.873	-2.74%	-2.32%
			2400	1.880	51.363	1.902	52.767	-1.16%	-2.66%
			2450	1.949	51.193	1.950	52.700	-0.05%	-2.86%
06/01/2022	2450 Body	23.8	2480	1.986	51.083	1.993	52.662	-0.35%	-3.00%
			2500	2.010	51.006	2.021	52.636	-0.54%	-3.10%
			2510	2.024	50.972	2.035	52.623	-0.54%	-3.14%
			2535	2.061	50.888	2.071	52.592	-0.48%	-3.24%
			2550	2.083	50.838	2.092	52.573	-0.43%	-3.30%
			2560	2.097	50.803	2.106	52.560	-0.43%	-3.34%
			2600	2.146	50.655	2.163	52.509	-0.79%	-3.53%
			2650	2.219	50.479	2.234	52.445	-0.67%	-3.75%
			2680	2.257	50.380	2.277	52.407	-0.88%	-3.87%
			2700	2.281	50.303	2.305	52.382	-1.04%	-3.97%
			2300	1.872	51.798	1.809	52.900	3.48%	-2.08%
			2310	1.881	51.776	1.816	52.887	3.58%	-2.10%
			2320	1.890	51.759	1.826	52.873	3.50%	-2.11%
			2400	1.959	51.641	1.902	52.767	3.00%	-2.13%
			2450	2.007	51.572	1.950	52.700	2.92%	-2.14%
			2480	2.032	51.525	1.993	52.662	1.96%	-2.16%
			2500	2.048	51.493	2.021	52.636	1.34%	-2.17%
			2510	2.057	51.480	2.035	52.623	1.08%	-2.17%
			2535	2.082	51.452	2.071	52.592	0.53%	-2.17%
			2550	2.098	51.431	2.092	52.573	0.29%	-2.17%
06/05/2022	2450 Body	21.7	2560	2.107	51.416	2.106	52.560	0.05%	-2.18%
			2600	2.141	51.351	2.163	52.509	-1.02%	-2.21%
			2650	2.192	51.267	2.234	52.445	-1.88%	-2.25%
			2680	2.218	51.228	2.277	52.407	-2.59%	-2.25%
			2700	2.234	51.196	2.305	52.382	-3.08%	-2.26%
			2300	1.847	50.957	1.809	52.900	2.10%	-3.67%
			2310	1.856	50.938	1.816	52.887	2.20%	-3.69%
			2320	1.865	50.925	1.826	52.873	2.14%	-3.68%
			2400	1.936	50.842	1.902	52.767	1.79%	-3.65%
			2450	1.984	50.764	1.950	52.700	1.74%	-3.67%
			2480	2.008	50.715	1.993	52.662	0.75%	-3.70%
			2500	2.025	50.667	2.021	52.636	0.20%	-3.74%
			2510	2.035	50.648	2.035	52.623	0.00%	-3.75%
			2535	2.061	50.609	2.071	52.592	-0.48%	-3.77%
			2550	2.075	50.587	2.092	52.573	-0.81%	-3.78%
			2560	2.085	50.571	2.106	52.560	-1.00%	-3.78%
			2600	2.120	50.491	2.163	52.509	-1.99%	-3.84%
			2650	2.168	50.422	2.234	52.445	-2.95%	-3.86%
			2680	2.195	50.374	2.277	52.407	-3.60%	-3.88%
			2700	2.213	50.340	2.305	52.382	-3.99%	-3.90%
06/07/2022	2450 Body	21.3	2300	1.854	51.251	1.809	52.900	2.49%	-3.12%
			2310	1.863	51.227	1.816	52.887	2.59%	-3.14%
			2320	1.872	51.209	1.826	52.873	2.52%	-3.15%
			2400	1.944	51.086	1.902	52.767	2.21%	-3.19%
			2450	1.990	51.013	1.950	52.700	2.05%	-3.20%
			2480	2.016	50.966	1.993	52.662	1.15%	-3.22%
			2500	2.033	50.919	2.021	52.636	0.59%	-3.26%
			2510	2.042	50.901	2.035	52.623	0.34%	-3.27%
			2535	2.067	50.875	2.071	52.592	-0.19%	-3.26%
			2550	2.082	50.859	2.092	52.573	-0.48%	-3.26%
			2560	2.091	50.846	2.106	52.560	-0.71%	-3.26%
			2600	2.127	50.776	2.163	52.509	-1.66%	-3.30%
			2650	2.177	50.714	2.234	52.445	-2.55%	-3.30%
			2680	2.204	50.656	2.277	52.407	-3.21%	-3.34%
			3300	3.049	49.966	3.080	51.593	-1.01%	-3.15%
			3350	3.111	49.881	3.139	51.525	-0.89%	-3.19%
			3450	3.228	49.690	3.256	51.389	-0.86%	-3.31%
			3500	3.289	49.584	3.314	51.321	-0.75%	-3.38%
			3550	3.347	49.502	3.372	51.254	-0.74%	-3.42%
			3560	3.359	49.477	3.384	51.240	-0.74%	-3.44%
04/25/2022	3600 Body	19.5	3600	3.406	49.397	3.431	51.186	-0.73%	-3.50%
			3650	3.464	49.311	3.489	51.118	-0.72%	-3.53%
			3690	3.511	49.217	3.536	51.063	-0.71%	-3.62%
			3700	3.523	49.202	3.548	51.050	-0.70%	-3.62%
			3750	3.580	49.112	3.606	50.982	-0.72%	-3.67%
			3900	3.770	48.803	3.781	50.779	-0.29%	-3.89%
			3930	3.808	48.726	3.816	50.738	-0.21%	-3.97%
			4100	4.040	48.379	4.015	50.507	0.62%	-4.21%
			4150	4.111	48.281	4.073	50.439	0.93%	-4.28%
			2700	2.222	50.618	2.305	52.382	-3.60%	-3.37%

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

Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ϵ	% dev σ	% dev ϵ
05/15/2022	3600 Body	20.3	3300	3.019	50.397	3.080	51.593	-1.99%	-2.32%
			3350	3.075	50.317	3.139	51.525	-2.04%	-2.34%
			3400	3.162	50.115	3.256	51.389	-1.96%	-2.48%
			3500	3.247	50.024	3.314	51.321	-2.01%	-2.53%
			3550	3.305	49.927	3.372	51.254	-1.99%	-2.59%
			3580	3.318	49.915	3.384	51.240	-1.96%	-2.59%
			3600	3.363	49.856	3.431	51.186	-1.98%	-2.60%
			3650	3.423	49.774	3.489	51.118	-1.89%	-2.63%
			3690	3.469	49.683	3.536	51.063	-1.91%	-2.70%
			3700	3.481	49.671	3.548	51.050	-1.89%	-2.70%
			3750	3.540	49.607	3.609	50.982	-1.82%	-2.72%
			3900	3.727	49.312	3.778	50.779	-1.42%	-2.89%
			3930	3.771	49.248	3.816	50.738	-1.19%	-2.94%
			4100	4.002	48.960	4.015	50.507	-0.33%	-3.10%
			4150	4.067	48.840	4.073	50.439	-0.14%	-3.17%
05/18/2022	3600 Body	19.1	3300	2.943	49.612	3.080	51.593	-4.45%	-3.84%
			3350	2.981	49.481	3.139	51.525	-4.71%	-4.01%
			3400	3.107	49.284	3.256	51.389	-4.68%	-4.10%
			3500	3.160	49.255	3.314	51.321	-4.65%	-4.03%
			3550	3.220	49.116	3.372	51.254	-4.51%	-4.17%
			3580	3.238	49.111	3.384	51.240	-4.37%	-4.15%
			3600	3.273	49.026	3.431	51.186	-4.61%	-4.12%
			3650	3.330	48.942	3.489	51.118	-4.30%	-4.26%
			3690	3.379	48.905	3.536	51.063	-4.44%	-4.23%
			3700	3.387	48.875	3.548	51.050	-4.54%	-4.26%
			3750	3.459	48.779	3.609	50.982	-4.10%	-4.32%
			3900	3.629	48.544	3.781	50.779	-4.02%	-4.40%
			3930	3.682	48.457	3.816	50.738	-3.51%	-4.50%
			4100	3.891	48.180	4.015	50.507	-2.94%	-4.67%
			4150	3.958	48.139	4.073	50.439	-2.98%	-4.56%
05/23/2022	3600 Body	19.6	3300	2.928	50.507	3.080	51.593	-4.94%	-1.99%
			3350	2.987	50.429	3.139	51.525	-4.84%	-1.98%
			3400	3.108	50.239	3.256	51.389	-4.79%	-2.05%
			3500	3.159	50.150	3.314	51.321	-4.68%	-2.11%
			3550	3.216	50.048	3.372	51.254	-4.63%	-2.15%
			3580	3.223	50.026	3.384	51.240	-4.76%	-2.18%
			3600	3.273	49.929	3.431	51.186	-4.61%	-2.21%
			3650	3.332	49.839	3.489	51.118	-4.50%	-2.18%
			3690	3.377	49.725	3.536	51.063	-4.50%	-2.16%
			3700	3.389	49.708	3.548	51.050	-4.48%	-2.16%
			3750	3.445	49.593	3.609	50.982	-4.46%	-2.21%
			3900	3.623	49.358	3.781	50.779	-3.18%	-2.38%
			3930	3.666	49.267	3.816	50.738	-3.33%	-2.47%
			4100	3.881	48.930	4.015	50.507	-1.04%	-2.67%
			4150	3.958	48.890	4.073	50.439	-2.82%	-2.67%
05/26/2022	3600 Body	20.3	3300	2.928	50.904	3.080	51.593	-4.90%	-1.34%
			3350	2.987	50.829	3.139	51.525	-4.84%	-1.35%
			3400	3.106	50.659	3.256	51.389	-4.79%	-1.42%
			3500	3.159	50.560	3.314	51.321	-4.68%	-1.48%
			3550	3.216	50.484	3.372	51.254	-4.63%	-1.50%
			3580	3.223	50.457	3.384	51.240	-4.76%	-1.53%
			3600	3.273	50.361	3.431	51.186	-4.61%	-1.57%
			3650	3.332	50.309	3.489	51.118	-4.50%	-1.58%
			3690	3.377	50.226	3.536	51.063	-4.50%	-1.64%
			3700	3.389	50.208	3.548	51.050	-4.48%	-1.65%
			3750	3.445	50.123	3.609	50.982	-4.46%	-1.68%
			3900	3.643	49.889	3.781	50.779	-3.65%	-1.75%
			3930	3.682	49.840	3.816	50.738	-3.51%	-1.77%
			4100	3.881	49.580	4.015	50.507	-2.86%	-1.87%
			4150	3.967	49.449	4.073	50.439	-2.80%	-1.98%
05/31/2022	5200-9800 Body	22.2	5180	5.345	48.717	5.276	49.041	1.31%	-0.66%
			5190	5.359	48.690	5.288	49.028	1.34%	-0.69%
			5200	5.374	48.664	5.299	49.014	1.42%	-0.71%
			5210	5.388	48.629	5.311	49.001	1.45%	-0.76%
			5220	5.401	48.595	5.323	48.987	1.47%	-0.80%
			5240	5.435	48.555	5.346	48.960	1.66%	-0.83%
			5260	5.463	48.541	5.358	48.947	1.77%	-0.83%
			5280	5.471	48.529	5.369	48.933	1.90%	-0.83%
			5270	5.486	48.518	5.381	48.919	1.95%	-0.82%
			5280	5.488	48.512	5.393	48.906	1.95%	-0.81%
			5290	5.512	48.482	5.404	48.892	2.00%	-0.82%
			5300	5.527	48.471	5.416	48.879	2.05%	-0.83%
			5310	5.540	48.451	5.428	48.865	2.06%	-0.85%
			5320	5.555	48.422	5.439	48.851	2.04%	-0.86%
			5330	5.565	48.414	5.450	48.837	2.07%	-0.88%
			5340	5.575	48.404	5.460	48.823	2.07%	-0.88%
			5350	5.585	48.394	5.461	48.809	2.04%	-0.89%
			5360	5.595	48.384	5.461	48.796	2.04%	-0.89%
			5370	5.605	48.374	5.461	48.783	2.04%	-0.89%
			5380	5.615	48.364	5.461	48.770	2.04%	-0.89%
			5390	5.625	48.354	5.461	48.757	2.04%	-0.89%
			5400	5.635	48.344	5.461	48.744	2.04%	-0.89%
			5410	5.645	48.334	5.461	48.731	2.04%	-0.89%
			5420	5.655	48.324	5.461	48.718	2.04%	-0.89%
			5430	5.665	48.314	5.461	48.705	2.04%	-0.89%
			5440	5.675	48.304	5.461	48.692	2.04%	-0.89%
			5450	5.685	48.294	5.461	48.679	2.04%	-0.89%
			5460	5.695	48.284	5.461	48.666	2.04%	-0.89%
			5470	5.705	48.274	5.461	48.653	2.04%	-0.89%
			5480	5.715	48.264	5.461	48.640	2.04%	-0.89%
			5490	5.725	48.254	5.461	48.627	2.04%	-0.89%
			5500	5.735	48.244	5.461	48.614	2.04%	-0.89%
			5510	5.745	48.234	5.461	48.601	2.04%	-0.89%
			5520	5.755	48.224	5.461	48.588	2.04%	-0.89%
			5530	5.765	48.214	5.461	48.575	2.04%	-0.89%
			5540	5.775	48.204	5.461	48.562	2.04%	-0.89%
			5550	5.785	48.194	5.461	48.549	2.04%	-0.89%
			5560	5.795	48.184	5.461	48.536	2.04%	-0.89%
			5570	5.805	48.174	5.461	48.523	2.04%	-0.89%
			5580	5.815	48.164	5.461	48.510	2.04%	-0.89%
			5590	5.825	48.154	5.461	48.497	2.04%	-0.89%
			5600	5.835	48.144	5.461	48.484	2.04%	-0.89%
			5610	5.845	48.134	5.461	48.471	2.04%	-0.89%
			5620	5.855	48.124	5.461	48.458	2.04%	-0.89%
			5630	5.865	48.114	5.461	48.445	2.04%	-0.89%
			5640	5.875	48.104	5.461	48.432	2.04%	-0.89%
			5650	5.885	48.094	5.461	48.419	2.04%	-0.89%
			5660	5.895	48.084	5.461	48.406	2.04%	-0.89%
			5670	5.905	48.074	5.461	48.393	2.04%	-0.89%
			5680	5.915	48.064	5.461	48.380	2.04%	-0.89%
			5690	5.925	48.054	5.461	48.367	2.04%	-0.89%
			5700	5.935	48.044	5.461	48.354	2.04%	-0.89%
			5710	5.945	48.034	5.461	48.341	2.04%	-0.89%
			5720	5.955	48.024	5.461	48.328	2.04%	-0.89%
			5730	5.965	48.014	5.461	48.315	2.04%	-0.89%
			5740	5.975	48.004	5.461	48.302	2.04%	-0.89%
			5750	5.985	47.994	5.461	48.289	2.04%	-0.89%
			5760	5.995	47.984	5.461	48.276	2.04%	-0.89%
			5770	6.005	47.974	5.461	48.263	2.04%	-0.89%
			5780	6.015	47.964	5.461	48.250	2.04%	-0.89%
			5790	6.025	47.954	5.461	48.237	2.04%	-0.89%
			5800	6.035	47.944	5.461	48.224	2.04%	-0.89%
5810	6.045	47.934	5.461	48.211	2.04%	-0.89%			
5820	6.055	47.924	5.461	48.198	2.04%	-0.89%			
5830	6.065	47.914	5.461	48.185	2.04%	-0.89%			
5840	6.075	47.904	5.461	48.172	2.04%	-0.89%			
5850	6.085	47.894	5.461	48.159	2.04%	-0.89%			
5860	6.095	47.884	5.461	48.146	2.04%	-0.89%			
5870	6.105	47.874	5.461	48.133	2.04%	-0.89%			
5880	6.115	47.864	5.461	48.120	2.04%	-0.89%			
5890	6.125	47.854	5.461	48.107	2.04%	-0.89%			
5900	6.135	47.844	5.461	48.094	2.04%	-0.89%			
5910	6.145	47.834	5.461	48.081	2.04%	-0.89%			
5920	6.155	47.824	5.461	48.068	2.04%	-0.89%			
5930	6.165	47.814	5.461	48.055	2.04%	-0.89%			
5940	6.175	47.804	5.461	48.042	2.04%	-0.89%			
5950	6.185	47.794	5.461	48.029	2.04%	-0.89%			
5960	6.195	47.784	5.461	48.016	2.04%	-0.89%			
5970	6.205	47.774	5.461	48.003	2.04%	-0.89%			
5980	6.215	47.764	5.461	47.990	2.04%	-0.89%			
5990	6.225	47.754	5.461	47.977	2.04%	-0.89%			
6000	6.235	47.744	5.461	47.964	2.04%	-0.89%			
6010	6.245	47.734	5.461	47.951	2.04%	-0.89%			
6020	6.255	47.724	5.461	47.938	2.04%	-0.89%			
6030	6.265	47.714	5.461	47.925	2.04%	-0.89%			
6040	6.275	47.704	5.461	47.912	2.04%	-0.89%			
6050	6.285	47.694	5.461	47.899	2.04%	-0.89%			
6060	6.295	47.684	5.461	47.886	2.04%	-0.89%			
6070	6.305	47.674	5.461	47.873	2.04%	-0.89%			
6080	6.315	47.664	5.461	47.860	2.04%	-0.89%			
6090	6.325	47.654	5.461	47.847	2.04%	-0.89%			
6100	6.335	47.644	5.461	47.834	2.04%	-0.89%			
6110	6.345	47.634	5.461	47.821	2.04%	-0.89%			
6120	6.355	47.624	5.461	47.808	2.04%	-0.89%			
6130	6.365	47.614	5.461	47.795	2.04%	-0.89%			
6140	6.375	47.604	5.461	47.782	2.04%	-0.89%			
6150	6.385	47.594	5.461	47.769	2.04%	-0.89%			
6160	6.395	47.584	5.461	47.756	2.04%	-0.89%			
6170	6.405	47.574	5.461	47.743	2.04%	-0.89%			
6180	6.415	47.564	5.461	47.730	2.04%	-0.89%			
6190	6.425	47.554	5.461	47.717	2.04%	-0.89%			
6200	6.435	47.544	5.461	47.704	2.04%	-0.89%			
6210	6.445	47.534	5.461	47.691	2.04%	-0.89%			
6220	6.455	47.524	5.461	47.678	2.04%	-0.89%			
6230	6.465	47.514	5.461</						

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 10-9
System Verification Results – 1g Head

System Verification TARGET & MEASURED												
SAR System	Tissue Frequency (MHz)	Tissue Type	Date	Amb. Temp. (C)	Liquid Temp. (C)	Input Power (W)	Source SN	Probe SN	Measured SAR1g (W/kg)	1W Target SAR1g (W/kg)	1W Normalized SAR 1g (W/kg)	Deviation1g (%)
K4	750	HEAD	04/21/2022	21.3	21.0	0.20	1034	7637	1.820	8.64	9.100	5.32%
K4	750	HEAD	04/27/2022	21.0	20.0	0.20	1034	7637	1.630	8.64	8.150	-5.67%
K4	750	HEAD	04/29/2022	22.0	21.9	0.20	1034	7637	1.670	8.64	8.350	-3.36%
L	750	HEAD	05/31/2022	24.2	22.5	0.20	1054	7670	1.800	8.52	9.000	5.63%
K4	835	HEAD	04/25/2022	20.0	19.9	0.20	4d180	7637	2.010	9.45	10.050	6.35%
D	835	HEAD	04/26/2022	22.3	21.1	0.20	4d047	7571	2.040	9.65	10.200	5.70%
K4	835	HEAD	05/02/2022	20.2	20.9	0.20	4d180	7637	2.010	9.45	10.050	6.35%
K	1750	HEAD	04/20/2022	22.3	21.0	0.10	1008	3914	3.860	37.40	38.600	3.21%
L	1750	HEAD	05/28/2022	21.5	21.0	0.10	1008	7670	3.900	37.40	39.000	4.28%
L	1750	HEAD	05/30/2022	22.8	21.5	0.10	1008	7670	3.810	37.40	38.100	1.87%
E	1900	HEAD	04/14/2022	24.5	23.6	0.10	5d149	7538	4.060	40.50	40.600	0.25%
G	1900	HEAD	05/31/2022	23.0	21.6	0.10	5d080	7527	4.250	40.50	42.500	4.94%
G	1900	HEAD	06/02/2022	23.0	21.8	0.10	5d080	7527	4.230	40.50	42.300	4.44%
P	2300	HEAD	05/25/2022	23.3	21.2	0.10	1116	7410	4.660	49.60	46.600	-6.05%
J	2450	HEAD	05/09/2022	20.0	21.0	0.10	719	7570	5.440	55.00	54.400	-1.09%
J	2450	HEAD	05/11/2022	20.0	21.0	0.10	719	7570	5.460	55.00	54.600	-0.73%
P	2450	HEAD	05/22/2022	22.7	22.0	0.10	797	7410	5.320	52.40	53.200	1.53%
P	2600	HEAD	05/01/2022	23.9	23.5	0.10	1004	7410	5.980	57.80	59.800	3.46%
P	2600	HEAD	05/04/2022	23.3	22.4	0.10	1004	7410	5.590	57.80	55.900	-3.29%
P	2600	HEAD	05/15/2022	22.3	21.8	0.10	1064	7410	5.820	58.10	58.200	0.17%
L	3500	HEAD	05/02/2022	22.4	21.8	0.10	1059	7670	6.430	63.70	64.300	0.94%
L	3500	HEAD	05/28/2022	21.5	21.0	0.10	1059	7670	6.250	63.70	62.500	-1.88%
L	3700	HEAD	04/21/2022	22.5	21.2	0.10	1067	7670	6.920	67.20	69.200	2.98%
L	3700	HEAD	05/02/2022	22.4	21.8	0.10	1067	7670	6.910	67.20	69.100	2.83%
L	3700	HEAD	05/28/2022	21.5	21.0	0.10	1067	7670	7.030	67.20	70.300	4.61%
L	3900	HEAD	04/21/2022	22.5	21.2	0.10	1056	7670	7.280	68.90	72.800	5.66%
G	5250	HEAD	05/19/2022	23.5	22.2	0.05	1057	7527	3.870	81.20	77.400	-4.68%
G	5600	HEAD	05/19/2022	23.5	22.2	0.05	1057	7527	4.140	84.20	82.800	-1.66%
G	5750	HEAD	05/19/2022	23.5	22.2	0.05	1057	7527	3.970	80.80	79.400	-1.73%
G	5800	HEAD	05/19/2022	23.5	22.2	0.05	1057	7527	3.880	82.10	77.600	-5.48%

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Table 10-10
System Verification Results – 1g Body

System Verification TARGET & MEASURED												
SAR System	Tissue Frequency (MHz)	Tissue Type	Date	Amb. Temp. (C)	Liquid Temp. (C)	Input Power (W)	Source SN	Probe SN	Measured SAR1g (W/kg)	1W Target SAR1g (W/kg)	1W Normalized SAR 1g (W/kg)	Deviation1g (%)
K1	750	BODY	04/25/2022	20.7	20.3	0.20	1046	7558	1.680	8.68	8.400	-3.23%
K4	750	BODY	05/03/2022	22.3	21.8	0.20	1034	7637	1.700	8.91	8.500	-4.60%
K4	750	BODY	05/09/2022	22.1	21.1	0.20	1046	7637	1.670	8.68	8.350	-3.80%
I	750	BODY	06/02/2022	21.6	21.5	0.20	1161	7661	1.800	8.79	9.000	2.39%
K1	835	BODY	04/21/2022	20.0	20.0	0.20	4d180	7558	2.010	9.67	10.050	3.93%
K1	835	BODY	05/02/2022	22.5	21.5	0.20	4d180	7558	2.060	9.67	10.300	6.51%
K5	835	BODY	05/11/2022	20.5	20.8	0.20	4d119	7491	2.100	9.91	10.500	5.95%
K5	835	BODY	05/12/2022	21.2	21.0	0.20	4d119	7491	2.070	9.91	10.350	4.44%
K1	835	BODY	05/17/2022	21.7	20.9	0.20	4d119	7558	2.100	9.91	10.500	5.95%
D	835	BODY	05/23/2022	22.1	21.5	0.20	4d133	7571	2.040	9.69	10.200	5.26%
K	1750	BODY	04/23/2022	23.1	21.2	0.10	1008	3914	4.000	37.80	40.000	5.82%
K	1750	BODY	04/26/2022	22.8	21.3	0.10	1008	3914	3.980	37.80	39.800	5.29%
K	1750	BODY	04/28/2022	23.5	21.3	0.10	1150	3914	3.900	37.80	39.000	3.17%
L	1750	BODY	05/18/2022	21.3	21.4	0.10	1008	7670	3.890	37.80	38.900	2.91%
L	1750	BODY	05/24/2022	23.2	21.3	0.10	1008	7670	3.930	37.80	39.300	3.97%
L	1750	BODY	06/05/2022	24.0	21.7	0.10	1008	7670	3.830	37.80	38.300	1.32%
E	1900	BODY	04/20/2022	23.9	23.5	0.10	5d148	7538	4.100	39.90	41.000	2.76%
E	1900	BODY	04/27/2022	24.5	24.1	0.10	5d149	7538	4.060	40.40	40.600	0.50%
A	1900	BODY	05/16/2022	24.7	22.5	0.10	5d149	7406	4.290	40.40	42.900	6.19%
A	1900	BODY	05/18/2022	24.0	21.7	0.10	5d080	7406	4.140	40.70	41.400	1.72%
A	1900	BODY	05/23/2022	23.9	22.5	0.10	5d080	7406	4.370	40.70	43.700	7.37%
E	1900	BODY	06/08/2022	23.5	22.5	0.10	5d080	7538	4.360	40.70	43.600	7.13%
H	2300	BODY	05/15/2022	21.9	21.5	0.10	1073	7409	4.840	48.40	48.400	0.00%
H	2300	BODY	05/23/2022	21.4	21.0	0.10	1073	7409	4.850	48.40	48.500	0.21%
O	2300	BODY	06/05/2022	21.8	21.7	0.10	1116	7417	4.630	49.20	46.300	-5.89%
J	2450	BODY	05/26/2022	19.9	19.5	0.10	719	7570	5.010	52.00	50.100	-3.65%
J	2450	BODY	05/31/2022	21.0	21.0	0.10	981	7570	4.790	50.30	47.900	-4.77%
O	2450	BODY	06/01/2022	22.5	22.3	0.10	797	7417	4.770	49.40	47.700	-3.44%
O	2450	BODY	06/05/2022	21.8	21.7	0.10	797	7417	4.820	49.40	48.200	-2.43%
S	2600	BODY	05/29/2022	21.2	21.8	0.10	1064	7552	5.460	55.60	54.600	-1.80%
O	2600	BODY	06/01/2022	22.5	22.3	0.10	1064	7417	5.760	55.60	57.600	3.60%
S	2600	BODY	06/01/2022	21.9	23.5	0.10	1064	7552	5.320	55.60	53.200	-4.32%
O	2600	BODY	06/07/2022	24.0	21.3	0.10	1064	7417	5.430	55.60	54.300	-2.34%
E	3500	BODY	05/15/2022	22.3	22.0	0.10	1097	7538	6.250	64.20	62.500	-2.65%
E	3500	BODY	05/18/2022	23.1	21.0	0.10	1097	7538	6.590	64.20	65.900	2.65%
E	3500	BODY	05/23/2022	22.9	21.3	0.10	1059	7538	6.020	63.00	60.200	-4.44%
E	3500	BODY	05/26/2022	21.5	20.7	0.10	1097	7538	6.260	64.20	62.600	-2.49%
E	3700	BODY	05/15/2022	22.3	22.0	0.10	1018	7538	6.250	63.50	62.500	-1.57%
E	3700	BODY	05/23/2022	22.9	21.3	0.10	1018	7538	5.790	63.50	57.900	-8.82%
E	3700	BODY	05/26/2022	21.5	20.7	0.10	1018	7538	6.180	63.50	61.800	-2.68%
E	3900	BODY	05/15/2022	22.3	22.0	0.10	1073	7538	6.290	64.30	62.900	-2.18%
K	5250	BODY	05/31/2022	22.4	21.5	0.05	1057	7659	3.700	74.20	74.000	-0.27%
K	5600	BODY	05/31/2022	22.4	21.5	0.05	1057	7659	3.940	77.00	78.800	2.34%
K	5750	BODY	05/31/2022	22.4	21.5	0.05	1057	7659	3.640	74.90	72.800	-2.80%
K	5800	BODY	05/31/2022	22.4	21.5	0.05	1057	7659	3.670	74.80	73.400	-1.87%

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Table 10-11
System Verification Results – 10g

System Verification TARGET & MEASURED												
SAR System	Tissue Frequency (MHz)	Tissue Type	Date	Amb. Temp. (C)	Liquid Temp. (C)	Input Power (W)	Source SN	Probe SN	Measured SAR10g (W/kg)	1W Target SAR10g (W/kg)	1W Normalized SAR10g (W/kg)	Deviation10g (%)
G	13	HEAD	06/09/2022	24.0	21.9	1.00	1002	7527	0.317	0.34	0.317	-7.85%
K	1750	BODY	04/23/2022	23.1	21.2	0.10	1008	3914	2.130	19.90	21.300	7.04%
K	1750	BODY	04/26/2022	22.8	21.3	0.10	1008	3914	2.120	19.90	21.200	6.53%
K	1750	BODY	05/01/2022	21.3	20.8	0.10	1150	3914	2.050	20.00	20.500	2.50%
E	1900	BODY	04/17/2022	22.7	22.4	0.10	5d149	7538	2.120	21.10	21.200	0.47%
E	1900	BODY	04/27/2022	24.5	24.1	0.10	5d149	7538	2.100	21.10	21.000	-0.47%
A	1900	BODY	05/10/2022	24.9	22.2	0.10	5d149	7406	2.270	21.10	22.700	7.58%
E	1900	BODY	05/31/2022	22.7	22.1	0.10	5d080	7538	2.010	21.40	20.100	-6.07%
H	2300	BODY	05/18/2022	21.9	21.4	0.10	1073	7409	2.360	23.40	23.600	0.85%
H	2300	BODY	05/23/2022	21.4	21.0	0.10	1073	7409	2.290	23.40	22.900	-2.14%
O	2450	BODY	06/05/2022	21.8	21.7	0.10	797	7417	2.240	23.40	22.400	-4.27%
S	2600	BODY	06/01/2022	21.9	23.5	0.10	1064	7552	2.380	25.00	23.800	-4.80%
O	2600	BODY	06/05/2022	21.8	21.7	0.10	1064	7417	2.550	25.00	25.500	2.00%
O	2600	BODY	06/07/2022	24.0	21.3	0.10	1064	7417	2.450	25.00	24.500	-2.00%
I	3500	BODY	04/25/2022	20.3	20.0	0.10	1097	7661	2.480	23.80	24.800	4.20%
E	3500	BODY	05/18/2022	23.1	21.0	0.10	1097	7538	2.540	23.80	25.400	6.72%
E	3500	BODY	05/26/2022	21.5	20.7	0.10	1097	7538	2.410	23.80	24.100	1.26%
E	3700	BODY	05/18/2022	23.1	21.0	0.10	1018	7538	2.340	22.50	23.400	4.00%
E	3700	BODY	05/26/2022	21.5	20.7	0.10	1018	7538	2.320	22.50	23.200	3.11%
E	3900	BODY	05/18/2022	23.1	21.0	0.10	1073	7538	2.390	22.00	23.900	8.64%
K	5250	BODY	05/31/2022	22.4	21.5	0.05	1057	7659	1.040	20.60	20.800	0.97%
K	5600	BODY	05/31/2022	22.4	21.5	0.05	1057	7659	1.100	21.20	22.000	3.77%
K	5750	BODY	05/31/2022	22.4	21.5	0.05	1057	7659	1.010	20.70	20.200	-2.42%
K	5800	BODY	05/31/2022	22.4	21.5	0.05	1057	7659	1.030	20.50	20.600	0.49%

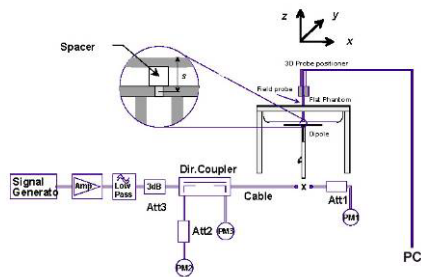


Figure 10-1
System Verification Setup Diagram



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)	
848.80	251	Right	Cheek	GSM 850	GSM	A	0914M	33.2	32.41	-0.05	1:8.3	0.171	1.199	0.205	A1
848.80	251	Right	Tilt	GSM 850	GSM	A	0914M	33.2	32.41	0.07	1:8.3	0.084	1.199	0.101	
848.80	251	Left	Cheek	GSM 850	GSM	A	0914M	33.2	32.41	0.09	1:8.3	0.151	1.199	0.181	
848.80	251	Left	Tilt	GSM 850	GSM	A	0914M	33.2	32.41	0.04	1:8.3	0.082	1.199	0.098	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population								Head 1.6 W/kg (mW/g) averaged over 1 gram							

**Table 11-2
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)	
1880.00	661	Right	Cheek	GSM 1900	GSM	A	0932M	30.0	29.96	0.13	1:8.3	0.029	1.009	0.029	A2
1880.00	661	Right	Tilt	GSM 1900	GSM	A	0932M	30.0	29.96	-0.04	1:8.3	0.009	1.009	0.009	
1880.00	661	Left	Cheek	GSM 1900	GSM	A	0932M	30.0	29.96	-0.17	1:8.3	0.015	1.009	0.015	
1880.00	661	Left	Tilt	GSM 1900	GSM	A	0932M	30.0	29.96	-0.14	1:8.3	0.007	1.009	0.007	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population								Head 1.6 W/kg (mW/g) averaged over 1 gram							

**Table 11-3
UMTS 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)	
846.60	4233	Right	Cheek	UMTS 850	RMC	A	0914M	23.0	22.05	0.04	1:1	0.259	1.245	0.322	A3
846.60	4233	Right	Tilt	UMTS 850	RMC	A	0914M	23.0	22.05	0.17	1:1	0.124	1.245	0.154	
846.60	4233	Left	Cheek	UMTS 850	RMC	A	0914M	23.0	22.05	0.06	1:1	0.219	1.245	0.273	
846.60	4233	Left	Tilt	UMTS 850	RMC	A	0914M	23.0	22.05	0.08	1:1	0.119	1.245	0.148	
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.	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)	
1712.40	1312	Right	Cheek	UMTS 1750	RMC	A	0932M	23.0	21.23	-0.03	1:1	0.076	1.503	0.114	
1712.40	1312	Right	Tilt	UMTS 1750	RMC	A	0932M	23.0	21.23	0.09	1:1	0.048	1.503	0.072	
1712.40	1312	Left	Cheek	UMTS 1750	RMC	A	0932M	23.0	21.23	-0.01	1:1	0.083	1.503	0.125	A4
1712.40	1312	Left	Tilt	UMTS 1750	RMC	A	0932M	23.0	21.23	0.01	1:1	0.054	1.503	0.081	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population								Head 1.6 W/kg (mW/g) averaged over 1 gram							

Table 11-5
UMTS 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)	
1907.60	9538	Right	Cheek	UMTS 1900	RMC	A	0661M	23.0	21.44	-0.02	1:1	0.045	1.432	0.064	
1907.60	9538	Right	Tilt	UMTS 1900	RMC	A	0661M	23.0	21.44	-0.06	1:1	0.038	1.432	0.054	
1907.60	9538	Left	Cheek	UMTS 1900	RMC	A	0661M	23.0	21.44	0.00	1:1	0.094	1.432	0.135	A5
1907.60	9538	Left	Tilt	UMTS 1900	RMC	A	0661M	23.0	21.44	-0.20	1:1	0.025	1.432	0.036	
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 11-6
LTE Band 71 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)		
680.50	133297	Mid	Right	Cheek	LTE Band 71	A	0914M	20	QPSK	1	50	25.0	24.24	0	-0.19	1:1	0.165	1.191	0.197	A6
680.50	133297	Mid	Right	Cheek	LTE Band 71	A	0914M	20	QPSK	50	25	24.0	23.18	1	0.05	1:1	0.128	1.208	0.155	
680.50	133297	Mid	Right	Tilt	LTE Band 71	A	0914M	20	QPSK	1	50	25.0	24.24	0	0.06	1:1	0.094	1.191	0.112	
680.50	133297	Mid	Right	Tilt	LTE Band 71	A	0914M	20	QPSK	50	25	24.0	23.18	1	0.08	1:1	0.069	1.208	0.083	
680.50	133297	Mid	Left	Cheek	LTE Band 71	A	0914M	20	QPSK	1	50	25.0	24.24	0	0.06	1:1	0.142	1.191	0.169	
680.50	133297	Mid	Left	Cheek	LTE Band 71	A	0914M	20	QPSK	50	25	24.0	23.18	1	0.09	1:1	0.119	1.208	0.144	
680.50	133297	Mid	Left	Tilt	LTE Band 71	A	0914M	20	QPSK	1	50	25.0	24.24	0	-0.12	1:1	0.076	1.191	0.091	
680.50	133297	Mid	Left	Tilt	LTE Band 71	A	0914M	20	QPSK	50	25	24.0	23.18	1	0.11	1:1	0.060	1.208	0.072	
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 11-7
LTE Band 12 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)	
707.50	23095	Mid	Right	Cheek	LTE Band 12	A	0914M	10	QPSK	1	0	25.0	24.39	0	0.03	1:1	1.151	0.197	A7
707.50	23095	Mid	Right	Cheek	LTE Band 12	A	0914M	10	QPSK	25	0	24.0	23.25	1	0.05	1:1	1.189	0.155	
707.50	23095	Mid	Right	Tilt	LTE Band 12	A	0914M	10	QPSK	1	0	25.0	24.39	0	0.20	1:1	1.151	0.098	
707.50	23095	Mid	Right	Tilt	LTE Band 12	A	0914M	10	QPSK	25	0	24.0	23.25	1	0.05	1:1	1.189	0.078	
707.50	23095	Mid	Left	Cheek	LTE Band 12	A	0914M	10	QPSK	1	0	25.0	24.39	0	0.05	1:1	1.151	0.178	
707.50	23095	Mid	Left	Cheek	LTE Band 12	A	0914M	10	QPSK	25	0	24.0	23.25	1	0.10	1:1	1.189	0.145	
707.50	23095	Mid	Left	Tilt	LTE Band 12	A	0914M	10	QPSK	1	0	25.0	24.39	0	0.07	1:1	1.151	0.091	
707.50	23095	Mid	Left	Tilt	LTE Band 12	A	0914M	10	QPSK	25	0	24.0	23.25	1	0.05	1:1	1.189	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 11-8
LTE Band 13 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)	
782.00	23230	Mid	Right	Cheek	LTE Band 13	A	0914M	10	QPSK	1	0	25.0	24.46	0	-0.03	1:1	1.132	0.192	A8
782.00	23230	Mid	Right	Cheek	LTE Band 13	A	0914M	10	QPSK	25	0	24.0	23.56	1	0.06	1:1	1.107	0.155	
782.00	23230	Mid	Right	Tilt	LTE Band 13	A	0914M	10	QPSK	1	0	25.0	24.46	0	0.08	1:1	1.132	0.082	
782.00	23230	Mid	Right	Tilt	LTE Band 13	A	0914M	10	QPSK	25	0	24.0	23.56	1	0.12	1:1	1.107	0.064	
782.00	23230	Mid	Left	Cheek	LTE Band 13	A	0914M	10	QPSK	1	0	25.0	24.46	0	0.05	1:1	1.132	0.170	
782.00	23230	Mid	Left	Cheek	LTE Band 13	A	0914M	10	QPSK	25	0	24.0	23.56	1	0.11	1:1	1.107	0.126	
782.00	23230	Mid	Left	Tilt	LTE Band 13	A	0914M	10	QPSK	1	0	25.0	24.46	0	0.07	1:1	1.132	0.089	
782.00	23230	Mid	Left	Tilt	LTE Band 13	A	0914M	10	QPSK	25	0	24.0	23.56	1	0.10	1:1	1.107	0.066	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population										Head 1.6 W/kg (mW/g) averaged over 1 gram									

Table 11-9
LTE Band 14 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)	
793.00	23330	Mid	Right	Cheek	LTE Band 14	A	0914M	10	QPSK	1	0	24.5	23.71	0	0.05	1:1	1.199	0.248	A9
793.00	23330	Mid	Right	Cheek	LTE Band 14	A	0914M	10	QPSK	25	12	23.5	22.66	1	-0.04	1:1	1.213	0.181	
793.00	23330	Mid	Right	Tilt	LTE Band 14	A	0914M	10	QPSK	1	0	24.5	23.71	0	0.16	1:1	1.199	0.109	
793.00	23330	Mid	Right	Tilt	LTE Band 14	A	0914M	10	QPSK	25	12	23.5	22.66	1	0.02	1:1	1.213	0.084	
793.00	23330	Mid	Left	Cheek	LTE Band 14	A	0914M	10	QPSK	1	0	24.5	23.71	0	0.05	1:1	1.199	0.181	
793.00	23330	Mid	Left	Cheek	LTE Band 14	A	0914M	10	QPSK	25	12	23.5	22.66	1	0.07	1:1	1.213	0.148	
793.00	23330	Mid	Left	Tilt	LTE Band 14	A	0914M	10	QPSK	1	0	24.5	23.71	0	0.05	1:1	1.199	0.100	
793.00	23330	Mid	Left	Tilt	LTE Band 14	A	0914M	10	QPSK	25	12	23.5	22.66	1	0.03	1:1	1.213	0.079	
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.	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	0914M	15	QPSK	1	36	25.0	24.13	0	-0.01	1:1	0.210	1.222	0.257	A10
831.50	26865	Mid	Right	Cheek	LTE Band 26 (Cell)	A	0914M	15	QPSK	36	18	24.0	23.09	1	0.04	1:1	0.167	1.233	0.206	
831.50	26865	Mid	Right	Tilt	LTE Band 26 (Cell)	A	0914M	15	QPSK	1	36	25.0	24.13	0	0.02	1:1	0.101	1.222	0.123	
831.50	26865	Mid	Right	Tilt	LTE Band 26 (Cell)	A	0914M	15	QPSK	36	18	24.0	23.09	1	0.06	1:1	0.079	1.233	0.097	
831.50	26865	Mid	Left	Cheek	LTE Band 26 (Cell)	A	0914M	15	QPSK	1	36	25.0	24.13	0	0.05	1:1	0.173	1.222	0.211	
831.50	26865	Mid	Left	Cheek	LTE Band 26 (Cell)	A	0914M	15	QPSK	36	18	24.0	23.09	1	0.07	1:1	0.134	1.233	0.165	
831.50	26865	Mid	Left	Tilt	LTE Band 26 (Cell)	A	0914M	15	QPSK	1	36	25.0	24.13	0	0.06	1:1	0.095	1.222	0.116	
831.50	26865	Mid	Left	Tilt	LTE Band 26 (Cell)	A	0914M	15	QPSK	36	18	24.0	23.09	1	0.11	1:1	0.075	1.233	0.092	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT										Head										
Spatial Peak										1.6 W/kg (mW/g)										
Uncontrolled Exposure/General Population										averaged over 1 gram										

Table 11-11
LTE Band 5 (Cell) 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)	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	1014M	10	QPSK	1	0	25.0	24.02	0	0.06	1:1	0.232	1.253	0.291	
1 CC Uplink	N/A	836.50	20525	Mid	Right	Cheek	LTE Band 5 (Cell)	A	1014M	10	QPSK	25	0	24.0	22.91	1	0.07	1:1	0.185	1.285	0.238	
2 CC Uplink	PCC	836.50	20525	Mid	Right	Cheek	LTE Band 5 (Cell)	A	1014M	10	QPSK	1	0	25.0	24.08	0	-0.01	1:1	0.237	1.236	0.293	A11
	SCC	829.30	20453							5		1	24									
1 CC Uplink	N/A	836.50	20525	Mid	Right	Tilt	LTE Band 5 (Cell)	A	1014M	10	QPSK	1	0	25.0	24.02	0	0.06	1:1	0.112	1.253	0.140	
1 CC Uplink	N/A	836.50	20525	Mid	Right	Tilt	LTE Band 5 (Cell)	A	1014M	10	QPSK	25	0	24.0	22.91	1	0.01	1:1	0.090	1.285	0.116	
1 CC Uplink	N/A	836.50	20525	Mid	Left	Cheek	LTE Band 5 (Cell)	A	1014M	10	QPSK	1	0	25.0	24.02	0	0.09	1:1	0.195	1.253	0.244	
1 CC Uplink	N/A	836.50	20525	Mid	Left	Cheek	LTE Band 5 (Cell)	A	1014M	10	QPSK	25	0	24.0	22.91	1	0.07	1:1	0.150	1.285	0.193	
1 CC Uplink	N/A	836.50	20525	Mid	Left	Tilt	LTE Band 5 (Cell)	A	1014M	10	QPSK	1	0	25.0	24.02	0	0.02	1:1	0.102	1.253	0.128	
1 CC Uplink	N/A	836.50	20525	Mid	Left	Tilt	LTE Band 5 (Cell)	A	1014M	10	QPSK	25	0	24.0	22.91	1	0.06	1:1	0.081	1.285	0.104	
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 11-12
LTE Band 66 (AWS) 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)	Scaling Factor	Reported SAR (1g)	Plot #	
		MHz	Ch.															(W/kg)		(W/kg)		
1 CC Uplink	N/A	1770.00	132572	High	Right	Cheek	LTE Band 66 (AWS)	A	0424M	20	QPSK	1	0	24.5	23.81	0	0.06	1:1	0.037	1.172	0.043	
1 CC Uplink	N/A	1770.00	132572	High	Right	Cheek	LTE Band 66 (AWS)	A	0424M	20	QPSK	1	99	24.5	24.02	0	0.02	1:1	0.047	1.117	0.052	A12
1 CC Uplink	N/A	1770.00	132572	High	Right	Cheek	LTE Band 66 (AWS)	A	0424M	20	QPSK	50	50	22.5	21.93	2	0.08	1:1	0.029	1.140	0.033	
1 CC Uplink	N/A	1775.00	132622	High	Right	Cheek	LTE Band 66 (AWS)	A	0424M	10	QPSK	1	0	24.5	23.86	0	0.00	1:1	0.043	1.159	0.050	
2 CC Uplink CA_66C	PCC	1770.00	132572	High	Right	Cheek	LTE Band 66 (AWS)	A	0424M	20	QPSK	1	0	24.5	24.00	0	-0.13	1:1	0.040	1.122	0.045	
	SCC	1750.20	132374										99									
2 CC Uplink CA_66B	PCC	1775.00	132622	High	Right	Cheek	LTE Band 66 (AWS)	A	0424M	10	QPSK	1	0	24.5	24.05	0	0.05	1:1	0.044	1.109	0.049	
	SCC	1765.10	132523										49									
1 CC Uplink	N/A	1770.00	132572	High	Right	Tilt	LTE Band 66 (AWS)	A	0424M	20	QPSK	1	99	24.5	24.02	0	0.09	1:1	0.026	1.117	0.029	
1 CC Uplink	N/A	1770.00	132572	High	Right	Tilt	LTE Band 66 (AWS)	A	0424M	20	QPSK	50	50	22.5	21.93	2	-0.20	1:1	0.018	1.140	0.021	
1 CC Uplink	N/A	1770.00	132572	High	Left	Cheek	LTE Band 66 (AWS)	A	0424M	20	QPSK	1	99	24.5	24.02	0	0.02	1:1	0.029	1.117	0.032	
1 CC Uplink	N/A	1770.00	132572	High	Left	Cheek	LTE Band 66 (AWS)	A	0424M	20	QPSK	50	50	22.5	21.93	2	-0.07	1:1	0.018	1.140	0.021	
1 CC Uplink	N/A	1770.00	132572	High	Left	Tilt	LTE Band 66 (AWS)	A	0424M	20	QPSK	1	99	24.5	24.02	0	0.13	1:1	0.018	1.117	0.020	
1 CC Uplink	N/A	1770.00	132572	High	Left	Tilt	LTE Band 66 (AWS)	A	0424M	20	QPSK	50	50	22.5	21.93	2	-0.15	1:1	0.012	1.140	0.014	
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 11-13
LTE Band 25 (PCS) 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)		
1860.00	26140	Low	Right	Cheek	LTE Band 25 (PCS)	A	0661M	20	QPSK	1	50	24.5	24.20	0	0.16	1:1	0.048	1.072	0.051	
1860.00	26140	Low	Right	Cheek	LTE Band 25 (PCS)	A	0661M	20	QPSK	50	25	22.5	22.12	2	-0.10	1:1	0.035	1.091	0.038	
1860.00	26140	Low	Right	Tilt	LTE Band 25 (PCS)	A	0661M	20	QPSK	1	50	24.5	24.20	0	-0.13	1:1	0.029	1.072	0.031	
1860.00	26140	Low	Right	Tilt	LTE Band 25 (PCS)	A	0661M	20	QPSK	50	25	22.5	22.12	2	0.04	1:1	0.018	1.091	0.020	
1860.00	26140	Low	Left	Cheek	LTE Band 25 (PCS)	A	0661M	20	QPSK	1	50	24.5	24.20	0	0.00	1:1	0.062	1.072	0.066	A13
1860.00	26140	Low	Left	Cheek	LTE Band 25 (PCS)	A	0661M	20	QPSK	50	25	22.5	22.12	2	-0.20	1:1	0.035	1.091	0.038	
1860.00	26140	Low	Left	Tilt	LTE Band 25 (PCS)	A	0661M	20	QPSK	1	50	24.5	24.20	0	0.05	1:1	0.055	1.072	0.059	
1860.00	26140	Low	Left	Tilt	LTE Band 25 (PCS)	A	0661M	20	QPSK	50	25	22.5	22.12	2	0.06	1:1	0.022	1.091	0.024	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population										Head 1.6 W/kg (mW/g) averaged over 1 gram										

Table 11-14
LTE Band 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	B	0661M	10	QPSK	1	49	23.0	22.03	0	-0.08	1:1	0.030	1.250	0.038	
2310.00	27710	Mid	Right	Cheek	LTE Band 30	B	0661M	10	QPSK	25	0	21.0	20.33	2	-0.04	1:1	0.021	1.167	0.025	
2310.00	27710	Mid	Right	Tilt	LTE Band 30	B	0661M	10	QPSK	1	49	23.0	22.03	0	0.08	1:1	0.008	1.250	0.010	
2310.00	27710	Mid	Right	Tilt	LTE Band 30	B	0661M	10	QPSK	25	0	21.0	20.33	2	0.09	1:1	0.005	1.167	0.006	
2310.00	27710	Mid	Left	Cheek	LTE Band 30	B	0661M	10	QPSK	1	49	23.0	22.03	0	-0.12	1:1	0.034	1.250	0.043	A14
2310.00	27710	Mid	Left	Cheek	LTE Band 30	B	0661M	10	QPSK	25	0	21.0	20.33	2	0.07	1:1	0.020	1.167	0.023	
2310.00	27710	Mid	Left	Tilt	LTE Band 30	B	0661M	10	QPSK	1	49	23.0	22.03	0	0.09	1:1	0.011	1.250	0.014	
2310.00	27710	Mid	Left	Tilt	LTE Band 30	B	0661M	10	QPSK	25	0	21.0	20.33	2	0.05	1:1	0.006	1.167	0.007	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population									Head 1.6 W/kg (mW/g) averaged over 1 gram											

Table 11-15
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)	
2510.00	20850	Low	Right	Cheek	LTE Band 7	B	0661M	20	QPSK	1	0	24.5	23.60	0	0.15	1:1	0.052	1.230	0.064	
2510.00	20850	Low	Right	Cheek	LTE Band 7	B	0661M	20	QPSK	50	0	22.5	21.70	2	0.09	1:1	0.030	1.202	0.036	
2510.00	20850	Low	Right	Tilt	LTE Band 7	B	0661M	20	QPSK	1	0	24.5	23.60	0	-0.02	1:1	0.058	1.230	0.071	
2510.00	20850	Low	Right	Tilt	LTE Band 7	B	0661M	20	QPSK	50	0	22.5	21.70	2	0.09	1:1	0.033	1.202	0.040	
2510.00	20850	Low	Left	Cheek	LTE Band 7	B	0661M	20	QPSK	1	0	24.5	23.60	0	-0.09	1:1	0.091	1.230	0.112	A15
2510.00	20850	Low	Left	Cheek	LTE Band 7	B	0661M	20	QPSK	50	0	22.5	21.70	2	-0.08	1:1	0.057	1.202	0.069	
2510.00	20850	Low	Left	Tilt	LTE Band 7	B	0661M	20	QPSK	1	0	24.5	23.60	0	0.01	1:1	0.036	1.230	0.044	
2510.00	20850	Low	Left	Tilt	LTE Band 7	B	0661M	20	QPSK	50	0	22.5	21.70	2	0.03	1:1	0.021	1.202	0.025	
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	2680.00	41490	High	Right	Cheek	LTE Band 41	B	0981M	20	QPSK	1	50	25.0	24.11	0	-0.15	1:1.58	0.029	1.227	0.036	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	Right	Cheek	LTE Band 41	B	0981M	20	QPSK	50	50	24.0	23.17	1	0.09	1:1.58	0.019	1.211	0.023	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	Right	Tilt	LTE Band 41	B	0981M	20	QPSK	1	50	25.0	24.11	0	0.01	1:1.58	0.032	1.227	0.039	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	Right	Tilt	LTE Band 41	B	0981M	20	QPSK	50	50	24.0	23.17	1	0.10	1:1.58	0.024	1.211	0.029	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	Left	Cheek	LTE Band 41	B	0981M	20	QPSK	1	0	25.0	23.87	0	0.03	1:1.58	0.079	1.297	0.102	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	Left	Cheek	LTE Band 41	B	0981M	20	QPSK	1	50	25.0	24.11	0	0.19	1:1.58	0.084	1.227	0.103	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	Left	Cheek	LTE Band 41	B	0981M	20	QPSK	50	50	24.0	23.17	1	-0.02	1:1.58	0.065	1.211	0.079	
1 CC Uplink - Power Class 2	N/A	2680.00	41490	High	Left	Cheek	LTE Band 41	B	0981M	20	QPSK	1	0	26.6	25.40	0	0.01	1:2.31	0.074	1.318	0.098	
1 CC Uplink - Power Class 2	N/A	2680.00	41490	High	Left	Cheek	LTE Band 41	B	0981M	20	QPSK	1	50	26.6	25.73	0	-0.09	1:2.31	0.090	1.222	0.110	
2 CC Uplink - Power Class 3	PCC	2680.00	41490	High	Left	Cheek	LTE Band 41	B	0981M	20	QPSK	1	0	25.0	24.25	0	0.02	1:1.58	0.090	1.189	0.107	A16
	SCC	2660.20	41292										99									
2 CC Uplink - Power Class 2	PCC	2680.00	41490	High	Left	Cheek	LTE Band 41	B	0981M	20	QPSK	1	0	26.6	26.00	0	0.01	1:2.31	0.090	1.148	0.103	
	SCC	2660.20	41292										99									
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	Left	Tilt	LTE Band 41	B	0981M	20	QPSK	1	50	25.0	24.11	0	-0.11	1:1.58	0.029	1.227	0.036	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	Left	Tilt	LTE Band 41	B	0981M	20	QPSK	50	50	24.0	23.17	1	0.08	1:1.58	0.021	1.211	0.025	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population												Head 1.6 W/kg (mW/g) averaged over 1 gram										

Table 11-17
LTE Band 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)	Scaling Factor	Reported SAR (1g)	Plot #
		MHz	Ch.	(W/kg)															(W/kg)			
1 CC Uplink	N/A	3560.00	55340	Low	Right	Cheek	LTE Band 48	F	0835M	20	QPSK	1	50	17.0	16.25	0	-0.06	1:1.58	0.586	1.189	0.697	
1 CC Uplink	N/A	3603.30	55773	Low-Mid	Right	Cheek	LTE Band 48	F	0835M	20	QPSK	1	0	17.0	16.30	0	0.04	1:1.58	0.649	1.175	0.763	
1 CC Uplink	N/A	3646.70	56207	Mid-High	Right	Cheek	LTE Band 48	F	0835M	20	QPSK	1	0	17.0	16.21	0	0.00	1:1.58	0.769	1.199	0.922	
1 CC Uplink	N/A	3690.00	56640	High	Right	Cheek	LTE Band 48	F	0835M	20	QPSK	1	0	17.0	16.45	0	-0.07	1:1.58	0.848	1.135	0.962	
1 CC Uplink	N/A	3690.00	56640	High	Right	Cheek	LTE Band 48	F	0835M	20	QPSK	1	99	17.0	16.65	0	0.02	1:1.58	0.936	1.084	1.015	A17
1 CC Uplink	N/A	3560.00	55340	Low	Right	Cheek	LTE Band 48	F	0835M	20	QPSK	50	25	17.0	16.22	0	-0.10	1:1.58	0.580	1.197	0.694	
1 CC Uplink	N/A	3603.30	55773	Low-Mid	Right	Cheek	LTE Band 48	F	0835M	20	QPSK	50	0	17.0	16.37	0	0.02	1:1.58	0.669	1.156	0.773	
1 CC Uplink	N/A	3646.70	56207	Mid-High	Right	Cheek	LTE Band 48	F	0835M	20	QPSK	50	25	17.0	16.21	0	0.02	1:1.58	0.795	1.199	0.953	
1 CC Uplink	N/A	3690.00	56640	High	Right	Cheek	LTE Band 48	F	0835M	20	QPSK	50	25	17.0	16.62	0	0.01	1:1.58	0.926	1.091	1.010	
1 CC Uplink	N/A	3690.00	56640	High	Right	Cheek	LTE Band 48	F	0835M	20	QPSK	100	0	17.0	16.55	0	0.00	1:1.58	0.913	1.109	1.013	
2 CC Uplink	PCC	3690.00	56640	High	Right	Cheek	LTE Band 48	F	0835M	20	QPSK	1	0	17.0	16.12	0	-0.12	1:1.58	0.817	1.225	1.001	
	SCC	3670.20	56442										99									
1 CC Uplink	N/A	3560.00	55340	Low	Right	Tilt	LTE Band 48	F	0835M	20	QPSK	1	50	17.0	16.25	0	0.02	1:1.58	0.416	1.189	0.495	
1 CC Uplink	N/A	3603.30	55773	Low-Mid	Right	Tilt	LTE Band 48	F	0835M	20	QPSK	1	0	17.0	16.30	0	-0.02	1:1.58	0.446	1.175	0.524	
1 CC Uplink	N/A	3646.70	56207	Mid-High	Right	Tilt	LTE Band 48	F	0835M	20	QPSK	1	0	17.0	16.21	0	0.00	1:1.58	0.536	1.199	0.643	
1 CC Uplink	N/A	3690.00	56640	High	Right	Tilt	LTE Band 48	F	0835M	20	QPSK	1	99	17.0	16.65	0	-0.09	1:1.58	0.666	1.084	0.722	
1 CC Uplink	N/A	3560.00	55340	Low	Right	Tilt	LTE Band 48	F	0835M	20	QPSK	50	25	17.0	16.22	0	0.06	1:1.58	0.408	1.197	0.488	
1 CC Uplink	N/A	3603.30	55773	Low-Mid	Right	Tilt	LTE Band 48	F	0835M	20	QPSK	50	0	17.0	16.37	0	0.00	1:1.58	0.462	1.156	0.534	
1 CC Uplink	N/A	3646.70	56207	Mid-High	Right	Tilt	LTE Band 48	F	0835M	20	QPSK	50	25	17.0	16.21	0	-0.01	1:1.58	0.558	1.199	0.669	
1 CC Uplink	N/A	3690.00	56640	High	Right	Tilt	LTE Band 48	F	0835M	20	QPSK	50	25	17.0	16.62	0	0.00	1:1.58	0.668	1.091	0.729	
1 CC Uplink	N/A	3690.00	56640	High	Right	Tilt	LTE Band 48	F	0835M	20	QPSK	100	0	17.0	16.55	0	-0.01	1:1.58	0.654	1.109	0.725	
1 CC Uplink	N/A	3690.00	56640	High	Left	Cheek	LTE Band 48	F	0835M	20	QPSK	1	99	17.0	16.65	0	0.03	1:1.58	0.214	1.084	0.232	
1 CC Uplink	N/A	3690.00	56640	High	Left	Cheek	LTE Band 48	F	0835M	20	QPSK	50	25	17.0	16.62	0	0.16	1:1.58	0.211	1.091	0.230	
1 CC Uplink	N/A	3690.00	56640	High	Left	Tilt	LTE Band 48	F	0835M	20	QPSK	1	99	17.0	16.65	0	0.08	1:1.58	0.165	1.084	0.179	
1 CC Uplink	N/A	3690.00	56640	High	Left	Tilt	LTE Band 48	F	0835M	20	QPSK	50	25	17.0	16.62	0	0.07	1:1.58	0.157	1.091	0.171	
1 CC Uplink	N/A	3690.00	56640	High	Right	Cheek	LTE Band 48	F	0835M	20	QPSK	1	99	17.0	16.65	0	-0.05	1:1.58	0.877	1.084	0.951	
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: Blue entry represents variability measurement.

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Table 11-18
NR Band n71 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)			
680.50	136100	Mid	Right	Cheek	NR Band n71	A	0651M	20	DFT-S-OFDM	QPSK	1	1	25.0	23.75	0	-0.02	1:1	0.202	1.334	0.269	A18	
680.50	136100	Mid	Right	Cheek	NR Band n71	A	0651M	20	DFT-S-OFDM	QPSK	50	28	25.0	23.69	0	-0.01	1:1	0.190	1.352	0.257		
680.50	136100	Mid	Right	Cheek	NR Band n71	A	0651M	20	CP-OFDM	QPSK	1	1	23.5	22.45	1.5	0.04	1:1	0.137	1.274	0.175		
680.50	136100	Mid	Right	Tilt	NR Band n71	A	0651M	20	DFT-S-OFDM	QPSK	1	1	25.0	23.75	0	-0.06	1:1	0.071	1.334	0.095		
680.50	136100	Mid	Right	Tilt	NR Band n71	A	0651M	20	DFT-S-OFDM	QPSK	50	28	25.0	23.69	0	-0.04	1:1	0.074	1.352	0.100		
680.50	136100	Mid	Left	Cheek	NR Band n71	A	0651M	20	DFT-S-OFDM	QPSK	1	1	25.0	23.75	0	-0.06	1:1	0.187	1.334	0.249		
680.50	136100	Mid	Left	Cheek	NR Band n71	A	0651M	20	DFT-S-OFDM	QPSK	50	28	25.0	23.69	0	0.02	1:1	0.185	1.352	0.250		
680.50	136100	Mid	Left	Tilt	NR Band n71	A	0651M	20	DFT-S-OFDM	QPSK	1	1	25.0	23.75	0	-0.15	1:1	0.061	1.334	0.081		
680.50	136100	Mid	Left	Tilt	NR Band n71	A	0651M	20	DFT-S-OFDM	QPSK	50	28	25.0	23.69	0	0.02	1:1	0.068	1.352	0.092		
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	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.																				
707.50	141500	Md	Right	Cheek	NR Band n12	A	0651M	15	DFT-S-OFDM	QPSK	1	1	25.0	23.79	0	0.00	1:1	0.177	1.321	0.234	
707.50	141500	Md	Right	Cheek	NR Band n12	A	0651M	15	DFT-S-OFDM	QPSK	36	22	25.0	23.61	0	-0.02	1:1	0.187	1.377	0.257	
707.50	141500	Md	Right	Tilt	NR Band n12	A	0651M	15	DFT-S-OFDM	QPSK	1	1	25.0	23.79	0	0.09	1:1	0.091	1.321	0.120	
707.50	141500	Md	Right	Tilt	NR Band n12	A	0651M	15	DFT-S-OFDM	QPSK	36	22	25.0	23.61	0	0.02	1:1	0.094	1.377	0.129	
707.50	141500	Md	Left	Cheek	NR Band n12	A	0651M	15	DFT-S-OFDM	QPSK	1	1	25.0	23.79	0	0.16	1:1	0.182	1.321	0.240	
707.50	141500	Md	Left	Cheek	NR Band n12	A	0651M	15	DFT-S-OFDM	QPSK	36	22	25.0	23.61	0	0.04	1:1	0.191	1.377	0.263	A19
707.50	141500	Md	Left	Cheek	NR Band n12	A	0651M	15	CP-OFDM	QPSK	1	1	23.5	22.23	1.5	-0.01	1:1	0.127	1.340	0.170	
707.50	141500	Md	Left	Tilt	NR Band n12	A	0651M	15	DFT-S-OFDM	QPSK	1	1	25.0	23.79	0	-0.20	1:1	0.095	1.321	0.125	
707.50	141500	Md	Left	Tilt	NR Band n12	A	0651M	15	DFT-S-OFDM	QPSK	36	22	25.0	23.61	0	-0.09	1:1	0.108	1.377	0.149	
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 n5 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)		
836.50	167300	Mid	Right	Cheek	NR Band n5 (Cell)	A	0957M	20	DFT-S-OFDM	QPSK	1	53	25.0	23.72	0	-0.03	1:1	0.194	1.343	0.261	A20
836.50	167300	Mid	Right	Cheek	NR Band n5 (Cell)	A	0957M	20	DFT-S-OFDM	QPSK	50	28	25.0	23.68	0	-0.09	1:1	0.195	1.355	0.264	
836.50	167300	Mid	Right	Cheek	NR Band n5 (Cell)	A	0957M	20	CP-OFDM	QPSK	1	1	23.5	22.24	1.5	-0.08	1:1	0.126	1.337	0.168	
836.50	167300	Mid	Right	Tilt	NR Band n5 (Cell)	A	0957M	20	DFT-S-OFDM	QPSK	1	53	25.0	23.72	0	-0.01	1:1	0.100	1.343	0.134	
836.50	167300	Mid	Right	Tilt	NR Band n5 (Cell)	A	0957M	20	DFT-S-OFDM	QPSK	50	28	25.0	23.68	0	-0.02	1:1	0.102	1.355	0.138	
836.50	167300	Mid	Left	Cheek	NR Band n5 (Cell)	A	0957M	20	DFT-S-OFDM	QPSK	1	53	25.0	23.72	0	-0.05	1:1	0.173	1.343	0.232	
836.50	167300	Mid	Left	Cheek	NR Band n5 (Cell)	A	0957M	20	DFT-S-OFDM	QPSK	50	28	25.0	23.68	0	0.00	1:1	0.182	1.355	0.247	
836.50	167300	Mid	Left	Tilt	NR Band n5 (Cell)	A	0957M	20	DFT-S-OFDM	QPSK	1	53	25.0	23.72	0	-0.06	1:1	0.099	1.343	0.133	
836.50	167300	Mid	Left	Tilt	NR Band n5 (Cell)	A	0957M	20	DFT-S-OFDM	QPSK	50	28	25.0	23.68	0	-0.02	1:1	0.100	1.355	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									

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Table 11-21
NR Band n66 Antenna A 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)		
1745.00	349000	Mid	Right	Cheek	NR Band n66 (AWS)	A	0931M	40	DFT-S-OFDM	QPSK	1	214	24.5	23.54	0	-0.04	1:1	0.085	1.247	0.106	
1745.00	349000	Mid	Right	Cheek	NR Band n66 (AWS)	A	0931M	40	DFT-S-OFDM	QPSK	108	54	24.5	23.72	0	-0.12	1:1	0.084	1.197	0.101	
1745.00	349000	Mid	Right	Cheek	NR Band n66 (AWS)	A	0931M	40	CP-OFDM	QPSK	1	1	23.0	21.92	1.5	-0.08	1:1	0.049	1.282	0.063	
1745.00	349000	Mid	Right	Tilt	NR Band n66 (AWS)	A	0931M	40	DFT-S-OFDM	QPSK	1	214	24.5	23.54	0	0.03	1:1	0.035	1.247	0.044	
1745.00	349000	Mid	Right	Tilt	NR Band n66 (AWS)	A	0931M	40	DFT-S-OFDM	QPSK	108	54	24.5	23.72	0	0.15	1:1	0.034	1.197	0.041	
1745.00	349000	Mid	Left	Cheek	NR Band n66 (AWS)	A	0931M	40	DFT-S-OFDM	QPSK	1	214	24.5	23.54	0	-0.16	1:1	0.058	1.247	0.072	
1745.00	349000	Mid	Left	Cheek	NR Band n66 (AWS)	A	0931M	40	DFT-S-OFDM	QPSK	108	54	24.5	23.72	0	-0.05	1:1	0.059	1.197	0.071	
1745.00	349000	Mid	Left	Tilt	NR Band n66 (AWS)	A	0931M	40	DFT-S-OFDM	QPSK	1	214	24.5	23.54	0	0.02	1:1	0.025	1.247	0.031	
1745.00	349000	Mid	Left	Tilt	NR Band n66 (AWS)	A	0931M	40	DFT-S-OFDM	QPSK	108	54	24.5	23.72	0	0.01	1:1	0.039	1.197	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 11-22
NR Band n66 Antenna I 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) (W/kg)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.																		(W/kg)		(W/kg)
1745.00	349000	Mid	Right	Cheek	NR Band n66 (AWS)	I	0658M	40	DFT-S-OFDM	QPSK	1	108	16.0	15.30	0	-0.06	1:1	0.053	1.175	0.062	
1745.00	349000	Mid	Right	Cheek	NR Band n66 (AWS)	I	0658M	40	DFT-S-OFDM	QPSK	108	108	16.0	15.27	0	-0.07	1:1	0.056	1.183	0.066	
1745.00	349000	Mid	Right	Tilt	NR Band n66 (AWS)	I	0658M	40	DFT-S-OFDM	QPSK	1	108	16.0	15.30	0	0.03	1:1	0.007	1.175	0.008	
1745.00	349000	Mid	Right	Tilt	NR Band n66 (AWS)	I	0658M	40	DFT-S-OFDM	QPSK	108	108	16.0	15.27	0	0.02	1:1	0.009	1.183	0.011	
1745.00	349000	Mid	Left	Cheek	NR Band n66 (AWS)	I	0658M	40	DFT-S-OFDM	QPSK	1	108	16.0	15.30	0	-0.01	1:1	0.160	1.175	0.188	
1745.00	349000	Mid	Left	Cheek	NR Band n66 (AWS)	I	0658M	40	DFT-S-OFDM	QPSK	108	108	16.0	15.27	0	-0.02	1:1	0.154	1.183	0.182	
1745.00	349000	Mid	Left	Cheek	NR Band n66 (AWS)	I	0658M	40	CP-OFDM	QPSK	1	1	16.0	15.06	0	0.03	1:1	0.178	1.242	0.221	A21
1745.00	349000	Mid	Left	Tilt	NR Band n66 (AWS)	I	0658M	40	DFT-S-OFDM	QPSK	1	108	16.0	15.30	0	0.09	1:1	0.027	1.175	0.032	
1745.00	349000	Mid	Left	Tilt	NR Band n66 (AWS)	I	0658M	40	DFT-S-OFDM	QPSK	108	108	16.0	15.27	0	0.08	1:1	0.028	1.183	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											

Table 11-23
NR Band n25 Antenna A 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) (W/kg)	Scaling Factor	Reported SAR (1g)	Plot #
MHz	Ch.																			(W/kg)	
1882.50	376500	Mid	Right	Cheek	NR Band n25 (PCS)	A	0416M	40	DFT-S-OFDM	QPSK	1	1	24.5	23.78	0	-0.21	1:1	0.032	1.180	0.038	
1882.50	376500	Mid	Right	Cheek	NR Band n25 (PCS)	A	0416M	40	DFT-S-OFDM	QPSK	108	54	24.5	23.94	0	0.03	1:1	0.050	1.138	0.057	
1882.50	376500	Mid	Right	Tilt	NR Band n25 (PCS)	A	0416M	40	DFT-S-OFDM	QPSK	1	1	24.5	23.78	0	0.05	1:1	0.030	1.180	0.035	
1882.50	376500	Mid	Right	Tilt	NR Band n25 (PCS)	A	0416M	40	DFT-S-OFDM	QPSK	108	54	24.5	23.94	0	-0.04	1:1	0.040	1.138	0.046	
1882.50	376500	Mid	Left	Cheek	NR Band n25 (PCS)	A	0416M	40	DFT-S-OFDM	QPSK	1	1	24.5	23.78	0	0.01	1:1	0.043	1.180	0.051	
1882.50	376500	Mid	Left	Cheek	NR Band n25 (PCS)	A	0416M	40	DFT-S-OFDM	QPSK	108	54	24.5	23.94	0	-0.07	1:1	0.081	1.138	0.092	
1882.50	376500	Mid	Left	Cheek	NR Band n25 (PCS)	A	0416M	40	CP-OFDM	QPSK	1	1	23.0	22.53	1.5	0.05	1:1	0.034	1.114	0.038	
1882.50	376500	Mid	Left	Tilt	NR Band n25 (PCS)	A	0416M	40	DFT-S-OFDM	QPSK	1	1	24.5	23.78	0	0.06	1:1	0.021	1.180	0.025	
1882.50	376500	Mid	Left	Tilt	NR Band n25 (PCS)	A	0416M	40	DFT-S-OFDM	QPSK	108	54	24.5	23.94	0	-0.15	1:1	0.025	1.138	0.028	
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 11-24
NR Band n25 Antenna I 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)		
1882.50	376500	Mid	Right	Cheek	NR Band n25 (PCS)	I	0658M	40	DFT-S-OFDM	QPSK	1	108	16.5	16.28	0	-0.01	1:1	0.359	1.052	0.378	
1882.50	376500	Mid	Right	Cheek	NR Band n25 (PCS)	I	0658M	40	DFT-S-OFDM	QPSK	108	108	16.5	16.34	0	-0.02	1:1	0.373	1.038	0.387	
1882.50	376500	Mid	Right	Tilt	NR Band n25 (PCS)	I	0658M	40	DFT-S-OFDM	QPSK	1	108	16.5	16.28	0	-0.14	1:1	0.070	1.052	0.074	
1882.50	376500	Mid	Right	Tilt	NR Band n25 (PCS)	I	0658M	40	DFT-S-OFDM	QPSK	108	108	16.5	16.34	0	0.04	1:1	0.061	1.038	0.063	
1882.50	376500	Mid	Left	Cheek	NR Band n25 (PCS)	I	0658M	40	DFT-S-OFDM	QPSK	1	108	16.5	16.28	0	-0.01	1:1	0.674	1.052	0.709	
1882.50	376500	Mid	Left	Cheek	NR Band n25 (PCS)	I	0658M	40	DFT-S-OFDM	QPSK	108	108	16.5	16.34	0	-0.04	1:1	0.709	1.038	0.736	A22
1882.50	376500	Mid	Left	Cheek	NR Band n25 (PCS)	I	0658M	40	CP-OFDM	QPSK	1	1	16.5	16.24	0	-0.04	1:1	0.613	1.062	0.651	
1882.50	376500	Mid	Left	Tilt	NR Band n25 (PCS)	I	0658M	40	DFT-S-OFDM	QPSK	1	108	16.5	16.28	0	0.05	1:1	0.129	1.052	0.136	
1882.50	376500	Mid	Left	Tilt	NR Band n25 (PCS)	I	0658M	40	DFT-S-OFDM	QPSK	108	108	16.5	16.34	0	-0.01	1:1	0.138	1.038	0.143	
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 11-25
NR Band n30 Antenna B 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	B	0414M	10	DFT-S-OFDM	QPSK	1	50	23.5	23.50	0	-0.08	1:1	0.034	1.000	0.034	
2310.00	462000	Mid	Right	Cheek	NR Band n30	B	0414M	10	DFT-S-OFDM	QPSK	25	14	23.5	23.47	0	-0.03	1:1	0.027	1.007	0.027	
2310.00	462000	Mid	Right	Tilt	NR Band n30	B	0414M	10	DFT-S-OFDM	QPSK	1	50	23.5	23.50	0	0.05	1:1	0.022	1.000	0.022	
2310.00	462000	Mid	Right	Tilt	NR Band n30	B	0414M	10	DFT-S-OFDM	QPSK	25	14	23.5	23.47	0	0.12	1:1	0.021	1.007	0.021	
2310.00	462000	Mid	Left	Cheek	NR Band n30	B	0414M	10	DFT-S-OFDM	QPSK	1	50	23.5	23.50	0	0.16	1:1	0.057	1.000	0.057	
2310.00	462000	Mid	Left	Cheek	NR Band n30	B	0414M	10	DFT-S-OFDM	QPSK	25	14	23.5	23.47	0	-0.15	1:1	0.049	1.007	0.049	
2310.00	462000	Mid	Left	Cheek	NR Band n30	B	0414M	10	CP-OFDM	QPSK	1	1	22.0	22.00	1.5	-0.02	1:1	0.034	1.000	0.034	
2310.00	462000	Mid	Left	Tilt	NR Band n30	B	0414M	10	DFT-S-OFDM	QPSK	1	50	23.5	23.50	0	0.09	1:1	0.017	1.000	0.017	
2310.00	462000	Mid	Left	Tilt	NR Band n30	B	0414M	10	DFT-S-OFDM	QPSK	25	14	23.5	23.47	0	0.04	1:1	0.014	1.007	0.014	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population										Head 1.6 W/kg (mW/g) averaged over 1 gram											

Table 11-26
NR Band n30 Antenna I 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	I	0662M	10	DFT-S-OFDM	QPSK	1	50	17.0	16.57	0	-0.03	1:1	0.266	1.104	0.294	
2310.00	462000	Mid	Right	Cheek	NR Band n30	I	0662M	10	DFT-S-OFDM	QPSK	25	14	17.0	16.74	0	0.03	1:1	0.274	1.062	0.291	
2310.00	462000	Mid	Right	Tilt	NR Band n30	I	0662M	10	DFT-S-OFDM	QPSK	1	50	17.0	16.57	0	-0.07	1:1	0.053	1.104	0.059	
2310.00	462000	Mid	Right	Tilt	NR Band n30	I	0662M	10	DFT-S-OFDM	QPSK	25	14	17.0	16.74	0	-0.03	1:1	0.053	1.062	0.056	
2310.00	462000	Mid	Left	Cheek	NR Band n30	I	0662M	10	DFT-S-OFDM	QPSK	1	50	17.0	16.57	0	-0.03	1:1	0.582	1.104	0.643	
2310.00	462000	Mid	Left	Cheek	NR Band n30	I	0662M	10	DFT-S-OFDM	QPSK	25	14	17.0	16.74	0	-0.06	1:1	0.581	1.062	0.617	
2310.00	462000	Mid	Left	Cheek	NR Band n30	I	0662M	10	DFT-S-OFDM	QPSK	50	0	17.0	16.55	0	0.00	1:1	0.589	1.109	0.653	A23
2310.00	462000	Mid	Left	Cheek	NR Band n30	I	0662M	10	CP-OFDM	QPSK	1	1	17.0	16.62	0	-0.06	1:1	0.582	1.091	0.635	
2310.00	462000	Mid	Left	Tilt	NR Band n30	I	0662M	10	DFT-S-OFDM	QPSK	1	50	17.0	16.57	0	0.00	1:1	0.185	1.104	0.204	
2310.00	462000	Mid	Left	Tilt	NR Band n30	I	0662M	10	DFT-S-OFDM	QPSK	25	14	17.0	16.74	0	-0.18	1:1	0.184	1.062	0.195	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population										Head 1.6 W/kg (mW/g) averaged over 1 gram											

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Table 11-27
NR Band n7 Antenna B 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	0884M	40	DFT-S-OFDM	QPSK	1	108	24.5	24.27	0	-0.19	1:1	0.029	1.054	0.031	
2535.00	507000	Mid	Right	Cheek	NR Band n7	B	0884M	40	DFT-S-OFDM	QPSK	108	54	24.5	24.14	0	-0.18	1:1	0.030	1.086	0.033	
2535.00	507000	Mid	Right	Tilt	NR Band n7	B	0884M	40	DFT-S-OFDM	QPSK	1	108	24.5	24.27	0	0.08	1:1	0.033	1.054	0.035	
2535.00	507000	Mid	Right	Tilt	NR Band n7	B	0884M	40	DFT-S-OFDM	QPSK	108	54	24.5	24.14	0	0.04	1:1	0.035	1.086	0.038	
2535.00	507000	Mid	Left	Cheek	NR Band n7	B	0884M	40	DFT-S-OFDM	QPSK	1	108	24.5	24.27	0	0.01	1:1	0.054	1.054	0.057	
2535.00	507000	Mid	Left	Cheek	NR Band n7	B	0884M	40	DFT-S-OFDM	QPSK	108	54	24.5	24.14	0	-0.01	1:1	0.087	1.086	0.094	A24
2535.00	507000	Mid	Left	Cheek	NR Band n7	B	0884M	40	CP-OFDM	QPSK	1	1	23.0	22.46	1.5	0.18	1:1	0.048	1.132	0.054	
2535.00	507000	Mid	Left	Tilt	NR Band n7	B	0884M	40	DFT-S-OFDM	QPSK	1	108	24.5	24.27	0	0.02	1:1	0.029	1.054	0.031	
2535.00	507000	Mid	Left	Tilt	NR Band n7	B	0884M	40	DFT-S-OFDM	QPSK	108	54	24.5	24.14	0	0.00	1:1	0.037	1.086	0.040	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT																					
Spatial Peak										Head											
Uncontrolled Exposure/General Population										1.6 W/kg (mW/g) averaged over 1 gram											

Table 11-28
NR Band n41 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)		
2592.99	518598	Mid	Right	Cheek	NR Band n41	I	0884M	100	DFT-S-OFDM	QPSK	1	271	16.0	15.86	0	-0.04	1:1	0.222	1.033	0.229	
2592.99	518598	Mid	Right	Cheek	NR Band n41	I	0884M	100	DFT-S-OFDM	QPSK	135	138	16.0	15.67	0	0.01	1:1	0.199	1.079	0.215	
2592.99	518598	Mid	Right	Tilt	NR Band n41	I	0884M	100	DFT-S-OFDM	QPSK	1	271	16.0	15.86	0	-0.04	1:1	0.050	1.033	0.052	
2592.99	518598	Mid	Right	Tilt	NR Band n41	I	0884M	100	DFT-S-OFDM	QPSK	135	138	16.0	15.67	0	0.04	1:1	0.036	1.079	0.039	
2592.99	518598	Mid	Left	Cheek	NR Band n41	I	0649M	100	DFT-S-OFDM	QPSK	1	271	16.0	15.86	0	-0.07	1:1	0.737	1.033	0.761	A25
2592.99	518598	Mid	Left	Cheek	NR Band n41	I	0649M	100	DFT-S-OFDM	QPSK	135	138	16.0	15.67	0	0.00	1:1	0.637	1.079	0.687	
2592.99	518598	Mid	Left	Cheek	NR Band n41	I	0649M	100	DFT-S-OFDM	QPSK	270	0	16.0	15.55	0	0.07	1:1	0.724	1.109	0.803	
2592.99	518598	Mid	Left	Cheek	NR Band n41	I	0649M	100	CP-OFDM	QPSK	1	1	16.0	15.11	0	0.04	1:1	0.723	1.227	0.887	
2592.99	518598	Mid	Left	Tilt	NR Band n41	I	0884M	100	DFT-S-OFDM	QPSK	1	271	16.0	15.86	0	0.02	1:1	0.184	1.033	0.190	
2592.99	518598	Mid	Left	Tilt	NR Band n41	I	0884M	100	DFT-S-OFDM	QPSK	135	138	16.0	15.67	0	-0.01	1:1	0.139	1.079	0.150	
2592.99	518598	Mid	Right	Cheek	NR Band n41	B	0884M	100	CW/SRS	N/A	N/A	N/A	16.0	15.12	N/A	0.01	1:1	0.000	1.225	0.000	
2592.99	518598	Mid	Right	Tilt	NR Band n41	B	0884M	100	CW/SRS	N/A	N/A	N/A	16.0	15.12	N/A	0.07	1:1	0.000	1.225	0.000	
2592.99	518598	Mid	Left	Cheek	NR Band n41	B	0884M	100	CW/SRS	N/A	N/A	N/A	16.0	15.12	N/A	0.01	1:1	0.010	1.225	0.012	
2592.99	518598	Mid	Left	Tilt	NR Band n41	B	0884M	100	CW/SRS	N/A	N/A	N/A	16.0	15.12	N/A	0.01	1:1	0.000	1.225	0.000	
2592.99	518598	Mid	Right	Cheek	NR Band n41	F	0884M	100	CW/SRS	N/A	N/A	N/A	12.5	11.61	N/A	0.03	1:1	0.094	1.227	0.115	
2592.99	518598	Mid	Right	Tilt	NR Band n41	F	0884M	100	CW/SRS	N/A	N/A	N/A	12.5	11.61	N/A	-0.07	1:1	0.061	1.227	0.075	
2592.99	518598	Mid	Left	Cheek	NR Band n41	F	0884M	100	CW/SRS	N/A	N/A	N/A	12.5	11.61	N/A	0.04	1:1	0.023	1.227	0.028	
2592.99	518598	Mid	Left	Tilt	NR Band n41	F	0884M	100	CW/SRS	N/A	N/A	N/A	12.5	11.61	N/A	0.01	1:1	0.017	1.227	0.021	
2592.99	518598	Mid	Right	Cheek	NR Band n41	C	0884M	100	CW/SRS	N/A	N/A	N/A	11.0	10.28	N/A	0.20	1:1	0.000	1.180	0.000	
2592.99	518598	Mid	Right	Tilt	NR Band n41	C	0884M	100	CW/SRS	N/A	N/A	N/A	11.0	10.28	N/A	0.20	1:1	0.000	1.180	0.000	
2592.99	518598	Mid	Left	Cheek	NR Band n41	C	0884M	100	CW/SRS	N/A	N/A	N/A	11.0	10.28	N/A	0.09	1:1	0.003	1.180	0.004	
2592.99	518598	Mid	Left	Tilt	NR Band n41	C	0884M	100	CW/SRS	N/A	N/A	N/A	11.0	10.28	N/A	0.07	1:1	0.000	1.180	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 11-29
NR Band n48 Antenna F 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	0658M	40	DFT-S-OFDM	QPSK	1	1	15.0	14.61	0	0.03	1:1	0.524	1.094	0.573	A26
3624.99	641666	Mid	Right	Cheek	NR Band n48	F	0658M	40	DFT-S-OFDM	QPSK	1	1	15.0	14.36	0	-0.05	1:1	0.711	1.159	0.824	
3679.98	645332	High	Right	Cheek	NR Band n48	F	0658M	40	DFT-S-OFDM	QPSK	1	104	15.0	14.60	0	0.00	1:1	0.923	1.096	1.012	
3570.00	638000	Low	Right	Cheek	NR Band n48	F	0658M	40	DFT-S-OFDM	QPSK	50	0	15.0	14.45	0	0.01	1:1	0.531	1.135	0.603	
3624.99	641666	Mid	Right	Cheek	NR Band n48	F	0658M	40	DFT-S-OFDM	QPSK	50	0	15.0	14.01	0	-0.05	1:1	0.730	1.256	0.917	
3679.98	645332	High	Right	Cheek	NR Band n48	F	0658M	40	DFT-S-OFDM	QPSK	50	56	15.0	14.40	0	0.01	1:1	0.880	1.148	1.010	
3570.00	638000	Low	Right	Cheek	NR Band n48	F	0658M	40	DFT-S-OFDM	QPSK	100	0	15.0	14.40	0	0.00	1:1	0.558	1.148	0.641	
3570.00	638000	Low	Right	Cheek	NR Band n48	F	0658M	40	CP-OFDM	QPSK	1	1	15.0	14.38	0	0.02	1:1	0.498	1.153	0.574	
3570.00	638000	Low	Right	Tilt	NR Band n48	F	0949M	40	DFT-S-OFDM	QPSK	1	1	15.0	14.61	0	-0.04	1:1	0.495	1.094	0.542	
3570.00	638000	Low	Right	Tilt	NR Band n48	F	0949M	40	DFT-S-OFDM	QPSK	50	0	15.0	14.45	0	0.00	1:1	0.487	1.135	0.553	
3570.00	638000	Low	Left	Cheek	NR Band n48	F	0949M	40	DFT-S-OFDM	QPSK	1	1	15.0	14.61	0	0.03	1:1	0.122	1.094	0.133	
3570.00	638000	Low	Left	Cheek	NR Band n48	F	0949M	40	DFT-S-OFDM	QPSK	50	0	15.0	14.45	0	0.11	1:1	0.120	1.135	0.136	
3570.00	638000	Low	Left	Tilt	NR Band n48	F	0949M	40	DFT-S-OFDM	QPSK	1	1	15.0	14.61	0	0.04	1:1	0.167	1.094	0.183	
3570.00	638000	Low	Left	Tilt	NR Band n48	F	0949M	40	DFT-S-OFDM	QPSK	50	0	15.0	14.45	0	0.15	1:1	0.160	1.135	0.182	
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 11-30
NR Band n48 Antenna I, E, C 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)		
3679.98	645332	High	Right	Cheek	NR Band n48	I	0904M	40	CW/SRS	N/A	N/A	N/A	15.0	14.08	N/A	-0.09	1:1	0.286	1.236	0.353	
3679.98	645332	High	Right	Tilt	NR Band n48	I	0904M	40	CW/SRS	N/A	N/A	N/A	15.0	14.08	N/A	0.02	1:1	0.003	1.236	0.004	
3679.98	645332	High	Left	Cheek	NR Band n48	I	0904M	40	CW/SRS	N/A	N/A	N/A	15.0	14.08	N/A	0.06	1:1	0.093	1.236	0.115	
3679.98	645332	High	Left	Tilt	NR Band n48	I	0904M	40	CW/SRS	N/A	N/A	N/A	15.0	14.08	N/A	0.20	1:1	0.002	1.236	0.002	
3679.98	645332	High	Right	Cheek	NR Band n48	E	0904M	40	CW/SRS	N/A	N/A	N/A	15.0	14.07	N/A	-0.04	1:1	0.289	1.239	0.358	
3679.98	645332	High	Right	Tilt	NR Band n48	E	0904M	40	CW/SRS	N/A	N/A	N/A	15.0	14.07	N/A	0.04	1:1	0.043	1.239	0.053	
3570.00	638000	Low	Left	Cheek	NR Band n48	E	0904M	40	CW/SRS	N/A	N/A	N/A	15.0	13.93	N/A	0.00	1:1	0.419	1.279	0.536	
3624.99	641666	Mid	Left	Cheek	NR Band n48	E	0904M	40	CW/SRS	N/A	N/A	N/A	15.0	13.92	N/A	0.00	1:1	0.469	1.282	0.601	
3679.98	645332	High	Left	Cheek	NR Band n48	E	0904M	40	CW/SRS	N/A	N/A	N/A	15.0	14.07	N/A	-0.04	1:1	0.550	1.239	0.681	
3679.98	645332	High	Left	Tilt	NR Band n48	E	0904M	40	CW/SRS	N/A	N/A	N/A	15.0	14.07	N/A	0.02	1:1	0.028	1.239	0.035	
3679.98	645332	High	Right	Cheek	NR Band n48	C	0904M	40	CW/SRS	N/A	N/A	N/A	15.0	14.10	N/A	0.20	1:1	0.000	1.230	0.000	
3679.98	645332	High	Right	Tilt	NR Band n48	C	0904M	40	CW/SRS	N/A	N/A	N/A	15.0	14.10	N/A	0.03	1:1	0.000	1.230	0.000	
3679.98	645332	High	Left	Cheek	NR Band n48	C	0904M	40	CW/SRS	N/A	N/A	N/A	15.0	14.10	N/A	0.19	1:1	0.005	1.230	0.006	
3679.98	645332	High	Left	Tilt	NR Band n48	C	0904M	40	CW/SRS	N/A	N/A	N/A	15.0	14.10	N/A	0.09	1:1	0.000	1.230	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											

FCC ID: A3LSMF721U	SAR EVALUATION REPORT										Approved by: Technical Manager
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Table 11-31
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 (1g) (W/kg)	Scaling Factor	Reported SAR (1g) (W/kg)	Plot #	
MHz	Ch.																				
3500.01	633334	Mid	Right	Cheek	NR Band n77 DoD	F	0894M	100	DFT-S-OFDM	QPSK	1	137	15.0	14.05	0	0.03	1:1	0.473	1.245	0.589	
3500.01	633334	Mid	Right	Cheek	NR Band n77 DoD	F	0894M	100	DFT-S-OFDM	QPSK	135	0	15.0	14.05	0	0.01	1:1	0.441	1.245	0.549	
3500.01	633334	Mid	Right	Cheek	NR Band n77 DoD	F	0894M	100	CP-OFDM	QPSK	1	1	15.0	13.70	0	-0.01	1:1	0.444	1.349	0.599	
3500.01	633334	Mid	Right	Tilt	NR Band n77 DoD	F	0894M	100	DFT-S-OFDM	QPSK	1	137	15.0	14.05	0	0.00	1:1	0.292	1.245	0.364	
3500.01	633334	Mid	Right	Tilt	NR Band n77 DoD	F	0894M	100	DFT-S-OFDM	QPSK	135	0	15.0	14.05	0	0.06	1:1	0.268	1.245	0.334	
3500.01	633334	Mid	Left	Cheek	NR Band n77 DoD	F	0894M	100	DFT-S-OFDM	QPSK	1	137	15.0	14.05	0	-0.05	1:1	0.095	1.245	0.118	
3500.01	633334	Mid	Left	Cheek	NR Band n77 DoD	F	0894M	100	DFT-S-OFDM	QPSK	135	0	15.0	14.05	0	0.07	1:1	0.092	1.245	0.115	
3500.01	633334	Mid	Left	Tilt	NR Band n77 DoD	F	0894M	100	DFT-S-OFDM	QPSK	1	137	15.0	14.05	0	0.10	1:1	0.110	1.245	0.137	
3500.01	633334	Mid	Left	Tilt	NR Band n77 DoD	F	0894M	100	DFT-S-OFDM	QPSK	135	0	15.0	14.05	0	0.16	1:1	0.107	1.245	0.133	
3500.01	633334	Mid	Right	Cheek	NR Band n77 DoD	I	0416M	100	CW/SRS	N/A	N/A	N/A	15.0	14.08	N/A	0.05	1:1	0.630	1.236	0.779	A27
3500.01	633334	Mid	Right	Tilt	NR Band n77 DoD	I	0416M	100	CW/SRS	N/A	N/A	N/A	15.0	14.08	N/A	0.03	1:1	0.021	1.236	0.026	
3500.01	633334	Mid	Left	Cheek	NR Band n77 DoD	I	0416M	100	CW/SRS	N/A	N/A	N/A	15.0	14.08	N/A	0.06	1:1	0.374	1.236	0.462	
3500.01	633334	Mid	Left	Tilt	NR Band n77 DoD	I	0416M	100	CW/SRS	N/A	N/A	N/A	15.0	14.08	N/A	0.09	1:1	0.065	1.236	0.080	
3500.01	633334	Mid	Right	Cheek	NR Band n77 DoD	E	0416M	100	CW/SRS	N/A	N/A	N/A	15.0	14.17	N/A	0.00	1:1	0.362	1.211	0.438	
3500.01	633334	Mid	Right	Tilt	NR Band n77 DoD	E	0416M	100	CW/SRS	N/A	N/A	N/A	15.0	14.17	N/A	0.05	1:1	0.046	1.211	0.056	
3500.01	633334	Mid	Left	Cheek	NR Band n77 DoD	E	0416M	100	CW/SRS	N/A	N/A	N/A	15.0	14.17	N/A	0.21	1:1	0.340	1.211	0.412	
3500.01	633334	Mid	Left	Tilt	NR Band n77 DoD	E	0416M	100	CW/SRS	N/A	N/A	N/A	15.0	14.17	N/A	0.20	1:1	0.035	1.211	0.042	
3500.01	633334	Mid	Right	Cheek	NR Band n77 DoD	C	0416M	100	CW/SRS	N/A	N/A	N/A	15.0	13.92	N/A	0.07	1:1	0.007	1.282	0.009	
3500.01	633334	Mid	Right	Tilt	NR Band n77 DoD	C	0416M	100	CW/SRS	N/A	N/A	N/A	15.0	13.92	N/A	0.05	1:1	0.000	1.282	0.000	
3500.01	633334	Mid	Left	Cheek	NR Band n77 DoD	C	0416M	100	CW/SRS	N/A	N/A	N/A	15.0	13.92	N/A	0.05	1:1	0.032	1.282	0.041	
3500.01	633334	Mid	Left	Tilt	NR Band n77 DoD	C	0416M	100	CW/SRS	N/A	N/A	N/A	15.0	13.92	N/A	0.05	1:1	0.000	1.282	0.000	
3750.00	650000	Low	Right	Cheek	NR Band n77	F	0894M	100	DFT-S-OFDM	QPSK	1	137	15.0	14.83	0	-0.12	1:1	0.778	1.040	0.809	A28
3930.00	662000	High	Right	Cheek	NR Band n77	F	0894M	100	DFT-S-OFDM	QPSK	1	137	15.0	14.43	0	0.09	1:1	0.450	1.140	0.513	
3750.00	650000	Low	Right	Cheek	NR Band n77	F	0894M	100	DFT-S-OFDM	QPSK	135	138	15.0	14.59	0	-0.01	1:1	0.703	1.099	0.773	
3930.00	662000	High	Right	Cheek	NR Band n77	F	0894M	100	DFT-S-OFDM	QPSK	135	69	15.0	14.23	0	0.10	1:1	0.445	1.194	0.531	
3750.00	650000	Low	Right	Cheek	NR Band n77	F	0894M	100	DFT-S-OFDM	QPSK	270	0	15.0	14.44	0	0.12	1:1	0.719	1.138	0.818	
3750.00	650000	Low	Right	Cheek	NR Band n77	F	0894M	100	CP-OFDM	QPSK	1	1	15.0	14.15	0	0.03	1:1	0.723	1.216	0.879	
3750.00	650000	Low	Right	Tilt	NR Band n77	F	0894M	100	DFT-S-OFDM	QPSK	1	137	15.0	14.83	0	0.02	1:1	0.542	1.040	0.564	
3930.00	662000	High	Right	Tilt	NR Band n77	F	0894M	100	DFT-S-OFDM	QPSK	1	137	15.0	14.43	0	-0.11	1:1	0.308	1.140	0.351	
3750.00	650000	Low	Right	Tilt	NR Band n77	F	0894M	100	DFT-S-OFDM	QPSK	135	138	15.0	14.59	0	-0.02	1:1	0.508	1.099	0.558	
3930.00	662000	High	Right	Tilt	NR Band n77	F	0894M	100	DFT-S-OFDM	QPSK	135	69	15.0	14.23	0	0.01	1:1	0.308	1.194	0.368	
3750.00	650000	Low	Right	Tilt	NR Band n77	F	0894M	100	DFT-S-OFDM	QPSK	270	0	15.0	14.44	0	0.01	1:1	0.526	1.138	0.599	
3750.00	650000	Low	Left	Cheek	NR Band n77	F	0894M	100	DFT-S-OFDM	QPSK	1	137	15.0	14.83	0	0.02	1:1	0.180	1.040	0.187	
3750.00	650000	Low	Left	Cheek	NR Band n77	F	0894M	100	DFT-S-OFDM	QPSK	135	138	15.0	14.59	0	0.04	1:1	0.166	1.099	0.182	
3750.00	650000	Low	Left	Tilt	NR Band n77	F	0894M	100	DFT-S-OFDM	QPSK	1	137	15.0	14.83	0	-0.01	1:1	0.165	1.040	0.172	
3750.00	650000	Low	Left	Tilt	NR Band n77	F	0894M	100	DFT-S-OFDM	QPSK	135	138	15.0	14.59	0	0.02	1:1	0.152	1.099	0.167	
3750.00	650000	Low	Right	Cheek	NR Band n77	I	0416M	100	CW/SRS	N/A	N/A	N/A	15.0	14.53	N/A	-0.01	1:1	0.358	1.114	0.399	
3750.00	650000	Low	Right	Tilt	NR Band n77	I	0416M	100	CW/SRS	N/A	N/A	N/A	15.0	14.53	N/A	0.08	1:1	0.008	1.114	0.009	
3750.00	650000	Low	Left	Cheek	NR Band n77	I	0416M	100	CW/SRS	N/A	N/A	N/A	15.0	14.53	N/A	0.04	1:1	0.160	1.114	0.178	
3750.00	650000	Low	Left	Tilt	NR Band n77	I	0416M	100	CW/SRS	N/A	N/A	N/A	15.0	14.53	N/A	0.03	1:1	0.009	1.114	0.010	
3750.00	650000	Low	Right	Cheek	NR Band n77	E	0416M	100	CW/SRS	N/A	N/A	N/A	15.0	14.15	N/A	-0.11	1:1	0.120	1.216	0.146	
3750.00	650000	Low	Right	Tilt	NR Band n77	E	0416M	100	CW/SRS	N/A	N/A	N/A	15.0	14.15	N/A	0.07	1:1	0.015	1.216	0.018	
3750.00	650000	Low	Left	Cheek	NR Band n77	E	0416M	100	CW/SRS	N/A	N/A	N/A	15.0	14.15	N/A	0.09	1:1	0.199	1.216	0.242	
3750.00	650000	Low	Left	Tilt	NR Band n77	E	0416M	100	CW/SRS	N/A	N/A	N/A	15.0	14.15	N/A	0.09	1:1	0.050	1.216	0.061	
3930.00	662000	High	Right	Cheek	NR Band n77	C	0416M	100	CW/SRS	N/A	N/A	N/A	15.0	14.12	N/A	0.06	1:1	0.000	1.225	0.000	
3930.00	662000	High	Right	Tilt	NR Band n77	C	0416M	100	CW/SRS	N/A	N/A	N/A	15.0	14.12	N/A	0.09	1:1	0.000	1.225	0.000	
3930.00	662000	High	Left	Cheek	NR Band n77	C	0416M	100	CW/SRS	N/A	N/A	N/A	15.0	14.12	N/A	0.07	1:1	0.000	1.225	0.000	
3930.00	662000	High	Left	Tilt	NR Band n77	C	0416M	100	CW/SRS	N/A	N/A	N/A	15.0	14.12	N/A	0.06	1:1	0.000	1.225	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 11-32
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]	Duty Cycle (%)	Peak SAR of Area Scan	SAR (1g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot #
MHz	Ch.													W/kg	(W/kg)			(W/kg)	
2462	11	Right	Cheek	802.11b	DSSS	2	0903M	22	1	13.0	12.95	0.01	99.42	0.079	0.056	1.012	1.006	0.057	
2462	11	Right	Tilt	802.11b	DSSS	2	0903M	22	1	13.0	12.95	-0.17	99.42	0.075	-	1.012	1.006	-	
2462	11	Left	Cheek	802.11b	DSSS	2	0903M	22	1	13.0	12.95	-0.03	99.42	0.288	0.253	1.012	1.006	0.258	
2462	11	Left	Tilt	802.11b	DSSS	2	0903M	22	1	13.0	12.95	0.05	99.42	0.188	-	1.012	1.006	-	
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 11-33
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]	Duty Cycle (%)	Peak SAR of Area Scan	SAR (1g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot #
MHz	Ch.															W/kg	(W/kg)		(W/kg)		
2412	1	Right	Cheek	802.11n	OFDM	MIMO	0903M	20	13	13.0	12.79	13.0	12.70	-0.02	97.94	0.352	0.278	1.072	1.021	0.304	A29
2412	1	Right	Tilt	802.11n	OFDM	MIMO	0903M	20	13	13.0	12.79	13.0	12.70	0.07	97.94	0.310	-	1.072	1.021	-	
2412	1	Left	Cheek	802.11n	OFDM	MIMO	0903M	20	13	13.0	12.79	13.0	12.70	0.07	97.94	0.316	0.267	1.072	1.021	0.292	
2412	1	Left	Tilt	802.11n	OFDM	MIMO	0903M	20	13	13.0	12.79	13.0	12.70	-0.03	97.94	0.239	-	1.072	1.021	-	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population											Head 1.6 W/kg (mW/g) averaged over 1 gram										

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

**Table 11-34
NII SISO Head 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]	Duty Cycle (%)	Peak SAR of Area Scan	SAR (1g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot #
MHz	Ch.													W/kg	(W/kg)			(W/kg)	
5290	58	Right	Cheek	802.11ac	OFDM	1	0664M	80	29.3	11.0	10.68	-0.17	95.99	0.205	0.151	1.076	1.042	0.169	
5290	58	Right	Tilt	802.11ac	OFDM	1	0664M	80	29.3	11.0	10.68	0.02	95.99	0.138	-	1.076	1.042	-	
5290	58	Left	Cheek	802.11ac	OFDM	1	0664M	80	29.3	11.0	10.68	0.20	95.99	0.137	-	1.076	1.042	-	
5290	58	Left	Tilt	802.11ac	OFDM	1	0664M	80	29.3	11.0	10.68	0.03	95.99	0.067	-	1.076	1.042	-	
5610	122	Right	Cheek	802.11ac	OFDM	1	0664M	80	29.3	11.0	10.80	0.03	95.99	0.211	0.126	1.047	1.042	0.137	
5610	122	Right	Tilt	802.11ac	OFDM	1	0664M	80	29.3	11.0	10.80	0.03	95.99	0.095	-	1.047	1.042	-	
5610	122	Left	Cheek	802.11ac	OFDM	1	0664M	80	29.3	11.0	10.80	0.07	95.99	0.065	-	1.047	1.042	-	
5610	122	Left	Tilt	802.11ac	OFDM	1	0664M	80	29.3	11.0	10.80	-0.11	95.99	0.042	-	1.047	1.042	-	
5775	155	Right	Cheek	802.11ac	OFDM	1	0664M	80	29.3	11.0	10.68	0.04	95.99	0.152	0.101	1.076	1.042	0.113	
5775	155	Right	Tilt	802.11ac	OFDM	1	0664M	80	29.3	11.0	10.68	0.04	95.99	0.080	-	1.076	1.042	-	
5775	155	Left	Cheek	802.11ac	OFDM	1	0664M	80	29.3	11.0	10.68	-0.11	95.99	0.024	-	1.076	1.042	-	
5775	155	Left	Tilt	802.11ac	OFDM	1	0664M	80	29.3	11.0	10.68	0.05	95.99	0.022	-	1.076	1.042	-	
5855	171	Right	Cheek	802.11ac	OFDM	1	0664M	80	29.3	11.0	10.92	0.07	95.99	0.161	0.091	1.019	1.042	0.097	
5855	171	Right	Tilt	802.11ac	OFDM	1	0664M	80	29.3	11.0	10.92	0.02	95.99	0.062	-	1.019	1.042	-	
5855	171	Left	Cheek	802.11ac	OFDM	1	0664M	80	29.3	11.0	10.92	0.20	95.99	0.011	-	1.019	1.042	-	
5855	171	Left	Tilt	802.11ac	OFDM	1	0664M	80	29.3	11.0	10.92	0.05	95.99	0.004	-	1.019	1.042	-	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population												Head 1.6 W/kg (mW/g) averaged over 1 gram							

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Table 11-35
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]	Duty Cycle (%)	Peak SAR of Area Scan	SAR (1g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g) (W/kg)	Plot #
MHz	Ch.															W/kg	(W/kg)				
5290	58	Right	Cheek	802.11ac	OFDM	MIMO	0664M	80	58.5	11.0	10.68	11.0	10.44	-0.15	92.36	0.310	0.197	1.138	1.083	0.243	
5290	58	Right	Tilt	802.11ac	OFDM	MIMO	0664M	80	58.5	11.0	10.68	11.0	10.44	-0.07	92.36	0.227	-	1.138	1.083	-	
5290	58	Left	Cheek	802.11ac	OFDM	MIMO	0664M	80	58.5	11.0	10.68	11.0	10.44	0.04	92.36	0.126	-	1.138	1.083	-	
5290	58	Left	Tilt	802.11ac	OFDM	MIMO	0664M	80	58.5	11.0	10.68	11.0	10.44	0.03	92.36	0.106	-	1.138	1.083	-	
5530	106	Right	Cheek	802.11ac	OFDM	MIMO	0664M	80	58.5	11.0	10.76	11.0	10.79	0.00	92.36	0.277	0.191	1.057	1.083	0.219	
5530	106	Right	Tilt	802.11ac	OFDM	MIMO	0664M	80	58.5	11.0	10.76	11.0	10.79	0.00	92.36	0.257	-	1.057	1.083	-	
5530	106	Left	Cheek	802.11ac	OFDM	MIMO	0664M	80	58.5	11.0	10.76	11.0	10.79	0.07	92.36	0.150	-	1.057	1.083	-	
5530	106	Left	Tilt	802.11ac	OFDM	MIMO	0664M	80	58.5	11.0	10.76	11.0	10.79	-0.13	92.36	0.148	-	1.057	1.083	-	
5775	155	Right	Cheek	802.11ac	OFDM	MIMO	0664M	80	58.5	11.0	10.68	11.0	10.79	-0.04	92.36	0.265	-	1.076	1.083	-	
5775	155	Right	Tilt	802.11ac	OFDM	MIMO	0664M	80	58.5	11.0	10.68	11.0	10.79	0.10	92.36	0.160	-	1.076	1.083	-	
5775	155	Left	Cheek	802.11ac	OFDM	MIMO	0664M	80	58.5	11.0	10.68	11.0	10.79	-0.04	92.36	0.294	-	1.076	1.083	-	
5775	155	Left	Tilt	802.11ac	OFDM	MIMO	0664M	80	58.5	11.0	10.68	11.0	10.79	0.06	92.36	0.336	0.235	1.076	1.083	0.274	
5855	171	Right	Cheek	802.11ac	OFDM	MIMO	0664M	80	58.5	11.0	10.92	11.0	10.95	0.02	92.36	0.203	-	1.019	1.083	-	
5855	171	Right	Tilt	802.11ac	OFDM	MIMO	0664M	80	58.5	11.0	10.92	11.0	10.95	-0.01	92.36	0.134	-	1.019	1.083	-	
5855	171	Left	Cheek	802.11ac	OFDM	MIMO	0664M	80	58.5	11.0	10.92	11.0	10.95	0.08	92.36	0.288	-	1.019	1.083	-	
5855	171	Left	Tilt	802.11ac	OFDM	MIMO	0664M	80	58.5	11.0	10.92	11.0	10.95	0.12	92.36	0.299	0.250	1.019	1.083	0.276	A30
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population											Head 1.6 W/kg (mW/g) averaged over 1 gram										

Note: To achieve the 14.0 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 11.0 dBm.

Table 11-36
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]	Duty Cycle (%)	SAR (1g)	Scaling Factor (Cond Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot #
MHz	Ch.												(W/kg)	(W/kg)	(W/kg)		
2441	39	Right	Cheek	Bluetooth	FHSS	1	0991M	1	11.5	11.45	0.00	76.80	0.146	1.012	1.302	0.192	
2441	39	Right	Tilt	Bluetooth	FHSS	1	0991M	1	11.5	11.45	0.02	76.80	0.152	1.012	1.302	0.200	A31
2441	39	Left	Cheek	Bluetooth	FHSS	1	0991M	1	11.5	11.45	-0.01	76.80	0.063	1.012	1.302	0.083	
2441	39	Left	Tilt	Bluetooth	FHSS	1	0991M	1	11.5	11.45	-0.03	76.80	0.073	1.012	1.302	0.096	
2402	0	Right	Cheek	Bluetooth	FHSS	2	0991M	1	11.5	10.19	0.02	76.80	0.051	1.352	1.302	0.090	
2402	0	Right	Tilt	Bluetooth	FHSS	2	0991M	1	11.5	10.19	0.08	76.80	0.050	1.352	1.302	0.088	
2402	0	Left	Cheek	Bluetooth	FHSS	2	0991M	1	11.5	10.19	0.16	76.80	0.144	1.352	1.302	0.253	
2402	0	Left	Tilt	Bluetooth	FHSS	2	0991M	1	11.5	10.19	0.01	76.80	0.097	1.352	1.302	0.171	
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 11-37
GSM Body-Worn SAR Data

MEASUREMENT RESULTS																
FREQUENCY		Side	Spacing	Mode	Service	Antenna Config.	Form Factor	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)	
848.80	251	back	15 mm	GSM 850	GSM	A	Open	0921M	33.2	32.41	-0.03	1:8.3	0.072	1.199	0.086	
848.80	251	back	15 mm	GSM 850	GSM	A	Closed	0425M	33.2	32.41	-0.05	1:8.3	0.254	1.199	0.305	A32
1880.00	661	back	15 mm	GSM 1900	GSM	A	Open	0414M	30.0	29.96	0.07	1:8.3	0.220	1.009	0.222	A33
1880.00	661	back	15 mm	GSM 1900	GSM	A	Closed	0932M	30.0	29.96	-0.01	1:8.3	0.103	1.009	0.104	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population									Body 1.6 W/kg (mW/g) averaged over 1 gram							

Table 11-38
UMTS Body-Worn SAR Data

MEASUREMENT RESULTS																
FREQUENCY		Side	Spacing	Mode	Service	Antenna Config.	Form Factor	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)	
846.60	4233	back	15 mm	UMTS 850	RMC	A	Open	0921M	25.0	24.38	-0.02	1:1	0.175	1.153	0.202	
846.60	4233	back	15 mm	UMTS 850	RMC	A	Closed	0921M	25.0	24.38	0.01	1:1	0.382	1.153	0.440	A34
1712.40	1312	back	15 mm	UMTS 1750	RMC	A	Open	0888M	25.0	24.33	0.01	1:1	0.776	1.167	0.906	A35
1732.40	1412	back	15 mm	UMTS 1750	RMC	A	Open	0888M	25.0	24.13	-0.01	1:1	0.560	1.222	0.684	
1752.60	1513	back	15 mm	UMTS 1750	RMC	A	Open	0888M	25.0	24.22	-0.03	1:1	0.571	1.197	0.683	
1712.40	1312	back	15 mm	UMTS 1750	RMC	A	Closed	0419M	25.0	24.33	0.06	1:1	0.202	1.167	0.236	
1852.40	9262	back	15 mm	UMTS 1900	RMC	A	Open	0888M	25.0	23.77	-0.02	1:1	0.603	1.327	0.800	
1880.00	9400	back	15 mm	UMTS 1900	RMC	A	Open	0888M	25.0	23.89	-0.01	1:1	0.656	1.291	0.847	
1907.60	9538	back	15 mm	UMTS 1900	RMC	A	Open	0888M	25.0	23.92	0.03	1:1	0.665	1.282	0.853	A36
1907.60	9538	back	15 mm	UMTS 1900	RMC	A	Closed	0932M	25.0	23.92	0.01	1:1	0.237	1.282	0.304	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population									Body 1.6 W/kg (mW/g) averaged over 1 gram							

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Table 11-39
LTE Body-Worn SAR

MEASUREMENT RESULTS																					
FREQUENCY		Side	Spacing	Mode	Antenna Config.	Form Factor	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	15 mm	LTE Band 71	A	Open	0914M	20	QPSK	1	50	25.0	24.24	0	0.03	1:1	0.249	1.191	0.297	A37
680.50	133297	Mid	back	15 mm	LTE Band 71	A	Open	0914M	20	QPSK	50	25	24.0	23.18	1	0.01	1:1	0.193	1.208	0.233	
680.50	133297	Mid	back	15 mm	LTE Band 71	A	Closed	0277M	20	QPSK	1	50	25.0	24.24	0	-0.01	1:1	0.192	1.191	0.229	
680.50	133297	Mid	back	15 mm	LTE Band 71	A	Closed	0277M	20	QPSK	50	25	24.0	23.18	1	0.01	1:1	0.147	1.208	0.178	
707.50	23095	Mid	back	15 mm	LTE Band 12	A	Open	0921M	10	QPSK	1	0	25.0	24.39	0	0.02	1:1	0.220	1.151	0.253	A38
707.50	23095	Mid	back	15 mm	LTE Band 12	A	Open	0921M	10	QPSK	25	0	24.0	23.25	1	0.01	1:1	0.174	1.189	0.207	
707.50	23095	Mid	back	15 mm	LTE Band 12	A	Closed	0277M	10	QPSK	1	0	25.0	24.39	0	0.04	1:1	0.158	1.151	0.182	
707.50	23095	Mid	back	15 mm	LTE Band 12	A	Closed	0277M	10	QPSK	25	0	24.0	23.25	1	-0.01	1:1	0.113	1.189	0.134	
782.00	23230	Mid	back	15 mm	LTE Band 13	A	Open	0921M	10	QPSK	1	0	25.0	24.46	0	-0.01	1:1	0.173	1.132	0.196	
782.00	23230	Mid	back	15 mm	LTE Band 13	A	Open	0921M	10	QPSK	25	0	24.0	23.56	1	0.00	1:1	0.143	1.107	0.158	
782.00	23230	Mid	back	15 mm	LTE Band 13	A	Closed	0277M	10	QPSK	1	0	25.0	24.46	0	0.01	1:1	0.211	1.132	0.239	A39
782.00	23230	Mid	back	15 mm	LTE Band 13	A	Closed	0277M	10	QPSK	25	0	24.0	23.56	1	-0.03	1:1	0.160	1.107	0.177	
793.00	23330	Mid	back	15 mm	LTE Band 14	A	Open	0914M	10	QPSK	1	0	24.5	23.71	0	0.01	1:1	0.176	1.199	0.211	
793.00	23330	Mid	back	15 mm	LTE Band 14	A	Open	0914M	10	QPSK	25	12	23.5	22.66	1	-0.01	1:1	0.138	1.213	0.167	
793.00	23330	Mid	back	15 mm	LTE Band 14	A	Closed	0914M	10	QPSK	1	0	24.5	23.71	0	-0.02	1:1	0.280	1.199	0.336	A40
793.00	23330	Mid	back	15 mm	LTE Band 14	A	Closed	0914M	10	QPSK	25	12	23.5	22.66	1	0.02	1:1	0.233	1.213	0.283	
831.50	26865	Mid	back	15 mm	LTE Band 26 (Cell)	A	Open	0277M	15	QPSK	1	36	25.0	24.13	0	0.04	1:1	0.146	1.222	0.178	
831.50	26865	Mid	back	15 mm	LTE Band 26 (Cell)	A	Open	0277M	15	QPSK	36	18	24.0	23.09	1	0.05	1:1	0.114	1.233	0.141	
831.50	26865	Mid	back	15 mm	LTE Band 26 (Cell)	A	Closed	0277M	15	QPSK	1	36	25.0	24.13	0	0.02	1:1	0.284	1.222	0.347	A41
831.50	26865	Mid	back	15 mm	LTE Band 26 (Cell)	A	Closed	0277M	15	QPSK	36	18	24.0	23.09	1	0.02	1:1	0.220	1.233	0.271	
1860.00	26140	Low	back	15 mm	LTE Band 25 (PCS)	A	Open	0414M	20	QPSK	1	50	24.5	24.20	0	-0.06	1:1	0.603	1.072	0.646	A44
1882.50	26365	Mid	back	15 mm	LTE Band 25 (PCS)	A	Open	0414M	20	QPSK	1	99	24.5	24.06	0	-0.13	1:1	0.545	1.107	0.603	
1905.00	26590	High	back	15 mm	LTE Band 25 (PCS)	A	Open	0414M	20	QPSK	1	99	24.5	24.16	0	0.01	1:1	0.545	1.081	0.589	
1860.00	26140	Low	back	15 mm	LTE Band 25 (PCS)	A	Open	0414M	20	QPSK	50	25	22.5	22.12	2	0.00	1:1	0.372	1.091	0.406	
1860.00	26140	Low	back	15 mm	LTE Band 25 (PCS)	A	Closed	0414M	20	QPSK	1	50	24.5	24.20	0	0.05	1:1	0.190	1.072	0.204	
1860.00	26140	Low	back	15 mm	LTE Band 25 (PCS)	A	Closed	0414M	20	QPSK	50	25	22.5	22.12	2	-0.06	1:1	0.121	1.091	0.132	
2310.00	27710	Mid	back	15 mm	LTE Band 30	B	Open	0646M	10	QPSK	1	49	23.0	22.03	0	0.04	1:1	0.312	1.250	0.390	A45
2310.00	27710	Mid	back	15 mm	LTE Band 30	B	Open	0646M	10	QPSK	25	0	21.0	20.33	2	0.02	1:1	0.199	1.167	0.232	
2310.00	27710	Mid	back	15 mm	LTE Band 30	B	Closed	0646M	10	QPSK	1	49	23.0	22.03	0	-0.01	1:1	0.248	1.250	0.310	
2310.00	27710	Mid	back	15 mm	LTE Band 30	B	Closed	0646M	10	QPSK	25	0	21.0	20.33	2	0.08	1:1	0.157	1.167	0.183	
2510.00	20850	Low	back	15 mm	LTE Band 7	B	Open	0414M	20	QPSK	1	0	24.5	23.60	0	0.02	1:1	0.233	1.230	0.287	A46
2510.00	20850	Low	back	15 mm	LTE Band 7	B	Open	0414M	20	QPSK	50	0	22.5	21.70	2	-0.02	1:1	0.147	1.202	0.177	
2510.00	20850	Low	back	15 mm	LTE Band 7	B	Closed	0414M	20	QPSK	1	0	24.5	23.60	0	-0.07	1:1	0.183	1.230	0.225	
2510.00	20850	Low	back	15 mm	LTE Band 7	B	Closed	0414M	20	QPSK	50	0	22.5	21.70	2	-0.03	1:1	0.108	1.202	0.130	
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 11-40
LTE Band 5 (Cell) Body-Worn SAR

MEASUREMENT RESULTS																							
# CC Uplink	Component Carrier	FREQUENCY		Side	Spacing	Mode	Antenna Config.	Form Factor	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	836.50	20525	Mid	back	15 mm	LTE Band 5 (Cell)	A	Open	1014M	10	QPSK	1	0	25.0	24.02	0	0.02	1:1	0.159	1.253	0.199	
1 CC Uplink	N/A	836.50	20525	Mid	back	15 mm	LTE Band 5 (Cell)	A	Open	1014M	10	QPSK	25	0	24.0	22.91	1	0.02	1:1	0.136	1.285	0.175	
1 CC Uplink	N/A	836.50	20525	Mid	back	15 mm	LTE Band 5 (Cell)	A	Closed	1014M	10	QPSK	1	0	25.0	24.02	0	-0.16	1:1	0.289	1.253	0.362	
1 CC Uplink	N/A	836.50	20525	Mid	back	15 mm	LTE Band 5 (Cell)	A	Closed	1014M	10	QPSK	25	0	24.0	22.91	1	-0.03	1:1	0.228	1.285	0.293	
2 CC Uplink	PCC	836.50	20525	Mid	back	15 mm	LTE Band 5 (Cell)	A	Closed	1014M	10	QPSK	1	0	25.0	24.08	0	-0.03	1:1	0.291	1.236	0.360	A42
	SCC	829.30	20453								5		1	24									
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 11-41
LTE Band 66 (AWS) Body-Worn SAR

MEASUREMENT RESULTS																							
# CC Uplink	Component Carrier	FREQUENCY			Side	Spacing	Mode	Antenna Config.	Form Factor	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	15 mm	LTE Band 66 (AWS)	A	Open	0424M	20	QPSK	1	50	24.5	23.69	0	-0.06	1:1	0.596	1.205	0.718	
1 CC Uplink	N/A	1720.00	132072	Low	back	15 mm	LTE Band 66 (AWS)	A	Open	0424M	20	QPSK	1	99	24.5	23.52	0	0.01	1:1	0.577	1.253	0.723	
1 CC Uplink	N/A	1745.00	132322	Mid	back	15 mm	LTE Band 66 (AWS)	A	Open	0424M	20	QPSK	1	50	24.5	23.58	0	0.01	1:1	0.424	1.236	0.524	
1 CC Uplink	N/A	1770.00	132572	High	back	15 mm	LTE Band 66 (AWS)	A	Open	0424M	20	QPSK	1	99	24.5	24.02	0	-0.02	1:1	0.618	1.117	0.690	
1 CC Uplink	N/A	1770.00	132572	High	back	15 mm	LTE Band 66 (AWS)	A	Open	0424M	20	QPSK	50	50	22.5	21.93	2	0.00	1:1	0.354	1.140	0.404	
1 CC Uplink	N/A	1715.00	132022	Low	back	15 mm	LTE Band 66 (AWS)	A	Open	0424M	10	QPSK	1	49	24.5	23.68	0	0.02	1:1	0.585	1.208	0.707	
2 CC Uplink CA_66C	PCC	1720.00	132072	Low	back	15 mm	LTE Band 66 (AWS)	A	Open	0424M	20	QPSK	1	99	24.5	23.85	0	0.03	1:1	0.620	1.161	0.720	A43
	SCC	1739.80	132270											0									
2 CC Uplink CA_66B	PCC	1715.00	132022	Low	back	15 mm	LTE Band 66 (AWS)	A	Open	0424M	10	QPSK	1	49	24.5	23.91	0	0.01	1:1	0.615	1.146	0.705	
	SCC	1724.90	132121											0									
1 CC Uplink	N/A	1770.00	132572	High	back	15 mm	LTE Band 66 (AWS)	A	Closed	0424M	20	QPSK	1	99	24.5	24.02	0	-0.02	1:1	0.166	1.117	0.185	
1 CC Uplink	N/A	1770.00	132572	High	back	15 mm	LTE Band 66 (AWS)	A	Closed	0424M	20	QPSK	50	50	22.5	21.93	2	0.13	1:1	0.093	1.140	0.106	
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 11-42
LTE Band 41 Body-Worn SAR

MEASUREMENT RESULTS																							
# CC Uplink, Power Class	Component Carrier	FREQUENCY		Side	Spacing	Mode	Antenna Config.	Form Factor	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	2680.00	41490	High	back	15 mm	LTE Band 41	B	Open	0424M	20	QPSK	1	0	25.0	23.87	0	0.02	1:1.58	0.248	1.297	0.322	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	back	15 mm	LTE Band 41	B	Open	0424M	20	QPSK	1	50	25.0	24.11	0	-0.02	1:1.58	0.274	1.227	0.336	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	back	15 mm	LTE Band 41	B	Open	0424M	20	QPSK	50	50	24.0	23.17	1	0.03	1:1.58	0.206	1.211	0.249	
1 CC Uplink - Power Class 2	N/A	2680.00	41490	High	back	15 mm	LTE Band 41	B	Open	0424M	20	QPSK	1	0	26.6	25.40	0	0.10	1:2.31	0.229	1.318	0.302	
1 CC Uplink - Power Class 2	N/A	2680.00	41490	High	back	15 mm	LTE Band 41	B	Open	0424M	20	QPSK	1	50	26.6	25.73	0	0.02	1:2.31	0.255	1.222	0.312	
2 CC Uplink - Power Class 3	PCC	2680.00	41490	High	back	15 mm	LTE Band 41	B	Open	0424M	20	QPSK	1	0	25.0	24.25	0	-0.03	1:1.58	0.283	1.189	0.336	A47
	SCC	2660.20	41292											99									
2 CC Uplink - Power Class 2	PCC	2680.00	41490	High	back	15 mm	LTE Band 41	B	Open	0424M	20	QPSK	1	0	26.6	26.00	0	0.07	1:2.31	0.263	1.148	0.302	
	SCC	2660.20	41292											50									
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	back	15 mm	LTE Band 41	B	Closed	0981M	20	QPSK	1	50	25.0	24.11	0	-0.03	1:1.58	0.103	1.227	0.126	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	back	15 mm	LTE Band 41	B	Closed	0981M	20	QPSK	50	50	24.0	23.17	1	-0.06	1:1.58	0.084	1.211	0.102	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT												Body											
Spatial Peak												1.6 W/kg (mW/g)											
Uncontrolled Exposure/General Population												averaged over 1 gram											

Table 11-43
LTE Band 48 Body-Worn SAR

MEASUREMENT RESULTS																							
# CC Uplink	Component Carrier	FREQUENCY		Side	Spacing	Mode	Antenna Config.	Form Factor	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	3560.00	55340	Low	back	15 mm	LTE Band 48	F	Open	0424M	20	QPSK	1	0	21.5	20.60	0	-0.08	1:1.58	0.100	1.230	0.123	
1 CC Uplink	N/A	3560.00	55340	Low	back	15 mm	LTE Band 48	F	Open	0424M	20	QPSK	50	25	21.5	20.44	0	0.04	1:1.58	0.107	1.276	0.137	
1 CC Uplink	N/A	3560.00	55340	Low	back	15 mm	LTE Band 48	F	Open	0424M	20	QPSK	50	50	21.5	20.41	0	0.01	1:1.58	0.106	1.285	0.136	
2 CC Uplink	PCC	3560.00	55340	Low	back	15 mm	LTE Band 48	F	Open	0424M	20	QPSK	50	50	21.5	20.70	0	-0.07	1:1.58	0.110	1.202	0.132	A48
	SCC	3579.80	55538											0									
1 CC Uplink	N/A	3560.00	55340	Low	back	15 mm	LTE Band 48	F	Closed	0424M	20	QPSK	1	0	21.5	20.60	0	0.00	1:1.58	0.024	1.230	0.030	
1 CC Uplink	N/A	3560.00	55340	Low	back	15 mm	LTE Band 48	F	Closed	0424M	20	QPSK	50	25	21.5	20.44	0	0.07	1:1.58	0.019	1.276	0.024	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population												Body 1.6 W/kg (mW/g) averaged over 1 gram											

FCC ID: A3LSMF721U	SAR EVALUATION REPORT										Approved by: Technical Manager											
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Table 11-44
NR Body-Worn SAR

MEASUREMENT RESULTS																						
FREQUENCY		Side	Spacing	Mode	Antenna Config	Form Factor	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	back	15 mm	NR Band n71	A	Open	0651M	20	DFT-S-OFDM	QPSK	1	1	25.0	23.75	0	0.05	1:1	0.236	1.334	0.315	A49
680.50	136100	Mid	back	15 mm	NR Band n71	A	Open	0651M	20	DFT-S-OFDM	QPSK	50	28	25.0	23.69	0	0.01	1:1	0.243	1.352	0.329	
680.50	136100	Mid	back	15 mm	NR Band n71	A	Open	0651M	20	CP-OFDM	QPSK	1	1	23.5	22.45	1.5	0.00	1:1	0.171	1.274	0.218	
680.50	136100	Mid	back	15 mm	NR Band n71	A	Closed	0651M	20	DFT-S-OFDM	QPSK	1	1	25.0	23.75	0	-0.09	1:1	0.205	1.334	0.273	
680.50	136100	Mid	back	15 mm	NR Band n71	A	Closed	0651M	20	DFT-S-OFDM	QPSK	50	28	25.0	23.69	0	0.02	1:1	0.224	1.352	0.303	A50
680.50	136100	Mid	back	15 mm	NR Band n71	A	Closed	0651M	20	CP-OFDM	QPSK	1	1	23.5	22.45	1.5	0.02	1:1	0.145	1.274	0.185	
707.50	141500	Mid	back	15 mm	NR Band n12	A	Open	0651M	15	DFT-S-OFDM	QPSK	1	1	25.0	23.79	0	0.00	1:1	0.217	1.321	0.287	
707.50	141500	Mid	back	15 mm	NR Band n12	A	Open	0651M	15	DFT-S-OFDM	QPSK	36	22	25.0	23.61	0	0.00	1:1	0.251	1.377	0.346	
707.50	141500	Mid	back	15 mm	NR Band n12	A	Open	0651M	15	CP-OFDM	QPSK	1	1	23.5	22.23	1.5	-0.01	1:1	0.158	1.340	0.212	A51
707.50	141500	Mid	back	15 mm	NR Band n12	A	Closed	0651M	15	DFT-S-OFDM	QPSK	1	1	25.0	23.79	0	-0.11	1:1	0.165	1.321	0.218	
707.50	141500	Mid	back	15 mm	NR Band n12	A	Closed	0651M	15	DFT-S-OFDM	QPSK	36	22	25.0	23.61	0	0.05	1:1	0.150	1.377	0.207	
707.50	141500	Mid	back	15 mm	NR Band n12	A	Closed	0651M	15	CP-OFDM	QPSK	1	1	23.5	22.23	1.5	-0.01	1:1	0.116	1.340	0.155	
836.50	167300	Mid	back	15 mm	NR Band n5 (Cell)	A	Open	0416M	20	DFT-S-OFDM	QPSK	1	53	25.0	23.72	0	0.04	1:1	0.178	1.343	0.239	A51
836.50	167300	Mid	back	15 mm	NR Band n5 (Cell)	A	Open	0416M	20	DFT-S-OFDM	QPSK	50	28	25.0	23.68	0	0.03	1:1	0.176	1.355	0.238	
836.50	167300	Mid	back	15 mm	NR Band n5 (Cell)	A	Open	0416M	20	CP-OFDM	QPSK	1	1	23.5	22.24	1.5	0.01	1:1	0.118	1.337	0.158	
836.50	167300	Mid	back	15 mm	NR Band n5 (Cell)	A	Closed	0416M	20	DFT-S-OFDM	QPSK	1	53	25.0	23.72	0	-0.01	1:1	0.341	1.343	0.458	
836.50	167300	Mid	back	15 mm	NR Band n5 (Cell)	A	Closed	0416M	20	DFT-S-OFDM	QPSK	50	28	25.0	23.68	0	-0.02	1:1	0.356	1.355	0.482	A51
836.50	167300	Mid	back	15 mm	NR Band n5 (Cell)	A	Closed	0416M	20	CP-OFDM	QPSK	1	1	23.5	22.24	1.5	0.03	1:1	0.222	1.337	0.297	
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 11-45
NR Band 66 Antenna A Body-Worn SAR

MEASUREMENT RESULTS																						
FREQUENCY		Side	Spacing	Mode	Antenna Config	Form Factor	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)		
1745.00	349000	Mid	back	15 mm	NR Band n66 (AWS)	A	Open	0931M	40	DFT-S-OFDM	QPSK	1	214	24.5	23.54	0	-0.03	1:1	0.752	1.247	0.938	A52
1745.00	349000	Mid	back	15 mm	NR Band n66 (AWS)	A	Open	0931M	40	DFT-S-OFDM	QPSK	108	54	24.5	23.72	0	0.11	1:1	0.644	1.197	0.771	
1745.00	349000	Mid	back	15 mm	NR Band n66 (AWS)	A	Open	0931M	40	DFT-S-OFDM	QPSK	216	0	23.5	22.85	1	-0.02	1:1	0.568	1.161	0.659	
1745.00	349000	Mid	back	15 mm	NR Band n66 (AWS)	A	Open	0931M	40	CP-OFDM	QPSK	1	1	23.0	21.92	1.5	-0.04	1:1	0.343	1.282	0.440	
1745.00	349000	Mid	back	15 mm	NR Band n66 (AWS)	A	Closed	0931M	40	DFT-S-OFDM	QPSK	1	214	24.5	23.54	0	-0.01	1:1	0.184	1.247	0.229	
1745.00	349000	Mid	back	15 mm	NR Band n66 (AWS)	A	Closed	0931M	40	DFT-S-OFDM	QPSK	108	54	24.5	23.72	0	0.03	1:1	0.210	1.197	0.251	
1745.00	349000	Mid	back	15 mm	NR Band n66 (AWS)	A	Closed	0931M	40	CP-OFDM	QPSK	1	1	23.0	21.92	1.5	0.13	1:1	0.170	1.282	0.218	
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 11-46
NR Band 66 Antenna I Body-Worn SAR

MEASUREMENT RESULTS																						
FREQUENCY		Side	Spacing	Mode	Antenna Config	Form Factor	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)		
1745.00	349000	Mid	back	15 mm	NR Band n66 (AWS)	I	Open	0662M	40	DFT-S-OFDM	QPSK	1	108	22.0	21.67	0	0.03	1:1	0.066	1.079	0.071	
1745.00	349000	Mid	back	15 mm	NR Band n66 (AWS)	I	Open	0662M	40	DFT-S-OFDM	QPSK	108	108	22.0	21.64	0	0.14	1:1	0.061	1.086	0.066	
1745.00	349000	Mid	back	15 mm	NR Band n66 (AWS)	I	Open	0662M	40	CP-OFDM	QPSK	1	1	22.0	21.43	0	-0.09	1:1	0.074	1.140	0.084	
1745.00	349000	Mid	back	15 mm	NR Band n66 (AWS)	I	Closed	0662M	40	DFT-S-OFDM	QPSK	1	108	22.0	21.67	0	0.09	1:1	0.008	1.079	0.009	
1745.00	349000	Mid	back	15 mm	NR Band n66 (AWS)	I	Closed	0662M	40	DFT-S-OFDM	QPSK	108	108	22.0	21.64	0	0.09	1:1	0.008	1.086	0.009	
1745.00	349000	Mid	back	15 mm	NR Band n66 (AWS)	I	Closed	0662M	40	CP-OFDM	QPSK	1	1	22.0	21.43	0	0.01	1:1	0.009	1.140	0.010	
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: A3LSMF721U	SAR EVALUATION REPORT										Approved by: Technical Manager									
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Table 11-47
NR Band 25 Antenna A Body-Worn SAR

MEASUREMENT RESULTS																						
FREQUENCY		Side	Spacing	Mode	Antenna Config	Form Factor	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)		
1882.50	376500	Mid	back	15 mm	NR Band n25 (PCS)	A	Open	0931M	40	DFT-S-OFDM	QPSK	1	1	24.5	23.78	0	-0.01	1:1	0.629	1.180	0.742	A53
1882.50	376500	Mid	back	15 mm	NR Band n25 (PCS)	A	Open	0931M	40	DFT-S-OFDM	QPSK	108	54	24.5	23.94	0	-0.10	1:1	0.712	1.138	0.810	
1882.50	376500	Mid	back	15 mm	NR Band n25 (PCS)	A	Open	0931M	40	DFT-S-OFDM	QPSK	216	0	23.5	23.19	1	0.01	1:1	0.576	1.074	0.619	
1882.50	376500	Mid	back	15 mm	NR Band n25 (PCS)	A	Open	0931M	40	CP-OFDM	QPSK	1	1	23.0	22.53	1.5	-0.01	1:1	0.487	1.114	0.543	
1882.50	376500	Mid	back	15 mm	NR Band n25 (PCS)	A	Closed	0414M	40	DFT-S-OFDM	QPSK	1	1	24.5	23.78	0	-0.13	1:1	0.158	1.180	0.186	
1882.50	376500	Mid	back	15 mm	NR Band n25 (PCS)	A	Closed	0414M	40	DFT-S-OFDM	QPSK	108	54	24.5	23.94	0	0.03	1:1	0.189	1.138	0.215	
1882.50	376500	Mid	back	15 mm	NR Band n25 (PCS)	A	Closed	0414M	40	CP-OFDM	QPSK	1	1	23.0	22.53	1.5	-0.01	1:1	0.129	1.114	0.144	
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 11-48
NR Band 25 Antenna I Body-Worn SAR

MEASUREMENT RESULTS																						
FREQUENCY		Side	Spacing	Mode	Antenna Config	Form Factor	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)		
1882.50	376500	Mid	back	15 mm	NR Band n25 (PCS)	I	Open	0636M	40	DFT-S-OFDM	QPSK	1	214	22.0	21.94	0	0.01	1:1	0.253	1.014	0.257	
1882.50	376500	Mid	back	15 mm	NR Band n25 (PCS)	I	Open	0636M	40	DFT-S-OFDM	QPSK	108	108	22.0	22.00	0	-0.02	1:1	0.259	1.000	0.259	
1882.50	376500	Mid	back	15 mm	NR Band n25 (PCS)	I	Open	0636M	40	CP-OFDM	QPSK	1	1	22.0	21.88	0	0.01	1:1	0.247	1.028	0.254	
1882.50	376500	Mid	back	15 mm	NR Band n25 (PCS)	I	Closed	0636M	40	DFT-S-OFDM	QPSK	1	214	22.0	21.94	0	0.01	1:1	0.044	1.014	0.045	
1882.50	376500	Mid	back	15 mm	NR Band n25 (PCS)	I	Closed	0636M	40	DFT-S-OFDM	QPSK	108	108	22.0	22.00	0	0.05	1:1	0.047	1.000	0.047	
1882.50	376500	Mid	back	15 mm	NR Band n25 (PCS)	I	Closed	0636M	40	CP-OFDM	QPSK	1	1	22.0	21.88	0	0.06	1:1	0.057	1.028	0.059	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak											Body 1.6 W/kg (mW/g) averaged over 1 gram											
Uncontrolled Exposure/General Population																						

Table 11-49
NR Band 30 Antenna B Body-Worn SAR

MEASUREMENT RESULTS																						
FREQUENCY			Side	Spacing	Mode	Antenna Config	Form Factor	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	back	15 mm	NR Band n30	B	Open	0646M	10	DFT-S-OFDM	QPSK	1	50	23.5	23.50	0	-0.20	1:1	0.320	1.000	0.320	A54
2310.00	462000	Mid	back	15 mm	NR Band n30	B	Open	0646M	10	DFT-S-OFDM	QPSK	25	14	23.5	23.47	0	-0.11	1:1	0.269	1.007	0.271	
2310.00	462000	Mid	back	15 mm	NR Band n30	B	Open	0646M	10	CP-OFDM	QPSK	1	1	22.0	22.00	1.5	0.01	1:1	0.191	1.000	0.191	
2310.00	462000	Mid	back	15 mm	NR Band n30	B	Closed	0646M	10	DFT-S-OFDM	QPSK	1	50	23.5	23.50	0	-0.06	1:1	0.263	1.000	0.263	
2310.00	462000	Mid	back	15 mm	NR Band n30	B	Closed	0646M	10	DFT-S-OFDM	QPSK	25	14	23.5	23.47	0	-0.09	1:1	0.205	1.007	0.206	
2310.00	462000	Mid	back	15 mm	NR Band n30	B	Closed	0646M	10	CP-OFDM	QPSK	1	1	22.0	22.00	1.5	0.09	1:1	0.182	1.000	0.182	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT											Body											
Spatial Peak											1.6 W/kg (mW/g)											
Uncontrolled Exposure/General Population											averaged over 1 gram											

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Table 11-50
NR Band 30 Antenna I Body-Worn SAR

MEASUREMENT RESULTS																					
FREQUENCY		Side	Spacing	Mode	Antenna Config	Form Factor	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.																				
2310.00	462000	Mid	back	15 mm	NR Band n30	I	Open	0568M	10	DFT-S-OFDM	QPSK	1	1	22.0	21.77	0	-0.01	1:1	0.153	1.054	0.161
2310.00	462000	Mid	back	15 mm	NR Band n30	I	Open	0568M	10	DFT-S-OFDM	QPSK	25	0	22.0	21.88	0	0.00	1:1	0.149	1.028	0.153
2310.00	462000	Mid	back	15 mm	NR Band n30	I	Open	0568M	10	CP-OFDM	QPSK	1	1	22.0	21.89	0	-0.01	1:1	0.154	1.026	0.158
2310.00	462000	Mid	back	15 mm	NR Band n30	I	Closed	0658M	10	DFT-S-OFDM	QPSK	1	1	22.0	21.77	0	0.02	1:1	0.036	1.054	0.038
2310.00	462000	Mid	back	15 mm	NR Band n30	I	Closed	0658M	10	DFT-S-OFDM	QPSK	25	0	22.0	21.88	0	-0.03	1:1	0.036	1.028	0.037
2310.00	462000	Mid	back	15 mm	NR Band n30	I	Closed	0658M	10	CP-OFDM	QPSK	1	1	22.0	21.89	0	0.09	1:1	0.037	1.026	0.038
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
NR Band 7 Antenna B Body-Worn SAR

MEASUREMENT RESULTS																						
FREQUENCY		Side	Spacing	Mode	Antenna Config	Form Factor	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	back	15 mm	NR Band n7	B	Open	0414M	40	DFT-S-OFDM	QPSK	1	108	24.5	24.27	0	0.03	1:1	0.224	1.054	0.236	A55
2535.00	507000	Mid	back	15 mm	NR Band n7	B	Open	0414M	40	DFT-S-OFDM	QPSK	108	54	24.5	24.14	0	0.02	1:1	0.227	1.086	0.247	
2535.00	507000	Mid	back	15 mm	NR Band n7	B	Open	0414M	40	CP-OFDM	QPSK	1	1	23.0	22.46	1.5	0.01	1:1	0.164	1.132	0.186	
2535.00	507000	Mid	back	15 mm	NR Band n7	B	Closed	0414M	40	DFT-S-OFDM	QPSK	1	108	24.5	24.27	0	0.04	1:1	0.159	1.054	0.168	
2535.00	507000	Mid	back	15 mm	NR Band n7	B	Closed	0414M	40	DFT-S-OFDM	QPSK	108	54	24.5	24.14	0	0.08	1:1	0.169	1.086	0.184	
2535.00	507000	Mid	back	15 mm	NR Band n7	B	Closed	0414M	40	CP-OFDM	QPSK	1	1	23.0	22.46	1.5	-0.06	1:1	0.085	1.132	0.096	
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 11-52
NR Band 41 Body-Worn SAR

MEASUREMENT RESULTS																						
FREQUENCY		Side	Spacing	Mode	Antenna Config	Form Factor	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.																					
2592.99	518598	Mid	back	15 mm	NR Band n41	I	Open	0649M	100	DFT-S-OFDM	QPSK	1	271	21.0	19.52	0	0.00	1:1	0.080	1.406	0.112	A56
2592.99	518598	Mid	back	15 mm	NR Band n41	I	Open	0649M	100	DFT-S-OFDM	QPSK	135	138	21.0	19.35	0	0.03	1:1	0.078	1.462	0.114	
2592.99	518598	Mid	back	15 mm	NR Band n41	I	Open	0649M	100	CP-OFDM	QPSK	1	1	21.0	19.12	0	0.16	1:1	0.058	1.542	0.089	
2592.99	518598	Mid	back	15 mm	NR Band n41	I	Closed	0636M	100	DFT-S-OFDM	QPSK	1	271	21.0	19.52	0	0.03	1:1	0.053	1.406	0.075	
2592.99	518598	Mid	back	15 mm	NR Band n41	I	Closed	0636M	100	DFT-S-OFDM	QPSK	135	138	21.0	19.35	0	0.07	1:1	0.057	1.462	0.083	
2592.99	518598	Mid	back	15 mm	NR Band n41	I	Closed	0636M	100	CP-OFDM	QPSK	1	1	21.0	19.12	0	-0.20	1:1	0.046	1.542	0.071	
2592.99	518598	Mid	back	15 mm	NR Band n41	B	Open	0649M	100	CW/SRS	N/A	N/A	N/A	16.0	15.12	N/A	-0.08	1:1	0.049	1.225	0.060	
2592.99	518598	Mid	back	15 mm	NR Band n41	B	Closed	0636M	100	CW/SRS	N/A	N/A	N/A	16.0	15.12	N/A	0.05	1:1	0.052	1.225	0.064	
2592.99	518598	Mid	back	15 mm	NR Band n41	F	Open	0649M	100	CW/SRS	N/A	N/A	N/A	17.5	16.12	N/A	0.08	1:1	0.016	1.374	0.022	
2592.99	518598	Mid	back	15 mm	NR Band n41	F	Closed	0636M	100	CW/SRS	N/A	N/A	N/A	17.5	16.12	N/A	0.04	1:1	0.000	1.374	0.000	
2592.99	518598	Mid	back	15 mm	NR Band n41	C	Open	0649M	100	CW/SRS	N/A	N/A	N/A	11.0	10.28	N/A	0.01	1:1	0.002	1.180	0.002	
2592.99	518598	Mid	back	15 mm	NR Band n41	C	Closed	0636M	100	CW/SRS	N/A	N/A	N/A	11.0	10.28	N/A	-0.03	1:1	0.006	1.180	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											

Table 11-53
NR Band 48 Antenna F Body-Worn SAR

MEASUREMENT RESULTS																						
FREQUENCY		Side	Spacing	Mode	Antenna Config	Form Factor	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	back	15 mm	NR Band n48	F	Open	0651M	40	DFT-S-OFDM	QPSK	1	1	19.0	18.95	0	-0.05	1:1	0.105	1.012	0.106	A57
3570.00	638000	Low	back	15 mm	NR Band n48	F	Open	0651M	40	DFT-S-OFDM	QPSK	50	0	19.0	18.89	0	-0.02	1:1	0.103	1.026	0.106	
3570.00	638000	Low	back	15 mm	NR Band n48	F	Open	0651M	40	CP-OFDM	QPSK	1	1	19.0	18.63	0	0.00	1:1	0.103	1.089	0.112	
3570.00	638000	Low	back	15 mm	NR Band n48	F	Closed	0651M	40	DFT-S-OFDM	QPSK	1	1	19.0	18.95	0	0.03	1:1	0.020	1.012	0.020	
3570.00	638000	Low	back	15 mm	NR Band n48	F	Closed	0651M	40	DFT-S-OFDM	QPSK	50	0	19.0	18.89	0	0.05	1:1	0.016	1.026	0.016	
3570.00	638000	Low	back	15 mm	NR Band n48	F	Closed	0651M	40	CP-OFDM	QPSK	1	1	19.0	18.63	0	0.21	1:1	0.018	1.089	0.020	
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
NR Band 48 Antenna I, E, C Body-Worn SAR

MEASUREMENT RESULTS																						
FREQUENCY		Side	Spacing	Mode	Antenna Config	Form Factor	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)		
3679.98	645332	High	back	15 mm	NR Band n48	I	Open	0651M	40	CW/SRS	N/A	NA	NA	19.0	18.08	N/A	0.11	1:1	0.069	1.236	0.085	
3679.98	645332	High	back	15 mm	NR Band n48	E	Open	0651M	40	CW/SRS	N/A	NA	NA	19.0	17.95	N/A	-0.02	1:1	0.073	1.274	0.093	
3679.98	645332	High	back	15 mm	NR Band n48	C	Open	0651M	40	CW/SRS	N/A	NA	NA	15.0	14.10	N/A	-0.04	1:1	0.011	1.230	0.014	
3679.98	645332	High	back	15 mm	NR Band n48	I	Closed	0651M	40	CW/SRS	N/A	NA	NA	19.0	18.08	N/A	0.17	1:1	0.012	1.236	0.015	
3679.98	645332	High	back	15 mm	NR Band n48	E	Closed	0651M	40	CW/SRS	N/A	NA	NA	19.0	17.95	N/A	-0.12	1:1	0.015	1.274	0.019	
3679.98	645332	High	back	15 mm	NR Band n48	C	Closed	0651M	40	CW/SRS	N/A	NA	NA	15.0	14.10	N/A	0.05	1:1	0.010	1.230	0.012	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak											Body 1.6 W/kg (mW/g) averaged over 1 gram											
Uncontrolled Exposure/General Population																						

Table 11-55
NR Band 77 DoD Body-Worn SAR

MEASUREMENT RESULTS																						
FREQUENCY		Side	Spacing	Mode	Antenna Config	Form Factor	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	Open	0651M	100	DFT-S-OFDM	QPSK	1	1	19.0	18.88	0	-0.04	1:1	0.079	1.028	0.081	
3500.01	633334	Mid	back	15 mm	NR Band n77 DoD	F	Open	0651M	100	DFT-S-OFDM	QPSK	135	0	19.0	18.83	0	-0.04	1:1	0.081	1.040	0.084	A58
3500.01	633334	Mid	back	15 mm	NR Band n77 DoD	F	Open	0651M	100	CP-OFDM	QPSK	1	1	19.0	18.51	0	-0.05	1:1	0.078	1.119	0.087	
3500.01	633334	Mid	back	15 mm	NR Band n77 DoD	F	Closed	0894M	100	DFT-S-OFDM	QPSK	1	1	19.0	18.88	0	0.18	1:1	0.046	1.028	0.047	
3500.01	633334	Mid	back	15 mm	NR Band n77 DoD	F	Closed	0894M	100	DFT-S-OFDM	QPSK	135	0	19.0	18.83	0	0.16	1:1	0.044	1.040	0.046	
3500.01	633334	Mid	back	15 mm	NR Band n77 DoD	F	Closed	0894M	100	CP-OFDM	QPSK	1	1	19.0	18.51	0	0.06	1:1	0.047	1.119	0.053	
3500.01	633334	Mid	back	15 mm	NR Band n77 DoD	I	Open	0651M	100	CW/SRS	N/A	NA	NA	19.0	17.92	N/A	0.06	1:1	0.038	1.282	0.049	
3500.01	633334	Mid	back	15 mm	NR Band n77 DoD	I	Closed	0651M	100	CW/SRS	N/A	NA	NA	19.0	17.92	N/A	-0.11	1:1	0.012	1.282	0.015	
3500.01	633334	Mid	back	15 mm	NR Band n77 DoD	E	Open	0651M	100	CW/SRS	N/A	NA	NA	19.0	18.03	N/A	0.10	1:1	0.043	1.250	0.054	
3500.01	633334	Mid	back	15 mm	NR Band n77 DoD	E	Closed	0651M	100	CW/SRS	N/A	NA	NA	19.0	18.03	N/A	-0.06	1:1	0.027	1.250	0.034	
3500.01	633334	Mid	back	15 mm	NR Band n77 DoD	C	Open	0651M	100	CW/SRS	N/A	NA	NA	15.0	13.92	N/A	0.03	1:1	0.020	1.282	0.026	
3500.01	633334	Mid	back	15 mm	NR Band n77 DoD	C	Closed	0651M	100	CW/SRS	N/A	NA	NA	15.0	13.92	N/A	0.12	1:1	0.021	1.282	0.027	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population											Body 1.6 W/kg (mW/g) averaged over 1 gram											

Table 11-56
NR Band 77 Body-Worn SAR

MEASUREMENT RESULTS																						
FREQUENCY		Side	Spacing	Mode	Antenna Config	Form Factor	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)		
3750.00	650000	Low	back	15 mm	NR Band n77	F	Open	0651M	100	DFT-S-OFDM	QPSK	1	137	19.0	18.91	0	-0.03	1:1	0.182	1.021	0.186	
3750.00	650000	Low	back	15 mm	NR Band n77	F	Open	0651M	100	DFT-S-OFDM	QPSK	135	69	19.0	18.78	0	0.03	1:1	0.183	1.052	0.193	A59
3930.00	662000	High	back	15 mm	NR Band n77	F	Open	0651M	100	CP-OFDM	QPSK	1	1	19.0	18.35	0	-0.05	1:1	0.169	1.161	0.196	
3750.00	650000	Low	back	15 mm	NR Band n77	F	Closed	0651M	100	DFT-S-OFDM	QPSK	1	137	19.0	18.91	0	0.09	1:1	0.031	1.021	0.032	
3750.00	650000	Low	back	15 mm	NR Band n77	F	Closed	0651M	100	DFT-S-OFDM	QPSK	135	69	19.0	18.78	0	-0.06	1:1	0.031	1.052	0.033	
3930.00	662000	High	back	15 mm	NR Band n77	F	Closed	0651M	100	CP-OFDM	QPSK	1	1	19.0	18.35	0	0.01	1:1	0.041	1.161	0.048	
3930.00	662000	High	back	15 mm	NR Band n77	I	Open	0894M	100	CW/SRS	N/A	NA	NA	19.0	18.26	N/A	0.09	1:1	0.005	1.186	0.006	
3930.00	662000	High	back	15 mm	NR Band n77	I	Closed	0894M	100	CW/SRS	N/A	NA	NA	19.0	18.26	N/A	0.09	1:1	0.000	1.186	0.000	
3750.00	650000	Low	back	15 mm	NR Band n77	E	Open	0894M	100	CW/SRS	N/A	NA	NA	19.0	18.42	N/A	-0.19	1:1	0.111	1.143	0.127	
3750.00	650000	Low	back	15 mm	NR Band n77	E	Closed	0651M	100	CW/SRS	N/A	NA	NA	19.0	18.42	N/A	0.04	1:1	0.015	1.143	0.017	
3930.00	662000	High	back	15 mm	NR Band n77	C	Open	0894M	100	CW/SRS	N/A	NA	NA	15.0	14.12	N/A	0.01	1:1	0.005	1.225	0.006	
3930.00	662000	High	back	15 mm	NR Band n77	C	Closed	0894M	100	CW/SRS	N/A	NA	NA	15.0	14.12	N/A	0.20	1:1	0.001	1.225	0.001	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population											Body 1.6 W/kg (mW/g) averaged over 1 gram											

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Table 11-57
DTS SISO Body-Worn SAR

MEASUREMENT RESULTS																				
FREQUENCY		Side	Spacing	Mode	Service	Antenna Config.	Form Factor	Device Serial Number	Bandwidth [MHz]	Data Rate (Mbps)	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Duty Cycle (%)	Peak SAR of Area Scan	SAR (1g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot #
MHz	Ch.														W/kg	(W/kg)			(W/kg)	
2437	6	back	15 mm	802.11b	DSSS	2	Open	1356M	22	1	19.0	18.87	0.04	99.42	0.106	0.081	1.030	1.006	0.084	A59
2437	6	back	15 mm	802.11b	DSSS	2	Closed	1356M	22	1	19.0	18.87	-0.03	99.42	0.045	0.038	1.030	1.006	0.039	
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 11-58
DTS MIMO Body-Worn

MEASUREMENT RESULTS																						
FREQUENCY		Side	Spacing	Mode	Service	Antenna Config.	Form Factor	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]	Duty Cycle (%)	Peak SAR of Area Scan	SAR (1g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot #
MHz	Ch.																W/kg	(W/kg)	(Power)	(Duty Cycle)	(W/kg)	
2437	6	back	15 mm	802.11n	OFDM	MIMO	Open	1356M	20	13	18.0	17.99	18.0	17.98	-0.07	97.94	0.074	0.057	1.002	1.021	0.058	
2437	6	back	15 mm	802.11n	OFDM	MIMO	Closed	1356M	20	13	18.0	17.99	18.0	17.98	0.18	97.94	0.039	0.031	1.002	1.021	0.032	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population													Body 1.6 W/kg (mW/g) averaged over 1 gram									

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 11-59
NII SISO Body-Worn SAR

MEASUREMENT RESULTS																				
FREQUENCY		Side	Spacing	Mode	Service	Antenna Config.	Form Factor	Device Serial Number	Bandwidth [MHz]	Data Rate (Mbps)	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Duty Cycle (%)	Peak SAR of Area Scan	SAR (1g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot #
MHz	Ch.														W/kg	(W/kg)		(W/kg)		
5280	56	back	15 mm	802.11a	OFDM	1	Open	1309M	20	6	18.0	17.97	0.08	96.68	0.122	0.086	1.007	1.034	0.090	
5280	56	back	15 mm	802.11a	OFDM	1	Closed	1309M	20	6	18.0	17.97	0.09	96.68	0.018	0.008	1.007	1.034	0.008	
5600	120	back	15 mm	802.11a	OFDM	1	Open	1309M	20	6	18.0	17.91	-0.09	96.68	0.100	0.066	1.021	1.034	0.070	
5600	120	back	15 mm	802.11a	OFDM	1	Closed	1309M	20	6	18.0	17.91	0.06	96.68	0.022	0.005	1.021	1.034	0.005	
5785	157	back	15 mm	802.11a	OFDM	1	Open	1309M	20	6	18.0	17.84	0.01	96.68	0.086	0.061	1.038	1.034	0.065	
5785	157	back	15 mm	802.11a	OFDM	1	Closed	1309M	20	6	18.0	17.84	0.09	96.68	0.011	0.004	1.038	1.034	0.004	
5885	177	back	15 mm	802.11a	OFDM	1	Open	1309M	20	6	18.0	17.88	0.05	96.68	0.091	0.065	1.028	1.034	0.069	
5885	177	back	15 mm	802.11a	OFDM	1	Closed	1309M	20	6	18.0	17.88	0.03	96.68	0.012	0.004	1.028	1.034	0.004	
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 11-60
NII MIMO Body-Worn SAR

MEASUREMENT RESULTS																						
FREQUENCY		Side	Spacing	Mode	Service	Antenna Config.	Form Factor	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]	Duty Cycle (%)	Peak SAR of Area Scan	SAR (1g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot #
MHz	Ch.																W/kg	(W/kg)	(Power)	(Duty Cycle)	(W/kg)	
5320	64	back	15 mm	802.11n	OFDM	MIMO	Open	1309M	20	13	18.0	17.64	18.0	17.98	0.04	98.11	0.115	0.074	1.086	1.019	0.082	
5320	64	back	15 mm	802.11n	OFDM	MIMO	Closed	1309M	20	13	18.0	17.64	18.0	17.98	0.07	98.11	0.020	0.011	1.086	1.019	0.012	
5500	100	back	15 mm	802.11n	OFDM	MIMO	Open	1309M	20	13	18.0	17.90	18.0	17.71	0.01	98.11	0.119	0.093	1.023	1.019	0.101	
5500	100	back	15 mm	802.11n	OFDM	MIMO	Closed	1309M	20	13	18.0	17.90	18.0	17.71	0.03	98.11	0.032	0.013	1.023	1.019	0.014	
5745	149	back	15 mm	802.11n	OFDM	MIMO	Open	1309M	20	13	18.0	17.98	18.0	17.97	0.01	98.11	0.088	0.077	1.005	1.019	0.079	
5745	149	back	15 mm	802.11n	OFDM	MIMO	Closed	1309M	20	13	18.0	17.98	18.0	17.97	0.07	98.11	0.048	0.031	1.005	1.019	0.032	
5885	177	back	15 mm	802.11n	OFDM	MIMO	Open	1309M	20	13	18.0	17.72	18.0	17.92	-0.18	98.11	0.138	0.106	1.067	1.019	0.115	A61
5885	177	back	15 mm	802.11n	OFDM	MIMO	Closed	1309M	20	13	18.0	17.72	18.0	17.92	0.07	98.11	0.044	0.029	1.067	1.019	0.032	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population												Body 1.6 W/kg (mW/g) averaged over 1 gram										

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 11-61
DSS SISO Body-Worn SAR

MEASUREMENT RESULTS																		
FREQUENCY		Side	Spacing	Mode	Service	Antenna Config.	Form Factor	Device Serial Number	Data Rate (Mbps)	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	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	Open	0664M	1	17.5	17.43	-0.12	76.80	0.015	1.016	1.302	0.020	
2441	39	front	15 mm	Bluetooth	FHSS	1	Closed	0664M	1	17.5	17.43	0.08	76.80	0.009	1.016	1.302	0.012	
2402	0	back	15 mm	Bluetooth	FHSS	2	Open	0664M	1	17.5	15.93	-0.13	76.80	0.022	1.435	1.302	0.041	A62
2402	0	back	15 mm	Bluetooth	FHSS	2	Closed	0664M	1	17.5	15.93	0.04	76.80	0.009	1.435	1.302	0.017	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population										Body 1.6 W/kg (mW/g) averaged over 1 gram								

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11.3 Standalone Hotspot SAR Data

Table 11-62
GPRS Hotspot SAR Data

MEASUREMENT RESULTS																	
FREQUENCY		Side	Spacing	Mode	Service	Antenna Config.	Form Factor	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)	
836.60	190	back	10 mm	GSM 850	GPRS	A	Open	0921M	4	26.0	24.83	-0.07	1:2.076	0.168	1.309	0.220	
836.60	190	front	10 mm	GSM 850	GPRS	A	Open	0921M	4	26.0	24.83	-0.09	1:2.076	0.084	1.309	0.110	
836.60	190	bottom	10 mm	GSM 850	GPRS	A	Open	0921M	4	26.0	24.83	0.10	1:2.076	0.065	1.309	0.085	
836.60	190	right	10 mm	GSM 850	GPRS	A	Open	0921M	4	26.0	24.83	0.07	1:2.076	0.044	1.309	0.058	
836.60	190	left	10 mm	GSM 850	GPRS	A	Open	0921M	4	26.0	24.83	-0.06	1:2.076	0.023	1.309	0.030	
824.20	128	back	5 mm	GSM 850	GPRS	A	Closed	0921M	4	26.0	24.77	0.01	1:2.076	0.537	1.327	0.713	A63
836.60	190	back	5 mm	GSM 850	GPRS	A	Closed	0921M	4	26.0	24.83	-0.13	1:2.076	0.534	1.309	0.699	
848.80	251	back	5 mm	GSM 850	GPRS	A	Closed	0921M	4	26.0	24.76	0.02	1:2.076	0.458	1.330	0.609	
836.60	190	front	5 mm	GSM 850	GPRS	A	Closed	0921M	4	26.0	24.83	0.05	1:2.076	0.130	1.309	0.170	
836.60	190	bottom	5 mm	GSM 850	GPRS	A	Closed	0921M	4	26.0	24.83	-0.03	1:2.076	0.114	1.309	0.149	
836.60	190	right	5 mm	GSM 850	GPRS	A	Closed	0921M	4	26.0	24.83	-0.01	1:2.076	0.056	1.309	0.073	
836.60	190	left	5 mm	GSM 850	GPRS	A	Closed	0921M	4	26.0	24.83	-0.05	1:2.076	0.104	1.309	0.136	
1909.80	810	back	10 mm	GSM 1900	GPRS	A	Open	0414M	4	23.0	22.92	-0.04	1:2.076	0.369	1.019	0.376	
1909.80	810	front	10 mm	GSM 1900	GPRS	A	Open	0414M	4	23.0	22.92	0.07	1:2.076	0.338	1.019	0.344	
1850.20	512	bottom	10 mm	GSM 1900	GPRS	A	Open	0414M	4	23.0	22.46	0.06	1:2.076	0.648	1.132	0.734	
1880.00	661	bottom	10 mm	GSM 1900	GPRS	A	Open	0414M	4	23.0	22.60	0.04	1:2.076	0.701	1.096	0.768	
1909.80	810	bottom	10 mm	GSM 1900	GPRS	A	Open	0414M	4	23.0	22.92	0.05	1:2.076	0.719	1.019	0.733	
1909.80	810	right	10 mm	GSM 1900	GPRS	A	Open	0414M	4	23.0	22.92	0.05	1:2.076	0.024	1.019	0.024	
1909.80	810	left	10 mm	GSM 1900	GPRS	A	Open	0414M	4	23.0	22.92	0.07	1:2.076	0.125	1.019	0.127	
1909.80	810	back	5 mm	GSM 1900	GPRS	A	Closed	0932M	4	23.0	22.92	0.00	1:2.076	0.493	1.019	0.502	
1909.80	810	front	5 mm	GSM 1900	GPRS	A	Closed	0932M	4	23.0	22.92	0.04	1:2.076	0.130	1.019	0.132	
1850.20	512	bottom	5 mm	GSM 1900	GPRS	A	Closed	0932M	4	23.0	22.46	-0.02	1:2.076	0.662	1.132	0.749	
1880.00	661	bottom	5 mm	GSM 1900	GPRS	A	Closed	0932M	4	23.0	22.60	-0.10	1:2.076	0.955	1.096	1.047	
1909.80	810	bottom	5 mm	GSM 1900	GPRS	A	Closed	0932M	4	23.0	22.92	-0.04	1:2.076	1.040	1.019	1.060	A64
1909.80	810	right	5 mm	GSM 1900	GPRS	A	Closed	0932M	4	23.0	22.92	-0.14	1:2.076	0.028	1.019	0.029	
1909.80	810	left	5 mm	GSM 1900	GPRS	A	Closed	0932M	4	23.0	22.92	-0.03	1:2.076	0.311	1.019	0.317	
1909.80	810	bottom	5 mm	GSM 1900	GPRS	A	Closed	0932M	4	23.0	22.92	-0.12	1:2.076	1.030	1.019	1.050	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population									Body 1.6 W/kg (mW/g) averaged over 1 gram								

Note: Blue entry represents variability measurement.

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Table 11-63
UMTS Hotspot SAR Data

MEASUREMENT RESULTS																
FREQUENCY		Side	Spacing	Mode	Service	Antenna Config.	Form Factor	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	10 mm	UMTS 850	RMC	A	Open	0921M	24.0	23.42	-0.04	1:1	0.308	1.143	0.352	
836.60	4183	front	10 mm	UMTS 850	RMC	A	Open	0921M	24.0	23.42	-0.09	1:1	0.197	1.143	0.225	
836.60	4183	bottom	10 mm	UMTS 850	RMC	A	Open	0921M	24.0	23.42	0.00	1:1	0.075	1.143	0.086	
836.60	4183	right	10 mm	UMTS 850	RMC	A	Open	0921M	24.0	23.42	0.02	1:1	0.215	1.143	0.246	
836.60	4183	left	10 mm	UMTS 850	RMC	A	Open	0921M	24.0	23.42	0.05	1:1	0.109	1.143	0.125	
826.40	4132	back	5 mm	UMTS 850	RMC	A	Closed	0921M	24.0	23.40	-0.04	1:1	0.841	1.148	0.965	
836.60	4183	back	5 mm	UMTS 850	RMC	A	Closed	0921M	24.0	23.42	-0.09	1:1	0.869	1.143	0.993	
846.60	4233	back	5 mm	UMTS 850	RMC	A	Closed	0921M	24.0	23.37	-0.09	1:1	0.888	1.156	1.027	A65
836.60	4183	front	5 mm	UMTS 850	RMC	A	Closed	0921M	24.0	23.42	0.01	1:1	0.212	1.143	0.242	
836.60	4183	bottom	5 mm	UMTS 850	RMC	A	Closed	0921M	24.0	23.42	0.06	1:1	0.187	1.143	0.214	
836.60	4183	right	5 mm	UMTS 850	RMC	A	Closed	0921M	24.0	23.42	0.05	1:1	0.100	1.143	0.114	
836.60	4183	left	5 mm	UMTS 850	RMC	A	Closed	0921M	24.0	23.42	0.04	1:1	0.150	1.143	0.171	
846.60	4233	back	5 mm	UMTS 850	RMC	A	Closed	0921M	24.0	23.37	-0.04	1:1	0.864	1.156	0.999	
1752.60	1513	back	10 mm	UMTS 1750	RMC	A	Open	0888M	20.0	19.30	-0.02	1:1	0.380	1.175	0.447	
1752.60	1513	front	10 mm	UMTS 1750	RMC	A	Open	0888M	20.0	19.30	-0.01	1:1	0.287	1.175	0.337	
1712.40	1312	bottom	10 mm	UMTS 1750	RMC	A	Open	0888M	20.0	19.12	0.02	1:1	0.681	1.225	0.834	
1732.40	1412	bottom	10 mm	UMTS 1750	RMC	A	Open	0888M	20.0	19.17	0.00	1:1	0.497	1.211	0.602	
1752.60	1513	bottom	10 mm	UMTS 1750	RMC	A	Open	0888M	20.0	19.30	0.03	1:1	0.522	1.175	0.613	
1752.60	1513	right	10 mm	UMTS 1750	RMC	A	Open	0888M	20.0	19.30	0.02	1:1	0.037	1.175	0.043	
1752.60	1513	left	10 mm	UMTS 1750	RMC	A	Open	0888M	20.0	19.30	0.01	1:1	0.079	1.175	0.093	
1752.60	1513	back	5 mm	UMTS 1750	RMC	A	Closed	0419M	20.0	19.30	-0.03	1:1	0.569	1.175	0.669	
1752.60	1513	front	5 mm	UMTS 1750	RMC	A	Closed	0419M	20.0	19.30	0.02	1:1	0.064	1.175	0.075	
1712.40	1312	bottom	5 mm	UMTS 1750	RMC	A	Closed	0419M	20.0	19.12	0.00	1:1	0.596	1.225	0.730	
1732.40	1412	bottom	5 mm	UMTS 1750	RMC	A	Closed	0419M	20.0	19.17	0.02	1:1	0.664	1.211	0.804	
1752.60	1513	bottom	5 mm	UMTS 1750	RMC	A	Closed	0419M	20.0	19.30	0.00	1:1	0.818	1.175	0.961	A66
1752.60	1513	right	5 mm	UMTS 1750	RMC	A	Closed	0419M	20.0	19.30	0.01	1:1	0.030	1.175	0.035	
1752.60	1513	left	5 mm	UMTS 1750	RMC	A	Closed	0419M	20.0	19.30	-0.02	1:1	0.277	1.175	0.325	
1907.60	9538	back	10 mm	UMTS 1900	RMC	A	Open	0414M	19.0	18.14	-0.01	1:1	0.249	1.219	0.304	
1907.60	9538	front	10 mm	UMTS 1900	RMC	A	Open	0414M	19.0	18.14	-0.01	1:1	0.232	1.219	0.283	
1852.40	9262	bottom	10 mm	UMTS 1900	RMC	A	Open	0414M	19.0	18.01	0.00	1:1	0.512	1.256	0.643	
1880.00	9400	bottom	10 mm	UMTS 1900	RMC	A	Open	0414M	19.0	18.11	0.01	1:1	0.515	1.227	0.632	
1907.60	9538	bottom	10 mm	UMTS 1900	RMC	A	Open	0414M	19.0	18.14	0.01	1:1	0.549	1.219	0.669	
1907.60	9538	right	10 mm	UMTS 1900	RMC	A	Open	0414M	19.0	18.14	0.01	1:1	0.019	1.219	0.023	
1907.60	9538	left	10 mm	UMTS 1900	RMC	A	Open	0414M	19.0	18.14	0.02	1:1	0.091	1.219	0.111	
1907.60	9538	back	5 mm	UMTS 1900	RMC	A	Closed	0414M	19.0	18.14	0.02	1:1	0.312	1.219	0.380	
1907.60	9538	front	5 mm	UMTS 1900	RMC	A	Closed	0414M	19.0	18.14	-0.04	1:1	0.076	1.219	0.093	
1852.40	9262	bottom	5 mm	UMTS 1900	RMC	A	Closed	0414M	19.0	18.01	-0.03	1:1	0.743	1.256	0.933	A67
1880.00	9400	bottom	5 mm	UMTS 1900	RMC	A	Closed	0414M	19.0	18.11	-0.03	1:1	0.591	1.227	0.725	
1907.60	9538	bottom	5 mm	UMTS 1900	RMC	A	Closed	0414M	19.0	18.14	-0.01	1:1	0.562	1.219	0.685	
1907.60	9538	right	5 mm	UMTS 1900	RMC	A	Closed	0414M	19.0	18.14	0.01	1:1	0.018	1.219	0.022	
1907.60	9538	left	5 mm	UMTS 1900	RMC	A	Closed	0414M	19.0	18.14	0.04	1:1	0.152	1.219	0.185	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT									Body							
Spatial Peak									1.6 W/kg (mW/g)							
Uncontrolled Exposure/General Population									averaged over 1 gram							

Note: Blue entry represents variability measurement.

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Table 11-64
LTE Band 71 Hotspot SAR

MEASUREMENT RESULTS																						
FREQUENCY		Side	Spacing	Mode	Antenna Config.	Form Factor	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	Open	0914M	20	QPSK	1	0	24.0	23.48	0	0.00	1:1	0.205	1.127	0.231		
680.50	133297	Mid	back	10 mm	LTE Band 71	A	Open	0914M	20	QPSK	50	25	24.0	23.46	0	0.01	1:1	0.206	1.132	0.233		
680.50	133297	Mid	front	10 mm	LTE Band 71	A	Open	0914M	20	QPSK	1	0	24.0	23.48	0	0.01	1:1	0.184	1.127	0.207		
680.50	133297	Mid	front	10 mm	LTE Band 71	A	Open	0914M	20	QPSK	50	25	24.0	23.46	0	-0.03	1:1	0.194	1.132	0.220		
680.50	133297	Mid	bottom	10 mm	LTE Band 71	A	Open	0914M	20	QPSK	1	0	24.0	23.48	0	-0.01	1:1	0.028	1.127	0.032		
680.50	133297	Mid	bottom	10 mm	LTE Band 71	A	Open	0914M	20	QPSK	50	25	24.0	23.46	0	-0.01	1:1	0.029	1.132	0.033		
680.50	133297	Mid	right	10 mm	LTE Band 71	A	Open	0914M	20	QPSK	1	0	24.0	23.48	0	-0.03	1:1	0.194	1.127	0.219		
680.50	133297	Mid	right	10 mm	LTE Band 71	A	Open	0914M	20	QPSK	50	25	24.0	23.46	0	-0.02	1:1	0.233	1.132	0.264		
680.50	133297	Mid	left	10 mm	LTE Band 71	A	Open	0914M	20	QPSK	1	0	24.0	23.48	0	0.04	1:1	0.168	1.127	0.189		
680.50	133297	Mid	left	10 mm	LTE Band 71	A	Open	0914M	20	QPSK	50	25	24.0	23.46	0	-0.01	1:1	0.219	1.132	0.248		
680.50	133297	Mid	back	5 mm	LTE Band 71	A	Closed	0277M	20	QPSK	1	0	24.0	23.48	0	-0.01	1:1	0.454	1.127	0.512		A68
680.50	133297	Mid	back	5 mm	LTE Band 71	A	Closed	0277M	20	QPSK	50	25	24.0	23.46	0	-0.03	1:1	0.449	1.132	0.508		
680.50	133297	Mid	front	5 mm	LTE Band 71	A	Closed	0277M	20	QPSK	1	0	24.0	23.48	0	-0.04	1:1	0.148	1.127	0.167		
680.50	133297	Mid	front	5 mm	LTE Band 71	A	Closed	0277M	20	QPSK	50	25	24.0	23.46	0	-0.02	1:1	0.124	1.132	0.140		
680.50	133297	Mid	bottom	5 mm	LTE Band 71	A	Closed	0277M	20	QPSK	1	0	24.0	23.48	0	-0.03	1:1	0.148	1.127	0.167		
680.50	133297	Mid	bottom	5 mm	LTE Band 71	A	Closed	0277M	20	QPSK	50	25	24.0	23.46	0	0.00	1:1	0.135	1.132	0.153		
680.50	133297	Mid	right	5 mm	LTE Band 71	A	Closed	0277M	20	QPSK	1	0	24.0	23.48	0	0.03	1:1	0.052	1.127	0.059		
680.50	133297	Mid	right	5 mm	LTE Band 71	A	Closed	0277M	20	QPSK	50	25	24.0	23.46	0	0.03	1:1	0.068	1.132	0.077		
680.50	133297	Mid	left	5 mm	LTE Band 71	A	Closed	0277M	20	QPSK	1	0	24.0	23.48	0	0.04	1:1	0.127	1.127	0.143		
680.50	133297	Mid	left	5 mm	LTE Band 71	A	Closed	0277M	20	QPSK	50	25	24.0	23.46	0	0.04	1:1	0.143	1.132	0.162		
ANSI / IEEE C95.1 1992 - SAFETY LIMIT										Body												
Spatial Peak										1.6 W/kg (mW/g)												
Uncontrolled Exposure/General Population										averaged over 1 gram												

Table 11-65
LTE Band 12 Hotspot SAR

MEASUREMENT RESULTS																					
FREQUENCY			Side	Spacing	Mode	Antenna Config.	Form Factor	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	Open	0921M	10	QPSK	1	49	24.0	23.56	0	0.05	1:1	0.169	1.107	0.187	
707.50	23095	Mid	back	10 mm	LTE Band 12	A	Open	0921M	10	QPSK	25	12	24.0	23.54	0	-0.02	1:1	0.178	1.112	0.198	
707.50	23095	Mid	front	10 mm	LTE Band 12	A	Open	0921M	10	QPSK	1	49	24.0	23.56	0	-0.07	1:1	0.179	1.107	0.198	
707.50	23095	Mid	front	10 mm	LTE Band 12	A	Open	0921M	10	QPSK	25	12	24.0	23.54	0	0.02	1:1	0.171	1.112	0.190	
707.50	23095	Mid	bottom	10 mm	LTE Band 12	A	Open	0921M	10	QPSK	1	49	24.0	23.56	0	0.03	1:1	0.029	1.107	0.032	
707.50	23095	Mid	bottom	10 mm	LTE Band 12	A	Open	0921M	10	QPSK	25	12	24.0	23.54	0	0.01	1:1	0.026	1.112	0.029	
707.50	23095	Mid	right	10 mm	LTE Band 12	A	Open	0921M	10	QPSK	1	49	24.0	23.56	0	-0.20	1:1	0.182	1.107	0.201	
707.50	23095	Mid	right	10 mm	LTE Band 12	A	Open	0921M	10	QPSK	25	12	24.0	23.54	0	0.00	1:1	0.166	1.112	0.185	
707.50	23095	Mid	left	10 mm	LTE Band 12	A	Open	0921M	10	QPSK	1	49	24.0	23.56	0	0.05	1:1	0.175	1.107	0.194	
707.50	23095	Mid	left	10 mm	LTE Band 12	A	Open	0921M	10	QPSK	25	12	24.0	23.54	0	0.04	1:1	0.157	1.112	0.175	
707.50	23095	Mid	back	5 mm	LTE Band 12	A	Closed	0277M	10	QPSK	1	49	24.0	23.56	0	0.03	1:1	0.336	1.107	0.372	
707.50	23095	Mid	back	5 mm	LTE Band 12	A	Closed	0277M	10	QPSK	25	12	24.0	23.54	0	0.04	1:1	0.347	1.112	0.386	A69
707.50	23095	Mid	front	5 mm	LTE Band 12	A	Closed	0277M	10	QPSK	1	49	24.0	23.56	0	-0.02	1:1	0.042	1.107	0.046	
707.50	23095	Mid	front	5 mm	LTE Band 12	A	Closed	0277M	10	QPSK	25	12	24.0	23.54	0	0.08	1:1	0.054	1.112	0.060	
707.50	23095	Mid	bottom	5 mm	LTE Band 12	A	Closed	0277M	10	QPSK	1	49	24.0	23.56	0	-0.03	1:1	0.054	1.107	0.060	
707.50	23095	Mid	bottom	5 mm	LTE Band 12	A	Closed	0277M	10	QPSK	25	12	24.0	23.54	0	0.05	1:1	0.063	1.112	0.070	
707.50	23095	Mid	right	5 mm	LTE Band 12	A	Closed	0277M	10	QPSK	1	49	24.0	23.56	0	0.05	1:1	0.121	1.107	0.134	
707.50	23095	Mid	right	5 mm	LTE Band 12	A	Closed	0277M	10	QPSK	25	12	24.0	23.54	0	0.01	1:1	0.119	1.112	0.132	
707.50	23095	Mid	left	5 mm	LTE Band 12	A	Closed	0277M	10	QPSK	1	49	24.0	23.56	0	0.02	1:1	0.158	1.107	0.175	
707.50	23095	Mid	left	5 mm	LTE Band 12	A	Closed	0277M	10	QPSK	25	12	24.0	23.54	0	0.02	1:1	0.167	1.112	0.186	
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 11-66
LTE Band 13 Hotspot SAR

MEASUREMENT RESULTS																						
FREQUENCY			Side	Spacing	Mode	Antenna Config.	Form Factor	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	Open	0921M	10	QPSK	1	25	24.0	23.31	0	-0.01	1:1	0.206	1.172	0.241		
782.00	23230	Mid	back	10 mm	LTE Band 13	A	Open	0921M	10	QPSK	25	12	24.0	23.37	0	-0.03	1:1	0.203	1.156	0.235		
782.00	23230	Mid	front	10 mm	LTE Band 13	A	Open	0921M	10	QPSK	1	25	24.0	23.31	0	0.00	1:1	0.170	1.172	0.199		
782.00	23230	Mid	front	10 mm	LTE Band 13	A	Open	0921M	10	QPSK	25	12	24.0	23.37	0	0.03	1:1	0.166	1.156	0.192		
782.00	23230	Mid	bottom	10 mm	LTE Band 13	A	Open	0921M	10	QPSK	1	25	24.0	23.31	0	0.08	1:1	0.048	1.172	0.056		
782.00	23230	Mid	bottom	10 mm	LTE Band 13	A	Open	0921M	10	QPSK	25	12	24.0	23.37	0	0.11	1:1	0.049	1.156	0.057		
782.00	23230	Mid	right	10 mm	LTE Band 13	A	Open	0921M	10	QPSK	1	25	24.0	23.31	0	0.04	1:1	0.147	1.172	0.172		
782.00	23230	Mid	right	10 mm	LTE Band 13	A	Open	0921M	10	QPSK	25	12	24.0	23.37	0	0.03	1:1	0.137	1.156	0.158		
782.00	23230	Mid	left	10 mm	LTE Band 13	A	Open	0921M	10	QPSK	1	25	24.0	23.31	0	0.06	1:1	0.106	1.172	0.124		
782.00	23230	Mid	left	10 mm	LTE Band 13	A	Open	0921M	10	QPSK	25	12	24.0	23.37	0	-0.03	1:1	0.102	1.156	0.118		
782.00	23230	Mid	back	5 mm	LTE Band 13	A	Closed	0277M	10	QPSK	1	25	24.0	23.31	0	0.03	1:1	0.526	1.172	0.616		A70
782.00	23230	Mid	back	5 mm	LTE Band 13	A	Closed	0277M	10	QPSK	25	12	24.0	23.37	0	0.03	1:1	0.522	1.156	0.603		
782.00	23230	Mid	front	5 mm	LTE Band 13	A	Closed	0277M	10	QPSK	1	25	24.0	23.31	0	0.11	1:1	0.063	1.172	0.074		
782.00	23230	Mid	front	5 mm	LTE Band 13	A	Closed	0277M	10	QPSK	25	12	24.0	23.37	0	0.07	1:1	0.062	1.156	0.072		
782.00	23230	Mid	bottom	5 mm	LTE Band 13	A	Closed	0277M	10	QPSK	1	25	24.0	23.31	0	0.04	1:1	0.178	1.172	0.209		
782.00	23230	Mid	bottom	5 mm	LTE Band 13	A	Closed	0277M	10	QPSK	25	12	24.0	23.37	0	0.02	1:1	0.174	1.156	0.201		
782.00	23230	Mid	right	5 mm	LTE Band 13	A	Closed	0277M	10	QPSK	1	25	24.0	23.31	0	0.06	1:1	0.075	1.172	0.088		
782.00	23230	Mid	right	5 mm	LTE Band 13	A	Closed	0277M	10	QPSK	25	12	24.0	23.37	0	0.06	1:1	0.073	1.156	0.084		
782.00	23230	Mid	left	5 mm	LTE Band 13	A	Closed	0277M	10	QPSK	1	25	24.0	23.31	0	0.03	1:1	0.114	1.172	0.134		
782.00	23230	Mid	left	5 mm	LTE Band 13	A	Closed	0277M	10	QPSK	25	12	24.0	23.37	0	0.04	1:1	0.113	1.156	0.131		
ANSI / IEEE C95.1 1992 - SAFETY LIMIT										Body												
Spatial Peak										1.6 W/kg (mW/g)												
Uncontrolled Exposure/General Population										averaged over 1 gram												

Table 11-67
LTE Band 14 Hotspot SAR

MEASUREMENT RESULTS																					
FREQUENCY		Side	Spacing	Mode	Antenna Config.	Form Factor	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	Open	0914M	10	QPSK	1	0	24.0	23.30	0.0	-0.03	1:1	0.196	1.175	0.230	
793.00	23330	Mid	back	10 mm	LTE Band 14	A	Open	0914M	10	QPSK	25	0	23.5	22.93	0.5	0.02	1:1	0.189	1.140	0.215	
793.00	23330	Mid	front	10 mm	LTE Band 14	A	Open	0914M	10	QPSK	1	0	24.0	23.30	0.0	-0.10	1:1	0.168	1.175	0.197	
793.00	23330	Mid	front	10 mm	LTE Band 14	A	Open	0914M	10	QPSK	25	0	23.5	22.93	0.5	0.01	1:1	0.164	1.140	0.187	
793.00	23330	Mid	bottom	10 mm	LTE Band 14	A	Open	0914M	10	QPSK	1	0	24.0	23.30	0.0	0.03	1:1	0.049	1.175	0.058	
793.00	23330	Mid	bottom	10 mm	LTE Band 14	A	Open	0914M	10	QPSK	25	0	23.5	22.93	0.5	-0.07	1:1	0.046	1.140	0.052	
793.00	23330	Mid	right	10 mm	LTE Band 14	A	Open	0914M	10	QPSK	1	0	24.0	23.30	0.0	-0.01	1:1	0.179	1.175	0.210	
793.00	23330	Mid	right	10 mm	LTE Band 14	A	Open	0914M	10	QPSK	25	0	23.5	22.93	0.5	-0.03	1:1	0.174	1.140	0.198	
793.00	23330	Mid	left	10 mm	LTE Band 14	A	Open	0914M	10	QPSK	1	0	24.0	23.30	0.0	-0.10	1:1	0.122	1.175	0.143	
793.00	23330	Mid	left	10 mm	LTE Band 14	A	Open	0914M	10	QPSK	25	0	23.5	22.93	0.5	-0.04	1:1	0.120	1.140	0.137	
793.00	23330	Mid	back	5 mm	LTE Band 14	A	Closed	0914M	10	QPSK	1	0	24.0	23.30	0.0	0.14	1:1	0.594	1.175	0.698	A71
793.00	23330	Mid	back	5 mm	LTE Band 14	A	Closed	0914M	10	QPSK	25	0	23.5	22.93	0.5	0.03	1:1	0.569	1.140	0.649	
793.00	23330	Mid	front	5 mm	LTE Band 14	A	Closed	0914M	10	QPSK	1	0	24.0	23.30	0.0	-0.05	1:1	0.165	1.175	0.194	
793.00	23330	Mid	front	5 mm	LTE Band 14	A	Closed	0914M	10	QPSK	25	0	23.5	22.93	0.5	0.04	1:1	0.162	1.140	0.185	
793.00	23330	Mid	bottom	5 mm	LTE Band 14	A	Closed	0914M	10	QPSK	1	0	24.0	23.30	0.0	-0.04	1:1	0.125	1.175	0.147	
793.00	23330	Mid	bottom	5 mm	LTE Band 14	A	Closed	0914M	10	QPSK	25	0	23.5	22.93	0.5	0.06	1:1	0.123	1.140	0.140	
793.00	23330	Mid	right	5 mm	LTE Band 14	A	Closed	0914M	10	QPSK	1	0	24.0	23.30	0.0	0.17	1:1	0.078	1.175	0.092	
793.00	23330	Mid	right	5 mm	LTE Band 14	A	Closed	0914M	10	QPSK	25	0	23.5	22.93	0.5	0.01	1:1	0.077	1.140	0.088	
793.00	23330	Mid	left	5 mm	LTE Band 14	A	Closed	0914M	10	QPSK	1	0	24.0	23.30	0.0	-0.08	1:1	0.116	1.175	0.136	
793.00	23330	Mid	left	5 mm	LTE Band 14	A	Closed	0914M	10	QPSK	25	0	23.5	22.93	0.5	0.05	1:1	0.116	1.140	0.132	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT									Body												
Spatial Peak									1.6 W/kg (mW/g)												
Uncontrolled Exposure/General Population									averaged over 1 gram												

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Table 11-68
LTE Band 26 (Cell) Hotspot SAR

MEASUREMENT RESULTS																					
FREQUENCY			Side	Spacing	Mode	Antenna Config.	Form Factor	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	Md	back	10 mm	LTE Band 26 (Cell)	A	Open	0277M	15	QPSK	1	36	24.0	23.34	0	0.02	1:1	0.221	1.164	0.257	
831.50	26865	Md	back	10 mm	LTE Band 26 (Cell)	A	Open	0277M	15	QPSK	36	37	24.0	23.24	0	-0.03	1:1	0.228	1.191	0.272	
831.50	26865	Md	front	10 mm	LTE Band 26 (Cell)	A	Open	0277M	15	QPSK	1	36	24.0	23.34	0	0.01	1:1	0.149	1.164	0.173	
831.50	26865	Md	front	10 mm	LTE Band 26 (Cell)	A	Open	0277M	15	QPSK	36	37	24.0	23.24	0	0.01	1:1	0.152	1.191	0.181	
831.50	26865	Md	bottom	10 mm	LTE Band 26 (Cell)	A	Open	0277M	15	QPSK	1	36	24.0	23.34	0	0.01	1:1	0.053	1.164	0.062	
831.50	26865	Md	bottom	10 mm	LTE Band 26 (Cell)	A	Open	0277M	15	QPSK	36	37	24.0	23.24	0	0.05	1:1	0.056	1.191	0.067	
831.50	26865	Md	right	10 mm	LTE Band 26 (Cell)	A	Open	0277M	15	QPSK	1	36	24.0	23.34	0	0.03	1:1	0.164	1.164	0.191	
831.50	26865	Md	right	10 mm	LTE Band 26 (Cell)	A	Open	0277M	15	QPSK	36	37	24.0	23.24	0	0.00	1:1	0.163	1.191	0.194	
831.50	26865	Md	left	10 mm	LTE Band 26 (Cell)	A	Open	0277M	15	QPSK	1	36	24.0	23.34	0	-0.17	1:1	0.074	1.164	0.086	
831.50	26865	Md	left	10 mm	LTE Band 26 (Cell)	A	Open	0277M	15	QPSK	36	37	24.0	23.24	0	0.05	1:1	0.069	1.191	0.082	
831.50	26865	Md	back	5 mm	LTE Band 26 (Cell)	A	Closed	0277M	15	QPSK	1	36	24.0	23.34	0	-0.01	1:1	0.629	1.164	0.732	A72
831.50	26865	Md	back	5 mm	LTE Band 26 (Cell)	A	Closed	0277M	15	QPSK	36	37	24.0	23.24	0	0.04	1:1	0.613	1.191	0.730	
831.50	26865	Md	front	5 mm	LTE Band 26 (Cell)	A	Closed	0277M	15	QPSK	1	36	24.0	23.34	0	0.01	1:1	0.171	1.164	0.199	
831.50	26865	Md	front	5 mm	LTE Band 26 (Cell)	A	Closed	0277M	15	QPSK	36	37	24.0	23.24	0	0.02	1:1	0.176	1.191	0.210	
831.50	26865	Md	bottom	5 mm	LTE Band 26 (Cell)	A	Closed	0277M	15	QPSK	1	36	24.0	23.34	0	-0.03	1:1	0.149	1.164	0.173	
831.50	26865	Md	bottom	5 mm	LTE Band 26 (Cell)	A	Closed	0277M	15	QPSK	36	37	24.0	23.24	0	0.03	1:1	0.156	1.191	0.186	
831.50	26865	Md	right	5 mm	LTE Band 26 (Cell)	A	Closed	0277M	15	QPSK	1	36	24.0	23.34	0	0.03	1:1	0.109	1.164	0.127	
831.50	26865	Md	right	5 mm	LTE Band 26 (Cell)	A	Closed	0277M	15	QPSK	36	37	24.0	23.24	0	0.04	1:1	0.105	1.191	0.125	
831.50	26865	Md	left	5 mm	LTE Band 26 (Cell)	A	Closed	0277M	15	QPSK	1	36	24.0	23.34	0	0.02	1:1	0.137	1.164	0.159	
831.50	26865	Md	left	5 mm	LTE Band 26 (Cell)	A	Closed	0277M	15	QPSK	36	37	24.0	23.24	0	0.03	1:1	0.130	1.191	0.155	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT										Body											
Spatial Peak										1.6 W/kg (mW/g)											
Uncontrolled Exposure/General Population										averaged over 1 gram											

Table 11-69
LTE Band 5 (Cell) Hotspot SAR

MEASUREMENT RESULTS																							
# CC Uplink	Component Carrier	FREQUENCY		Side	Spacing	Mode	Antenna Config.	Form Factor	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	Plot #	
		MHz	Ch.																(W/kg)		(W/kg)		
1 CC Uplink	N/A	836.50	20525	Mid	back	10 mm	LTE Band 5 (Cell)	A	Open	1014M	10	QPSK	1	25	24.0	22.72	0	-0.05	1:1	0.243	1.343	0.326	
1 CC Uplink	N/A	836.50	20525	Mid	back	10 mm	LTE Band 5 (Cell)	A	Open	1014M	10	QPSK	25	25	24.0	22.75	0	-0.03	1:1	0.245	1.334	0.327	
1 CC Uplink	N/A	836.50	20525	Mid	front	10 mm	LTE Band 5 (Cell)	A	Open	1014M	10	QPSK	1	25	24.0	22.72	0	0.07	1:1	0.173	1.343	0.232	
1 CC Uplink	N/A	836.50	20525	Mid	front	10 mm	LTE Band 5 (Cell)	A	Open	1014M	10	QPSK	25	25	24.0	22.75	0	-0.01	1:1	0.176	1.334	0.235	
1 CC Uplink	N/A	836.50	20525	Mid	bottom	10 mm	LTE Band 5 (Cell)	A	Open	1014M	10	QPSK	1	25	24.0	22.72	0	0.02	1:1	0.067	1.343	0.090	
1 CC Uplink	N/A	836.50	20525	Mid	bottom	10 mm	LTE Band 5 (Cell)	A	Open	1014M	10	QPSK	25	25	24.0	22.75	0	0.00	1:1	0.069	1.334	0.092	
1 CC Uplink	N/A	836.50	20525	Mid	right	10 mm	LTE Band 5 (Cell)	A	Open	1014M	10	QPSK	1	25	24.0	22.72	0	0.03	1:1	0.163	1.343	0.219	
1 CC Uplink	N/A	836.50	20525	Mid	right	10 mm	LTE Band 5 (Cell)	A	Open	1014M	10	QPSK	25	25	24.0	22.75	0	0.02	1:1	0.162	1.334	0.216	
1 CC Uplink	N/A	836.50	20525	Mid	left	10 mm	LTE Band 5 (Cell)	A	Open	1014M	10	QPSK	1	25	24.0	22.72	0	0.06	1:1	0.060	1.343	0.081	
1 CC Uplink	N/A	836.50	20525	Mid	left	10 mm	LTE Band 5 (Cell)	A	Open	1014M	10	QPSK	25	25	24.0	22.75	0	0.01	1:1	0.054	1.334	0.072	
1 CC Uplink	N/A	836.50	20525	Mid	back	5 mm	LTE Band 5 (Cell)	A	Closed	0229M	10	QPSK	1	0	24.0	22.69	0	0.01	1:1	0.694	1.352	0.938	A73
1 CC Uplink	N/A	836.50	20525	Mid	back	5 mm	LTE Band 5 (Cell)	A	Closed	0229M	10	QPSK	1	25	24.0	22.72	0	-0.02	1:1	0.692	1.343	0.929	
1 CC Uplink	N/A	836.50	20525	Mid	back	5 mm	LTE Band 5 (Cell)	A	Closed	0229M	10	QPSK	25	25	24.0	22.75	0	-0.03	1:1	0.621	1.334	0.828	
1 CC Uplink	N/A	836.50	20525	Mid	back	5 mm	LTE Band 5 (Cell)	A	Closed	0229M	10	QPSK	50	0	24.0	22.67	0	0.00	1:1	0.594	1.358	0.807	
2 CC Uplink	PCC	836.50	20525	Mid	back	5 mm	LTE Band 5 (Cell)	A	Closed	0229M	10	QPSK	1	0	24.0	22.45	0	0.00	1:1	0.642	1.429	0.917	
	SCC	829.30	20453								5		1	24									
1 CC Uplink	N/A	836.50	20525	Mid	front	5 mm	LTE Band 5 (Cell)	A	Closed	0229M	10	QPSK	1	25	24.0	22.72	0	-0.06	1:1	0.175	1.343	0.235	
1 CC Uplink	N/A	836.50	20525	Mid	front	5 mm	LTE Band 5 (Cell)	A	Closed	0229M	10	QPSK	25	25	24.0	22.75	0	0.05	1:1	0.178	1.334	0.237	
1 CC Uplink	N/A	836.50	20525	Mid	bottom	5 mm	LTE Band 5 (Cell)	A	Closed	0229M	10	QPSK	1	25	24.0	22.72	0	0.06	1:1	0.196	1.343	0.263	
1 CC Uplink	N/A	836.50	20525	Mid	bottom	5 mm	LTE Band 5 (Cell)	A	Closed	0229M	10	QPSK	25	25	24.0	22.75	0	-0.01	1:1	0.201	1.334	0.268	
1 CC Uplink	N/A	836.50	20525	Mid	right	5 mm	LTE Band 5 (Cell)	A	Closed	0229M	10	QPSK	1	25	24.0	22.72	0	-0.02	1:1	0.125	1.343	0.168	
1 CC Uplink	N/A	836.50	20525	Mid	right	5 mm	LTE Band 5 (Cell)	A	Closed	0229M	10	QPSK	25	25	24.0	22.75	0	-0.01	1:1	0.123	1.334	0.164	
1 CC Uplink	N/A	836.50	20525	Mid	left	5 mm	LTE Band 5 (Cell)	A	Closed	0229M	10	QPSK	1	25	24.0	22.72	0	-0.06	1:1	0.144	1.343	0.193	
1 CC Uplink	N/A	836.50	20525	Mid	left	5 mm	LTE Band 5 (Cell)	A	Closed	0229M	10	QPSK	25	25	24.0	22.75	0	-0.02	1:1	0.142	1.334	0.189	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT											Body												
Spatial Peak											1.6 W/kg (mW/g)												
Uncontrolled Exposure/General Population											averaged over 1 gram												

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Table 11-70
LTE Band 66 (AWS) Hotspot SAR

MEASUREMENT RESULTS																							
# CC Uplink	Component Carrier	FREQUENCY		Side	Spacing	Mode	Antenna Config.	Form Factor	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	Pilot #	
		MHz	Ch.																(W/kg)		(W/kg)		
1 CC Uplink	N/A	1770.00	132572	High	back	10 mm	LTE Band 66 (AWS)	A	Open	0935M	20	QPSK	1	50	19.5	19.19	0	0.02	1:1	0.420	1.074	0.451	
1 CC Uplink	N/A	1770.00	132572	High	back	10 mm	LTE Band 66 (AWS)	A	Open	0935M	20	QPSK	50	25	19.5	19.28	0	0.02	1:1	0.348	1.052	0.366	
1 CC Uplink	N/A	1770.00	132572	High	front	10 mm	LTE Band 66 (AWS)	A	Open	0935M	20	QPSK	1	50	19.5	19.19	0	0.07	1:1	0.366	1.074	0.393	
1 CC Uplink	N/A	1770.00	132572	High	front	10 mm	LTE Band 66 (AWS)	A	Open	0935M	20	QPSK	50	25	19.5	19.28	0	0.04	1:1	0.370	1.052	0.389	
1 CC Uplink	N/A	1770.00	132572	High	bottom	10 mm	LTE Band 66 (AWS)	A	Open	0935M	20	QPSK	1	50	19.5	19.19	0	0.02	1:1	0.515	1.074	0.553	
1 CC Uplink	N/A	1770.00	132572	High	bottom	10 mm	LTE Band 66 (AWS)	A	Open	0935M	20	QPSK	50	25	19.5	19.28	0	0.00	1:1	0.507	1.052	0.533	
1 CC Uplink	N/A	1770.00	132572	High	right	10 mm	LTE Band 66 (AWS)	A	Open	0935M	20	QPSK	1	50	19.5	19.19	0	0.02	1:1	0.036	1.074	0.039	
1 CC Uplink	N/A	1770.00	132572	High	right	10 mm	LTE Band 66 (AWS)	A	Open	0935M	20	QPSK	50	25	19.5	19.28	0	-0.11	1:1	0.035	1.052	0.037	
1 CC Uplink	N/A	1770.00	132572	High	left	10 mm	LTE Band 66 (AWS)	A	Open	0935M	20	QPSK	1	50	19.5	19.19	0	0.00	1:1	0.118	1.074	0.127	
1 CC Uplink	N/A	1770.00	132572	High	left	10 mm	LTE Band 66 (AWS)	A	Open	0935M	20	QPSK	50	25	19.5	19.28	0	0.02	1:1	0.116	1.052	0.122	
1 CC Uplink	N/A	1770.00	132572	High	back	5 mm	LTE Band 66 (AWS)	A	Closed	0935M	20	QPSK	1	50	19.5	19.19	0	-0.01	1:1	0.509	1.074	0.547	
1 CC Uplink	N/A	1770.00	132572	High	back	5 mm	LTE Band 66 (AWS)	A	Closed	0935M	20	QPSK	50	25	19.5	19.28	0	-0.01	1:1	0.506	1.052	0.532	
1 CC Uplink	N/A	1770.00	132572	High	front	5 mm	LTE Band 66 (AWS)	A	Closed	0935M	20	QPSK	1	50	19.5	19.19	0	0.00	1:1	0.207	1.074	0.222	
1 CC Uplink	N/A	1770.00	132572	High	front	5 mm	LTE Band 66 (AWS)	A	Closed	0935M	20	QPSK	50	25	19.5	19.28	0	-0.05	1:1	0.206	1.052	0.217	
1 CC Uplink	N/A	1720.00	132072	Low	bottom	5 mm	LTE Band 66 (AWS)	A	Closed	0935M	20	QPSK	1	50	19.5	19.07	0	0.05	1:1	0.711	1.105	0.786	
1 CC Uplink	N/A	1745.00	132322	Mid	bottom	5 mm	LTE Band 66 (AWS)	A	Closed	0935M	20	QPSK	1	50	19.5	19.07	0	-0.01	1:1	0.758	1.103	0.836	A74
1 CC Uplink	N/A	1745.00	132322	Mid	bottom	5 mm	LTE Band 66 (AWS)	A	Closed	0935M	20	QPSK	1	99	19.5	18.82	0	-0.02	1:1	0.686	1.169	0.802	
1 CC Uplink	N/A	1770.00	132572	High	bottom	5 mm	LTE Band 66 (AWS)	A	Closed	0935M	20	QPSK	1	50	19.5	19.19	0	0.04	1:1	0.683	1.074	0.734	
1 CC Uplink	N/A	1770.00	132572	High	bottom	5 mm	LTE Band 66 (AWS)	A	Closed	0935M	20	QPSK	50	25	19.5	19.28	0	0.02	1:1	0.697	1.052	0.733	
1 CC Uplink	N/A	1770.00	132572	High	bottom	5 mm	LTE Band 66 (AWS)	A	Closed	0935M	20	QPSK	100	0	19.5	19.18	0	0.00	1:1	0.677	1.076	0.728	
1 CC Uplink	N/A	1745.00	132322	Mid	bottom	5 mm	LTE Band 66 (AWS)	A	Closed	0935M	10	QPSK	1	49	19.5	19.04	0	0.00	1:1	0.710	1.112	0.790	
2 CC Uplink CA_66C	PCC	1745.00	132322	Mid	bottom	5 mm	LTE Band 66 (AWS)	A	Closed	0935M	20	QPSK	1	99	19.5	19.01	0	0.01	1:1	0.685	1.119	0.767	
	SCC	1764.80	132520											0									
2 CC Uplink CA_66B	PCC	1745.00	132322	Mid	bottom	5 mm	LTE Band 66 (AWS)	A	Closed	0935M	10	QPSK	1	49	19.5	19.06	0	0.04	1:1	0.716	1.107	0.793	
	SCC	1754.90	132421											0									
1 CC Uplink	N/A	1770.00	132572	High	right	5 mm	LTE Band 66 (AWS)	A	Closed	0935M	20	QPSK	1	50	19.5	19.19	0	-0.07	1:1	0.010	1.074	0.011	
1 CC Uplink	N/A	1770.00	132572	High	right	5 mm	LTE Band 66 (AWS)	A	Closed	0935M	20	QPSK	50	25	19.5	19.28	0	0.06	1:1	0.009	1.052	0.009	
1 CC Uplink	N/A	1770.00	132572	High	left	5 mm	LTE Band 66 (AWS)	A	Closed	0935M	20	QPSK	1	50	19.5	19.19	0	0.05	1:1	0.155	1.074	0.166	
1 CC Uplink	N/A	1770.00	132572	High	left	5 mm	LTE Band 66 (AWS)	A	Closed	0935M	20	QPSK	50	25	19.5	19.28	0	-0.03	1:1	0.154	1.052	0.162	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT												Body											
Spatial Peak												1.6 W/kg (mW/g)											
Uncontrolled Exposure/General Population												averaged over 1 gram											

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Table 11-71
LTE Band 25 (PCS) Hotspot SAR

MEASUREMENT RESULTS																					
FREQUENCY		Side	Spacing	Mode	Antenna Config.	Form Factor	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)		
1905.00	26590	High	back	10 mm	LTE Band 25 (PCS)	A	Open	0416M	20	QPSK	1	50	19.0	18.42	0	-0.02	1:1	0.333	1.143	0.381	
1905.00	26590	High	back	10 mm	LTE Band 25 (PCS)	A	Open	0416M	20	QPSK	50	25	19.0	18.23	0	0.04	1:1	0.331	1.194	0.395	
1905.00	26590	High	front	10 mm	LTE Band 25 (PCS)	A	Open	0416M	20	QPSK	1	50	19.0	18.42	0	-0.02	1:1	0.272	1.143	0.311	
1905.00	26590	High	front	10 mm	LTE Band 25 (PCS)	A	Open	0416M	20	QPSK	50	25	19.0	18.23	0	0.00	1:1	0.269	1.194	0.321	
1905.00	26590	High	bottom	10 mm	LTE Band 25 (PCS)	A	Open	0416M	20	QPSK	1	50	19.0	18.42	0	0.02	1:1	0.627	1.143	0.717	
1860.00	26140	Low	bottom	10 mm	LTE Band 25 (PCS)	A	Open	0416M	20	QPSK	50	50	19.0	18.00	0	-0.02	1:1	0.565	1.259	0.711	
1882.50	26365	Mid	bottom	10 mm	LTE Band 25 (PCS)	A	Open	0416M	20	QPSK	50	25	19.0	18.10	0	0.01	1:1	0.570	1.230	0.701	
1905.00	26590	High	bottom	10 mm	LTE Band 25 (PCS)	A	Open	0416M	20	QPSK	50	25	19.0	18.23	0	0.05	1:1	0.625	1.194	0.746	
1905.00	26590	High	right	10 mm	LTE Band 25 (PCS)	A	Open	0416M	20	QPSK	1	50	19.0	18.42	0	-0.04	1:1	0.022	1.143	0.025	
1905.00	26590	High	right	10 mm	LTE Band 25 (PCS)	A	Open	0416M	20	QPSK	50	25	19.0	18.23	0	-0.04	1:1	0.023	1.194	0.027	
1905.00	26590	High	left	10 mm	LTE Band 25 (PCS)	A	Open	0416M	20	QPSK	1	50	19.0	18.42	0	0.01	1:1	0.101	1.143	0.115	
1905.00	26590	High	left	10 mm	LTE Band 25 (PCS)	A	Open	0416M	20	QPSK	50	25	19.0	18.23	0	-0.12	1:1	0.103	1.194	0.123	
1905.00	26590	High	back	5 mm	LTE Band 25 (PCS)	A	Closed	0416M	20	QPSK	1	50	19.0	18.42	0	-0.09	1:1	0.342	1.143	0.391	
1905.00	26590	High	back	5 mm	LTE Band 25 (PCS)	A	Closed	0416M	20	QPSK	50	25	19.0	18.23	0	0.00	1:1	0.326	1.194	0.389	
1905.00	26590	High	front	5 mm	LTE Band 25 (PCS)	A	Closed	0416M	20	QPSK	1	50	19.0	18.42	0	0.07	1:1	0.134	1.143	0.153	
1905.00	26590	High	front	5 mm	LTE Band 25 (PCS)	A	Closed	0416M	20	QPSK	50	25	19.0	18.23	0	0.10	1:1	0.139	1.194	0.166	
1905.00	26590	High	bottom	5 mm	LTE Band 25 (PCS)	A	Closed	0416M	20	QPSK	1	50	19.0	18.42	0	0.02	1:1	0.697	1.143	0.797	
1860.00	26140	Low	bottom	5 mm	LTE Band 25 (PCS)	A	Closed	0416M	20	QPSK	50	50	19.0	18.00	0	-0.01	1:1	0.789	1.259	0.993	A75
1882.50	26365	Mid	bottom	5 mm	LTE Band 25 (PCS)	A	Closed	0416M	20	QPSK	50	25	19.0	18.10	0	0.01	1:1	0.754	1.230	0.927	
1905.00	26590	High	bottom	5 mm	LTE Band 25 (PCS)	A	Closed	0416M	20	QPSK	50	25	19.0	18.23	0	-0.02	1:1	0.688	1.194	0.821	
1905.00	26590	High	bottom	5 mm	LTE Band 25 (PCS)	A	Closed	0416M	20	QPSK	100	0	19.0	18.10	0	-0.04	1:1	0.681	1.231	0.838	
1905.00	26590	High	right	5 mm	LTE Band 25 (PCS)	A	Closed	0416M	20	QPSK	1	50	19.0	18.42	0	0.07	1:1	0.022	1.143	0.025	
1905.00	26590	High	right	5 mm	LTE Band 25 (PCS)	A	Closed	0416M	20	QPSK	50	25	19.0	18.23	0	-0.14	1:1	0.023	1.194	0.027	
1905.00	26590	High	left	5 mm	LTE Band 25 (PCS)	A	Closed	0416M	20	QPSK	1	50	19.0	18.42	0	0.03	1:1	0.193	1.143	0.221	
1905.00	26590	High	left	5 mm	LTE Band 25 (PCS)	A	Closed	0416M	20	QPSK	50	25	19.0	18.23	0	-0.01	1:1	0.200	1.194	0.239	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT									Body											A75	
Spatial Peak									1.6 W/kg (mW/g)												
Uncontrolled Exposure/General Population									averaged over 1 gram												

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Table 11-72
LTE Band 30 Hotspot SAR

MEASUREMENT RESULTS																					
FREQUENCY		Side	Spacing	Mode	Antenna Config.	Form Factor	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	B	Open	0419M	10	QPSK	1	49	18.0	17.26	0	-0.01	1:1	0.252	1.186	0.299	
2310.00	27710	Mid	back	10 mm	LTE Band 30	B	Open	0419M	10	QPSK	25	12	18.0	17.27	0	-0.02	1:1	0.254	1.183	0.300	
2310.00	27710	Mid	front	10 mm	LTE Band 30	B	Open	0419M	10	QPSK	1	49	18.0	17.26	0	0.01	1:1	0.203	1.186	0.241	
2310.00	27710	Mid	front	10 mm	LTE Band 30	B	Open	0419M	10	QPSK	25	12	18.0	17.27	0	0.04	1:1	0.196	1.183	0.232	
2310.00	27710	Mid	bottom	10 mm	LTE Band 30	B	Open	0419M	10	QPSK	1	49	18.0	17.26	0	0.06	1:1	0.479	1.186	0.568	
2310.00	27710	Mid	bottom	10 mm	LTE Band 30	B	Open	0419M	10	QPSK	25	12	18.0	17.27	0	0.00	1:1	0.474	1.183	0.561	
2310.00	27710	Mid	left	10 mm	LTE Band 30	B	Open	0419M	10	QPSK	1	49	18.0	17.26	0	0.16	1:1	0.051	1.186	0.060	
2310.00	27710	Mid	left	10 mm	LTE Band 30	B	Open	0419M	10	QPSK	25	12	18.0	17.27	0	0.08	1:1	0.049	1.183	0.058	
2310.00	27710	Mid	back	5 mm	LTE Band 30	B	Closed	0419M	10	QPSK	1	49	18.0	17.26	0	0.02	1:1	0.337	1.186	0.400	
2310.00	27710	Mid	back	5 mm	LTE Band 30	B	Closed	0419M	10	QPSK	25	12	18.0	17.27	0	0.11	1:1	0.339	1.183	0.401	
2310.00	27710	Mid	front	5 mm	LTE Band 30	B	Closed	0419M	10	QPSK	1	49	18.0	17.26	0	0.04	1:1	0.025	1.186	0.030	
2310.00	27710	Mid	front	5 mm	LTE Band 30	B	Closed	0419M	10	QPSK	25	12	18.0	17.27	0	-0.14	1:1	0.025	1.183	0.030	
2310.00	27710	Mid	bottom	5 mm	LTE Band 30	B	Closed	0419M	10	QPSK	1	49	18.0	17.26	0	0.08	1:1	0.604	1.186	0.716	A76
2310.00	27710	Mid	bottom	5 mm	LTE Band 30	B	Closed	0419M	10	QPSK	25	12	18.0	17.27	0	0.11	1:1	0.588	1.183	0.696	
2310.00	27710	Mid	left	5 mm	LTE Band 30	B	Closed	0419M	10	QPSK	1	49	18.0	17.26	0	0.08	1:1	0.129	1.186	0.153	
2310.00	27710	Mid	left	5 mm	LTE Band 30	B	Closed	0419M	10	QPSK	25	12	18.0	17.27	0	0.10	1:1	0.128	1.183	0.151	
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 11-73
LTE Band 7 Hotspot SAR

MEASUREMENT RESULTS																					
FREQUENCY			Side	Spacing	Mode	Antenna Config.	Form Factor	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	back	10 mm	LTE Band 7	B	Open	0414M	20	QPSK	1	99	18.5	18.33	0	0.05	1:1	0.112	1.040	0.116	
2560.00	21350	High	back	10 mm	LTE Band 7	B	Open	0414M	20	QPSK	50	50	18.5	18.20	0	0.04	1:1	0.113	1.072	0.121	
2560.00	21350	High	front	10 mm	LTE Band 7	B	Open	0414M	20	QPSK	1	99	18.5	18.33	0	-0.06	1:1	0.104	1.040	0.108	
2560.00	21350	High	front	10 mm	LTE Band 7	B	Open	0414M	20	QPSK	50	50	18.5	18.20	0	-0.02	1:1	0.105	1.072	0.113	
2560.00	21350	High	bottom	10 mm	LTE Band 7	B	Open	0414M	20	QPSK	1	99	18.5	18.33	0	0.03	1:1	0.167	1.040	0.174	
2560.00	21350	High	bottom	10 mm	LTE Band 7	B	Open	0414M	20	QPSK	50	50	18.5	18.20	0	0.03	1:1	0.163	1.072	0.175	
2560.00	21350	High	left	10 mm	LTE Band 7	B	Open	0414M	20	QPSK	1	99	18.5	18.33	0	-0.02	1:1	0.062	1.040	0.064	
2560.00	21350	High	left	10 mm	LTE Band 7	B	Open	0414M	20	QPSK	50	50	18.5	18.20	0	0.03	1:1	0.059	1.072	0.063	
2560.00	21350	High	back	5 mm	LTE Band 7	B	Closed	0414M	20	QPSK	1	99	18.5	18.33	0	-0.07	1:1	0.179	1.040	0.186	
2560.00	21350	High	back	5 mm	LTE Band 7	B	Closed	0414M	20	QPSK	50	50	18.5	18.20	0	-0.05	1:1	0.180	1.072	0.193	
2560.00	21350	High	front	5 mm	LTE Band 7	B	Closed	0414M	20	QPSK	1	99	18.5	18.33	0	0.20	1:1	0.016	1.040	0.017	
2560.00	21350	High	front	5 mm	LTE Band 7	B	Closed	0414M	20	QPSK	50	50	18.5	18.20	0	-0.13	1:1	0.017	1.072	0.018	
2560.00	21350	High	bottom	5 mm	LTE Band 7	B	Closed	0414M	20	QPSK	1	99	18.5	18.33	0	0.09	1:1	0.475	1.040	0.494	A77
2560.00	21350	High	bottom	5 mm	LTE Band 7	B	Closed	0414M	20	QPSK	50	50	18.5	18.20	0	0.12	1:1	0.466	1.072	0.500	
2560.00	21350	High	left	5 mm	LTE Band 7	B	Closed	0414M	20	QPSK	1	99	18.5	18.33	0	-0.07	1:1	0.182	1.040	0.189	
2560.00	21350	High	left	5 mm	LTE Band 7	B	Closed	0414M	20	QPSK	50	50	18.5	18.20	0	-0.07	1:1	0.179	1.072	0.192	
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: A3LSMF721U	SAR EVALUATION REPORT										Approved by: Technical Manager									
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Table 11-74
LTE Band 41 Hotspot SAR

MEASUREMENT RESULTS																							
# CC Uplink - Power Class	Component Carrier	FREQUENCY		Side	Spacing	Mode	Antenna Config.	Form Factor	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	2593.00	40620	Mid	back	10 mm	LTE Band 41	B	Open	0424M	20	QPSK	1	50	21.0	20.10	0	-0.03	1:1.58	0.183	1.230	0.225	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	back	10 mm	LTE Band 41	B	Open	0424M	20	QPSK	50	25	21.0	20.12	0	0.01	1:1.58	0.183	1.225	0.224	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	front	10 mm	LTE Band 41	B	Open	0424M	20	QPSK	1	50	21.0	20.10	0	0.00	1:1.58	0.149	1.230	0.183	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	front	10 mm	LTE Band 41	B	Open	0424M	20	QPSK	50	25	21.0	20.12	0	0.05	1:1.58	0.152	1.225	0.186	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	bottom	10 mm	LTE Band 41	B	Open	0424M	20	QPSK	1	50	21.0	20.10	0	0.03	1:1.58	0.382	1.230	0.470	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	bottom	10 mm	LTE Band 41	B	Open	0424M	20	QPSK	50	25	21.0	20.12	0	0.03	1:1.58	0.386	1.225	0.473	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	left	10 mm	LTE Band 41	B	Open	0424M	20	QPSK	1	50	21.0	20.10	0	0.08	1:1.58	0.026	1.230	0.032	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	left	10 mm	LTE Band 41	B	Open	0424M	20	QPSK	50	25	21.0	20.12	0	-0.04	1:1.58	0.026	1.225	0.032	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	back	5 mm	LTE Band 41	B	Closed	0424M	20	QPSK	1	50	21.0	20.10	0	0.10	1:1.58	0.169	1.230	0.208	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	back	5 mm	LTE Band 41	B	Closed	0424M	20	QPSK	50	25	21.0	20.12	0	0.17	1:1.58	0.168	1.225	0.206	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	front	5 mm	LTE Band 41	B	Closed	0424M	20	QPSK	1	50	21.0	20.10	0	0.15	1:1.58	0.019	1.230	0.023	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	front	5 mm	LTE Band 41	B	Closed	0424M	20	QPSK	50	25	21.0	20.12	0	0.05	1:1.58	0.020	1.225	0.025	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	bottom	5 mm	LTE Band 41	B	Closed	0424M	20	QPSK	1	50	21.0	19.36	0	0.01	1:1.58	0.524	1.459	0.765	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	bottom	5 mm	LTE Band 41	B	Closed	0424M	20	QPSK	1	50	21.0	19.95	0	-0.01	1:1.58	0.601	1.274	0.766	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	bottom	5 mm	LTE Band 41	B	Closed	0424M	20	QPSK	1	0	21.0	19.72	0	0.04	1:1.58	0.572	1.343	0.768	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	bottom	5 mm	LTE Band 41	B	Closed	0424M	20	QPSK	1	50	21.0	20.10	0	0.02	1:1.58	0.633	1.230	0.779	
1 CC Uplink - Power Class 3	N/A	2636.50	41055	Mid-High	bottom	5 mm	LTE Band 41	B	Closed	0424M	20	QPSK	1	50	21.0	20.03	0	0.03	1:1.58	0.458	1.250	0.573	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	bottom	5 mm	LTE Band 41	B	Closed	0424M	20	QPSK	1	50	21.0	19.95	0	-0.02	1:1.58	0.483	1.274	0.615	
1 CC Uplink - Power Class 3	N/A	2506.00	39750	Low	bottom	5 mm	LTE Band 41	B	Closed	0424M	20	QPSK	50	25	21.0	19.38	0	0.02	1:1.58	0.526	1.452	0.764	
1 CC Uplink - Power Class 3	N/A	2549.50	40185	Low-Mid	bottom	5 mm	LTE Band 41	B	Closed	0424M	20	QPSK	50	25	21.0	19.83	0	-0.02	1:1.58	0.587	1.309	0.768	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	bottom	5 mm	LTE Band 41	B	Closed	0424M	20	QPSK	50	25	21.0	20.12	0	-0.01	1:1.58	0.626	1.225	0.767	
1 CC Uplink - Power Class 3	N/A	2636.50	41055	Mid-High	bottom	5 mm	LTE Band 41	B	Closed	0424M	20	QPSK	50	25	21.0	20.04	0	-0.02	1:1.58	0.453	1.247	0.565	
1 CC Uplink - Power Class 3	N/A	2680.00	41490	High	bottom	5 mm	LTE Band 41	B	Closed	0424M	20	QPSK	50	50	21.0	20.00	0	-0.01	1:1.58	0.476	1.259	0.599	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	bottom	5 mm	LTE Band 41	B	Closed	0424M	20	QPSK	100	0	21.0	19.97	0	0.04	1:1.58	0.563	1.268	0.714	
1 CC Uplink - Power Class 2	N/A	2593.00	40620	Mid	bottom	5 mm	LTE Band 41	B	Closed	0424M	20	QPSK	1	0	22.6	21.39	0	-0.03	1:2.31	0.571	1.321	0.754	
1 CC Uplink - Power Class 2	N/A	2593.00	40620	Mid	bottom	5 mm	LTE Band 41	B	Closed	0424M	20	QPSK	1	50	22.6	22.02	0	-0.02	1:2.31	0.636	1.143	0.727	A78
2 CC Uplink - Power Class 3	PCC	2593.00	40620	Mid	bottom	5 mm	LTE Band 41	B	Closed	0424M	20	QPSK	1	0	21.0	19.94	0	0.00	1:1.58	0.593	1.276	0.757	
	SCC	2573.20	40422						Closed					99									
2 CC Uplink - Power Class 2	PCC	2593.00	40620	Mid	bottom	5 mm	LTE Band 41	B	Closed	0424M	20	QPSK	1	0	22.6	21.53	0	-0.03	1:2.31	0.582	1.279	0.744	
	SCC	2573.20	40422						Closed					99									
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	left	5 mm	LTE Band 41	B	Closed	0424M	20	QPSK	1	50	21.0	20.10	0	0.03	1:1.58	0.200	1.230	0.246	
1 CC Uplink - Power Class 3	N/A	2593.00	40620	Mid	left	5 mm	LTE Band 41	B	Closed	0424M	20	QPSK	50	25	21.0	20.12	0	0.03	1:1.58	0.204	1.225	0.250	
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 11-75
LTE Band 48 Hotspot SAR**

MEASUREMENT RESULTS																							
# CC Uplink	Component Carrier	FREQUENCY		Side	Spacing	Mode	Antenna Config.	Form Factor	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)	Pilot #	
		MHz	Ch.																		(W/kg)		
1 CC Uplink	N/A	3690.00	56640	High	back	10 mm	LTE Band 48	F	Open	0424M	20	QPSK	1	99	18.5	18.13	0	0.03	1:1.58	0.164	1.089	0.179	
1 CC Uplink	N/A	3690.00	56640	High	back	10 mm	LTE Band 48	F	Open	0424M	20	QPSK	50	50	18.5	18.19	0	0.03	1:1.58	0.161	1.074	0.173	
1 CC Uplink	N/A	3690.00	56640	High	front	10 mm	LTE Band 48	F	Open	0424M	20	QPSK	1	99	18.5	18.13	0	0.18	1:1.58	0.156	1.089	0.170	
1 CC Uplink	N/A	3690.00	56640	High	front	10 mm	LTE Band 48	F	Open	0424M	20	QPSK	50	50	18.5	18.19	0	-0.03	1:1.58	0.156	1.074	0.168	
1 CC Uplink	N/A	3690.00	56640	High	top	10 mm	LTE Band 48	F	Open	0424M	20	QPSK	1	99	18.5	18.13	0	0.12	1:1.58	0.072	1.089	0.078	
1 CC Uplink	N/A	3690.00	56640	High	top	10 mm	LTE Band 48	F	Open	0424M	20	QPSK	50	50	18.5	18.19	0	-0.02	1:1.58	0.075	1.074	0.081	
1 CC Uplink	N/A	3690.00	56640	High	left	10 mm	LTE Band 48	F	Open	0424M	20	QPSK	1	99	18.5	18.13	0	0.01	1:1.58	0.341	1.089	0.371	
1 CC Uplink	N/A	3690.00	56640	High	left	10 mm	LTE Band 48	F	Open	0424M	20	QPSK	50	50	18.5	18.19	0	-0.02	1:1.58	0.329	1.074	0.353	
1 CC Uplink	N/A	3690.00	56640	High	back	5 mm	LTE Band 48	F	Closed	0835M	20	QPSK	1	99	18.5	18.13	0	0.04	1:1.58	0.064	1.089	0.070	
1 CC Uplink	N/A	3690.00	56640	High	back	5 mm	LTE Band 48	F	Closed	0835M	20	QPSK	50	50	18.5	18.19	0	0.04	1:1.58	0.064	1.074	0.069	
1 CC Uplink	N/A	3690.00	56640	High	front	5 mm	LTE Band 48	F	Closed	0835M	20	QPSK	1	99	18.5	18.13	0	0.02	1:1.58	0.291	1.089	0.317	
1 CC Uplink	N/A	3690.00	56640	High	front	5 mm	LTE Band 48	F	Closed	0835M	20	QPSK	50	50	18.5	18.19	0	0.03	1:1.58	0.290	1.074	0.311	
1 CC Uplink	N/A	3690.00	56640	High	bottom	5 mm	LTE Band 48	F	Closed	0835M	20	QPSK	1	99	18.5	18.13	0	0.00	1:1.58	0.135	1.089	0.147	
1 CC Uplink	N/A	3690.00	56640	High	bottom	5 mm	LTE Band 48	F	Closed	0835M	20	QPSK	50	50	18.5	18.19	0	0.00	1:1.58	0.127	1.074	0.136	
1 CC Uplink	N/A	3560.00	55340	Low	left	5 mm	LTE Band 48	F	Closed	0424M	20	QPSK	1	0	18.5	18.06	0	0.03	1:1.58	0.376	1.107	0.416	
1 CC Uplink	N/A	3603.30	55773	Low-Mid	left	5 mm	LTE Band 48	F	Closed	0424M	20	QPSK	1	99	18.5	17.70	0	0.02	1:1.58	0.500	1.202	0.601	
1 CC Uplink	N/A	3646.70	56207	Mid-High	left	5 mm	LTE Band 48	F	Closed	0424M	20	QPSK	1	99	18.5	17.84	0	0.02	1:1.58	0.601	1.164	0.700	
1 CC Uplink	N/A	3690.00	56640	High	left	5 mm	LTE Band 48	F	Closed	0424M	20	QPSK	1	99	18.5	18.13	0	0.02	1:1.58	0.622	1.089	0.677	
1 CC Uplink	N/A	3560.00	55340	Low	left	5 mm	LTE Band 48	F	Closed	0424M	20	QPSK	50	0	18.5	18.04	0	0.05	1:1.58	0.380	1.112	0.423	
1 CC Uplink	N/A	3603.30	55773	Low-Mid	left	5 mm	LTE Band 48	F	Closed	0424M	20	QPSK	50	0	18.5	17.83	0	0.01	1:1.58	0.468	1.167	0.546	
1 CC Uplink	N/A	3646.70	56207	Mid-High	left	5 mm	LTE Band 48	F	Closed	0424M	20	QPSK	50	25	18.5	17.86	0	0.00	1:1.58	0.578	1.159	0.670	
1 CC Uplink	N/A	3690.00	56640	High	left	5 mm	LTE Band 48	F	Closed	0424M	20	QPSK	50	50	18.5	18.19	0	0.03	1:1.58	0.616	1.074	0.662	
1 CC Uplink	N/A	3690.00	56640	High	left	5 mm	LTE Band 48	F	Closed	0424M	20	QPSK	100	0	18.5	18.11	0	0.04	1:1.58	0.638	1.094	0.698	A79
2 CC Uplink	PCC	3646.70	56207	Mid-High	left	5 mm	LTE Band 48	F	Closed	0424M	20	QPSK	1	99	18.5	17.80	0	0.03	1:1.58	0.571	1.175	0.671	
	SCC	3666.50	56405											0									
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population												Body 1.6 W/kg (mW/g) averaged over 1 gram											

**Table 11-76
NR Band n71 Hotspot SAR**

MEASUREMENT RESULTS																						
FREQUENCY		Side	Spacing	Mode	Antenna Config	Form Factor	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)	Pilot #	
MHz	Ch.																					
680.50	136100	Mid	back	10 mm	NR Band n71	A	Open	0895M	20	DFT-S-OFDM	QPSK	1	53	24.0	23.25	0	0.06	1:1	0.165	1.189	0.196	
680.50	136100	Mid	back	10 mm	NR Band n71	A	Open	0895M	20	DFT-S-OFDM	QPSK	50	28	24.0	23.32	0	-0.01	1:1	0.169	1.169	0.198	
680.50	136100	Mid	front	10 mm	NR Band n71	A	Open	0895M	20	DFT-S-OFDM	QPSK	1	53	24.0	23.25	0	-0.02	1:1	0.152	1.189	0.181	
680.50	136100	Mid	front	10 mm	NR Band n71	A	Open	0895M	20	DFT-S-OFDM	QPSK	50	28	24.0	23.32	0	-0.01	1:1	0.155	1.169	0.181	
680.50	136100	Mid	bottom	10 mm	NR Band n71	A	Open	0895M	20	DFT-S-OFDM	QPSK	1	53	24.0	23.25	0	-0.03	1:1	0.034	1.189	0.040	
680.50	136100	Mid	bottom	10 mm	NR Band n71	A	Open	0895M	20	DFT-S-OFDM	QPSK	50	28	24.0	23.32	0	-0.04	1:1	0.034	1.169	0.040	
680.50	136100	Mid	right	10 mm	NR Band n71	A	Open	0651M	20	DFT-S-OFDM	QPSK	1	53	24.0	23.25	0	0.02	1:1	0.219	1.189	0.260	
680.50	136100	Mid	right	10 mm	NR Band n71	A	Open	0651M	20	DFT-S-OFDM	QPSK	50	28	24.0	23.32	0	0.00	1:1	0.235	1.169	0.275	
680.50	136100	Mid	right	10 mm	NR Band n71	A	Open	0651M	20	CP-OFDM	QPSK	1	1	23.5	22.43	0.5	-0.01	1:1	0.161	1.279	0.206	
680.50	136100	Mid	left	10 mm	NR Band n71	A	Open	0895M	20	DFT-S-OFDM	QPSK	1	53	24.0	23.25	0	0.05	1:1	0.158	1.189	0.188	
680.50	136100	Mid	left	10 mm	NR Band n71	A	Open	0895M	20	DFT-S-OFDM	QPSK	50	28	24.0	23.32	0	0.03	1:1	0.164	1.169	0.192	
680.50	136100	Mid	back	5 mm	NR Band n71	A	Closed	0651M	20	DFT-S-OFDM	QPSK	1	53	24.0	23.25	0	0.06	1:1	0.357	1.189	0.424	
680.50	136100	Mid	back	5 mm	NR Band n71	A	Closed	0651M	20	DFT-S-OFDM	QPSK	50	28	24.0	23.32	0	0.01	1:1	0.383	1.169	0.448	A80
680.50	136100	Mid	back	5 mm	NR Band n71	A	Closed	0651M	20	CP-OFDM	QPSK	1	1	23.5	22.43	0.5	0.02	1:1	0.254	1.279	0.325	
680.50	136100	Mid	front	5 mm	NR Band n71	A	Closed	0975M	20	DFT-S-OFDM	QPSK	1	53	24.0	23.25	0	0.08	1:1	0.063	1.189	0.075	
680.50	136100	Mid	front	5 mm	NR Band n71	A	Closed	0975M	20	DFT-S-OFDM	QPSK	50	28	24.0	23.32	0	0.00	1:1	0.067	1.169	0.078	
680.50	136100	Mid	bottom	5 mm	NR Band n71	A	Closed	0975M	20	DFT-S-OFDM	QPSK	1	53	24.0	23.25	0	0.17	1:1	0.022	1.189	0.026	
680.50	136100	Mid	bottom	5 mm	NR Band n71	A	Closed	0975M	20	DFT-S-OFDM	QPSK	50	28	24.0	23.32	0	-0.20	1:1	0.024	1.169	0.028	
680.50	136100	Mid	right	5 mm	NR Band n71	A	Closed	0975M	20	DFT-S-OFDM	QPSK	1	53	24.0	23.25	0	0.02	1:1	0.086	1.189	0.102	
680.50	136100	Mid	right	5 mm	NR Band n71	A	Closed	0975M	20	DFT-S-OFDM	QPSK	50	28	24.0	23.32	0	-0.01	1:1	0.088	1.169	0.103	
680.50	136100	Mid	left	5 mm	NR Band n71	A	Closed	0975M	20	DFT-S-OFDM	QPSK	1	53	24.0	23.25	0	-0.03	1:1	0.146	1.189	0.174	
680.50	136100	Mid	left	5 mm	NR Band n71	A	Closed	0975M	20	DFT-S-OFDM	QPSK	50	28	24.0	23.32	0	-0.03	1:1	0.148	1.169	0.173	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT											Body											
Spatial Peak											1.6 W/kg (mW/g)											
Uncontrolled Exposure/General Population											averaged over 1 gram											

FCC ID: A3LSMF721U	SAR EVALUATION REPORT										Approved by: Technical Manager									
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Table 11-77
NR Band n12 Hotspot SAR

MEASUREMENT RESULTS																						
FREQUENCY		Side	Spacing	Mode	Antenna Config	Form Factor	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	back	10 mm	NR Band n12	A	Open	0895M	15	DFT-S-OFDM	QPSK	1	1	24.0	23.30	0	0.00	1:1	0.161	1.175	0.189	
707.50	141500	Mid	back	10 mm	NR Band n12	A	Open	0895M	15	DFT-S-OFDM	QPSK	36	0	24.0	23.27	0	0.03	1:1	0.164	1.183	0.194	
707.50	141500	Mid	front	10 mm	NR Band n12	A	Open	0895M	15	DFT-S-OFDM	QPSK	1	1	24.0	23.30	0	-0.01	1:1	0.157	1.175	0.184	
707.50	141500	Mid	front	10 mm	NR Band n12	A	Open	0895M	15	DFT-S-OFDM	QPSK	36	0	24.0	23.27	0	0.00	1:1	0.159	1.183	0.188	
707.50	141500	Mid	bottom	10 mm	NR Band n12	A	Open	0895M	15	DFT-S-OFDM	QPSK	1	1	24.0	23.30	0	-0.04	1:1	0.019	1.175	0.022	
707.50	141500	Mid	bottom	10 mm	NR Band n12	A	Open	0895M	15	DFT-S-OFDM	QPSK	36	0	24.0	23.27	0	0.01	1:1	0.023	1.183	0.027	
707.50	141500	Mid	right	10 mm	NR Band n12	A	Open	0651M	15	DFT-S-OFDM	QPSK	1	1	24.0	23.30	0	0.00	1:1	0.235	1.175	0.276	
707.50	141500	Mid	right	10 mm	NR Band n12	A	Open	0651M	15	DFT-S-OFDM	QPSK	36	0	24.0	23.27	0	0.01	1:1	0.234	1.183	0.277	
707.50	141500	Mid	right	10 mm	NR Band n12	A	Open	0651M	15	CP-OFDM	QPSK	1	1	23.5	22.50	0.5	0.01	1:1	0.170	1.259	0.214	
707.50	141500	Mid	left	10 mm	NR Band n12	A	Open	0895M	15	DFT-S-OFDM	QPSK	1	1	24.0	23.30	0	-0.01	1:1	0.150	1.175	0.176	
707.50	141500	Mid	left	10 mm	NR Band n12	A	Open	0895M	15	DFT-S-OFDM	QPSK	36	0	24.0	23.27	0	0.00	1:1	0.151	1.183	0.179	
707.50	141500	Mid	back	5 mm	NR Band n12	A	Closed	0651M	15	DFT-S-OFDM	QPSK	1	1	24.0	23.30	0	0.05	1:1	0.404	1.175	0.475	
707.50	141500	Mid	back	5 mm	NR Band n12	A	Closed	0651M	15	DFT-S-OFDM	QPSK	36	0	24.0	23.27	0	-0.02	1:1	0.413	1.183	0.489	A81
707.50	141500	Mid	back	5 mm	NR Band n12	A	Closed	0651M	15	CP-OFDM	QPSK	1	1	23.5	22.50	0.5	0.01	1:1	0.366	1.259	0.461	
707.50	141500	Mid	front	5 mm	NR Band n12	A	Closed	0895M	15	DFT-S-OFDM	QPSK	1	1	24.0	23.30	0	0.07	1:1	0.056	1.175	0.066	
707.50	141500	Mid	front	5 mm	NR Band n12	A	Closed	0895M	15	DFT-S-OFDM	QPSK	36	0	24.0	23.27	0	0.03	1:1	0.054	1.183	0.064	
707.50	141500	Mid	bottom	5 mm	NR Band n12	A	Closed	0895M	15	DFT-S-OFDM	QPSK	1	1	24.0	23.30	0	-0.06	1:1	0.064	1.175	0.075	
707.50	141500	Mid	bottom	5 mm	NR Band n12	A	Closed	0895M	15	DFT-S-OFDM	QPSK	36	0	24.0	23.27	0	0.01	1:1	0.064	1.183	0.076	
707.50	141500	Mid	right	5 mm	NR Band n12	A	Closed	0895M	15	DFT-S-OFDM	QPSK	1	1	24.0	23.30	0	-0.01	1:1	0.091	1.175	0.107	
707.50	141500	Mid	right	5 mm	NR Band n12	A	Closed	0895M	15	DFT-S-OFDM	QPSK	36	0	24.0	23.27	0	-0.01	1:1	0.095	1.183	0.112	
707.50	141500	Mid	left	5 mm	NR Band n12	A	Closed	0895M	15	DFT-S-OFDM	QPSK	1	1	24.0	23.30	0	-0.07	1:1	0.118	1.175	0.139	
707.50	141500	Mid	left	5 mm	NR Band n12	A	Closed	0895M	15	DFT-S-OFDM	QPSK	36	0	24.0	23.27	0	0.01	1:1	0.115	1.183	0.136	
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 11-78
NR Band n5 Hotspot SAR

MEASUREMENT RESULTS																						
FREQUENCY		Side	Spacing	Mode	Antenna Config	Form Factor	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.																					
836.50	167300	Mid	back	10 mm	NR Band n5 (Cell)	A	Open	0416M	20	DFT-S-OFDM	QPSK	1	1	24.0	23.42	0	0.03	1:1	0.208	1.143	0.238	
836.50	167300	Mid	back	10 mm	NR Band n5 (Cell)	A	Open	0416M	20	DFT-S-OFDM	QPSK	50	0	24.0	23.41	0	-0.04	1:1	0.238	1.146	0.273	
836.50	167300	Mid	back	10 mm	NR Band n5 (Cell)	A	Open	0416M	20	CP-OFDM	QPSK	1	1	23.5	22.06	0.5	0.01	1:1	0.195	1.393	0.272	
836.50	167300	Mid	front	10 mm	NR Band n5 (Cell)	A	Open	0416M	20	DFT-S-OFDM	QPSK	1	1	24.0	23.42	0	0.00	1:1	0.159	1.143	0.182	
836.50	167300	Mid	front	10 mm	NR Band n5 (Cell)	A	Open	0416M	20	DFT-S-OFDM	QPSK	50	0	24.0	23.41	0	0.01	1:1	0.170	1.146	0.195	
836.50	167300	Mid	bottom	10 mm	NR Band n5 (Cell)	A	Open	0416M	20	DFT-S-OFDM	QPSK	1	1	24.0	23.42	0	0.01	1:1	0.057	1.143	0.065	
836.50	167300	Mid	bottom	10 mm	NR Band n5 (Cell)	A	Open	0416M	20	DFT-S-OFDM	QPSK	50	0	24.0	23.41	0	-0.02	1:1	0.065	1.146	0.074	
836.50	167300	Mid	right	10 mm	NR Band n5 (Cell)	A	Open	0416M	20	DFT-S-OFDM	QPSK	1	1	24.0	23.42	0	0.03	1:1	0.174	1.143	0.199	
836.50	167300	Mid	right	10 mm	NR Band n5 (Cell)	A	Open	0416M	20	DFT-S-OFDM	QPSK	50	0	24.0	23.41	0	-0.02	1:1	0.189	1.146	0.217	
836.50	167300	Mid	left	10 mm	NR Band n5 (Cell)	A	Open	0416M	20	DFT-S-OFDM	QPSK	1	1	24.0	23.42	0	0.04	1:1	0.083	1.143	0.095	
836.50	167300	Mid	left	10 mm	NR Band n5 (Cell)	A	Open	0416M	20	DFT-S-OFDM	QPSK	50	0	24.0	23.41	0	0.05	1:1	0.083	1.146	0.095	
836.50	167300	Mid	back	5 mm	NR Band n5 (Cell)	A	Closed	0416M	20	DFT-S-OFDM	QPSK	1	1	24.0	23.42	0	-0.04	1:1	0.679	1.143	0.776	
836.50	167300	Mid	back	5 mm	NR Band n5 (Cell)	A	Closed	0416M	20	DFT-S-OFDM	QPSK	50	0	24.0	23.41	0	0.03	1:1	0.704	1.146	0.807	A82
836.50	167300	Mid	back	5 mm	NR Band n5 (Cell)	A	Closed	0416M	20	DFT-S-OFDM	QPSK	100	0	24.0	23.36	0	0.06	1:1	0.697	1.159	0.808	
836.50	167300	Mid	back	5 mm	NR Band n5 (Cell)	A	Closed	0416M	20	CP-OFDM	QPSK	1	1	23.5	22.06	0.5	0.01	1:1	0.628	1.393	0.875	
836.50	167300	Mid	front	5 mm	NR Band n5 (Cell)	A	Closed	0416M	20	DFT-S-OFDM	QPSK	1	1	24.0	23.42	0	0.00	1:1	0.189	1.143	0.216	
836.50	167300	Mid	front	5 mm	NR Band n5 (Cell)	A	Closed	0416M	20	DFT-S-OFDM	QPSK	50	0	24.0	23.41	0	0.02	1:1	0.205	1.146	0.235	
836.50	167300	Mid	bottom	5 mm	NR Band n5 (Cell)	A	Closed	0416M	20	DFT-S-OFDM	QPSK	1	1	24.0	23.42	0	0.01	1:1	0.141	1.143	0.161	
836.50	167300	Mid	bottom	5 mm	NR Band n5 (Cell)	A	Closed	0416M	20	DFT-S-OFDM	QPSK	50	0	24.0	23.41	0	-0.02	1:1	0.146	1.146	0.167	
836.50	167300	Mid	right	5 mm	NR Band n5 (Cell)	A	Closed	0416M	20	DFT-S-OFDM	QPSK	1	1	24.0	23.42	0	-0.03	1:1	0.092	1.143	0.105	
836.50	167300	Mid	right	5 mm	NR Band n5 (Cell)	A	Closed	0416M	20	DFT-S-OFDM	QPSK	50	0	24.0	23.41	0	-0.04	1:1	0.107	1.146	0.123	
836.50	167300	Mid	left	5 mm	NR Band n5 (Cell)	A	Closed	0416M	20	DFT-S-OFDM	QPSK	1	1	24.0	23.42	0	0.05	1:1	0.156	1.143	0.178	
836.50	167300	Mid	left	5 mm	NR Band n5 (Cell)	A	Closed	0416M	20	DFT-S-OFDM	QPSK	50	0	24.0	23.41	0	0.01	1:1	0.163	1.146	0.187	
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: A3LSMF721U	SAR EVALUATION REPORT										Approved by: Technical Manager									
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Table 11-79
NR Band n66 Antenna A Hotspot SAR

MEASUREMENT RESULTS																						
FREQUENCY		Side	Spacing	Mode	Antenna Config	Form Factor	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)		
1745.00	349000	Mid	back	10 mm	NR Band n66 (AWS)	A	Open	0931M	40	DFT-S-OFDM	QPSK	1	214	18.5	18.23	0	0.06	1:1	0.419	1.064	0.446	
1745.00	349000	Mid	back	10 mm	NR Band n66 (AWS)	A	Open	0931M	40	DFT-S-OFDM	QPSK	108	108	18.5	18.28	0	0.00	1:1	0.429	1.052	0.451	
1745.00	349000	Mid	front	10 mm	NR Band n66 (AWS)	A	Open	0931M	40	DFT-S-OFDM	QPSK	1	214	18.5	18.23	0	0.00	1:1	0.299	1.064	0.318	
1745.00	349000	Mid	front	10 mm	NR Band n66 (AWS)	A	Open	0931M	40	DFT-S-OFDM	QPSK	108	108	18.5	18.28	0	0.00	1:1	0.305	1.052	0.321	
1745.00	349000	Mid	bottom	10 mm	NR Band n66 (AWS)	A	Open	0931M	40	DFT-S-OFDM	QPSK	1	214	18.5	18.23	0	-0.04	1:1	0.460	1.064	0.489	
1745.00	349000	Mid	bottom	10 mm	NR Band n66 (AWS)	A	Open	0931M	40	DFT-S-OFDM	QPSK	108	108	18.5	18.28	0	-0.04	1:1	0.475	1.052	0.500	
1745.00	349000	Mid	bottom	10 mm	NR Band n66 (AWS)	A	Open	0931M	40	CP-OFDM	QPSK	1	1	18.5	17.94	0	0.03	1:1	0.427	1.138	0.486	
1745.00	349000	Mid	right	10 mm	NR Band n66 (AWS)	A	Open	0931M	40	DFT-S-OFDM	QPSK	1	214	18.5	18.23	0	-0.17	1:1	0.030	1.064	0.032	
1745.00	349000	Mid	right	10 mm	NR Band n66 (AWS)	A	Open	0931M	40	DFT-S-OFDM	QPSK	108	108	18.5	18.28	0	-0.11	1:1	0.031	1.052	0.033	
1745.00	349000	Mid	left	10 mm	NR Band n66 (AWS)	A	Open	0931M	40	DFT-S-OFDM	QPSK	1	214	18.5	18.23	0	-0.08	1:1	0.068	1.064	0.072	
1745.00	349000	Mid	left	10 mm	NR Band n66 (AWS)	A	Open	0931M	40	DFT-S-OFDM	QPSK	108	108	18.5	18.28	0	0.06	1:1	0.071	1.052	0.075	
1745.00	349000	Mid	back	5 mm	NR Band n66 (AWS)	A	Closed	0931M	40	DFT-S-OFDM	QPSK	1	214	18.5	18.23	0	0.04	1:1	0.498	1.064	0.530	
1745.00	349000	Mid	back	5 mm	NR Band n66 (AWS)	A	Closed	0931M	40	DFT-S-OFDM	QPSK	108	108	18.5	18.28	0	-0.02	1:1	0.565	1.052	0.594	
1745.00	349000	Mid	front	5 mm	NR Band n66 (AWS)	A	Closed	0931M	40	DFT-S-OFDM	QPSK	1	214	18.5	18.23	0	0.00	1:1	0.182	1.064	0.194	
1745.00	349000	Mid	front	5 mm	NR Band n66 (AWS)	A	Closed	0931M	40	DFT-S-OFDM	QPSK	108	108	18.5	18.28	0	0.01	1:1	0.196	1.052	0.206	
1745.00	349000	Mid	bottom	5 mm	NR Band n66 (AWS)	A	Closed	0931M	40	DFT-S-OFDM	QPSK	1	214	18.5	18.23	0	0.03	1:1	0.707	1.064	0.752	
1745.00	349000	Mid	bottom	5 mm	NR Band n66 (AWS)	A	Closed	0931M	40	DFT-S-OFDM	QPSK	108	108	18.5	18.28	0	-0.01	1:1	0.768	1.052	0.808	
1745.00	349000	Mid	bottom	5 mm	NR Band n66 (AWS)	A	Closed	0931M	40	DFT-S-OFDM	QPSK	216	0	18.5	18.13	0	0.00	1:1	0.801	1.089	0.872	
1745.00	349000	Mid	bottom	5 mm	NR Band n66 (AWS)	A	Closed	0931M	40	CP-OFDM	QPSK	1	1	18.5	17.94	0	0.01	1:1	0.846	1.138	0.963	A63
1745.00	349000	Mid	right	5 mm	NR Band n66 (AWS)	A	Closed	0931M	40	DFT-S-OFDM	QPSK	1	214	18.5	18.23	0	0.08	1:1	0.015	1.064	0.016	
1745.00	349000	Mid	right	5 mm	NR Band n66 (AWS)	A	Closed	0931M	40	DFT-S-OFDM	QPSK	108	108	18.5	18.28	0	-0.02	1:1	0.018	1.052	0.019	
1745.00	349000	Mid	left	5 mm	NR Band n66 (AWS)	A	Closed	0931M	40	DFT-S-OFDM	QPSK	1	214	18.5	18.23	0	-0.01	1:1	0.154	1.064	0.164	
1745.00	349000	Mid	left	5 mm	NR Band n66 (AWS)	A	Closed	0931M	40	DFT-S-OFDM	QPSK	108	108	18.5	18.28	0	-0.02	1:1	0.181	1.052	0.190	
1745.00	349000	Mid	bottom	5 mm	NR Band n66 (AWS)	A	Closed	0931M	40	CP-OFDM	QPSK	1	1	18.5	17.94	0	0.03	1:1	0.827	1.138	0.941	
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.

Table 11-80
NR Band n66 Antenna I Hotspot SAR

MEASUREMENT RESULTS																						
FREQUENCY		Side	Spacing	Mode	Antenna Config	Form Factor	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)		
1745.00	349000	Mid	back	10 mm	NR Band n66 (AWS)	I	Open	0875M	40	DFT-S-OFDM	QPSK	1	108	16.0	15.30	0	-0.14	1:1	0.023	1.175	0.027	
1745.00	349000	Mid	back	10 mm	NR Band n66 (AWS)	I	Open	0875M	40	DFT-S-OFDM	QPSK	108	108	16.0	15.27	0	0.08	1:1	0.021	1.183	0.025	
1745.00	349000	Mid	front	10 mm	NR Band n66 (AWS)	I	Open	0875M	40	DFT-S-OFDM	QPSK	1	108	16.0	15.30	0	-0.11	1:1	0.026	1.175	0.031	
1745.00	349000	Mid	front	10 mm	NR Band n66 (AWS)	I	Open	0875M	40	DFT-S-OFDM	QPSK	108	108	16.0	15.27	0	0.18	1:1	0.024	1.183	0.028	
1745.00	349000	Mid	top	10 mm	NR Band n66 (AWS)	I	Open	0875M	40	DFT-S-OFDM	QPSK	1	108	16.0	15.30	0	0.10	1:1	0.003	1.175	0.004	
1745.00	349000	Mid	top	10 mm	NR Band n66 (AWS)	I	Open	0875M	40	DFT-S-OFDM	QPSK	108	108	16.0	15.27	0	0.09	1:1	0.003	1.183	0.004	
1745.00	349000	Mid	right	10 mm	NR Band n66 (AWS)	I	Open	0875M	40	DFT-S-OFDM	QPSK	1	108	16.0	15.30	0	0.21	1:1	0.038	1.175	0.045	
1745.00	349000	Mid	right	10 mm	NR Band n66 (AWS)	I	Open	0875M	40	DFT-S-OFDM	QPSK	108	108	16.0	15.27	0	0.13	1:1	0.037	1.183	0.044	
1745.00	349000	Mid	right	10 mm	NR Band n66 (AWS)	I	Open	0875M	40	CP-OFDM	QPSK	1	1	16.0	15.06	0	0.03	1:1	0.041	1.242	0.051	
1745.00	349000	Mid	back	5 mm	NR Band n66 (AWS)	I	Closed	0875M	40	DFT-S-OFDM	QPSK	1	108	16.0	15.30	0	0.05	1:1	0.002	1.175	0.002	
1745.00	349000	Mid	back	5 mm	NR Band n66 (AWS)	I	Closed	0875M	40	DFT-S-OFDM	QPSK	108	108	16.0	15.27	0	0.04	1:1	0.002	1.183	0.002	
1745.00	349000	Mid	front	5 mm	NR Band n66 (AWS)	I	Closed	0875M	40	DFT-S-OFDM	QPSK	1	108	16.0	15.30	0	-0.03	1:1	0.029	1.175	0.034	
1745.00	349000	Mid	front	5 mm	NR Band n66 (AWS)	I	Closed	0875M	40	DFT-S-OFDM	QPSK	108	108	16.0	15.27	0	-0.16	1:1	0.034	1.183	0.040	
1745.00	349000	Mid	top	5 mm	NR Band n66 (AWS)	I	Closed	0875M	40	DFT-S-OFDM	QPSK	1	108	16.0	15.30	0	-0.10	1:1	0.000	1.175	0.000	
1745.00	349000	Mid	top	5 mm	NR Band n66 (AWS)	I	Closed	0875M	40	DFT-S-OFDM	QPSK	108	108	16.0	15.27	0	-0.15	1:1	0.000	1.183	0.000	
1745.00	349000	Mid	bottom	5 mm	NR Band n66 (AWS)	I	Closed	0875M	40	DFT-S-OFDM	QPSK	1	108	16.0	15.30	0	0.02	1:1	0.003	1.175	0.004	
1745.00	349000	Mid	bottom	5 mm	NR Band n66 (AWS)	I	Closed	0875M	40	DFT-S-OFDM	QPSK	108	108	16.0	15.27	0	0.02	1:1	0.004	1.183	0.005	
1745.00	349000	Mid	right	5 mm	NR Band n66 (AWS)	I	Closed	0662M	40	DFT-S-OFDM	QPSK	1	108	16.0	15.30	0	0.07	1:1	0.280	1.175	0.329	
1745.00	349000	Mid	right	5 mm	NR Band n66 (AWS)	I	Closed	0662M	40	DFT-S-OFDM	QPSK	108	108	16.0	15.27	0	-0.01	1:1	0.274	1.183	0.324	
1745.00	349000	Mid	right	5 mm	NR Band n66 (AWS)	I	Closed	0662M	40	CP-OFDM	QPSK	1	1	16.0	15.06	0	0.02	1:1	0.280	1.242	0.348	
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: A3LSMF721U	SAR EVALUATION REPORT										Approved by: Technical Manager									
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Table 11-81
NR Band n25 Antenna A Hotspot SAR

MEASUREMENT RESULTS																						
FREQUENCY		Side	Spacing	Mode	Antenna Config	Form Factor	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)		
1882.50	376500	Mid	back	10 mm	NR Band n25 (PCS)	A	Open	0931M	40	DFT-S-OFDM	QPSK	1	108	18.5	17.98	0	-0.02	1:1	0.343	1.127	0.387	
1882.50	376500	Mid	back	10 mm	NR Band n25 (PCS)	A	Open	0931M	40	DFT-S-OFDM	QPSK	108	108	18.5	18.08	0	-0.01	1:1	0.340	1.102	0.375	
1882.50	376500	Mid	front	10 mm	NR Band n25 (PCS)	A	Open	0931M	40	DFT-S-OFDM	QPSK	1	108	18.5	17.98	0	-0.03	1:1	0.235	1.127	0.265	
1882.50	376500	Mid	front	10 mm	NR Band n25 (PCS)	A	Open	0931M	40	DFT-S-OFDM	QPSK	108	108	18.5	18.08	0	-0.06	1:1	0.231	1.102	0.255	
1882.50	376500	Mid	bottom	10 mm	NR Band n25 (PCS)	A	Open	0931M	40	DFT-S-OFDM	QPSK	1	108	18.5	17.98	0	0.00	1:1	0.604	1.127	0.681	
1882.50	376500	Mid	bottom	10 mm	NR Band n25 (PCS)	A	Open	0931M	40	DFT-S-OFDM	QPSK	108	108	18.5	18.08	0	0.04	1:1	0.633	1.102	0.698	
1882.50	376500	Mid	bottom	10 mm	NR Band n25 (PCS)	A	Open	0931M	40	CP-OFDM	QPSK	1	1	18.5	17.97	0	-0.05	1:1	0.535	1.130	0.605	
1882.50	376500	Mid	right	10 mm	NR Band n25 (PCS)	A	Open	0931M	40	DFT-S-OFDM	QPSK	1	108	18.5	17.88	0	0.07	1:1	0.030	1.127	0.034	
1882.50	376500	Mid	right	10 mm	NR Band n25 (PCS)	A	Open	0931M	40	DFT-S-OFDM	QPSK	108	108	18.5	18.08	0	-0.18	1:1	0.029	1.102	0.032	
1882.50	376500	Mid	left	10 mm	NR Band n25 (PCS)	A	Open	0931M	40	DFT-S-OFDM	QPSK	1	108	18.5	17.98	0	-0.08	1:1	0.077	1.127	0.087	
1882.50	376500	Mid	left	10 mm	NR Band n25 (PCS)	A	Open	0931M	40	DFT-S-OFDM	QPSK	108	108	18.5	18.08	0	-0.08	1:1	0.079	1.102	0.087	
1882.50	376500	Mid	back	5 mm	NR Band n25 (PCS)	A	Closed	0414M	40	DFT-S-OFDM	QPSK	1	108	18.5	17.98	0	0.01	1:1	0.314	1.127	0.354	
1882.50	376500	Mid	back	5 mm	NR Band n25 (PCS)	A	Closed	0414M	40	DFT-S-OFDM	QPSK	108	108	18.5	18.08	0	0.01	1:1	0.332	1.102	0.366	
1882.50	376500	Mid	front	5 mm	NR Band n25 (PCS)	A	Closed	0414M	40	DFT-S-OFDM	QPSK	1	108	18.5	17.98	0	-0.02	1:1	0.114	1.127	0.128	
1882.50	376500	Mid	front	5 mm	NR Band n25 (PCS)	A	Closed	0414M	40	DFT-S-OFDM	QPSK	108	108	18.5	18.08	0	0.01	1:1	0.115	1.102	0.127	
1882.50	376500	Mid	bottom	5 mm	NR Band n25 (PCS)	A	Closed	0414M	40	DFT-S-OFDM	QPSK	1	108	18.5	17.98	0	0.01	1:1	0.617	1.127	0.695	
1882.50	376500	Mid	bottom	5 mm	NR Band n25 (PCS)	A	Closed	0414M	40	DFT-S-OFDM	QPSK	108	108	18.5	18.08	0	-0.02	1:1	0.660	1.102	0.727	
1882.50	376500	Mid	bottom	5 mm	NR Band n25 (PCS)	A	Closed	0414M	40	CP-OFDM	QPSK	1	1	18.5	17.97	0	-0.03	1:1	0.812	1.130	0.918	
1882.50	376500	Mid	right	5 mm	NR Band n25 (PCS)	A	Closed	0414M	40	DFT-S-OFDM	QPSK	1	108	18.5	17.98	0	0.11	1:1	0.020	1.127	0.023	
1882.50	376500	Mid	right	5 mm	NR Band n25 (PCS)	A	Closed	0414M	40	DFT-S-OFDM	QPSK	108	108	18.5	18.08	0	0.03	1:1	0.020	1.102	0.022	
1882.50	376500	Mid	left	5 mm	NR Band n25 (PCS)	A	Closed	0414M	40	DFT-S-OFDM	QPSK	1	108	18.5	17.98	0	0.03	1:1	0.144	1.127	0.162	
1882.50	376500	Mid	left	5 mm	NR Band n25 (PCS)	A	Closed	0414M	40	DFT-S-OFDM	QPSK	108	108	18.5	18.08	0	0.02	1:1	0.167	1.102	0.184	
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 11-82
NR Band n25 Antenna I Hotspot SAR

MEASUREMENT RESULTS																						
FREQUENCY		Side	Spacing	Mode	Antenna Config	Form Factor	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)		
1882.50	376500	Mid	back	10 mm	NR Band n25 (PCS)	I	Open	0875M	40	DFT-S-OFDM	QPSK	1	108	16.5	16.28	0	-0.03	1:1	0.106	1.052	0.112	
1882.50	376500	Mid	back	10 mm	NR Band n25 (PCS)	I	Open	0875M	40	DFT-S-OFDM	QPSK	108	108	16.5	16.34	0	-0.01	1:1	0.107	1.038	0.111	
1882.50	376500	Mid	front	10 mm	NR Band n25 (PCS)	I	Open	0875M	40	DFT-S-OFDM	QPSK	1	108	16.5	16.28	0	0.02	1:1	0.089	1.052	0.094	
1882.50	376500	Mid	front	10 mm	NR Band n25 (PCS)	I	Open	0875M	40	DFT-S-OFDM	QPSK	108	108	16.5	16.34	0	0.04	1:1	0.089	1.038	0.092	
1882.50	376500	Mid	top	10 mm	NR Band n25 (PCS)	I	Open	0875M	40	DFT-S-OFDM	QPSK	1	108	16.5	16.28	0	-0.14	1:1	0.034	1.052	0.036	
1882.50	376500	Mid	top	10 mm	NR Band n25 (PCS)	I	Open	0875M	40	DFT-S-OFDM	QPSK	108	108	16.5	16.34	0	-0.06	1:1	0.034	1.038	0.035	
1882.50	376500	Mid	right	10 mm	NR Band n25 (PCS)	I	Open	0875M	40	DFT-S-OFDM	QPSK	1	108	16.5	16.28	0	0.05	1:1	0.294	1.052	0.309	
1882.50	376500	Mid	right	10 mm	NR Band n25 (PCS)	I	Open	0875M	40	DFT-S-OFDM	QPSK	108	108	16.5	16.34	0	-0.04	1:1	0.289	1.038	0.300	
1882.50	376500	Mid	right	10 mm	NR Band n25 (PCS)	I	Open	0875M	40	CP-OFDM	QPSK	1	1	16.5	16.24	0	-0.03	1:1	0.273	1.062	0.290	
1882.50	376500	Mid	back	5 mm	NR Band n25 (PCS)	I	Closed	0636M	40	DFT-S-OFDM	QPSK	1	108	16.5	16.28	0	0.05	1:1	0.025	1.052	0.026	
1882.50	376500	Mid	back	5 mm	NR Band n25 (PCS)	I	Closed	0636M	40	DFT-S-OFDM	QPSK	108	108	16.5	16.34	0	-0.10	1:1	0.036	1.038	0.037	
1882.50	376500	Mid	front	5 mm	NR Band n25 (PCS)	I	Closed	0636M	40	DFT-S-OFDM	QPSK	1	108	16.5	16.28	0	0.00	1:1	0.371	1.052	0.390	
1882.50	376500	Mid	front	5 mm	NR Band n25 (PCS)	I	Closed	0636M	40	DFT-S-OFDM	QPSK	108	108	16.5	16.34	0	0.02	1:1	0.378	1.038	0.392	
1882.50	376500	Mid	top	5 mm	NR Band n25 (PCS)	I	Closed	0636M	40	DFT-S-OFDM	QPSK	1	108	16.5	16.28	0	-0.10	1:1	0.018	1.052	0.019	
1882.50	376500	Mid	top	5 mm	NR Band n25 (PCS)	I	Closed	0636M	40	DFT-S-OFDM	QPSK	108	108	16.5	16.34	0	0.03	1:1	0.021	1.038	0.022	
1882.50	376500	Mid	bottom	5 mm	NR Band n25 (PCS)	I	Closed	0636M	40	DFT-S-OFDM	QPSK	1	108	16.5	16.28	0	-0.09	1:1	0.050	1.052	0.053	
1882.50	376500	Mid	bottom	5 mm	NR Band n25 (PCS)	I	Closed	0636M	40	DFT-S-OFDM	QPSK	108	108	16.5	16.34	0	-0.08	1:1	0.049	1.038	0.051	
1882.50	376500	Mid	right	5 mm	NR Band n25 (PCS)	I	Closed	0636M	40	DFT-S-OFDM	QPSK	1	108	16.5	16.28	0	0.03	1:1	0.844	1.052	0.888	
1882.50	376500	Mid	right	5 mm	NR Band n25 (PCS)	I	Closed	0636M	40	DFT-S-OFDM	QPSK	108	108	16.5	16.34	0	0.06	1:1	0.861	1.038	0.894	
1882.50	376500	Mid	right	5 mm	NR Band n25 (PCS)	I	Closed	0636M	40	DFT-S-OFDM	QPSK	216	0	16.5	16.27	0	0.01	1:1	0.862	1.054	0.909	A84
1882.50	376500	Mid	right	5 mm	NR Band n25 (PCS)	I	Closed	0636M	40	CP-OFDM	QPSK	1	1	16.5	16.24	0	-0.04	1:1	0.817	1.062	0.868	
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: A3LSMF721U	SAR EVALUATION REPORT										Approved by: Technical Manager									
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Table 11-83
NR Band n30 Antenna B Hotspot SAR

MEASUREMENT RESULTS																						
FREQUENCY		Side	Spacing	Mode	Antenna Config	Form Factor	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	back	10 mm	NR Band n30	B	Open	0646M	10	DFT-S-OFDM	QPSK	1	26	19.0	18.05	0	0.03	1:1	0.226	1.245	0.281	
2310.00	462000	Mid	back	10 mm	NR Band n30	B	Open	0646M	10	DFT-S-OFDM	QPSK	25	14	19.0	18.09	0	0.04	1:1	0.233	1.233	0.287	
2310.00	462000	Mid	front	10 mm	NR Band n30	B	Open	0646M	10	DFT-S-OFDM	QPSK	1	26	19.0	18.05	0	-0.01	1:1	0.163	1.245	0.203	
2310.00	462000	Mid	front	10 mm	NR Band n30	B	Open	0646M	10	DFT-S-OFDM	QPSK	25	14	19.0	18.09	0	0.03	1:1	0.167	1.233	0.206	
2310.00	462000	Mid	bottom	10 mm	NR Band n30	B	Open	0646M	10	DFT-S-OFDM	QPSK	1	26	19.0	18.05	0	-0.03	1:1	0.537	1.245	0.669	
2310.00	462000	Mid	bottom	10 mm	NR Band n30	B	Open	0646M	10	DFT-S-OFDM	QPSK	25	14	19.0	18.09	0	0.00	1:1	0.550	1.233	0.678	
2310.00	462000	Mid	bottom	10 mm	NR Band n30	B	Open	0646M	10	CP-OFDM	QPSK	1	1	19.0	18.22	0	-0.02	1:1	0.557	1.197	0.667	
2310.00	462000	Mid	left	10 mm	NR Band n30	B	Open	0646M	10	DFT-S-OFDM	QPSK	1	26	19.0	18.05	0	0.01	1:1	0.073	1.245	0.091	
2310.00	462000	Mid	left	10 mm	NR Band n30	B	Open	0646M	10	DFT-S-OFDM	QPSK	25	14	19.0	18.09	0	-0.05	1:1	0.076	1.233	0.094	
2310.00	462000	Mid	back	5 mm	NR Band n30	B	Closed	0646M	10	DFT-S-OFDM	QPSK	1	26	19.0	18.05	0	-0.03	1:1	0.377	1.245	0.469	
2310.00	462000	Mid	back	5 mm	NR Band n30	B	Closed	0646M	10	DFT-S-OFDM	QPSK	25	14	19.0	18.09	0	0.00	1:1	0.381	1.233	0.470	
2310.00	462000	Mid	front	5 mm	NR Band n30	B	Closed	0646M	10	DFT-S-OFDM	QPSK	1	26	19.0	18.05	0	0.08	1:1	0.066	1.245	0.082	
2310.00	462000	Mid	front	5 mm	NR Band n30	B	Closed	0646M	10	DFT-S-OFDM	QPSK	25	14	19.0	18.09	0	-0.10	1:1	0.070	1.233	0.086	
2310.00	462000	Mid	bottom	5 mm	NR Band n30	B	Closed	0646M	10	DFT-S-OFDM	QPSK	1	26	19.0	18.05	0	0.02	1:1	0.775	1.245	0.965	
2310.00	462000	Mid	bottom	5 mm	NR Band n30	B	Closed	0646M	10	DFT-S-OFDM	QPSK	25	14	19.0	18.09	0	0.03	1:1	0.792	1.233	0.977	A85
2310.00	462000	Mid	bottom	5 mm	NR Band n30	B	Closed	0646M	10	DFT-S-OFDM	QPSK	50	0	19.0	18.04	0	0.01	1:1	0.781	1.247	0.974	
2310.00	462000	Mid	bottom	5 mm	NR Band n30	B	Closed	0646M	10	CP-OFDM	QPSK	1	1	19.0	18.22	0	0.03	1:1	0.789	1.197	0.944	
2310.00	462000	Mid	left	5 mm	NR Band n30	B	Closed	0646M	10	DFT-S-OFDM	QPSK	1	26	19.0	18.05	0	0.00	1:1	0.241	1.245	0.300	
2310.00	462000	Mid	left	5 mm	NR Band n30	B	Closed	0646M	10	DFT-S-OFDM	QPSK	25	14	19.0	18.09	0	0.01	1:1	0.243	1.233	0.300	
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 11-84
NR Band n30 Antenna I Hotspot SAR

MEASUREMENT RESULTS																						
FREQUENCY		Side	Spacing	Mode	Antenna Config	Form Factor	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	back	10 mm	NR Band n30	I	Open	0658M	10	DFT-S-OFDM	QPSK	1	1	19.5	19.19	0	-0.03	1:1	0.170	1.074	0.183	
2310.00	462000	Mid	back	10 mm	NR Band n30	I	Open	0658M	10	DFT-S-OFDM	QPSK	25	14	19.5	19.25	0	-0.05	1:1	0.167	1.059	0.177	
2310.00	462000	Mid	front	10 mm	NR Band n30	I	Open	0658M	10	DFT-S-OFDM	QPSK	1	1	19.5	19.19	0	0.02	1:1	0.201	1.074	0.216	
2310.00	462000	Mid	front	10 mm	NR Band n30	I	Open	0658M	10	DFT-S-OFDM	QPSK	25	14	19.5	19.25	0	0.03	1:1	0.205	1.059	0.217	
2310.00	462000	Mid	top	10 mm	NR Band n30	I	Open	0658M	10	DFT-S-OFDM	QPSK	1	1	19.5	19.19	0	0.16	1:1	0.041	1.074	0.044	
2310.00	462000	Mid	top	10 mm	NR Band n30	I	Open	0658M	10	DFT-S-OFDM	QPSK	25	14	19.5	19.25	0	0.06	1:1	0.043	1.059	0.046	
2310.00	462000	Mid	right	10 mm	NR Band n30	I	Open	0658M	10	DFT-S-OFDM	QPSK	1	1	19.5	19.19	0	0.00	1:1	0.247	1.074	0.265	
2310.00	462000	Mid	right	10 mm	NR Band n30	I	Open	0658M	10	DFT-S-OFDM	QPSK	25	14	19.5	19.25	0	0.01	1:1	0.254	1.059	0.269	
2310.00	462000	Mid	right	10 mm	NR Band n30	I	Open	0658M	10	CP-OFDM	QPSK	1	1	19.5	19.32	0	-0.03	1:1	0.259	1.042	0.270	
2310.00	462000	Mid	back	5 mm	NR Band n30	I	Closed	0658M	10	DFT-S-OFDM	QPSK	1	1	19.5	19.19	0	0.02	1:1	0.045	1.074	0.048	
2310.00	462000	Mid	back	5 mm	NR Band n30	I	Closed	0658M	10	DFT-S-OFDM	QPSK	25	14	19.5	19.25	0	0.11	1:1	0.045	1.059	0.048	
2310.00	462000	Mid	front	5 mm	NR Band n30	I	Closed	0658M	10	DFT-S-OFDM	QPSK	1	1	19.5	19.19	0	0.02	1:1	0.222	1.074	0.238	
2310.00	462000	Mid	front	5 mm	NR Band n30	I	Closed	0658M	10	DFT-S-OFDM	QPSK	25	14	19.5	19.25	0	-0.08	1:1	0.229	1.059	0.243	
2310.00	462000	Mid	top	5 mm	NR Band n30	I	Closed	0658M	10	DFT-S-OFDM	QPSK	1	1	19.5	19.19	0	0.04	1:1	0.028	1.074	0.030	
2310.00	462000	Mid	top	5 mm	NR Band n30	I	Closed	0658M	10	DFT-S-OFDM	QPSK	25	14	19.5	19.25	0	-0.10	1:1	0.031	1.059	0.033	
2310.00	462000	Mid	bottom	5 mm	NR Band n30	I	Closed	0658M	10	DFT-S-OFDM	QPSK	1	1	19.5	19.19	0	0.04	1:1	0.148	1.074	0.159	
2310.00	462000	Mid	bottom	5 mm	NR Band n30	I	Closed	0658M	10	DFT-S-OFDM	QPSK	25	14	19.5	19.25	0	-0.01	1:1	0.156	1.059	0.165	
2310.00	462000	Mid	right	5 mm	NR Band n30	I	Closed	0658M	10	DFT-S-OFDM	QPSK	1	1	19.5	19.19	0	0.01	1:1	0.543	1.074	0.583	
2310.00	462000	Mid	right	5 mm	NR Band n30	I	Closed	0658M	10	DFT-S-OFDM	QPSK	25	14	19.5	19.25	0	0.02	1:1	0.540	1.059	0.572	
2310.00	462000	Mid	right	5 mm	NR Band n30	I	Closed	0658M	10	CP-OFDM	QPSK	1	1	19.5	19.32	0	0.05	1:1	0.566	1.042	0.590	
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 11-85
NR Band n7 Antenna B Hotspot SAR

MEASUREMENT RESULTS																						
FREQUENCY		Side	Spacing	Mode	Antenna Config	Form Factor	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	back	10 mm	NR Band n7	B	Open	0414M	40	DFT-S-OFDM	QPSK	1	108	20.5	19.71	0	0.03	1:1	0.153	1.199	0.183	
2535.00	507000	Mid	back	10 mm	NR Band n7	B	Open	0414M	40	DFT-S-OFDM	QPSK	108	108	20.5	19.86	0	0.03	1:1	0.151	1.159	0.175	
2535.00	507000	Mid	front	10 mm	NR Band n7	B	Open	0414M	40	DFT-S-OFDM	QPSK	1	108	20.5	19.71	0	0.20	1:1	0.126	1.199	0.151	
2535.00	507000	Mid	front	10 mm	NR Band n7	B	Open	0414M	40	DFT-S-OFDM	QPSK	108	108	20.5	19.86	0	-0.02	1:1	0.122	1.159	0.141	
2535.00	507000	Mid	bottom	10 mm	NR Band n7	B	Open	0414M	40	DFT-S-OFDM	QPSK	1	108	20.5	19.71	0	0.01	1:1	0.403	1.199	0.483	
2535.00	507000	Mid	bottom	10 mm	NR Band n7	B	Open	0414M	40	DFT-S-OFDM	QPSK	108	108	20.5	19.86	0	-0.03	1:1	0.407	1.159	0.472	
2535.00	507000	Mid	bottom	10 mm	NR Band n7	B	Open	0414M	40	CP-OFDM	QPSK	1	1	20.5	19.54	0	0.04	1:1	0.414	1.247	0.516	A86
2535.00	507000	Mid	left	10 mm	NR Band n7	B	Open	0414M	40	DFT-S-OFDM	QPSK	1	108	20.5	19.71	0	0.12	1:1	0.072	1.199	0.086	
2535.00	507000	Mid	left	10 mm	NR Band n7	B	Open	0414M	40	DFT-S-OFDM	QPSK	108	108	20.5	19.86	0	-0.07	1:1	0.073	1.159	0.085	
2535.00	507000	Mid	back	5 mm	NR Band n7	B	Closed	0414M	40	DFT-S-OFDM	QPSK	1	108	20.5	19.71	0	0.03	1:1	0.274	1.199	0.329	
2535.00	507000	Mid	back	5 mm	NR Band n7	B	Closed	0414M	40	DFT-S-OFDM	QPSK	108	108	20.5	19.86	0	-0.01	1:1	0.298	1.159	0.345	
2535.00	507000	Mid	front	5 mm	NR Band n7	B	Closed	0414M	40	DFT-S-OFDM	QPSK	1	108	20.5	19.71	0	-0.12	1:1	0.030	1.199	0.036	
2535.00	507000	Mid	front	5 mm	NR Band n7	B	Closed	0414M	40	DFT-S-OFDM	QPSK	108	108	20.5	19.86	0	-0.11	1:1	0.028	1.159	0.032	
2535.00	507000	Mid	bottom	5 mm	NR Band n7	B	Closed	0414M	40	DFT-S-OFDM	QPSK	1	108	20.5	19.71	0	-0.02	1:1	0.205	1.199	0.246	
2535.00	507000	Mid	bottom	5 mm	NR Band n7	B	Closed	0414M	40	DFT-S-OFDM	QPSK	108	108	20.5	19.86	0	0.03	1:1	0.199	1.159	0.231	
2535.00	507000	Mid	left	5 mm	NR Band n7	B	Closed	0414M	40	DFT-S-OFDM	QPSK	1	108	20.5	19.71	0	-0.03	1:1	0.289	1.199	0.347	
2535.00	507000	Mid	left	5 mm	NR Band n7	B	Closed	0414M	40	DFT-S-OFDM	QPSK	108	108	20.5	19.86	0	-0.04	1:1	0.294	1.159	0.341	
2535.00	507000	Mid	left	5 mm	NR Band n7	B	Closed	0414M	40	CP-OFDM	QPSK	1	1	20.5	19.54	0	0.01	1:1	0.353	1.247	0.440	
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 11-86
NR Band n41 Hotspot SAR

MEASUREMENT RESULTS																						
FREQUENCY		Side	Spacing	Mode	Antenna Config	Form Factor	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.																					
2592.99	518598	Mid	back	10 mm	NR Band n41	I	Open	0649M	100	DFT-S-OFDM	QPSK	1	271	18.0	17.74	0	0.03	1:1	0.099	1.062	0.105	
2592.99	518598	Mid	back	10 mm	NR Band n41	I	Open	0649M	100	DFT-S-OFDM	QPSK	135	138	18.0	17.58	0	0.02	1:1	0.102	1.102	0.112	
2592.99	518598	Mid	front	10 mm	NR Band n41	I	Open	0649M	100	DFT-S-OFDM	QPSK	1	271	18.0	17.74	0	0.03	1:1	0.133	1.062	0.141	
2592.99	518598	Mid	front	10 mm	NR Band n41	I	Open	0649M	100	DFT-S-OFDM	QPSK	135	138	18.0	17.58	0	0.01	1:1	0.136	1.102	0.150	
2592.99	518598	Mid	top	10 mm	NR Band n41	I	Open	0649M	100	DFT-S-OFDM	QPSK	1	271	18.0	17.74	0	0.07	1:1	0.043	1.062	0.046	
2592.99	518598	Mid	top	10 mm	NR Band n41	I	Open	0649M	100	DFT-S-OFDM	QPSK	135	138	18.0	17.58	0	-0.03	1:1	0.039	1.102	0.043	
2592.99	518598	Mid	right	10 mm	NR Band n41	I	Open	0649M	100	DFT-S-OFDM	QPSK	1	271	18.0	17.74	0	0.05	1:1	0.146	1.062	0.155	
2592.99	518598	Mid	right	10 mm	NR Band n41	I	Open	0649M	100	DFT-S-OFDM	QPSK	135	138	18.0	17.58	0	0.01	1:1	0.143	1.102	0.158	
2592.99	518598	Mid	right	10 mm	NR Band n41	I	Open	0649M	100	CP-OFDM	QPSK	1	1	18.0	16.85	0	-0.01	1:1	0.099	1.303	0.129	
2592.99	518598	Mid	back	5 mm	NR Band n41	I	Closed	0636M	100	DFT-S-OFDM	QPSK	1	271	18.0	17.74	0	0.03	1:1	0.129	1.062	0.137	
2592.99	518598	Mid	back	5 mm	NR Band n41	I	Closed	0636M	100	DFT-S-OFDM	QPSK	135	138	18.0	17.58	0	0.03	1:1	0.127	1.102	0.140	
2592.99	518598	Mid	front	5 mm	NR Band n41	I	Closed	0636M	100	DFT-S-OFDM	QPSK	1	271	18.0	17.74	0	0.01	1:1	0.396	1.062	0.423	
2592.99	518598	Mid	front	5 mm	NR Band n41	I	Closed	0636M	100	DFT-S-OFDM	QPSK	135	138	18.0	17.58	0	-0.04	1:1	0.401	1.102	0.442	
2592.99	518598	Mid	top	5 mm	NR Band n41	I	Closed	0636M	100	DFT-S-OFDM	QPSK	1	271	18.0	17.74	0	-0.14	1:1	0.044	1.062	0.047	
2592.99	518598	Mid	top	5 mm	NR Band n41	I	Closed	0636M	100	DFT-S-OFDM	QPSK	135	138	18.0	17.58	0	0.08	1:1	0.041	1.102	0.045	
2592.99	518598	Mid	bottom	5 mm	NR Band n41	I	Closed	0636M	100	DFT-S-OFDM	QPSK	1	271	18.0	17.74	0	0.00	1:1	0.099	1.062	0.105	
2592.99	518598	Mid	bottom	5 mm	NR Band n41	I	Closed	0636M	100	DFT-S-OFDM	QPSK	135	138	18.0	17.58	0	0.06	1:1	0.106	1.102	0.117	
2592.99	518598	Mid	right	5 mm	NR Band n41	I	Closed	0636M	100	DFT-S-OFDM	QPSK	1	271	18.0	17.74	0	0.05	1:1	0.530	1.062	0.563	
2592.99	518598	Mid	right	5 mm	NR Band n41	I	Closed	0636M	100	DFT-S-OFDM	QPSK	135	138	18.0	17.58	0	-0.03	1:1	0.535	1.102	0.590	
2592.99	518598	Mid	right	5 mm	NR Band n41	I	Closed	0636M	100	CP-OFDM	QPSK	1	1	18.0	16.85	0	0.02	1:1	0.442	1.303	0.576	
2592.99	518598	Mid	back	10 mm	NR Band n41	B	Open	0649M	100	CW/SRS	N/A	N/A	N/A	16.0	15.12	N/A	0.03	1:1	0.099	1.225	0.121	
2592.99	518598	Mid	front	10 mm	NR Band n41	B	Open	0649M	100	CW/SRS	N/A	N/A	N/A	16.0	15.12	N/A	-0.01	1:1	0.090	1.225	0.110	
2592.99	518598	Mid	bottom	10 mm	NR Band n41	B	Open	0649M	100	CW/SRS	N/A	N/A	N/A	16.0	15.12	N/A	-0.01	1:1	0.275	1.225	0.337	
2592.99	518598	Mid	left	10 mm	NR Band n41	B	Open	0649M	100	CW/SRS	N/A	N/A	N/A	16.0	15.12	N/A	0.07	1:1	0.015	1.225	0.018	
2592.99	518598	Mid	back	5 mm	NR Band n41	B	Closed	0636M	100	CW/SRS	N/A	N/A	N/A	16.0	15.12	N/A	0.06	1:1	0.225	1.225	0.276	
2592.99	518598	Mid	front	5 mm	NR Band n41	B	Closed	0636M	100	CW/SRS	N/A	N/A	N/A	16.0	15.12	N/A	-0.07	1:1	0.019	1.225	0.023	
2592.99	518598	Mid	bottom	5 mm	NR Band n41	B	Closed	0636M	100	CW/SRS	N/A	N/A	N/A	16.0	15.12	N/A	-0.12	1:1	0.678	1.225	0.831	A87
2592.99	518598	Mid	left	5 mm	NR Band n41	B	Closed	0636M	100	CW/SRS	N/A	N/A	N/A	16.0	15.12	N/A	0.08	1:1	0.179	1.225	0.219	
2592.99	518598	Mid	back	10 mm	NR Band n41	F	Open	0649M	100	CW/SRS	N/A	N/A	N/A	14.5	13.70	N/A	-0.05	1:1	0.030	1.202	0.036	
2592.99	518598	Mid	front	10 mm	NR Band n41	F	Open	0649M	100	CW/SRS	N/A	N/A	N/A	14.5	13.70	N/A	0.16	1:1	0.018	1.202	0.022	
2592.99	518598	Mid	top	10 mm	NR Band n41	F	Open	0649M	100	CW/SRS	N/A	N/A	N/A	14.5	13.70	N/A	0.02	1:1	0.008	1.202	0.010	
2592.99	518598	Mid	left	10 mm	NR Band n41	F	Open	0649M	100	CW/SRS	N/A	N/A	N/A	14.5	13.70	N/A	0.08	1:1	0.033	1.202	0.040	
2592.99	518598	Mid	back	5 mm	NR Band n41	F	Closed	0636M	100	CW/SRS	N/A	N/A	N/A	14.5	13.70	N/A	0.03	1:1	0.008	1.202	0.010	
2592.99	518598	Mid	front	5 mm	NR Band n41	F	Closed	0636M	100	CW/SRS	N/A	N/A	N/A	14.5	13.70	N/A	-0.01	1:1	0.041	1.202	0.049	
2592.99	518598	Mid	bottom	5 mm	NR Band n41	F	Closed	0636M	100	CW/SRS	N/A	N/A	N/A	14.5	13.70	N/A	-0.18	1:1	0.027	1.202	0.032	
2592.99	518598	Mid	left	5 mm	NR Band n41	F	Closed	0636M	100	CW/SRS	N/A	N/A	N/A	14.5	13.70	N/A	-0.05	1:1	0.091	1.202	0.109	
2592.99	518598	Mid	back	10 mm	NR Band n41	C	Open	0649M	100	CW/SRS	N/A	N/A	N/A	11.0	10.28	N/A	0.08	1:1	0.006	1.180	0.007	
2592.99	518598	Mid	front	10 mm	NR Band n41	C	Open	0649M	100	CW/SRS	N/A	N/A	N/A	11.0	10.28	N/A	0.05	1:1	0.002	1.180	0.002	
2592.99	518598	Mid	bottom	10 mm	NR Band n41	C	Open	0649M	100	CW/SRS	N/A	N/A	N/A	11.0	10.28	N/A	0.05	1:1	0.000	1.180	0.000	
2592.99	518598	Mid	left	10 mm	NR Band n41	C	Open	0649M	100	CW/SRS	N/A	N/A	N/A	11.0	10.28	N/A	0.02	1:1	0.005	1.180	0.006	
2592.99	518598	Mid	back	5 mm	NR Band n41	C	Closed	0636M	100	CW/SRS	N/A	N/A	N/A	11.0	10.28	N/A	-0.10	1:1	0.046	1.180	0.054	
2592.99	518598	Mid	front	5 mm	NR Band n41	C	Closed	0636M	100	CW/SRS	N/A	N/A	N/A	11.0	10.28	N/A	0.13	1:1	0.011	1.180	0.013	
2592.99	518598	Mid	top	5 mm	NR Band n41	C	Closed	0636M	100	CW/SRS	N/A	N/A	N/A	11.0	10.28	N/A	0.04	1:1	0.007	1.180	0.008	
2592.99	518598	Mid	bottom	5 mm	NR Band n41	C	Closed	0636M	100	CW/SRS	N/A	N/A	N/A	11.0	10.28	N/A	0.06	1:1	0.002	1.180	0.002	
2592.99	518598	Mid	left	5 mm	NR Band n41	C	Closed	0636M	100	CW/SRS	N/A	N/A	N/A	11.0	10.28	N/A	-0.07	1:1	0.114	1.180	0.135	
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 11-87
NR Band n48 Antenna F Hotspot SAR

MEASUREMENT RESULTS																					
FREQUENCY		Side	Spacing	Mode	Antenna Config	Form Factor	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.																				
3570.00	638000	Low	back	10 mm	NR Band n48	F	Open	0651M	40	DFT-S-OFDM	QPSK	1	1	17.5	17.49	0	-0.01	1:1	0.154	1.002	0.154
3570.00	638000	Low	back	10 mm	NR Band n48	F	Open	0651M	40	DFT-S-OFDM	QPSK	50	0	17.5	17.34	0	0.08	1:1	0.157	1.038	0.163
3570.00	638000	Low	front	10 mm	NR Band n48	F	Open	0651M	40	DFT-S-OFDM	QPSK	1	1	17.5	17.49	0	0.02	1:1	0.089	1.002	0.089
3570.00	638000	Low	front	10 mm	NR Band n48	F	Open	0651M	40	DFT-S-OFDM	QPSK	50	0	17.5	17.34	0	0.06	1:1	0.088	1.038	0.091
3570.00	638000	Low	top	10 mm	NR Band n48	F	Open	0651M	40	DFT-S-OFDM	QPSK	1	1	17.5	17.49	0	-0.06	1:1	0.075	1.002	0.075
3570.00	638000	Low	top	10 mm	NR Band n48	F	Open	0651M	40	DFT-S-OFDM	QPSK	50	0	17.5	17.34	0	0.03	1:1	0.073	1.038	0.076
3570.00	638000	Low	left	10 mm	NR Band n48	F	Open	0651M	40	DFT-S-OFDM	QPSK	1	1	17.5	17.49	0	0.01	1:1	0.180	1.002	0.180
3570.00	638000	Low	left	10 mm	NR Band n48	F	Open	0651M	40	DFT-S-OFDM	QPSK	50	0	17.5	17.34	0	0.01	1:1	0.193	1.038	0.200
3570.00	638000	Low	left	10 mm	NR Band n48	F	Open	0651M	40	CP-OFDM	QPSK	1	1	17.5	17.09	0	0.04	1:1	0.180	1.099	0.198
3570.00	638000	Low	back	5 mm	NR Band n48	F	Closed	0651M	40	DFT-S-OFDM	QPSK	1	1	17.5	17.49	0	0.05	1:1	0.034	1.002	0.034
3570.00	638000	Low	back	5 mm	NR Band n48	F	Closed	0651M	40	DFT-S-OFDM	QPSK	50	0	17.5	17.34	0	0.06	1:1	0.033	1.038	0.034
3570.00	638000	Low	front	5 mm	NR Band n48	F	Closed	0651M	40	DFT-S-OFDM	QPSK	1	1	17.5	17.49	0	0.02	1:1	0.414	1.002	0.415
3570.00	638000	Low	front	5 mm	NR Band n48	F	Closed	0651M	40	DFT-S-OFDM	QPSK	50	0	17.5	17.34	0	-0.08	1:1	0.413	1.038	0.429
3570.00	638000	Low	bottom	5 mm	NR Band n48	F	Closed	0651M	40	DFT-S-OFDM	QPSK	1	1	17.5	17.49	0	0.06	1:1	0.147	1.002	0.147
3570.00	638000	Low	bottom	5 mm	NR Band n48	F	Closed	0651M	40	DFT-S-OFDM	QPSK	50	0	17.5	17.34	0	0.13	1:1	0.148	1.038	0.154
3570.00	638000	Low	left	5 mm	NR Band n48	F	Closed	0651M	40	DFT-S-OFDM	QPSK	1	1	17.5	17.49	0	0.05	1:1	0.470	1.002	0.471
3570.00	638000	Low	left	5 mm	NR Band n48	F	Closed	0651M	40	DFT-S-OFDM	QPSK	50	0	17.5	17.34	0	0.09	1:1	0.483	1.038	0.501
3570.00	638000	Low	left	5 mm	NR Band n48	F	Closed	0651M	40	CP-OFDM	QPSK	1	1	17.5	17.09	0	-0.05	1:1	0.475	1.099	0.522
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 11-88
NR Band n48 Antenna I, E, C Hotspot SAR

MEASUREMENT RESULTS																						
FREQUENCY		Side	Spacing	Mode	Antenna Config	Form Factor	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.																					
3679.98	645332	High	back	10 mm	NR Band n48	I	Open	0651M	40	CW/SRS	N/A	N/A	N/A	17.5	16.63	N/A	0.09	1:1	0.116	1.222	0.142	
3679.98	645332	High	front	10 mm	NR Band n48	I	Open	0651M	40	CW/SRS	N/A	N/A	N/A	17.5	16.63	N/A	-0.07	1:1	0.085	1.222	0.104	
3679.98	645332	High	top	10 mm	NR Band n48	I	Open	0651M	40	CW/SRS	N/A	N/A	N/A	17.5	16.63	N/A	0.02	1:1	0.015	1.222	0.018	
3679.98	645332	High	right	10 mm	NR Band n48	I	Open	0651M	40	CW/SRS	N/A	N/A	N/A	17.5	16.63	N/A	-0.02	1:1	0.183	1.222	0.224	
3679.98	645332	High	back	10 mm	NR Band n48	E	Open	0651M	40	CW/SRS	N/A	N/A	N/A	17.5	16.47	N/A	0.01	1:1	0.103	1.268	0.131	
3679.98	645332	High	front	10 mm	NR Band n48	E	Open	0651M	40	CW/SRS	N/A	N/A	N/A	17.5	16.47	N/A	0.03	1:1	0.062	1.268	0.079	
3679.98	645332	High	top	10 mm	NR Band n48	E	Open	0651M	40	CW/SRS	N/A	N/A	N/A	17.5	16.47	N/A	0.05	1:1	0.016	1.268	0.020	
3679.98	645332	High	left	10 mm	NR Band n48	E	Open	0651M	40	CW/SRS	N/A	N/A	N/A	17.5	16.47	N/A	0.05	1:1	0.113	1.268	0.143	
3679.98	645332	High	back	10 mm	NR Band n48	C	Open	0651M	40	CW/SRS	N/A	N/A	N/A	15.0	14.10	N/A	0.17	1:1	0.025	1.230	0.031	
3679.98	645332	High	front	10 mm	NR Band n48	C	Open	0651M	40	CW/SRS	N/A	N/A	N/A	15.0	14.10	N/A	-0.17	1:1	0.022	1.230	0.027	
3679.98	645332	High	bottom	10 mm	NR Band n48	C	Open	0651M	40	CW/SRS	N/A	N/A	N/A	15.0	14.10	N/A	0.08	1:1	0.015	1.230	0.018	
3679.98	645332	High	left	10 mm	NR Band n48	C	Open	0651M	40	CW/SRS	N/A	N/A	N/A	15.0	14.10	N/A	-0.06	1:1	0.065	1.230	0.080	
3679.98	645332	High	back	5 mm	NR Band n48	I	Closed	0651M	40	CW/SRS	N/A	N/A	N/A	17.5	16.63	N/A	0.15	1:1	0.042	1.222	0.051	
3679.98	645332	High	front	5 mm	NR Band n48	I	Closed	0651M	40	CW/SRS	N/A	N/A	N/A	17.5	16.63	N/A	0.07	1:1	0.359	1.222	0.439	
3679.98	645332	High	top	5 mm	NR Band n48	I	Closed	0651M	40	CW/SRS	N/A	N/A	N/A	17.5	16.63	N/A	0.06	1:1	0.026	1.222	0.032	
3679.98	645332	High	bottom	5 mm	NR Band n48	I	Closed	0651M	40	CW/SRS	N/A	N/A	N/A	17.5	16.63	N/A	0.07	1:1	0.016	1.222	0.020	
3570.00	638000	Low	right	5 mm	NR Band n48	I	Closed	0651M	40	CW/SRS	N/A	N/A	N/A	17.5	16.42	N/A	-0.03	1:1	0.496	1.282	0.636	A88
3624.99	641666	Mid	right	5 mm	NR Band n48	I	Closed	0651M	40	CW/SRS	N/A	N/A	N/A	17.5	16.43	N/A	0.00	1:1	0.587	1.279	0.751	
3679.98	645332	High	right	5 mm	NR Band n48	I	Closed	0651M	40	CW/SRS	N/A	N/A	N/A	17.5	16.63	N/A	0.04	1:1	0.453	1.222	0.554	
3679.98	645332	High	back	5 mm	NR Band n48	E	Closed	0651M	40	CW/SRS	N/A	N/A	N/A	17.5	16.47	N/A	0.19	1:1	0.032	1.268	0.041	
3679.98	645332	High	front	5 mm	NR Band n48	E	Closed	0651M	40	CW/SRS	N/A	N/A	N/A	17.5	16.47	N/A	0.04	1:1	0.186	1.268	0.236	
3679.98	645332	High	top	5 mm	NR Band n48	E	Closed	0651M	40	CW/SRS	N/A	N/A	N/A	17.5	16.47	N/A	0.07	1:1	0.013	1.268	0.016	
3679.98	645332	High	bottom	5 mm	NR Band n48	E	Closed	0651M	40	CW/SRS	N/A	N/A	N/A	17.5	16.47	N/A	-0.07	1:1	0.035	1.268	0.044	
3679.98	645332	High	left	5 mm	NR Band n48	E	Closed	0651M	40	CW/SRS	N/A	N/A	N/A	17.5	16.47	N/A	0.08	1:1	0.292	1.268	0.370	
3679.98	645332	High	back	5 mm	NR Band n48	C	Closed	0651M	40	CW/SRS	N/A	N/A	N/A	15.0	14.10	N/A	-0.02	1:1	0.088	1.230	0.108	
3679.98	645332	High	front	5 mm	NR Band n48	C	Closed	0651M	40	CW/SRS	N/A	N/A	N/A	15.0	14.10	N/A	0.09	1:1	0.019	1.230	0.023	
3679.98	645332	High	top	5 mm	NR Band n48	C	Closed	0651M	40	CW/SRS	N/A	N/A	N/A	15.0	14.10	N/A	0.10	1:1	0.009	1.230	0.011	
3679.98	645332	High	bottom	5 mm	NR Band n48	C	Closed	0651M	40	CW/SRS	N/A	N/A	N/A	15.0	14.10	N/A	-0.06	1:1	0.020	1.230	0.025	
3679.98	645332	High	left	5 mm	NR Band n48	C	Closed	0651M	40	CW/SRS	N/A	N/A	N/A	15.0	14.10	N/A	0.09	1:1	0.184	1.230	0.226	
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FCC ID: A3LSMF721U	SAR EVALUATION REPORT														Approved by: Technical Manager						
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Table 11-89
NR Band DoD n77 Hotspot SAR

MEASUREMENT RESULTS																						
FREQUENCY		Side	Spacing	Mode	Antenna Config	Form Factor	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 (W/g)	Scaling Factor	Reported SAR (W/g)	Plot #	
MHz	Ch.																					
3500.01	633334	Mid	back	10 mm	NR Band n77 DoD	F	Open	0651M	100	DFT-S-OFDM	QPSK	1	1	16.5	16.38	0	-0.06	1:1	0.103	1.028	0.106	
3500.01	633334	Mid	back	10 mm	NR Band n77 DoD	F	Open	0651M	100	DFT-S-OFDM	QPSK	135	0	16.5	16.35	0	-0.08	1:1	0.103	1.035	0.107	
3500.01	633334	Mid	front	10 mm	NR Band n77 DoD	F	Open	0651M	100	DFT-S-OFDM	QPSK	1	1	16.5	16.38	0	-0.01	1:1	0.113	1.028	0.116	
3500.01	633334	Mid	front	10 mm	NR Band n77 DoD	F	Open	0651M	100	DFT-S-OFDM	QPSK	135	0	16.5	16.35	0	-0.10	1:1	0.121	1.035	0.125	
3500.01	633334	Mid	top	10 mm	NR Band n77 DoD	F	Open	0651M	100	DFT-S-OFDM	QPSK	1	1	16.5	16.38	0	-0.04	1:1	0.154	1.028	0.158	
3500.01	633334	Mid	top	10 mm	NR Band n77 DoD	F	Open	0651M	100	DFT-S-OFDM	QPSK	135	0	16.5	16.35	0	-0.01	1:1	0.141	1.035	0.146	
3500.01	633334	Mid	left	10 mm	NR Band n77 DoD	F	Open	0651M	100	DFT-S-OFDM	QPSK	1	1	16.5	16.38	0	-0.03	1:1	0.286	1.028	0.294	
3500.01	633334	Mid	left	10 mm	NR Band n77 DoD	F	Open	0651M	100	DFT-S-OFDM	QPSK	135	0	16.5	16.35	0	0.03	1:1	0.282	1.035	0.292	
3500.01	633334	Mid	left	10 mm	NR Band n77 DoD	F	Open	0651M	100	CP-OFDM	QPSK	1	1	16.5	15.89	0	0.05	1:1	0.279	1.151	0.321	
3500.01	633334	Mid	back	5 mm	NR Band n77 DoD	F	Closed	0894M	100	DFT-S-OFDM	QPSK	1	1	16.5	16.38	0	0.00	1:1	0.039	1.028	0.040	
3500.01	633334	Mid	back	5 mm	NR Band n77 DoD	F	Closed	0894M	100	DFT-S-OFDM	QPSK	135	0	16.5	16.35	0	0.02	1:1	0.036	1.035	0.037	
3500.01	633334	Mid	front	5 mm	NR Band n77 DoD	F	Closed	0894M	100	DFT-S-OFDM	QPSK	1	1	16.5	16.38	0	0.01	1:1	0.149	1.028	0.153	
3500.01	633334	Mid	front	5 mm	NR Band n77 DoD	F	Closed	0894M	100	DFT-S-OFDM	QPSK	135	0	16.5	16.35	0	0.02	1:1	0.137	1.035	0.142	
3500.01	633334	Mid	bottom	5 mm	NR Band n77 DoD	F	Closed	0894M	100	DFT-S-OFDM	QPSK	1	1	16.5	16.38	0	0.02	1:1	0.116	1.028	0.119	
3500.01	633334	Mid	bottom	5 mm	NR Band n77 DoD	F	Closed	0894M	100	DFT-S-OFDM	QPSK	135	0	16.5	16.35	0	-0.05	1:1	0.111	1.035	0.115	
3500.01	633334	Mid	left	5 mm	NR Band n77 DoD	F	Closed	0894M	100	DFT-S-OFDM	QPSK	1	1	16.5	16.38	0	-0.04	1:1	0.227	1.028	0.233	
3500.01	633334	Mid	left	5 mm	NR Band n77 DoD	F	Closed	0894M	100	DFT-S-OFDM	QPSK	135	0	16.5	16.35	0	-0.01	1:1	0.249	1.035	0.258	
3500.01	633334	Mid	left	5 mm	NR Band n77 DoD	F	Closed	0894M	100	CP-OFDM	QPSK	1	1	16.5	15.89	0	0.02	1:1	0.234	1.151	0.269	
3500.01	633334	Mid	back	10 mm	NR Band n77 DoD	I	Open	0651M	100	CW/SRS	N/A	N/A	N/A	16.5	15.37	N/A	0.04	1:1	0.049	1.297	0.064	
3500.01	633334	Mid	front	10 mm	NR Band n77 DoD	I	Open	0651M	100	CW/SRS	N/A	N/A	N/A	16.5	15.37	N/A	-0.07	1:1	0.045	1.297	0.058	
3500.01	633334	Mid	top	10 mm	NR Band n77 DoD	I	Open	0651M	100	CW/SRS	N/A	N/A	N/A	16.5	15.37	N/A	0.18	1:1	0.010	1.297	0.013	
3500.01	633334	Mid	right	10 mm	NR Band n77 DoD	I	Open	0651M	100	CW/SRS	N/A	N/A	N/A	16.5	15.37	N/A	0.04	1:1	0.115	1.297	0.149	
3500.01	633334	Mid	back	5 mm	NR Band n77 DoD	I	Closed	0651M	100	CW/SRS	N/A	N/A	N/A	16.5	15.37	N/A	0.06	1:1	0.019	1.297	0.025	
3500.01	633334	Mid	front	5 mm	NR Band n77 DoD	I	Closed	0651M	100	CW/SRS	N/A	N/A	N/A	16.5	15.37	N/A	-0.03	1:1	0.200	1.297	0.259	
3500.01	633334	Mid	top	5 mm	NR Band n77 DoD	I	Closed	0651M	100	CW/SRS	N/A	N/A	N/A	16.5	15.37	N/A	0.06	1:1	0.023	1.297	0.030	
3500.01	633334	Mid	bottom	5 mm	NR Band n77 DoD	I	Closed	0651M	100	CW/SRS	N/A	N/A	N/A	16.5	15.37	N/A	0.04	1:1	0.021	1.297	0.027	
3500.01	633334	Mid	right	5 mm	NR Band n77 DoD	I	Closed	0651M	100	CW/SRS	N/A	N/A	N/A	16.5	15.37	N/A	-0.08	1:1	0.345	1.297	0.447	A89
3500.01	633334	Mid	back	10 mm	NR Band n77 DoD	E	Open	0651M	100	CW/SRS	N/A	N/A	N/A	16.5	15.53	N/A	0.04	1:1	0.051	1.250	0.064	
3500.01	633334	Mid	front	10 mm	NR Band n77 DoD	E	Open	0651M	100	CW/SRS	N/A	N/A	N/A	16.5	15.53	N/A	0.09	1:1	0.049	1.250	0.061	
3500.01	633334	Mid	top	10 mm	NR Band n77 DoD	E	Open	0651M	100	CW/SRS	N/A	N/A	N/A	16.5	15.53	N/A	0.02	1:1	0.006	1.250	0.008	
3500.01	633334	Mid	left	10 mm	NR Band n77 DoD	E	Open	0651M	100	CW/SRS	N/A	N/A	N/A	16.5	15.53	N/A	0.00	1:1	0.065	1.250	0.081	
3500.01	633334	Mid	back	5 mm	NR Band n77 DoD	E	Closed	0651M	100	CW/SRS	N/A	N/A	N/A	16.5	15.53	N/A	0.03	1:1	0.042	1.250	0.053	
3500.01	633334	Mid	front	5 mm	NR Band n77 DoD	E	Closed	0651M	100	CW/SRS	N/A	N/A	N/A	16.5	15.53	N/A	0.10	1:1	0.100	1.250	0.125	
3500.01	633334	Mid	top	5 mm	NR Band n77 DoD	E	Closed	0651M	100	CW/SRS	N/A	N/A	N/A	16.5	15.53	N/A	-0.01	1:1	0.011	1.250	0.014	
3500.01	633334	Mid	bottom	5 mm	NR Band n77 DoD	E	Closed	0651M	100	CW/SRS	N/A	N/A	N/A	16.5	15.53	N/A	-0.05	1:1	0.024	1.250	0.030	
3500.01	633334	Mid	left	5 mm	NR Band n77 DoD	E	Closed	0651M	100	CW/SRS	N/A	N/A	N/A	16.5	15.53	N/A	-0.02	1:1	0.214	1.250	0.268	
3500.01	633334	Mid	back	10 mm	NR Band n77 DoD	C	Open	0894M	100	CW/SRS	N/A	N/A	N/A	15.0	13.92	N/A	0.12	1:1	0.044	1.282	0.056	
3500.01	633334	Mid	front	10 mm	NR Band n77 DoD	C	Open	0894M	100	CW/SRS	N/A	N/A	N/A	15.0	13.92	N/A	0.18	1:1	0.020	1.282	0.026	
3500.01	633334	Mid	bottom	10 mm	NR Band n77 DoD	C	Open	0894M	100	CW/SRS	N/A	N/A	N/A	15.0	13.92	N/A	-0.05	1:1	0.015	1.282	0.019	
3500.01	633334	Mid	left	10 mm	NR Band n77 DoD	C	Open	0651M	100	CW/SRS	N/A	N/A	N/A	15.0	13.92	N/A	0.00	1:1	0.087	1.282	0.112	
3500.01	633334	Mid	back	5 mm	NR Band n77 DoD	C	Closed	0894M	100	CW/SRS	N/A	N/A	N/A	15.0	13.92	N/A	-0.07	1:1	0.089	1.282	0.114	
3500.01	633334	Mid	front	5 mm	NR Band n77 DoD	C	Closed	0894M	100	CW/SRS	N/A	N/A	N/A	15.0	13.92	N/A	0.20	1:1	0.011	1.282	0.014	
3500.01	633334	Mid	top	5 mm	NR Band n77 DoD	C	Closed	0894M	100	CW/SRS	N/A	N/A	N/A	15.0	13.92	N/A	0.20	1:1	0.008	1.282	0.010	
3500.01	633334	Mid	bottom	5 mm	NR Band n77 DoD	C	Closed	0894M	100	CW/SRS	N/A	N/A	N/A	15.0	13.92	N/A	-0.09	1:1	0.031	1.282	0.040	
3500.01	633334	Mid	left	5 mm	NR Band n77 DoD	C	Closed	0651M	100	CW/SRS	N/A	N/A	N/A	15.0	13.92	N/A	-0.04	1:1	0.233	1.282	0.299	
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 11-90
NR Band n77 Hotspot SAR

MEASUREMENT RESULTS																						
FREQUENCY		Side	Spacing	Mode	Antenna Config	Form Factor	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 (f/g) (W/kg)	Scaling Factor	Reported SAR (f/g) (W/kg)	Plot #	
MHz	Ch.																					
3750.00	650000	Low	back	10 mm	NR Band n77	F	Open	0651M	100	DFT-S-OFDM	QPSK	1	137	16.5	16.30	0	0.01	1:1	0.229	1.047	0.240	
3750.00	650000	Low	back	10 mm	NR Band n77	F	Open	0651M	100	DFT-S-OFDM	QPSK	135	69	16.5	16.24	0	-0.01	1:1	0.229	1.062	0.243	
3750.00	650000	Low	front	10 mm	NR Band n77	F	Open	0651M	100	DFT-S-OFDM	QPSK	1	137	16.5	16.30	0	-0.06	1:1	0.146	1.047	0.153	
3750.00	650000	Low	front	10 mm	NR Band n77	F	Open	0651M	100	DFT-S-OFDM	QPSK	135	69	16.5	16.24	0	0.00	1:1	0.145	1.062	0.154	
3750.00	650000	Low	top	10 mm	NR Band n77	F	Open	0651M	100	DFT-S-OFDM	QPSK	1	137	16.5	16.30	0	-0.15	1:1	0.053	1.047	0.055	
3750.00	650000	Low	top	10 mm	NR Band n77	F	Open	0651M	100	DFT-S-OFDM	QPSK	135	69	16.5	16.24	0	0.07	1:1	0.060	1.062	0.064	
3750.00	650000	Low	left	10 mm	NR Band n77	F	Open	0651M	100	DFT-S-OFDM	QPSK	1	137	16.5	16.30	0	-0.03	1:1	0.341	1.047	0.357	
3750.00	650000	Low	left	10 mm	NR Band n77	F	Open	0651M	100	DFT-S-OFDM	QPSK	135	69	16.5	16.24	0	-0.01	1:1	0.338	1.062	0.359	
3750.00	650000	Low	left	10 mm	NR Band n77	F	Open	0651M	100	CP-OFDM	QPSK	1	1	16.5	15.67	0	0.05	1:1	0.316	1.211	0.383	
3750.00	650000	Low	back	5 mm	NR Band n77	F	Closed	0651M	100	DFT-S-OFDM	QPSK	1	137	16.5	16.30	0	-0.02	1:1	0.056	1.047	0.059	
3750.00	650000	Low	back	5 mm	NR Band n77	F	Closed	0651M	100	DFT-S-OFDM	QPSK	135	69	16.5	16.24	0	0.11	1:1	0.058	1.062	0.062	
3750.00	650000	Low	front	5 mm	NR Band n77	F	Closed	0651M	100	DFT-S-OFDM	QPSK	1	137	16.5	16.30	0	-0.05	1:1	0.254	1.047	0.266	
3750.00	650000	Low	front	5 mm	NR Band n77	F	Closed	0651M	100	DFT-S-OFDM	QPSK	135	69	16.5	16.24	0	0.07	1:1	0.258	1.062	0.274	
3750.00	650000	Low	bottom	5 mm	NR Band n77	F	Closed	0651M	100	DFT-S-OFDM	QPSK	1	137	16.5	16.30	0	-0.09	1:1	0.105	1.047	0.110	
3750.00	650000	Low	bottom	5 mm	NR Band n77	F	Closed	0651M	100	DFT-S-OFDM	QPSK	135	69	16.5	16.24	0	-0.02	1:1	0.108	1.062	0.115	
3750.00	650000	Low	left	5 mm	NR Band n77	F	Closed	0651M	100	DFT-S-OFDM	QPSK	1	137	16.5	16.30	0	-0.16	1:1	0.616	1.047	0.645	
3930.00	662000	High	left	5 mm	NR Band n77	F	Closed	0651M	100	DFT-S-OFDM	QPSK	1	1	16.5	16.14	0	0.03	1:1	0.602	1.086	0.654	
3750.00	650000	Low	left	5 mm	NR Band n77	F	Closed	0651M	100	DFT-S-OFDM	QPSK	135	69	16.5	16.24	0	0.02	1:1	0.621	1.062	0.660	A60
3930.00	662000	High	left	5 mm	NR Band n77	F	Closed	0651M	100	DFT-S-OFDM	QPSK	135	0	16.5	15.97	0	0.02	1:1	0.576	1.130	0.651	
3750.00	650000	Low	left	5 mm	NR Band n77	F	Closed	0651M	100	DFT-S-OFDM	QPSK	270	0	16.5	16.09	0	-0.02	1:1	0.612	1.099	0.673	
3750.00	650000	Low	left	5 mm	NR Band n77	F	Closed	0651M	100	CP-OFDM	QPSK	1	1	16.5	15.67	0	0.03	1:1	0.603	1.211	0.730	
3930.00	662000	High	back	10 mm	NR Band n77	I	Open	0894M	100	CW/SRS	N/A	N/A	N/A	16.5	15.74	N/A	-0.18	1:1	0.025	1.191	0.030	
3930.00	662000	High	front	10 mm	NR Band n77	I	Open	0894M	100	CW/SRS	N/A	N/A	N/A	16.5	15.74	N/A	0.03	1:1	0.032	1.191	0.038	
3930.00	662000	High	top	10 mm	NR Band n77	I	Open	0894M	100	CW/SRS	N/A	N/A	N/A	16.5	15.74	N/A	0.04	1:1	0.001	1.191	0.001	
3930.00	662000	High	right	10 mm	NR Band n77	I	Open	0894M	100	CW/SRS	N/A	N/A	N/A	16.5	15.74	N/A	-0.15	1:1	0.063	1.191	0.075	
3930.00	662000	High	back	5 mm	NR Band n77	I	Closed	0894M	100	CW/SRS	N/A	N/A	N/A	16.5	15.74	N/A	0.01	1:1	0.007	1.191	0.008	
3930.00	662000	High	front	5 mm	NR Band n77	I	Closed	0894M	100	CW/SRS	N/A	N/A	N/A	16.5	15.74	N/A	0.06	1:1	0.094	1.191	0.112	
3930.00	662000	High	top	5 mm	NR Band n77	I	Closed	0894M	100	CW/SRS	N/A	N/A	N/A	16.5	15.74	N/A	0.07	1:1	0.008	1.191	0.010	
3930.00	662000	High	bottom	5 mm	NR Band n77	I	Closed	0894M	100	CW/SRS	N/A	N/A	N/A	16.5	15.74	N/A	0.01	1:1	0.002	1.191	0.002	
3930.00	662000	High	right	5 mm	NR Band n77	I	Closed	0894M	100	CW/SRS	N/A	N/A	N/A	16.5	15.74	N/A	0.02	1:1	0.146	1.191	0.174	
3750.00	650000	Low	back	10 mm	NR Band n77	E	Open	0894M	100	CW/SRS	N/A	N/A	N/A	16.5	15.92	N/A	-0.11	1:1	0.097	1.143	0.111	
3750.00	650000	Low	front	10 mm	NR Band n77	E	Open	0894M	100	CW/SRS	N/A	N/A	N/A	16.5	15.92	N/A	-0.05	1:1	0.072	1.143	0.082	
3750.00	650000	Low	top	10 mm	NR Band n77	E	Open	0894M	100	CW/SRS	N/A	N/A	N/A	16.5	15.92	N/A	0.07	1:1	0.009	1.143	0.010	
3750.00	650000	Low	left	10 mm	NR Band n77	E	Open	0894M	100	CW/SRS	N/A	N/A	N/A	16.5	15.92	N/A	-0.05	1:1	0.271	1.143	0.310	
3750.00	650000	Low	back	5 mm	NR Band n77	E	Closed	0651M	100	CW/SRS	N/A	N/A	N/A	16.5	15.92	N/A	0.05	1:1	0.024	1.143	0.027	
3750.00	650000	Low	front	5 mm	NR Band n77	E	Closed	0651M	100	CW/SRS	N/A	N/A	N/A	16.5	15.92	N/A	-0.14	1:1	0.157	1.143	0.179	
3750.00	650000	Low	top	5 mm	NR Band n77	E	Closed	0651M	100	CW/SRS	N/A	N/A	N/A	16.5	15.92	N/A	0.05	1:1	0.013	1.143	0.015	
3750.00	650000	Low	bottom	5 mm	NR Band n77	E	Closed	0651M	100	CW/SRS	N/A	N/A	N/A	16.5	15.92	N/A	-0.18	1:1	0.021	1.143	0.024	
3750.00	650000	Low	left	5 mm	NR Band n77	E	Closed	0651M	100	CW/SRS	N/A	N/A	N/A	16.5	15.92	N/A	-0.11	1:1	0.227	1.143	0.259	
3930.00	662000	High	back	10 mm	NR Band n77	C	Open	0894M	100	CW/SRS	N/A	N/A	N/A	15.0	14.12	N/A	0.08	1:1	0.006	1.225	0.007	
3930.00	662000	High	front	10 mm	NR Band n77	C	Open	0894M	100	CW/SRS	N/A	N/A	N/A	15.0	14.12	N/A	0.08	1:1	0.002	1.225	0.002	
3930.00	662000	High	bottom	10 mm	NR Band n77	C	Open	0894M	100	CW/SRS	N/A	N/A	N/A	15.0	14.12	N/A	0.20	1:1	0.000	1.225	0.000	
3930.00	662000	High	left	10 mm	NR Band n77	C	Open	0894M	100	CW/SRS	N/A	N/A	N/A	15.0	14.12	N/A	0.06	1:1	0.011	1.225	0.013	
3930.00	662000	High	back	5 mm	NR Band n77	C	Closed	0894M	100	CW/SRS	N/A	N/A	N/A	15.0	14.12	N/A	0.04	1:1	0.032	1.225	0.039	
3930.00	662000	High	front	5 mm	NR Band n77	C	Closed	0894M	100	CW/SRS	N/A	N/A	N/A	15.0	14.12	N/A	0.03	1:1	0.000	1.225	0.000	
3930.00	662000	High	top	5 mm	NR Band n77	C	Closed	0894M	100	CW/SRS	N/A	N/A	N/A	15.0	14.12	N/A	0.04	1:1	0.002	1.225	0.002	
3930.00	662000	High	bottom	5 mm	NR Band n77	C	Closed	0894M	100	CW/SRS	N/A	N/A	N/A	15.0	14.12	N/A	0.20	1:1	0.004	1.225	0.005	
3930.00	662000	High	left	5 mm	NR Band n77	C	Closed	0894M	100	CW/SRS	N/A	N/A	N/A	15.0	14.12	N/A	-0.02	1:1	0.061	1.225	0.075	
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 11-91
DTS SISO WLAN Hotspot SAR

MEASUREMENT RESULTS																				
FREQUENCY		Side	Spacing	Mode	Service	Antenna Config.	Form Factor	Device Serial Number	Bandwidth [MHz]	Data Rate (Mbps)	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Duty Cycle (%)	Peak SAR of Area Scan	SAR (1g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot #
MHz	Ch.														W/kg	(W/kg)			(W/kg)	
2437	6	back	10 mm	802.11b	DSSS	2	Open	1356M	22	1	19.0	18.87	-0.06	99.42	0.233	0.182	1.030	1.006	0.189	
2437	6	front	10 mm	802.11b	DSSS	2	Open	1356M	22	1	19.0	18.87	0.10	99.42	0.180	-	1.030	1.006	-	
2437	6	top	10 mm	802.11b	DSSS	2	Open	1356M	22	1	19.0	18.87	0.06	99.42	0.192	-	1.030	1.006	-	
2437	6	right	10 mm	802.11b	DSSS	2	Open	1356M	22	1	19.0	18.87	-0.07	99.42	0.080	0.050	1.030	1.006	0.052	
2437	6	back	5 mm	802.11b	DSSS	2	Closed	1356M	22	1	19.0	18.87	0.02	99.42	0.153	-	1.030	1.006	-	
2437	6	front	5 mm	802.11b	DSSS	2	Closed	1356M	22	1	19.0	18.87	-0.01	99.42	0.632	0.471	1.030	1.006	0.488	A91
2437	6	bottom	5 mm	802.11b	DSSS	2	Closed	1356M	22	1	19.0	18.87	0.01	99.42	0.365	0.376	1.030	1.006	0.390	
2437	6	right	5 mm	802.11b	DSSS	2	Closed	1356M	22	1	19.0	18.87	0.06	99.42	0.124	-	1.030	1.006	-	
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 11-92
DTS SISO WLAN Hotspot SAR for Conditions with 5 GHz WLAN SAR and/or with 5G NR

MEASUREMENT RESULTS																				
FREQUENCY		Side	Spacing	Mode	Service	Antenna Config.	Form Factor	Device Serial Number	Bandwidth [MHz]	Data Rate (Mbps)	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Duty Cycle (%)	Peak SAR of Area Scan	SAR (1g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot #
MHz	Ch.														W/kg	(W/kg)	(W/kg)			
2462	11	back	5 mm	802.11b	DSSS	2	Closed	0658M	22	1	13.0	12.95	0.01	99.42	0.034	-	1.012	1.006	-	
2462	11	front	5 mm	802.11b	DSSS	2	Closed	0658M	22	1	13.0	12.95	0.05	99.42	0.165	0.123	1.012	1.006	0.125	
2462	11	bottom	5 mm	802.11b	DSSS	2	Closed	0658M	22	1	13.0	12.95	0.01	99.42	0.091	-	1.012	1.006	-	
2462	11	right	5 mm	802.11b	DSSS	2	Closed	0658M	22	1	13.0	12.95	-0.05	99.42	0.032	0.027	1.012	1.006	0.027	
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 11-93
NII SISO WLAN Hotspot SAR

MEASUREMENT RESULTS																				
FREQUENCY		Side	Spacing	Mode	Service	Antenna Config.	Form Factor	Device Serial Number	Bandwidth [MHz]	Data Rate (Mbps)	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Duty Cycle (%)	Peak SAR of Area Scan	SAR (1g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot #
MHz	Ch.														W/kg	(W/kg)			(W/kg)	
5785	157	back	10 mm	802.11a	OFDM	1	Open	1309M	20	6	18.0	17.84	-0.01	96.68	0.110	0.070	1.038	1.034	0.075	
5785	157	front	10 mm	802.11a	OFDM	1	Open	1309M	20	6	18.0	17.84	0.02	96.68	0.053	-	1.038	1.034	-	
5785	157	top	10 mm	802.11a	OFDM	1	Open	1309M	20	6	18.0	17.84	0.01	96.68	0.055	-	1.038	1.034	-	
5785	157	left	10 mm	802.11a	OFDM	1	Open	1309M	20	6	18.0	17.84	0.07	96.68	0.130	0.090	1.038	1.034	0.097	
5785	157	back	5 mm	802.11a	OFDM	1	Closed	1309M	20	6	18.0	17.84	0.07	96.68	0.013	-	1.038	1.034	-	
5785	157	front	5 mm	802.11a	OFDM	1	Closed	1309M	20	6	18.0	17.84	0.07	96.68	0.346	0.279	1.038	1.034	0.299	
5785	157	bottom	5 mm	802.11a	OFDM	1	Closed	1309M	20	6	18.0	17.84	0.04	96.68	0.090	-	1.038	1.034	-	
5785	157	left	5 mm	802.11a	OFDM	1	Closed	1309M	20	6	18.0	17.84	-0.09	96.68	0.253	-	1.038	1.034	-	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population												Body 1.6 W/kg (mW/g) averaged over 1 gram								

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Table 11-94

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

MEASUREMENT RESULTS																				
FREQUENCY		Side	Spacing	Mode	Service	Antenna Config.	Form Factor	Device Serial Number	Bandwidth [MHz]	Data Rate (Mbps)	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Duty Cycle (%)	Peak SAR of Area Scan	SAR (1g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot #
MHz	Ch.														W/kg	(W/kg)			(W/kg)	
5775	155	back	5 mm	802.11ac	OFDM	1	Closed	1309M	80	29.3	11.0	10.68	0.20	95.99	0.006	-	1.076	1.042	-	
5775	155	front	5 mm	802.11ac	OFDM	1	Closed	1309M	80	29.3	11.0	10.68	0.02	95.99	0.064	0.034	1.076	1.042	0.038	
5775	155	bottom	5 mm	802.11ac	OFDM	1	Closed	1309M	80	29.3	11.0	10.68	0.08	95.99	0.024	-	1.076	1.042	-	
5775	155	left	5 mm	802.11ac	OFDM	1	Closed	1309M	80	29.3	11.0	10.68	0.07	95.99	0.058	-	1.076	1.042	-	
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 11-95
DTS Hotspot MIMO SAR

MEASUREMENT RESULTS																						
FREQUENCY		Side	Spacing	Mode	Service	Antenna Config.	Form Factor	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]	Duty Cycle (%)	Peak SAR of Area Scan	SAR (1g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot #
MHz	Ch.																W/kg	(W/kg)			(W/kg)	
2437	6	back	10 mm	802.11n	OFDM	MIMO	Open	1356M	20	13	18.0	17.99	18.0	17.98	-0.03	97.94	0.164	0.128	1.002	1.021	0.131	
2437	6	front	10 mm	802.11n	OFDM	MIMO	Open	1356M	20	13	18.0	17.99	18.0	17.98	-0.04	97.94	0.165	-	1.002	1.021	-	
2437	6	top	10 mm	802.11n	OFDM	MIMO	Open	1356M	20	13	18.0	17.99	18.0	17.98	-0.01	97.94	0.181	-	1.002	1.021	-	
2437	6	right	10 mm	802.11n	OFDM	MIMO	Open	1356M	20	13	18.0	17.99	18.0	17.98	-0.04	97.94	0.039	-	1.002	1.021	-	
2437	6	left	10 mm	802.11n	OFDM	MIMO	Open	1356M	20	13	18.0	17.99	18.0	17.98	-0.01	97.94	0.213	0.167	1.002	1.021	0.171	
2437	6	back	5 mm	802.11n	OFDM	MIMO	Closed	1356M	20	13	18.0	17.99	18.0	17.98	0.00	97.94	0.154	-	1.002	1.021	-	
2437	6	front	5 mm	802.11n	OFDM	MIMO	Closed	1356M	20	13	18.0	17.99	18.0	17.98	0.04	97.94	0.454	0.331	1.002	1.021	0.340	
2437	6	bottom	5 mm	802.11n	OFDM	MIMO	Closed	1356M	20	13	18.0	17.99	18.0	17.98	0.04	97.94	0.441	-	1.002	1.021	-	
2437	6	right	5 mm	802.11n	OFDM	MIMO	Closed	1356M	20	13	18.0	17.99	18.0	17.98	0.03	97.94	0.116	-	1.002	1.021	-	
2437	6	left	5 mm	802.11n	OFDM	MIMO	Closed	1356M	20	13	18.0	17.99	18.0	17.98	0.00	97.94	0.424	-	1.002	1.021	-	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population												Body 1.6 W/kg (mW/g) averaged over 1 gram										

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

Table 11-96
DTS Hotspot MIMO SAR during Conditions with 5 GHz WLAN and/or 5G NR

MEASUREMENT RESULTS																						
FREQUENCY		Side	Spacing	Mode	Service	Antenna Config.	Form Factor	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]	Duty Cycle (%)	Peak SAR of Area Scan	SAR (1g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot #
MHz	Ch.																W/kg	(W/kg)	(W/kg)	(W/kg)		
2412	1	back	5 mm	802.11n	OFDM	MIMO	Closed	1356M	20	13	13.0	12.79	13.0	12.70	0.06	97.94	0.049	-	1.050	1.021	-	
2412	1	front	5 mm	802.11n	OFDM	MIMO	Closed	1356M	20	13	13.0	12.79	13.0	12.70	0.01	97.94	0.119	-	1.050	1.021	-	
2412	1	bottom	5 mm	802.11n	OFDM	MIMO	Closed	1356M	20	13	13.0	12.79	13.0	12.70	0.02	97.94	0.140	0.104	1.050	1.021	0.114	
2412	1	right	5 mm	802.11n	OFDM	MIMO	Closed	1356M	20	13	13.0	12.79	13.0	12.70	0.06	97.94	0.023	-	1.050	1.021	-	
2412	1	left	5 mm	802.11n	OFDM	MIMO	Closed	1356M	20	13	13.0	12.79	13.0	12.70	0.02	97.94	0.100	-	1.050	1.021	-	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population												Body 1.6 W/kg (mW/g) averaged over 1 gram										

Note: 2.4 GHz MIMO was additionally evaluated at the maximum allowed output power during simultaneous operations with 5 GHz WLAN, or 5G NR. 5 GHz WLAN and/or 5G NR was not transmitting during the 2.4 GHz evaluations. 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 11-97
NII MIMO WLAN Hotspot SAR

MEASUREMENT RESULTS																							
FREQUENCY		Side	Spacing	Mode	Service	Antenna Config.	Form Factor	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]	Duty Cycle (%)	Peak SAR of Area Scan		SAR (1g) (W/kg)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g) (W/kg)	Plot #
MHz	Ch.																W/kg	(W/kg)					
5745	149	back	10 mm	802.11n	OFDM	MIMO	Open	1309M	20	13	18.0	17.98	18.0	17.97	0.09	98.11	0.191	-	1.005	1.019	-		
5745	149	front	10 mm	802.11n	OFDM	MIMO	Open	1309M	20	13	18.0	17.98	18.0	17.97	0.02	98.11	0.123	-	1.005	1.019	-		
5745	149	top	10 mm	802.11n	OFDM	MIMO	Open	1309M	20	13	18.0	17.98	18.0	17.97	0.01	98.11	0.160	-	1.005	1.019	-		
5745	149	right	10 mm	802.11n	OFDM	MIMO	Open	1309M	20	13	18.0	17.98	18.0	17.97	-0.05	98.11	0.134	-	1.005	1.019	-		
5745	149	left	10 mm	802.11n	OFDM	MIMO	Open	1309M	20	13	18.0	17.98	18.0	17.97	0.18	98.11	0.224	0.158	1.005	1.019	0.162		
5745	149	back	5 mm	802.11n	OFDM	MIMO	Closed	1309M	20	13	18.0	17.98	18.0	17.97	0.09	98.11	0.114	-	1.005	1.019	-		
5745	149	front	5 mm	802.11n	OFDM	MIMO	Closed	1309M	20	13	18.0	17.98	18.0	17.97	-0.05	98.11	0.497	0.427	1.005	1.019	0.438	A92	
5745	149	bottom	5 mm	802.11n	OFDM	MIMO	Closed	1309M	20	13	18.0	17.98	18.0	17.97	-0.03	98.11	0.213	0.154	1.005	1.019	0.158		
5745	149	right	5 mm	802.11n	OFDM	MIMO	Closed	1309M	20	13	18.0	17.98	18.0	17.97	0.03	98.11	0.172	-	1.005	1.019	-		
5745	149	left	5 mm	802.11n	OFDM	MIMO	Closed	1309M	20	13	18.0	17.98	18.0	17.97	0.06	98.11	0.433	0.224	1.005	1.019	0.230		
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population												Body 1.6 W/kg (mW/g) averaged over 1 gram											

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

Table 11-98
NII MIMO WLAN Hotspot SAR during Conditions with 2.4 GHz WLAN and/or 5G NR

MEASUREMENT RESULTS																						
FREQUENCY		Side	Spacing	Mode	Service	Antenna Config.	Form Factor	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]	Duty Cycle (%)	Peak SAR of Area Scan	SAR (1g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot #
MHz	Ch.																W/kg	(W/kg)		(W/kg)		
5775	155	back	10 mm	802.11ac	OFDM	MIMO	Open	1309M	80	58.5	11.0	10.68	11.0	10.79	0.20	92.36	0.016	0.011	1.076	1.083	0.013	
5775	155	front	10 mm	802.11ac	OFDM	MIMO	Open	1309M	80	58.5	11.0	10.68	11.0	10.79	0.04	92.36	0.013	-	1.076	1.083	-	
5775	155	top	10 mm	802.11ac	OFDM	MIMO	Open	1309M	80	58.5	11.0	10.68	11.0	10.79	0.13	92.36	0.013	-	1.076	1.083	-	
5775	155	right	10 mm	802.11ac	OFDM	MIMO	Open	1309M	80	58.5	11.0	10.68	11.0	10.79	0.08	92.36	0.012	-	1.076	1.083	-	
5775	155	left	10 mm	802.11ac	OFDM	MIMO	Open	1309M	80	58.5	11.0	10.68	11.0	10.79	0.20	92.36	0.012	-	1.076	1.083	-	
5775	155	back	5 mm	802.11ac	OFDM	MIMO	Closed	0903M	80	58.5	11.0	10.68	11.0	10.79	0.10	92.36	0.025	-	1.076	1.083	-	
5775	155	front	5 mm	802.11ac	OFDM	MIMO	Closed	0903M	80	58.5	11.0	10.68	11.0	10.79	0.00	92.36	0.076	-	1.076	1.083	-	
5775	155	bottom	5 mm	802.11ac	OFDM	MIMO	Closed	0903M	80	58.5	11.0	10.68	11.0	10.79	0.02	92.36	0.086	-	1.076	1.083	-	
5775	155	right	5 mm	802.11ac	OFDM	MIMO	Closed	0903M	80	58.5	11.0	10.68	11.0	10.79	0.01	92.36	0.041	-	1.076	1.083	-	
5775	155	left	5 mm	802.11ac	OFDM	MIMO	Closed	0903M	80	58.5	11.0	10.68	11.0	10.79	0.05	92.36	0.120	0.072	1.076	1.083	0.084	
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: 5 GHz MIMO was additionally evaluated at the maximum allowed output power during simultaneous operations with 2.4 GHz WLAN, or 5G NR. 2.4 GHz WLAN or 5G NR was not transmitting during 5 GHz WLAN evaluations. 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 11-99
DSS Hotspot SAR**

MEASUREMENT RESULTS																		
FREQUENCY		Side	Spacing	Mode	Service	Antenna Config.	Form Factor	Device Serial Number	Data Rate (Mbps)	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	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	10 mm	Bluetooth	FHSS	1	Open	0664M	1	17.5	17.43	-0.06	76.80	0.031	1.016	1.302	0.041	
2441	39	front	10 mm	Bluetooth	FHSS	1	Open	0664M	1	17.5	17.43	0.00	76.80	0.029	1.016	1.302	0.038	
2441	39	top	10 mm	Bluetooth	FHSS	1	Open	0664M	1	17.5	17.43	0.00	76.80	0.034	1.016	1.302	0.045	
2441	39	left	10 mm	Bluetooth	FHSS	1	Open	0664M	1	17.5	17.43	0.06	76.80	0.065	1.016	1.302	0.086	
2441	39	back	5 mm	Bluetooth	FHSS	1	Closed	0664M	1	17.5	17.43	0.03	76.80	0.042	1.016	1.302	0.056	
2441	39	front	5 mm	Bluetooth	FHSS	1	Closed	0664M	1	17.5	17.43	0.12	76.80	0.052	1.016	1.302	0.069	
2441	39	bottom	5 mm	Bluetooth	FHSS	1	Closed	0664M	1	17.5	17.43	0.02	76.80	0.108	1.016	1.302	0.143	
2441	39	left	5 mm	Bluetooth	FHSS	1	Closed	0664M	1	17.5	17.43	-0.03	76.80	0.134	1.016	1.302	0.177	
2402	0	back	10 mm	Bluetooth	FHSS	2	Open	0664M	1	17.5	15.93	-0.09	76.80	0.049	1.435	1.302	0.092	
2402	0	front	10 mm	Bluetooth	FHSS	2	Open	0664M	1	17.5	15.93	0.10	76.80	0.041	1.435	1.302	0.077	
2402	0	top	10 mm	Bluetooth	FHSS	2	Open	0664M	1	17.5	15.93	-0.09	76.80	0.050	1.435	1.302	0.093	
2402	0	right	10 mm	Bluetooth	FHSS	2	Open	0664M	1	17.5	15.93	-0.06	76.80	0.017	1.435	1.302	0.032	
2402	0	back	5 mm	Bluetooth	FHSS	2	Closed	0664M	1	17.5	15.93	-0.02	76.80	0.035	1.435	1.302	0.065	
2402	0	front	5 mm	Bluetooth	FHSS	2	Closed	0664M	1	17.5	15.93	-0.01	76.80	0.167	1.435	1.302	0.312	A93
2402	0	bottom	5 mm	Bluetooth	FHSS	2	Closed	0664M	1	17.5	15.93	0.00	76.80	0.096	1.435	1.302	0.179	
2402	0	right	5 mm	Bluetooth	FHSS	2	Closed	0664M	1	17.5	15.93	-0.02	76.80	0.030	1.435	1.302	0.056	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population										Body 1.6 W/kg (mW/g) averaged over 1 gram								

11.4 Standalone Phablet SAR Data

**Table 11-100
GPRS 1900 Phablet 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 (10g)	Scaling Factor	Reported SAR (10g) (W/kg)	Plot #
MHz	Ch.												(W/kg)			
1909.80	810	back	8 mm	GSM 1900	GPRS	A	0932M	3	27.5	26.98	-0.05	1:2.76	0.581	1.127	0.655	
1909.80	810	front	6 mm	GSM 1900	GPRS	A	0932M	3	27.5	26.98	0.04	1:2.76	0.615	1.127	0.693	
1909.80	810	bottom	12 mm	GSM 1900	GPRS	A	0932M	3	27.5	26.98	-0.03	1:2.76	0.634	1.127	0.715	
1909.80	810	right	0 mm	GSM 1900	GPRS	A	0932M	3	27.5	26.98	0.02	1:2.76	0.149	1.127	0.168	
1909.80	810	left	0 mm	GSM 1900	GPRS	A	0932M	3	27.5	26.98	0.00	1:2.76	0.406	1.127	0.458	
1909.80	810	back	0 mm	GSM 1900	GPRS	A	0932M	4	23.0	22.92	0.01	1:2.076	1.410	1.019	1.437	A94
1909.80	810	front	0 mm	GSM 1900	GPRS	A	0932M	4	23.0	22.92	0.00	1:2.076	0.936	1.019	0.954	
1909.80	810	bottom	0 mm	GSM 1900	GPRS	A	0932M	4	23.0	22.92	-0.03	1:2.076	0.385	1.019	0.392	
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 11-101
UMTS Phablet 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 (10g)	Scaling Factor	Reported SAR (10g)	Plot #
MHz	Ch.											(W/kg)		(W/kg)	
1712.40	1312	back	8 mm	UMTS 1750	RMC	A	0888M	25.0	24.33	0.03	1:1	1.130	1.167	1.319	
1712.40	1312	front	6 mm	UMTS 1750	RMC	A	0888M	25.0	24.33	0.03	1:1	1.130	1.167	1.319	
1712.40	1312	bottom	12 mm	UMTS 1750	RMC	A	0888M	25.0	24.33	-0.01	1:1	0.911	1.167	1.063	
1712.40	1312	right	0 mm	UMTS 1750	RMC	A	0888M	25.0	24.33	0.20	1:1	0.303	1.167	0.354	
1712.40	1312	left	0 mm	UMTS 1750	RMC	A	0888M	25.0	24.33	0.00	1:1	0.584	1.167	0.682	
1712.40	1312	back	0 mm	UMTS 1750	RMC	A	0888M	22.0	21.33	0.03	1:1	2.070	1.167	2.416	
1732.40	1412	back	0 mm	UMTS 1750	RMC	A	0888M	22.0	21.03	0.01	1:1	2.050	1.250	2.563	
1752.60	1513	back	0 mm	UMTS 1750	RMC	A	0888M	22.0	21.17	0.00	1:1	2.170	1.211	2.628	A95
1712.40	1312	front	0 mm	UMTS 1750	RMC	A	0888M	22.0	21.33	0.01	1:1	1.890	1.167	2.206	
1732.40	1412	front	0 mm	UMTS 1750	RMC	A	0888M	22.0	21.03	0.00	1:1	1.520	1.250	1.900	
1752.60	1513	front	0 mm	UMTS 1750	RMC	A	0888M	22.0	21.17	0.01	1:1	1.600	1.211	1.938	
1712.40	1312	bottom	0 mm	UMTS 1750	RMC	A	0888M	22.0	21.33	0.02	1:1	1.350	1.167	1.575	
1752.60	1513	back	0 mm	UMTS 1750	RMC	A	0888M	22.0	21.17	0.00	1:1	2.090	1.211	2.531	
1907.60	9538	back	8 mm	UMTS 1900	RMC	A	0888M	25.0	23.92	0.00	1:1	1.130	1.282	1.449	
1907.60	9538	front	6 mm	UMTS 1900	RMC	A	0888M	25.0	23.92	0.02	1:1	1.180	1.282	1.513	
1907.60	9538	bottom	12 mm	UMTS 1900	RMC	A	0888M	25.0	23.92	0.04	1:1	1.160	1.282	1.487	
1907.60	9538	right	0 mm	UMTS 1900	RMC	A	0888M	25.0	23.92	0.01	1:1	0.279	1.282	0.358	
1907.60	9538	left	0 mm	UMTS 1900	RMC	A	0888M	25.0	23.92	0.02	1:1	0.792	1.282	1.015	
1852.40	9262	back	0 mm	UMTS 1900	RMC	A	0414M	22.0	20.32	0.04	1:1	1.830	1.472	2.694	
1880.00	9400	back	0 mm	UMTS 1900	RMC	A	0414M	22.0	20.32	0.01	1:1	1.750	1.472	2.576	
1907.60	9538	back	0 mm	UMTS 1900	RMC	A	0414M	22.0	20.35	0.03	1:1	1.710	1.462	2.500	
1907.60	9538	front	0 mm	UMTS 1900	RMC	A	0414M	22.0	20.35	0.01	1:1	1.320	1.462	1.930	
1852.40	9262	bottom	0 mm	UMTS 1900	RMC	A	0414M	22.0	20.32	0.05	1:1	2.030	1.472	2.988	A96
1880.00	9400	bottom	0 mm	UMTS 1900	RMC	A	0414M	22.0	20.32	0.04	1:1	1.880	1.472	2.767	
1907.60	9538	bottom	0 mm	UMTS 1900	RMC	A	0414M	22.0	20.35	0.04	1:1	1.730	1.462	2.529	
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 11-102
LTE Band 66 (AWS) Phablet SAR

MEASUREMENT RESULTS																						
# CC Uplink	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	N/A	1770.00	132572	High	back	8 mm	LTE Band 66 (AWS)	A	0424M	20	QPSK	1	99	24.5	24.02	0	-0.01	1:1	0.790	1.117	0.882	
1 CC Uplink	N/A	1770.00	132572	High	back	8 mm	LTE Band 66 (AWS)	A	0424M	20	QPSK	50	50	22.5	21.93	2	0.02	1:1	0.484	1.140	0.552	
1 CC Uplink	N/A	1770.00	132572	High	front	6 mm	LTE Band 66 (AWS)	A	0424M	20	QPSK	1	99	24.5	24.02	0	0.04	1:1	0.984	1.117	1.099	
1 CC Uplink	N/A	1770.00	132572	High	front	6 mm	LTE Band 66 (AWS)	A	0424M	20	QPSK	50	50	22.5	21.93	2	0.00	1:1	0.601	1.140	0.685	
1 CC Uplink	N/A	1770.00	132572	High	bottom	12 mm	LTE Band 66 (AWS)	A	0424M	20	QPSK	1	99	24.5	24.02	0	-0.03	1:1	0.730	1.117	0.815	
1 CC Uplink	N/A	1770.00	132572	High	bottom	12 mm	LTE Band 66 (AWS)	A	0424M	20	QPSK	50	50	22.5	21.93	2	0.01	1:1	0.419	1.140	0.478	
1 CC Uplink	N/A	1770.00	132572	High	right	0 mm	LTE Band 66 (AWS)	A	0424M	20	QPSK	1	99	24.5	24.02	0	-0.02	1:1	0.230	1.117	0.257	
1 CC Uplink	N/A	1770.00	132572	High	right	0 mm	LTE Band 66 (AWS)	A	0424M	20	QPSK	50	50	22.5	21.93	2	-0.03	1:1	0.131	1.140	0.149	
1 CC Uplink	N/A	1770.00	132572	High	left	0 mm	LTE Band 66 (AWS)	A	0424M	20	QPSK	1	99	24.5	24.02	0	-0.02	1:1	0.503	1.117	0.562	
1 CC Uplink	N/A	1770.00	132572	High	left	0 mm	LTE Band 66 (AWS)	A	0424M	20	QPSK	50	50	22.5	21.93	2	0.03	1:1	0.285	1.140	0.325	
1 CC Uplink	N/A	1720.00	132072	Low	back	0 mm	LTE Band 66 (AWS)	A	0935M	20	QPSK	1	50	21.5	21.14	0	0.00	1:1	1.790	1.086	1.944	
1 CC Uplink	N/A	1745.00	132322	Mid	back	0 mm	LTE Band 66 (AWS)	A	0935M	20	QPSK	1	50	21.5	21.15	0	-0.03	1:1	1.850	1.084	2.005	
1 CC Uplink	N/A	1770.00	132572	High	back	0 mm	LTE Band 66 (AWS)	A	0935M	20	QPSK	1	0	21.5	21.13	0	-0.01	1:1	2.110	1.089	2.298	A97
1 CC Uplink	N/A	1770.00	132572	High	back	0 mm	LTE Band 66 (AWS)	A	0935M	20	QPSK	1	50	21.5	21.14	0	0.01	1:1	2.040	1.086	2.215	
1 CC Uplink	N/A	1720.00	132072	Low	back	0 mm	LTE Band 66 (AWS)	A	0935M	20	QPSK	50	25	21.5	21.23	0	-0.03	1:1	1.760	1.064	1.873	
1 CC Uplink	N/A	1745.00	132322	Mid	back	0 mm	LTE Band 66 (AWS)	A	0935M	20	QPSK	50	25	21.5	21.30	0	-0.01	1:1	1.920	1.047	2.010	
1 CC Uplink	N/A	1770.00	132572	High	back	0 mm	LTE Band 66 (AWS)	A	0935M	20	QPSK	50	25	21.5	21.25	0	-0.01	1:1	2.030	1.059	2.150	
1 CC Uplink	N/A	1770.00	132572	High	back	0 mm	LTE Band 66 (AWS)	A	0935M	20	QPSK	100	0	21.5	21.14	0	0.00	1:1	2.000	1.086	2.172	
1 CC Uplink	N/A	1775.00	132622	High	back	0 mm	LTE Band 66 (AWS)	A	0935M	10	QPSK	1	0	21.5	20.73	0	-0.02	1:1	1.910	1.194	2.281	
2 CC Uplink CA_66C	PCC	1770.00	132572	High	back	0 mm	LTE Band 66 (AWS)	A	0935M	20	QPSK	1	0	21.5	21.05	0	-0.16	1:1	2.010	1.109	2.229	
	SCC	1750.20	132374										99									
2 CC Uplink CA_66B	PCC	1775.00	132622	High	back	0 mm	LTE Band 66 (AWS)	A	0935M	10	QPSK	1	0	21.5	21.04	0	0.01	1:1	2.020	1.112	2.246	
	SCC	1765.10	132523										49									
1 CC Uplink	N/A	1745.00	132322	Mid	front	0 mm	LTE Band 66 (AWS)	A	0935M	20	QPSK	1	50	21.5	21.15	0	0.01	1:1	1.610	1.084	1.745	
1 CC Uplink	N/A	1745.00	132322	Mid	front	0 mm	LTE Band 66 (AWS)	A	0935M	20	QPSK	50	25	21.5	21.30	0	0.01	1:1	1.600	1.047	1.675	
1 CC Uplink	N/A	1745.00	132322	Mid	bottom	0 mm	LTE Band 66 (AWS)	A	0935M	20	QPSK	1	50	21.5	21.15	0	0.04	1:1	1.260	1.084	1.366	
1 CC Uplink	N/A	1745.00	132322	Mid	bottom	0 mm	LTE Band 66 (AWS)	A	0935M	20	QPSK	50	25	21.5	21.30	0	-0.01	1:1	1.100	1.047	1.152	
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 11-103
LTE Band 25 (PCS) 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)	
1860.00	26140	Low	back	8 mm	LTE Band 25 (PCS)	A	0414M	20	QPSK	1	50	24.5	24.20	0	0.01	1:1	0.905	1.072	0.970	
1860.00	26140	Low	back	8 mm	LTE Band 25 (PCS)	A	0414M	20	QPSK	50	25	22.5	22.12	2	-0.16	1:1	0.571	1.091	0.623	
1860.00	26140	Low	front	6 mm	LTE Band 25 (PCS)	A	0414M	20	QPSK	1	50	24.5	24.20	0	-0.04	1:1	1.030	1.072	1.104	
1860.00	26140	Low	front	6 mm	LTE Band 25 (PCS)	A	0414M	20	QPSK	50	25	22.5	22.12	2	0.02	1:1	0.646	1.091	0.705	
1860.00	26140	Low	bottom	12 mm	LTE Band 25 (PCS)	A	0414M	20	QPSK	1	50	24.5	24.20	0	0.01	1:1	0.879	1.072	0.942	
1860.00	26140	Low	bottom	12 mm	LTE Band 25 (PCS)	A	0414M	20	QPSK	50	25	22.5	22.12	2	0.03	1:1	0.543	1.091	0.592	
1860.00	26140	Low	right	0 mm	LTE Band 25 (PCS)	A	0414M	20	QPSK	1	50	24.5	24.20	0	-0.06	1:1	0.258	1.072	0.277	
1860.00	26140	Low	right	0 mm	LTE Band 25 (PCS)	A	0414M	20	QPSK	50	25	22.5	22.12	2	-0.12	1:1	0.161	1.091	0.176	
1860.00	26140	Low	left	0 mm	LTE Band 25 (PCS)	A	0414M	20	QPSK	1	50	24.5	24.20	0	-0.01	1:1	0.547	1.072	0.586	
1860.00	26140	Low	left	0 mm	LTE Band 25 (PCS)	A	0414M	20	QPSK	50	25	22.5	22.12	2	-0.01	1:1	0.338	1.091	0.369	
1860.00	26140	Low	back	0 mm	LTE Band 25 (PCS)	A	0926M	20	QPSK	1	99	22.0	21.84	0	0.06	1:1	2.200	1.038	2.284	
1882.50	26365	Mid	back	0 mm	LTE Band 25 (PCS)	A	0926M	20	QPSK	1	0	22.0	21.88	0	0.01	1:1	2.190	1.028	2.251	
1905.00	26590	High	back	0 mm	LTE Band 25 (PCS)	A	0926M	20	QPSK	1	99	22.0	21.95	0	0.07	1:1	2.420	1.012	2.449	A98
1860.00	26140	Low	back	0 mm	LTE Band 25 (PCS)	A	0926M	20	QPSK	50	50	22.0	21.63	0	0.02	1:1	2.230	1.089	2.428	
1882.50	26365	Mid	back	0 mm	LTE Band 25 (PCS)	A	0926M	20	QPSK	50	25	22.0	21.76	0	0.03	1:1	2.220	1.057	2.347	
1905.00	26590	High	back	0 mm	LTE Band 25 (PCS)	A	0926M	20	QPSK	50	25	22.0	21.83	0	0.08	1:1	2.390	1.040	2.486	
1905.00	26590	High	back	0 mm	LTE Band 25 (PCS)	A	0926M	20	QPSK	100	0	22.0	21.76	0	-0.01	1:1	2.310	1.057	2.442	
1860.00	26140	Low	front	0 mm	LTE Band 25 (PCS)	A	0926M	20	QPSK	1	99	22.0	21.84	0	-0.01	1:1	1.790	1.038	1.858	
1882.50	26365	Mid	front	0 mm	LTE Band 25 (PCS)	A	0926M	20	QPSK	1	0	22.0	21.88	0	0.07	1:1	1.840	1.028	1.892	
1905.00	26590	High	front	0 mm	LTE Band 25 (PCS)	A	0926M	20	QPSK	1	99	22.0	21.95	0	0.09	1:1	1.980	1.012	2.004	
1860.00	26140	Low	front	0 mm	LTE Band 25 (PCS)	A	0926M	20	QPSK	50	50	22.0	21.63	0	-0.02	1:1	1.790	1.089	1.949	
1882.50	26365	Mid	front	0 mm	LTE Band 25 (PCS)	A	0926M	20	QPSK	50	25	22.0	21.76	0	-0.03	1:1	1.900	1.057	2.008	
1905.00	26590	High	front	0 mm	LTE Band 25 (PCS)	A	0926M	20	QPSK	50	25	22.0	21.83	0	0.02	1:1	1.970	1.040	2.049	
1905.00	26590	High	front	0 mm	LTE Band 25 (PCS)	A	0926M	20	QPSK	100	0	22.0	21.76	0	0.01	1:1	1.970	1.057	2.082	
1860.00	26140	Low	bottom	0 mm	LTE Band 25 (PCS)	A	0926M	20	QPSK	1	99	22.0	21.84	0	0.03	1:1	1.920	1.038	1.993	
1882.50	26365	Mid	bottom	0 mm	LTE Band 25 (PCS)	A	0926M	20	QPSK	1	0	22.0	21.88	0	-0.01	1:1	2.020	1.028	2.077	
1905.00	26590	High	bottom	0 mm	LTE Band 25 (PCS)	A	0926M	20	QPSK	1	99	22.0	21.95	0	0.04	1:1	1.990	1.012	2.014	
1860.00	26140	Low	bottom	0 mm	LTE Band 25 (PCS)	A	0926M	20	QPSK	50	50	22.0	21.63	0	0.02	1:1	1.940	1.089	2.113	
1882.50	26365	Mid	bottom	0 mm	LTE Band 25 (PCS)	A	0926M	20	QPSK	50	25	22.0	21.76	0	0.01	1:1	2.010	1.057	2.125	
1905.00	26590	High	bottom	0 mm	LTE Band 25 (PCS)	A	0926M	20	QPSK	50	25	22.0	21.83	0	0.01	1:1	2.000	1.040	2.080	
1905.00	26590	High	bottom	0 mm	LTE Band 25 (PCS)	A	0926M	20	QPSK	100	0	22.0	21.76	0	-0.04	1:1	1.970	1.057	2.082	
1905.00	26590	High	back	0 mm	LTE Band 25 (PCS)	A	0926M	20	QPSK	1	99	22.0	21.95	0	0.08	1:1	2.390	1.012	2.419	
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 11-104
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	B	0646M	10	QPSK	1	49	23.0	22.03	0	0.01	1:1	0.417	1.250	0.521	
2310.00	27710	Mid	back	8 mm	LTE Band 30	B	0646M	10	QPSK	25	0	21.0	20.33	2	0.03	1:1	0.260	1.167	0.303	
2310.00	27710	Mid	front	6 mm	LTE Band 30	B	0646M	10	QPSK	1	49	23.0	22.03	0	-0.02	1:1	0.377	1.250	0.471	
2310.00	27710	Mid	front	6 mm	LTE Band 30	B	0646M	10	QPSK	25	0	21.0	20.33	2	0.03	1:1	0.243	1.167	0.284	
2310.00	27710	Mid	bottom	12 mm	LTE Band 30	B	0646M	10	QPSK	1	49	23.0	22.03	0	0.00	1:1	0.526	1.250	0.658	
2310.00	27710	Mid	bottom	12 mm	LTE Band 30	B	0646M	10	QPSK	25	0	21.0	20.33	2	0.00	1:1	0.326	1.167	0.380	
2310.00	27710	Mid	left	0 mm	LTE Band 30	B	0646M	10	QPSK	1	49	23.0	22.03	0	0.05	1:1	0.683	1.250	0.854	
2310.00	27710	Mid	left	0 mm	LTE Band 30	B	0646M	10	QPSK	25	0	21.0	20.33	2	0.05	1:1	0.427	1.167	0.498	
2310.00	27710	Mid	back	0 mm	LTE Band 30	B	0646M	10	QPSK	1	49	22.0	21.14	0	0.03	1:1	1.270	1.219	1.548	A99
2310.00	27710	Mid	back	0 mm	LTE Band 30	B	0646M	10	QPSK	25	12	21.0	20.33	1	-0.01	1:1	1.060	1.167	1.237	
2310.00	27710	Mid	front	0 mm	LTE Band 30	B	0646M	10	QPSK	1	49	22.0	21.14	0	0.06	1:1	0.962	1.219	1.173	
2310.00	27710	Mid	front	0 mm	LTE Band 30	B	0646M	10	QPSK	25	12	21.0	20.33	1	0.00	1:1	0.779	1.167	0.909	
2310.00	27710	Mid	bottom	0 mm	LTE Band 30	B	0646M	10	QPSK	1	49	22.0	21.14	0	0.01	1:1	1.060	1.219	1.292	
2310.00	27710	Mid	bottom	0 mm	LTE Band 30	B	0646M	10	QPSK	25	12	21.0	20.33	1	0.06	1:1	0.866	1.167	1.011	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population									Phablet 4.0 W/kg (mW/g) averaged over 10 grams											

Table 11-105
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)		
2510.00	20850	Low	back	8 mm	LTE Band 7	B	0414M	20	QPSK	1	0	24.5	23.60	0	-0.01	1:1	0.255	1.230	0.314	
2510.00	20850	Low	back	8 mm	LTE Band 7	B	0414M	20	QPSK	50	0	22.5	21.70	2	-0.01	1:1	0.158	1.202	0.190	
2510.00	20850	Low	front	6 mm	LTE Band 7	B	0414M	20	QPSK	1	0	24.5	23.60	0	0.07	1:1	0.384	1.230	0.472	
2510.00	20850	Low	front	6 mm	LTE Band 7	B	0414M	20	QPSK	50	0	22.5	21.70	2	0.06	1:1	0.242	1.202	0.291	
2510.00	20850	Low	bottom	12 mm	LTE Band 7	B	0414M	20	QPSK	1	0	24.5	23.60	0	0.08	1:1	0.378	1.230	0.465	
2510.00	20850	Low	bottom	12 mm	LTE Band 7	B	0414M	20	QPSK	50	0	22.5	21.70	2	0.01	1:1	0.238	1.202	0.286	
2510.00	20850	Low	left	0 mm	LTE Band 7	B	0414M	20	QPSK	1	0	24.5	23.60	0	0.02	1:1	1.210	1.230	1.488	A100
2510.00	20850	Low	left	0 mm	LTE Band 7	B	0414M	20	QPSK	50	0	22.5	21.70	2	0.01	1:1	0.753	1.202	0.905	
2560.00	21350	High	back	0 mm	LTE Band 7	B	0414M	20	QPSK	1	99	21.5	21.31	0	-0.01	1:1	0.500	1.045	0.523	
2560.00	21350	High	back	0 mm	LTE Band 7	B	0414M	20	QPSK	50	50	21.5	21.17	0	0.02	1:1	0.488	1.079	0.527	
2560.00	21350	High	front	0 mm	LTE Band 7	B	0414M	20	QPSK	1	99	21.5	21.31	0	-0.02	1:1	0.396	1.045	0.414	
2560.00	21350	High	front	0 mm	LTE Band 7	B	0414M	20	QPSK	50	50	21.5	21.17	0	0.05	1:1	0.370	1.079	0.399	
2560.00	21350	High	bottom	0 mm	LTE Band 7	B	0414M	20	QPSK	1	99	21.5	21.31	0	-0.17	1:1	1.200	1.045	1.254	
2560.00	21350	High	bottom	0 mm	LTE Band 7	B	0414M	20	QPSK	50	50	21.5	21.17	0	0.05	1:1	1.130	1.079	1.219	
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 11-106
LTE Band 48 Phablet SAR

MEASUREMENT RESULTS																						
# CC Uplink	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 Dnrt [dB]	Duty Cycle	SAR (10g)	Scaling Factor	Reported SAR (10g)	Plot #
		MHz		Ch.															(W/kg)		(W/kg)	
1 CC Uplink	N/A	3560.00	55340	Low	left	0 mm	LTE Band 48	F	0424M	20	QPSK	1	0	21.5	20.60	0	0.08	1:1.58	1.100	1.230	1.353	
1 CC Uplink	N/A	3560.00	55340	Low	left	0 mm	LTE Band 48	F	0424M	20	QPSK	50	25	21.5	20.44	0	-0.11	1:1.58	1.180	1.276	1.506	
1 CC Uplink	N/A	3603.30	55773	Low-Mid	left	0 mm	LTE Band 48	F	0424M	20	QPSK	50	0	21.5	20.11	0	0.01	1:1.58	1.270	1.377	1.749	
1 CC Uplink	N/A	3646.70	56207	Mid-High	left	0 mm	LTE Band 48	F	0424M	20	QPSK	50	0	21.5	20.10	0	-0.19	1:1.58	1.490	1.380	2.056	
1 CC Uplink	N/A	3690.00	56640	High	left	0 mm	LTE Band 48	F	0424M	20	QPSK	50	0	21.5	20.36	0	0.04	1:1.58	1.780	1.300	2.314	
1 CC Uplink	N/A	3690.00	56640	High	left	0 mm	LTE Band 48	F	0424M	20	QPSK	50	25	21.5	20.43	0	0.03	1:1.58	1.830	1.279	2.341	A101
1 CC Uplink	N/A	3690.00	56640	High	left	0 mm	LTE Band 48	F	0424M	20	QPSK	100	0	21.5	20.42	0	0.16	1:1.58	1.740	1.282	2.231	
2 CC Uplink	PCC	3690.00	56640	High	left	0 mm	LTE Band 48	F	0424M	20	QPSK	50	0	21.5	20.53	0	-0.02	1:1.58	1.770	1.250	2.213	
	SCC	3670.20	56442									50										
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population												Phablet 4.0 W/kg (mW/g) averaged over 10 grams										

Table 11-107
NR Band n66 Antenna A 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)		
1745.00	349000	Mid	back	8 mm	NR Band n66 (AWS)	A	0931M	40	DFT-S-OFDM	QPSK	1	214	24.5	23.54	0	0.01	1:1	0.869	1.247	1.084	
1745.00	349000	Mid	back	8 mm	NR Band n66 (AWS)	A	0931M	40	DFT-S-OFDM	QPSK	108	54	24.5	23.72	0	-0.10	1:1	0.753	1.197	0.901	
1745.00	349000	Mid	front	6 mm	NR Band n66 (AWS)	A	0931M	40	DFT-S-OFDM	QPSK	1	214	24.5	23.54	0	-0.01	1:1	0.777	1.247	0.969	
1745.00	349000	Mid	front	6 mm	NR Band n66 (AWS)	A	0931M	40	DFT-S-OFDM	QPSK	108	54	24.5	23.72	0	0.03	1:1	0.733	1.197	0.877	
1745.00	349000	Mid	bottom	12 mm	NR Band n66 (AWS)	A	0931M	40	DFT-S-OFDM	QPSK	1	214	24.5	23.54	0	0.02	1:1	0.807	1.247	1.006	
1745.00	349000	Mid	bottom	12 mm	NR Band n66 (AWS)	A	0931M	40	DFT-S-OFDM	QPSK	108	54	24.5	23.72	0	-0.01	1:1	0.729	1.197	0.873	
1745.00	349000	Mid	right	0 mm	NR Band n66 (AWS)	A	0931M	40	DFT-S-OFDM	QPSK	1	214	24.5	23.54	0	0.09	1:1	0.312	1.247	0.389	
1745.00	349000	Mid	right	0 mm	NR Band n66 (AWS)	A	0931M	40	DFT-S-OFDM	QPSK	108	54	24.5	23.72	0	-0.09	1:1	0.275	1.197	0.329	
1745.00	349000	Mid	left	0 mm	NR Band n66 (AWS)	A	0931M	40	DFT-S-OFDM	QPSK	1	214	24.5	23.54	0	0.01	1:1	0.399	1.247	0.498	
1745.00	349000	Mid	left	0 mm	NR Band n66 (AWS)	A	0931M	40	DFT-S-OFDM	QPSK	108	54	24.5	23.72	0	-0.08	1:1	0.387	1.197	0.463	
1745.00	349000	Mid	back	0 mm	NR Band n66 (AWS)	A	0931M	40	DFT-S-OFDM	QPSK	1	1	20.5	20.14	0	0.01	1:1	1.650	1.086	1.792	
1745.00	349000	Mid	back	0 mm	NR Band n66 (AWS)	A	0931M	40	DFT-S-OFDM	QPSK	108	108	20.5	20.16	0	0.02	1:1	1.750	1.081	1.892	A102
1745.00	349000	Mid	back	0 mm	NR Band n66 (AWS)	A	0931M	40	CP-OFDM	QPSK	1	1	20.5	19.82	0	0.02	1:1	1.740	1.169	2.034	
1745.00	349000	Mid	front	0 mm	NR Band n66 (AWS)	A	0931M	40	DFT-S-OFDM	QPSK	1	1	20.5	20.14	0	0.14	1:1	1.160	1.086	1.260	
1745.00	349000	Mid	front	0 mm	NR Band n66 (AWS)	A	0931M	40	DFT-S-OFDM	QPSK	108	108	20.5	20.16	0	-0.02	1:1	1.350	1.081	1.459	
1745.00	349000	Mid	bottom	0 mm	NR Band n66 (AWS)	A	0931M	40	DFT-S-OFDM	QPSK	1	1	20.5	20.14	0	-0.03	1:1	1.310	1.086	1.423	
1745.00	349000	Mid	bottom	0 mm	NR Band n66 (AWS)	A	0931M	40	DFT-S-OFDM	QPSK	108	108	20.5	20.16	0	0.03	1:1	1.120	1.081	1.211	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak									Phablet 4.0 W/kg (mW/g) averaged over 10 grams												
Uncontrolled Exposure/General Population																					

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Table 11-108
NR Band n25 Antenna A 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)		
1882.50	376500	Mid	back	8 mm	NR Band n25 (PCS)	A	0931M	40	DFT-S-OFDM	QPSK	1	1	24.5	23.78	0	0.03	1:1	0.930	1.180	1.097	
1882.50	376500	Mid	back	8 mm	NR Band n25 (PCS)	A	0931M	40	DFT-S-OFDM	QPSK	108	54	24.5	23.94	0	-0.13	1:1	1.070	1.138	1.218	
1882.50	376500	Mid	front	6 mm	NR Band n25 (PCS)	A	0931M	40	DFT-S-OFDM	QPSK	1	1	24.5	23.78	0	-0.21	1:1	1.150	1.180	1.357	
1882.50	376500	Mid	front	6 mm	NR Band n25 (PCS)	A	0931M	40	DFT-S-OFDM	QPSK	108	54	24.5	23.94	0	-0.08	1:1	1.200	1.138	1.366	
1882.50	376500	Mid	bottom	12 mm	NR Band n25 (PCS)	A	0931M	40	DFT-S-OFDM	QPSK	1	1	24.5	23.78	0	0.01	1:1	1.010	1.180	1.192	
1882.50	376500	Mid	bottom	12 mm	NR Band n25 (PCS)	A	0931M	40	DFT-S-OFDM	QPSK	108	54	24.5	23.94	0	-0.01	1:1	1.040	1.138	1.184	
1882.50	376500	Mid	right	0 mm	NR Band n25 (PCS)	A	0931M	40	DFT-S-OFDM	QPSK	1	1	24.5	23.78	0	0.14	1:1	0.279	1.180	0.329	
1882.50	376500	Mid	right	0 mm	NR Band n25 (PCS)	A	0931M	40	DFT-S-OFDM	QPSK	108	54	24.5	23.94	0	0.01	1:1	0.313	1.138	0.356	
1882.50	376500	Mid	left	0 mm	NR Band n25 (PCS)	A	0931M	40	DFT-S-OFDM	QPSK	1	1	24.5	23.78	0	-0.05	1:1	0.660	1.180	0.779	
1882.50	376500	Mid	left	0 mm	NR Band n25 (PCS)	A	0931M	40	DFT-S-OFDM	QPSK	108	54	24.5	23.94	0	0.04	1:1	0.713	1.138	0.811	
1882.50	376500	Mid	back	0 mm	NR Band n25 (PCS)	A	0931M	40	DFT-S-OFDM	QPSK	1	108	22.0	21.54	0	0.00	1:1	2.310	1.112	2.569	
1882.50	376500	Mid	back	0 mm	NR Band n25 (PCS)	A	0931M	40	DFT-S-OFDM	QPSK	108	108	22.0	21.69	0	0.02	1:1	2.270	1.074	2.438	
1882.50	376500	Mid	back	0 mm	NR Band n25 (PCS)	A	0931M	40	DFT-S-OFDM	QPSK	216	0	22.0	21.53	0	0.00	1:1	2.280	1.114	2.540	A103
1882.50	376500	Mid	back	0 mm	NR Band n25 (PCS)	A	0931M	40	CP-OFDM	QPSK	1	1	22.0	21.60	0	-0.08	1:1	2.320	1.096	2.543	
1882.50	376500	Mid	front	0 mm	NR Band n25 (PCS)	A	0931M	40	DFT-S-OFDM	QPSK	1	108	22.0	21.54	0	0.05	1:1	1.990	1.112	2.213	
1882.50	376500	Mid	front	0 mm	NR Band n25 (PCS)	A	0931M	40	DFT-S-OFDM	QPSK	108	108	22.0	21.69	0	-0.01	1:1	2.000	1.074	2.148	
1882.50	376500	Mid	front	0 mm	NR Band n25 (PCS)	A	0931M	40	DFT-S-OFDM	QPSK	216	0	22.0	21.53	0	0.01	1:1	2.010	1.114	2.239	
1882.50	376500	Mid	bottom	0 mm	NR Band n25 (PCS)	A	0931M	40	DFT-S-OFDM	QPSK	1	108	22.0	21.54	0	0.05	1:1	2.020	1.112	2.246	
1882.50	376500	Mid	bottom	0 mm	NR Band n25 (PCS)	A	0931M	40	DFT-S-OFDM	QPSK	108	108	22.0	21.69	0	-0.01	1:1	2.160	1.074	2.320	
1882.50	376500	Mid	bottom	0 mm	NR Band n25 (PCS)	A	0931M	40	DFT-S-OFDM	QPSK	216	0	22.0	21.53	0	0.03	1:1	2.230	1.114	2.484	
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 11-109
NR Band n25 Antenna I 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)		
1882.50	376500	Mid	right	0 mm	NR Band n25 (PCS)	I	0636M	40	DFT-S-OFDM	QPSK	1	214	22.0	21.94	0	-0.01	1:1	1.930	1.014	1.957	
1882.50	376500	Mid	right	0 mm	NR Band n25 (PCS)	I	0636M	40	DFT-S-OFDM	QPSK	108	108	22.0	22.00	0	0.00	1:1	2.080	1.000	2.080	
1882.50	376500	Mid	right	0 mm	NR Band n25 (PCS)	I	0636M	40	DFT-S-OFDM	QPSK	216	0	22.0	21.93	0	-0.03	1:1	2.150	1.016	2.184	
1882.50	376500	Mid	right	0 mm	NR Band n25 (PCS)	I	0636M	40	CP-OFDM	QPSK	1	1	22.0	21.88	0	0.11	1:1	2.210	1.028	2.272	
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 11-110
NR Band n30 Antenna B 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	B	0646M	10	DFT-S-OFDM	QPSK	1	50	23.5	23.50	0	0.04	1:1	0.405	1.000	0.405	
2310.00	462000	Mid	back	8 mm	NR Band n30	B	0646M	10	DFT-S-OFDM	QPSK	25	14	23.5	23.47	0	0.01	1:1	0.420	1.007	0.423	
2310.00	462000	Mid	front	6 mm	NR Band n30	B	0646M	10	DFT-S-OFDM	QPSK	1	50	23.5	23.50	0	0.03	1:1	0.480	1.000	0.480	
2310.00	462000	Mid	front	6 mm	NR Band n30	B	0646M	10	DFT-S-OFDM	QPSK	25	14	23.5	23.47	0	-0.03	1:1	0.499	1.007	0.502	
2310.00	462000	Mid	bottom	12 mm	NR Band n30	B	0646M	10	DFT-S-OFDM	QPSK	1	50	23.5	23.50	0	0.01	1:1	0.602	1.000	0.602	
2310.00	462000	Mid	bottom	12 mm	NR Band n30	B	0646M	10	DFT-S-OFDM	QPSK	25	14	23.5	23.47	0	-0.01	1:1	0.555	1.007	0.559	
2310.00	462000	Mid	left	0 mm	NR Band n30	B	0646M	10	DFT-S-OFDM	QPSK	1	50	23.5	23.50	0	0.14	1:1	0.797	1.000	0.797	
2310.00	462000	Mid	left	0 mm	NR Band n30	B	0646M	10	DFT-S-OFDM	QPSK	25	14	23.5	23.47	0	0.08	1:1	0.851	1.007	0.857	
2310.00	462000	Mid	back	0 mm	NR Band n30	B	0646M	10	DFT-S-OFDM	QPSK	1	26	22.5	21.59	0	0.02	1:1	1.660	1.233	2.047	
2310.00	462000	Mid	back	0 mm	NR Band n30	B	0646M	10	DFT-S-OFDM	QPSK	25	27	22.5	21.60	0	0.03	1:1	1.720	1.230	2.116	
2310.00	462000	Mid	back	0 mm	NR Band n30	B	0646M	10	DFT-S-OFDM	QPSK	50	0	22.5	21.58	0	0.01	1:1	1.750	1.236	2.163	A104
2310.00	462000	Mid	back	0 mm	NR Band n30	B	0646M	10	CP-OFDM	QPSK	1	1	22.0	20.99	0.5	-0.04	1:1	1.470	1.262	1.855	
2310.00	462000	Mid	front	0 mm	NR Band n30	B	0646M	10	DFT-S-OFDM	QPSK	1	26	22.5	21.59	0	0.04	1:1	1.100	1.233	1.356	
2310.00	462000	Mid	front	0 mm	NR Band n30	B	0646M	10	DFT-S-OFDM	QPSK	25	27	22.5	21.60	0	0.02	1:1	1.050	1.230	1.292	
2310.00	462000	Mid	bottom	0 mm	NR Band n30	B	0646M	10	DFT-S-OFDM	QPSK	1	26	22.5	21.59	0	0.06	1:1	1.090	1.233	1.344	
2310.00	462000	Mid	bottom	0 mm	NR Band n30	B	0646M	10	DFT-S-OFDM	QPSK	25	27	22.5	21.60	0	0.02	1:1	0.936	1.230	1.151	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT								Phablet													
Spatial Peak								4.0 W/kg (mW/g)													
Uncontrolled Exposure/General Population								averaged over 10 grams													

Table 11-111
NR Band n7 Antenna B 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	0414M	40	DFT-S-OFDM	QPSK	1	108	24.5	24.27	0	0.05	1:1	0.294	1.054	0.310	
2535.00	507000	Mid	back	8 mm	NR Band n7	B	0414M	40	DFT-S-OFDM	QPSK	108	54	24.5	24.14	0	0.00	1:1	0.294	1.086	0.319	
2535.00	507000	Mid	front	6 mm	NR Band n7	B	0414M	40	DFT-S-OFDM	QPSK	1	108	24.5	24.27	0	0.02	1:1	0.312	1.054	0.329	
2535.00	507000	Mid	front	6 mm	NR Band n7	B	0414M	40	DFT-S-OFDM	QPSK	108	54	24.5	24.14	0	0.04	1:1	0.317	1.086	0.344	
2535.00	507000	Mid	bottom	12 mm	NR Band n7	B	0414M	40	DFT-S-OFDM	QPSK	1	108	24.5	24.27	0	0.02	1:1	0.374	1.054	0.394	
2535.00	507000	Mid	bottom	12 mm	NR Band n7	B	0414M	40	DFT-S-OFDM	QPSK	108	54	24.5	24.14	0	0.07	1:1	0.374	1.086	0.406	
2535.00	507000	Mid	left	0 mm	NR Band n7	B	0414M	40	DFT-S-OFDM	QPSK	1	108	24.5	24.27	0	0.01	1:1	1.060	1.054	1.117	
2535.00	507000	Mid	left	0 mm	NR Band n7	B	0414M	40	DFT-S-OFDM	QPSK	108	54	24.5	24.14	0	0.00	1:1	1.050	1.086	1.140	
2535.00	507000	Mid	back	0 mm	NR Band n7	B	0414M	40	DFT-S-OFDM	QPSK	1	214	21.5	20.66	0	-0.04	1:1	0.695	1.213	0.843	
2535.00	507000	Mid	back	0 mm	NR Band n7	B	0414M	40	DFT-S-OFDM	QPSK	108	108	21.5	20.83	0	-0.05	1:1	0.693	1.167	0.809	
2535.00	507000	Mid	front	0 mm	NR Band n7	B	0414M	40	DFT-S-OFDM	QPSK	1	214	21.5	20.66	0	0.20	1:1	0.444	1.213	0.539	
2535.00	507000	Mid	front	0 mm	NR Band n7	B	0414M	40	DFT-S-OFDM	QPSK	108	108	21.5	20.83	0	0.04	1:1	0.408	1.167	0.476	
2535.00	507000	Mid	bottom	0 mm	NR Band n7	B	0414M	40	DFT-S-OFDM	QPSK	1	214	21.5	20.66	0	-0.01	1:1	1.110	1.213	1.346	A105
2535.00	507000	Mid	bottom	0 mm	NR Band n7	B	0414M	40	DFT-S-OFDM	QPSK	108	108	21.5	20.83	0	0.08	1:1	0.951	1.167	1.110	
2535.00	507000	Mid	bottom	0 mm	NR Band n7	B	0414M	40	CP-OFDM	QPSK	1	1	21.5	20.50	0	-0.01	1:1	0.959	1.259	1.207	
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 11-112
NR Band n41 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)		
2592.99	518598	Md	front	0 mm	NR Band n41	I	0649M	100	DFT-S-OFDM	QPSK	1	271	21.0	19.52	0	-0.06	1:1	1.280	1.406	1.800	A106
2592.99	518598	Md	front	0 mm	NR Band n41	I	0649M	100	DFT-S-OFDM	QPSK	135	138	21.0	19.35	0	0.08	1:1	1.200	1.462	1.754	
2592.99	518598	Md	front	0 mm	NR Band n41	I	0649M	100	DFT-S-OFDM	QPSK	270	0	21.0	19.27	0	0.03	1:1	1.080	1.489	1.608	
2592.99	518598	Md	right	0 mm	NR Band n41	I	0649M	100	DFT-S-OFDM	QPSK	1	271	21.0	19.52	0	0.03	1:1	1.220	1.406	1.715	
2592.99	518598	Md	right	0 mm	NR Band n41	I	0649M	100	DFT-S-OFDM	QPSK	135	138	21.0	19.35	0	0.03	1:1	1.240	1.462	1.813	
2592.99	518598	Md	right	0 mm	NR Band n41	I	0649M	100	DFT-S-OFDM	QPSK	270	0	21.0	19.27	0	0.04	1:1	1.230	1.489	1.831	
2592.99	518598	Md	right	0 mm	NR Band n41	I	0649M	100	CP-OFDM	QPSK	1	1	21.0	19.12	0	0.02	1:1	1.130	1.542	1.742	
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 11-113
NR Band n48 Antenna F 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)		
3570.00	638000	Low	back	0 mm	NR Band n48	F	0884M	40	DFT-S-OFDM	QPSK	1	1	19.0	18.95	0	0.04	1:1	0.777	1.012	0.786	
3570.00	638000	Low	back	0 mm	NR Band n48	F	0884M	40	DFT-S-OFDM	QPSK	50	0	19.0	18.89	0	-0.02	1:1	0.755	1.026	0.775	
3570.00	638000	Low	front	0 mm	NR Band n48	F	0884M	40	DFT-S-OFDM	QPSK	1	1	19.0	18.95	0	-0.08	1:1	0.945	1.012	0.956	
3570.00	638000	Low	front	0 mm	NR Band n48	F	0884M	40	DFT-S-OFDM	QPSK	50	0	19.0	18.89	0	-0.03	1:1	0.939	1.026	0.963	
3570.00	638000	Low	front	0 mm	NR Band n48	F	0884M	40	CP-OFDM	QPSK	1	1	19.0	18.63	0	0.07	1:1	0.949	1.089	1.033	A107
3570.00	638000	Low	left	0 mm	NR Band n48	F	0884M	40	DFT-S-OFDM	QPSK	1	1	19.0	18.95	0	-0.10	1:1	0.945	1.012	0.956	
3570.00	638000	Low	left	0 mm	NR Band n48	F	0884M	40	DFT-S-OFDM	QPSK	50	0	19.0	18.89	0	-0.06	1:1	0.903	1.026	0.926	
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 11-114
NR Band n77 DoD Antenna F 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)		
3500.01	633334	Md	front	0 mm	NR Band n77 DoD	F	0651M	100	DFT-S-OFDM	QPSK	1	1	19.0	18.88	0	-0.03	1:1	0.415	1.028	0.427	
3500.01	633334	Md	front	0 mm	NR Band n77 DoD	F	0651M	100	DFT-S-OFDM	QPSK	135	0	19.0	18.83	0	0.04	1:1	0.431	1.040	0.448	
3500.01	633334	Md	top	0 mm	NR Band n77 DoD	F	0651M	100	DFT-S-OFDM	QPSK	1	1	19.0	18.88	0	-0.06	1:1	0.648	1.028	0.666	
3500.01	633334	Md	top	0 mm	NR Band n77 DoD	F	0651M	100	DFT-S-OFDM	QPSK	135	0	19.0	18.83	0	0.01	1:1	0.610	1.040	0.634	
3500.01	633334	Md	left	0 mm	NR Band n77 DoD	F	0651M	100	DFT-S-OFDM	QPSK	1	1	19.0	18.88	0	-0.04	1:1	1.090	1.028	1.121	
3500.01	633334	Md	left	0 mm	NR Band n77 DoD	F	0651M	100	DFT-S-OFDM	QPSK	135	0	19.0	18.83	0	0.00	1:1	1.040	1.040	1.082	
3500.01	633334	Md	left	0 mm	NR Band n77 DoD	F	0651M	100	CP-OFDM	QPSK	1	1	19.0	18.51	0	0.01	1:1	1.090	1.119	1.220	A108
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 11-115
NR Band n77 Antenna F, E 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)		
3750.00	650000	Low	back	0 mm	NR Band n77	F	0651M	100	DFT-S-OFDM	QPSK	1	137	19.0	18.91	0	0.05	1:1	1.220	1.021	1.246	
3930.00	662000	High	back	0 mm	NR Band n77	F	0651M	100	DFT-S-OFDM	QPSK	1	1	19.0	18.82	0	0.02	1:1	1.210	1.042	1.261	
3750.00	650000	Low	back	0 mm	NR Band n77	F	0651M	100	DFT-S-OFDM	QPSK	135	69	19.0	18.78	0	-0.03	1:1	1.060	1.052	1.115	
3930.00	662000	High	back	0 mm	NR Band n77	F	0651M	100	DFT-S-OFDM	QPSK	135	0	19.0	18.64	0	-0.03	1:1	1.140	1.086	1.238	
3750.00	650000	Low	back	0 mm	NR Band n77	F	0651M	100	DFT-S-OFDM	QPSK	270	0	19.0	18.64	0	0.01	1:1	1.060	1.086	1.151	
3750.00	650000	Low	front	0 mm	NR Band n77	F	0651M	100	DFT-S-OFDM	QPSK	1	137	19.0	18.91	0	0.06	1:1	1.030	1.021	1.052	
3930.00	662000	High	front	0 mm	NR Band n77	F	0651M	100	DFT-S-OFDM	QPSK	1	1	19.0	18.82	0	0.13	1:1	1.020	1.042	1.063	
3750.00	650000	Low	front	0 mm	NR Band n77	F	0651M	100	DFT-S-OFDM	QPSK	135	69	19.0	18.78	0	0.02	1:1	1.010	1.052	1.063	
3930.00	662000	High	front	0 mm	NR Band n77	F	0651M	100	DFT-S-OFDM	QPSK	135	0	19.0	18.64	0	-0.01	1:1	1.010	1.086	1.097	
3750.00	650000	Low	front	0 mm	NR Band n77	F	0651M	100	DFT-S-OFDM	QPSK	270	0	19.0	18.64	0	-0.06	1:1	0.975	1.086	1.059	
3750.00	650000	Low	left	0 mm	NR Band n77	F	0651M	100	DFT-S-OFDM	QPSK	1	137	19.0	18.91	0	0.01	1:1	1.580	1.021	1.613	
3930.00	662000	High	left	0 mm	NR Band n77	F	0651M	100	DFT-S-OFDM	QPSK	1	1	19.0	18.82	0	-0.05	1:1	1.910	1.042	1.990	
3750.00	650000	Low	left	0 mm	NR Band n77	F	0651M	100	DFT-S-OFDM	QPSK	135	69	19.0	18.78	0	0.00	1:1	1.550	1.052	1.631	A109
3930.00	662000	High	left	0 mm	NR Band n77	F	0651M	100	DFT-S-OFDM	QPSK	135	0	19.0	18.64	0	0.06	1:1	1.910	1.086	2.074	
3750.00	650000	Low	left	0 mm	NR Band n77	F	0651M	100	DFT-S-OFDM	QPSK	270	0	19.0	18.64	0	0.01	1:1	1.540	1.086	1.672	
3930.00	662000	High	left	0 mm	NR Band n77	F	0651M	100	CP-OFDM	QPSK	1	1	19.0	18.35	0	-0.05	1:1	1.830	1.161	2.125	
3750.00	650000	Low	left	0 mm	NR Band n77	E	0651M	100	CW/SRS	N/A	N/A	N/A	19.0	18.42	N/A	0.04	1:1	0.765	1.143	0.874	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population									Phablet 4 W/kg (mW/g) averaged over 10 grams												

Table 11-116
WLAN SISO Phablet 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]	Duty Cycle (%)	Peak SAR of Area Scan	SAR (10g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (10g) (W/kg)	Plot #
MHz	Ch.													W/kg	(W/kg)				
5280	56	back	0 mm	802.11a	OFDM	1	1309M	20	6	18.0	17.97	0.01	96.68	2.800	-	1.007	1.034	-	
5280	56	front	0 mm	802.11a	OFDM	1	1309M	20	6	18.0	17.97	-0.02	96.68	2.200	-	1.007	1.034	-	
5280	56	top	0 mm	802.11a	OFDM	1	1309M	20	6	18.0	17.97	0.01	96.68	1.300	-	1.007	1.034	-	
5280	56	left	0 mm	802.11a	OFDM	1	1309M	20	6	18.0	17.97	-0.02	96.68	5.410	0.702	1.007	1.034	0.731	
5600	120	back	0 mm	802.11a	OFDM	1	1309M	20	6	18.0	17.91	-0.01	96.68	1.970	-	1.021	1.034	-	
5600	120	front	0 mm	802.11a	OFDM	1	1309M	20	6	18.0	17.91	-0.04	96.68	1.350	-	1.021	1.034	-	
5600	120	top	0 mm	802.11a	OFDM	1	1309M	20	6	18.0	17.91	0.02	96.68	0.680	-	1.021	1.034	-	
5600	120	left	0 mm	802.11a	OFDM	1	1309M	20	6	18.0	17.91	0.00	96.68	3.410	0.458	1.021	1.034	0.484	
5885	177	back	0 mm	802.11a	OFDM	1	1309M	20	6	18.0	17.88	-0.04	96.68	1.100	-	1.028	1.034	-	
5885	177	front	0 mm	802.11a	OFDM	1	1309M	20	6	18.0	17.88	0.03	96.68	1.140	-	1.028	1.034	-	
5885	177	top	0 mm	802.11a	OFDM	1	1309M	20	6	18.0	17.88	0.01	96.68	0.350	-	1.028	1.034	-	
5885	177	left	0 mm	802.11a	OFDM	1	1309M	20	6	18.0	17.88	0.01	96.68	3.680	0.614	1.028	1.034	0.653	
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 11-117
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]	Duty Cycle (%)	Peak SAR of Area Scan	SAR (10g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (10g)	Plot #
MHz	Ch.															W/kg	(W/kg)		(W/kg)		
5320	64	back	0 mm	802.11n	OFDM	MIMO	1309M	20	13	18.0	17.64	18.0	17.98	0.02	98.11	2.600	0.576	1.086	1.019	0.637	
5320	64	front	0 mm	802.11n	OFDM	MIMO	1309M	20	13	18.0	17.64	18.0	17.98	0.00	98.11	4.480	-	1.086	1.019	-	
5320	64	top	0 mm	802.11n	OFDM	MIMO	1309M	20	13	18.0	17.64	18.0	17.98	0.08	98.11	4.460	-	1.086	1.019	-	
5320	64	right	0 mm	802.11n	OFDM	MIMO	1309M	20	13	18.0	17.64	18.0	17.98	0.20	98.11	0.788	-	1.086	1.019	-	
5320	64	left	0 mm	802.11n	OFDM	MIMO	1309M	20	13	18.0	17.64	18.0	17.98	-0.02	98.11	5.460	0.750	1.086	1.019	0.830	
5500	100	back	0 mm	802.11n	OFDM	MIMO	1309M	20	13	18.0	17.90	18.0	17.71	-0.07	98.11	3.810	0.598	1.023	1.019	0.651	
5500	100	front	0 mm	802.11n	OFDM	MIMO	1309M	20	13	18.0	17.90	18.0	17.71	0.01	98.11	2.870	-	1.023	1.019	-	
5500	100	top	0 mm	802.11n	OFDM	MIMO	1309M	20	13	18.0	17.90	18.0	17.71	0.08	98.11	5.420	0.567	1.023	1.019	0.618	
5500	100	right	0 mm	802.11n	OFDM	MIMO	1309M	20	13	18.0	17.90	18.0	17.71	0.02	98.11	1.450	-	1.023	1.019	-	
5500	100	left	0 mm	802.11n	OFDM	MIMO	1309M	20	13	18.0	17.90	18.0	17.71	-0.13	98.11	4.470	-	1.023	1.019	-	
5885	177	back	0 mm	802.11n	OFDM	MIMO	1309M	20	13	18.0	17.72	18.0	17.92	0.06	98.11	2.130	0.411	1.067	1.019	0.447	
5885	177	front	0 mm	802.11n	OFDM	MIMO	1309M	20	13	18.0	17.72	18.0	17.92	0.02	98.11	4.770	0.717	1.067	1.019	0.780	
5885	177	top	0 mm	802.11n	OFDM	MIMO	1309M	20	13	18.0	17.72	18.0	17.92	0.01	98.11	2.690	-	1.067	1.019	-	
5885	177	right	0 mm	802.11n	OFDM	MIMO	1309M	20	13	18.0	17.72	18.0	17.92	0.02	98.11	1.170	-	1.067	1.019	-	
5885	177	left	0 mm	802.11n	OFDM	MIMO	1309M	20	13	18.0	17.72	18.0	17.92	0.04	98.11	7.370	0.990	1.067	1.019	1.076	A110
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.

Table 11-118
WLAN MIMO Phablet 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]	Duty Cycle (%)	Peak SAR of Area Scan	SAR (10g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (10g)	Plot #
MHz	Ch.															W/kg	(W/kg)			(W/kg)	
5290	58	back	0 mm	802.11ac	OFDM	MIMO	1309M	80	58.5	11.0	10.68	11.0	10.44	0.20	92.36	0.361	-	1.076	1.083	-	
5290	58	front	0 mm	802.11ac	OFDM	MIMO	1309M	80	58.5	11.0	10.68	11.0	10.44	-0.05	92.36	0.674	-	1.076	1.083	-	
5290	58	top	0 mm	802.11ac	OFDM	MIMO	1309M	80	58.5	11.0	10.68	11.0	10.44	0.08	92.36	0.306	-	1.076	1.083	-	
5290	58	right	0 mm	802.11ac	OFDM	MIMO	1309M	80	58.5	11.0	10.68	11.0	10.44	0.01	92.36	0.077	-	1.076	1.083	-	
5290	58	left	0 mm	802.11ac	OFDM	MIMO	1309M	80	58.5	11.0	10.68	11.0	10.44	0.08	92.36	0.969	0.145	1.076	1.083	0.179	
5530	106	back	0 mm	802.11ac	OFDM	MIMO	1309M	80	58.5	11.0	10.76	11.0	10.79	0.03	92.36	0.541	-	1.057	1.083	-	
5530	106	front	0 mm	802.11ac	OFDM	MIMO	1309M	80	58.5	11.0	10.76	11.0	10.79	-0.14	92.36	0.537	-	1.057	1.083	-	
5530	106	top	0 mm	802.11ac	OFDM	MIMO	1309M	80	58.5	11.0	10.76	11.0	10.79	0.06	92.36	0.830	-	1.057	1.083	-	
5530	106	right	0 mm	802.11ac	OFDM	MIMO	1309M	80	58.5	11.0	10.76	11.0	10.79	0.01	92.36	0.291	-	1.057	1.083	-	
5530	106	left	0 mm	802.11ac	OFDM	MIMO	1309M	80	58.5	11.0	10.76	11.0	10.79	-0.02	92.36	1.320	0.148	1.057	1.083	0.169	
5855	171	back	0 mm	802.11ac	OFDM	MIMO	1309M	80	58.5	11.0	10.92	11.0	10.95	0.12	92.36	0.321	-	1.019	1.083	-	
5855	171	front	0 mm	802.11ac	OFDM	MIMO	1309M	80	58.5	11.0	10.92	11.0	10.95	0.08	92.36	0.386	-	1.019	1.083	-	
5855	171	top	0 mm	802.11ac	OFDM	MIMO	1309M	80	58.5	11.0	10.92	11.0	10.95	0.05	92.36	0.756	-	1.019	1.083	-	
5855	171	right	0 mm	802.11ac	OFDM	MIMO	1309M	80	58.5	11.0	10.92	11.0	10.95	0.01	92.36	0.241	-	1.019	1.083	-	
5855	171	left	0 mm	802.11ac	OFDM	MIMO	1309M	80	58.5	11.0	10.92	11.0	10.95	0.03	92.36	1.090	0.105	1.019	1.083	0.116	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population											Phablet 4.0 W/kg (mW/g) averaged over 10 grams										

Note: 5GHz WLAN MIMO was additionally evaluated at the maximum allowed output power during simultaneous operations with 5G NR. 5G NR was not transmitting during the above evaluations. 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 11-119
NFC SAR**

MEASUREMENT RESULTS							
FREQUENCY	Side	Test Position	Mode	Device Serial Number	Power Drift	SAR (10g)	Plot #
MHz						(W/kg)	
13.56	back	0 mm	NFC	0946M	0.01	0.005	A111
13.56	front	0 mm	NFC	0946M	0.02	0.000	
13.56	bottom	0 mm	NFC	0946M	0.20	0.000	
13.56	right	0 mm	NFC	0946M	0.01	0.000	
13.56	left	0 mm	NFC	0946M	0.01	0.000	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT					Phablet		
Spatial Peak					4.0 W/kg (mW/g)		
Uncontrolled Exposure/General Population					averaged over 10 grams		

11.5 SAR Test Notes

General Notes:

- 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.
- Batteries are fully charged at the beginning of the SAR measurements.
- Liquid tissue depth was at least 15.0 cm for all frequencies.
- 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.
- SAR results were scaled to the maximum allowed power to demonstrate compliance per FCC KDB Publication 447498 D04v01.
- 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.
- 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.
- 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.
- 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).
- Per FCC KDB Publication 648474 D04v01r03, this device is considered a "phablet" when it is in open configuration since the diagonal dimension is > 160 mm and < 200 mm. Therefore, phablet SAR tests are required when wireless router mode does not apply or if wireless router 1g SAR > 1.2 W/kg.

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11. Additional SAR tests for phablet SAR were evaluated per KDB 616217 Section 6 (See Section 6.9 for more information).
12. 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.
13. This device uses Qualcomm Smart Transmit for 2G/3G/4G/5G operations to control and manage transmitting power in real time to ensure RF Exposure compliance. Per FCC Guidance, compliance for was assessed at the minimum of the time averaged power and the maximum output power for each band/mode/exposure condition (DSI).
14. This device has an open and closed configuration. When closed, 1g SAR test are required for back side at a test separation distance of 15mm for body-worn, and on all surfaces and edges with an antenna ≤ 25 mm from that surface or edge at a test separation distance 5mm for hotspot.

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).

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.

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6. Per KDB Publication 941225 D05Av01r02, SAR for downlink only LTE CA operations was not needed since the maximum average output power in LTE CA mode was not >0.25 dB higher than the maximum output power when downlink carrier aggregation was inactive.
7. This device supports Power Class 2 and Power Class 3 operations for LTE Band 41. The highest available duty cycle for Power Class 2 operations is 43.3 % using UL-DL configuration 1. Per FCC Guidance, all SAR tests were performed using Power Class 3. SAR with power class 2 at the available duty factor was additionally performed for the power class 3 configuration with the highest SAR configuration for each exposure conditions. Please see Section 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.
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.

WLAN Notes:

1. For held-to-ear, and 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

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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 Consideration 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.

Bluetooth Notes

1. Bluetooth SAR was measured with the device connected to a call box with hopping disabled with DH5 operation and Tx Tests test mode type. Per October 2016 TCB Workshop Notes, the reported SAR was scaled to the 100% transmission duty factor to determine compliance. See Section 9 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.

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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
Head SAR Measurement Variability Results

HEAD VARIABILITY RESULTS														
Band	FREQUENCY		Mode	Service	Side	Test Position	Antenna Config	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)			
3700	3690.00	56640	LTE Band 48	QPSK, 1 RB, 99 RB Offset	Right	Cheek	F	0.936	0.877	1.07	N/A	N/A	N/A	N/A
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 12-2
Body SAR Measurement Variability Results

BODY VARIABILITY RESULTS															
Band	FREQUENCY		Mode	Service	# of Time Slots	Side	Spacing	Antenna Config	Measured SAR (1g)	1st Repeated SAR (1g)	Ratio	2nd Repeated SAR (1g)	Ratio	3rd Repeated SAR (1g)	Ratio
	MHz	Ch.							(W/kg)	(W/kg)		(W/kg)		(W/kg)	
835	846.60	4233	UMTS 850	RMC	N/A	back	5 mm	A	0.888	0.864	1.03	N/A	N/A	N/A	N/A
1750	1745.00	349000	NR Band n66 (AWS), 40 MHz Bandwidth	CP-OFDM, QPSK, 1 RB, 1 RB Offset	N/A	bottom	5 mm	A	0.846	0.827	1.02	N/A	N/A	N/A	N/A
1900	1909.80	810	GSM 1900	GPRS	4	bottom	5 mm	A	1.040	1.030	1.01	N/A	N/A	N/A	N/A
ANSI / IEEE C95.1 1992 - SAFETY LIMIT								Body							
Spatial Peak								1.6 W/kg (mW/g)							
Uncontrolled Exposure/General Population								averaged over 1 gram							

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Table 12-3
Phablet SAR Measurement Variability Results

PHABLET VARIABILITY RESULTS														
Band	FREQUENCY		Mode	Service	Side	Spacing	Antenna Config	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	1752.60	1513	UMTS 1750	RMC	back	0 mm	A	2.170	2.090	1.04	N/A	N/A	N/A	N/A
1900	1905.00	26590	LTE Band 25 (PCS), 20 MHz Bandwidth	QPSK, 1 RB, 99 RB Offset	back	0 mm	A	2.420	2.390	1.01	N/A	N/A	N/A	N/A
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							Phablet 4.0 W/kg (mW/g) averaged over 10 grams							

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 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.

Table 13-1
LTE Band 41 Head Linearity Data

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	25.00	26.60
Measured Output Power (dBm)	24.11	25.73
Measured SAR (W/kg)	0.084	0.090
Measured Power (mW)	257.63	374.11
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	163.08	161.99
% deviation from expected linearity		7.86%

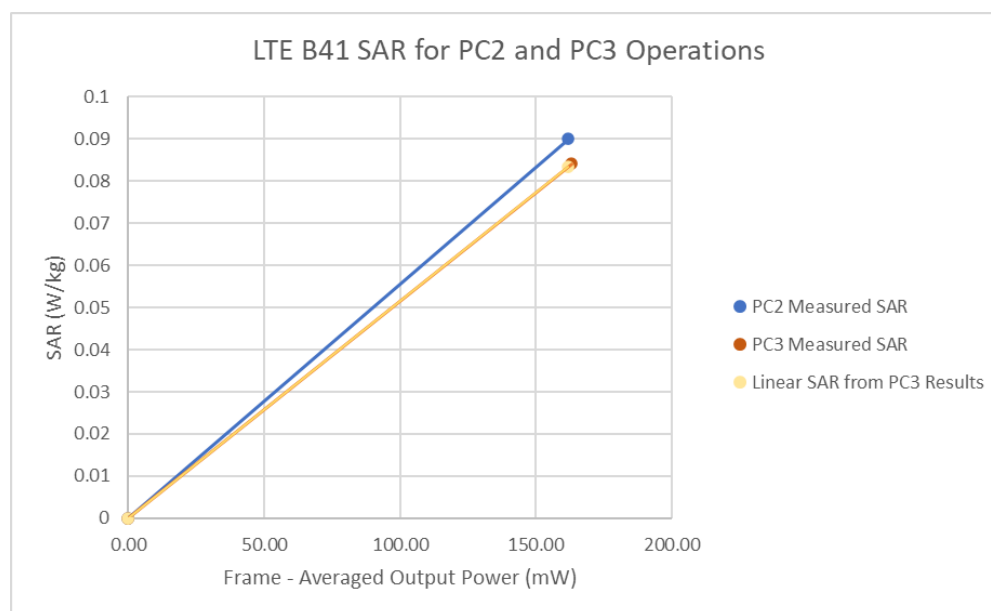


Figure 13-1
LTE Band 41 Head Linearity

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Table 13-2
LTE Band 41 ULCA Head Linearity Data

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	25.00	26.60
Measured Output Power (dBm)	24.25	26.00
Measured SAR (W/kg)	0.090	0.090
Measured Power (mW)	266.07	398.11
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	168.42	172.38
% deviation from expected linearity		-2.30%

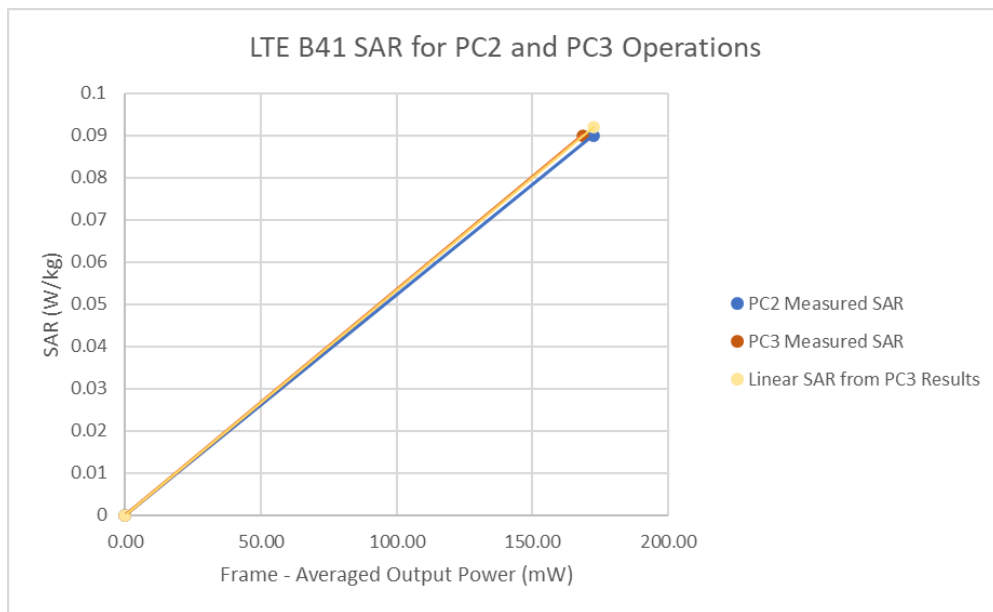


Figure 13-2
LTE Band 41 ULCA Head Linearity

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Table 13-3
LTE Band 41 Body-Worn Linearity Data

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	25.00	26.60
Measured Output Power (dBm)	24.11	25.73
Measured SAR (W/kg)	0.274	0.255
Measured Power (mW)	257.63	374.11
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	163.08	161.99
% deviation from expected linearity		-6.31%

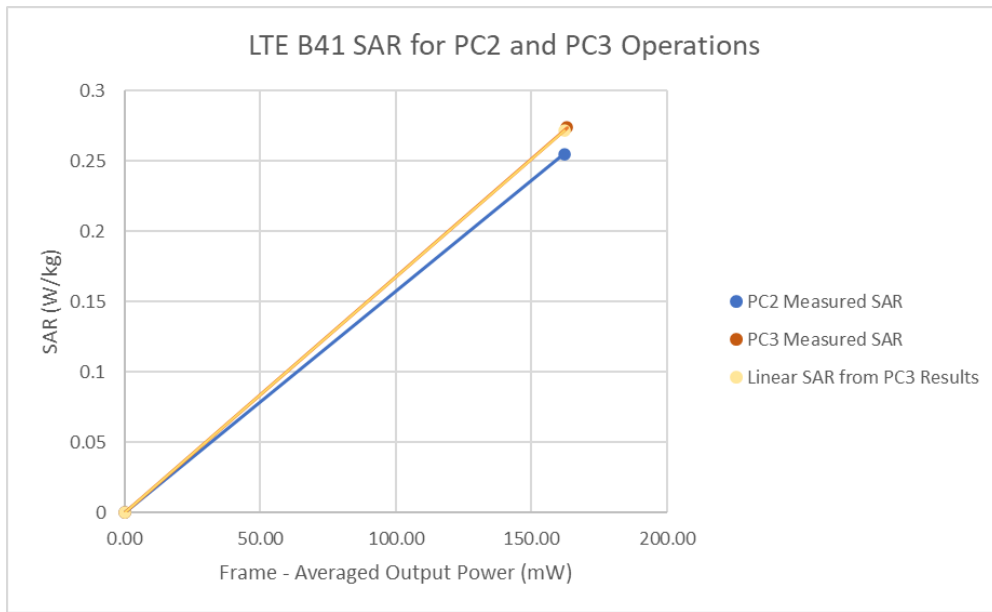


Figure 13-3
LTE Band 41 Body-Worn Linearity

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Table 13-4
LTE Band 41 ULCA Body-Worn Linearity Data

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	25.00	26.60
Measured Output Power (dBm)	24.25	26.00
Measured SAR (W/kg)	0.283	0.263
Measured Power (mW)	266.07	398.11
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	168.42	172.38
% deviation from expected linearity		-9.20%

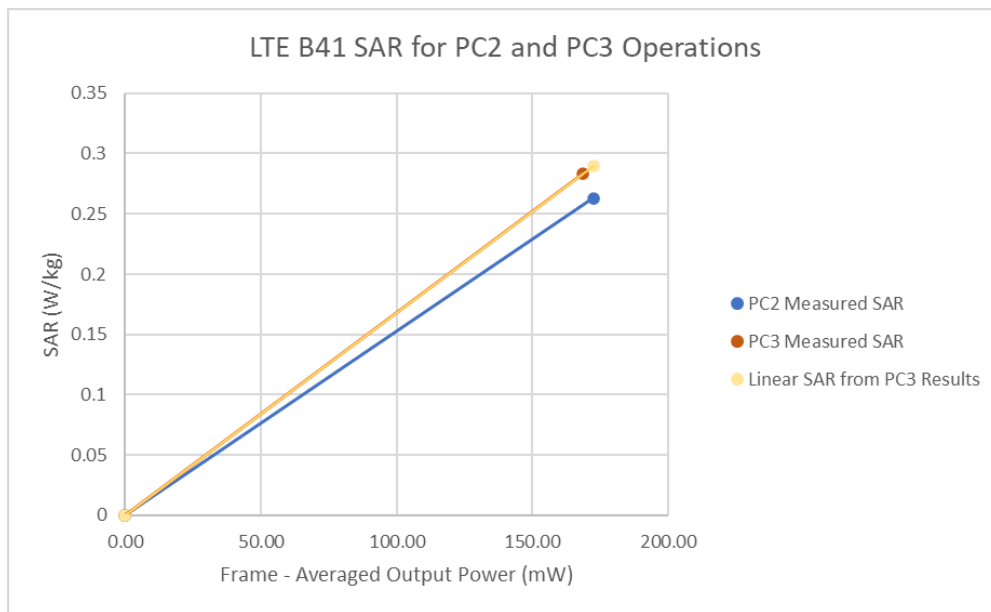


Figure 13-4
LTE Band 41 ULCA Body-Worn Linearity

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Table 13-5
LTE Band 41 Hotspot Linearity Data

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	21.00	22.60
Measured Output Power (dBm)	20.10	22.02
Measured SAR (W/kg)	0.633	0.636
Measured Power (mW)	102.33	159.22
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	64.77	68.94
% deviation from expected linearity		-5.60%

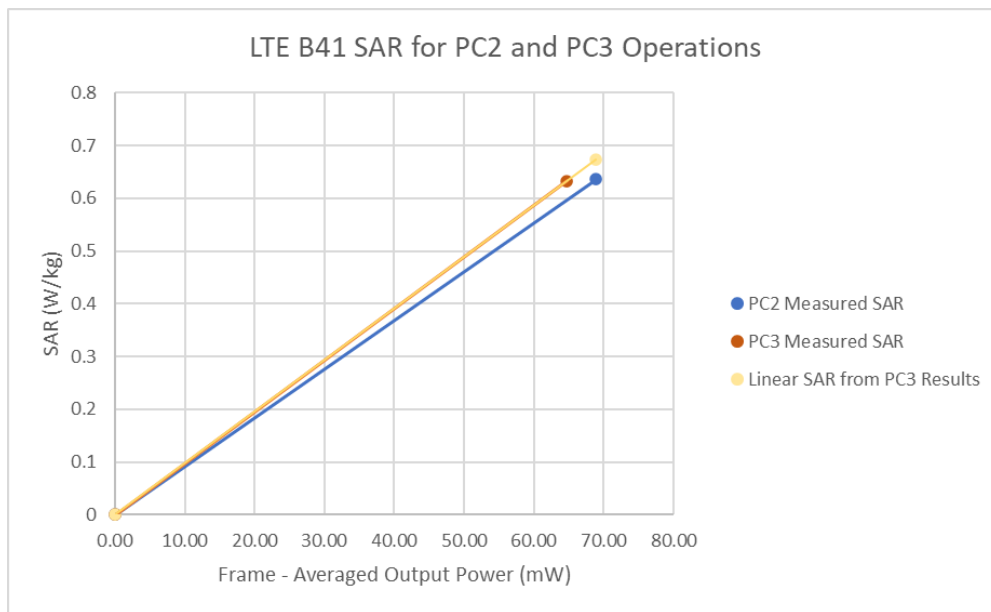


Figure 13-5
LTE Band 41 Hotspot Linearity

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Table 13-6
LTE Band 41 ULCA Hotspot Linearity Data

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	21.00	22.60
Measured Output Power (dBm)	19.94	21.53
Measured SAR (W/kg)	0.593	0.582
Measured Power (mW)	98.63	142.23
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	62.43	61.59
% deviation from expected linearity		-0.51%

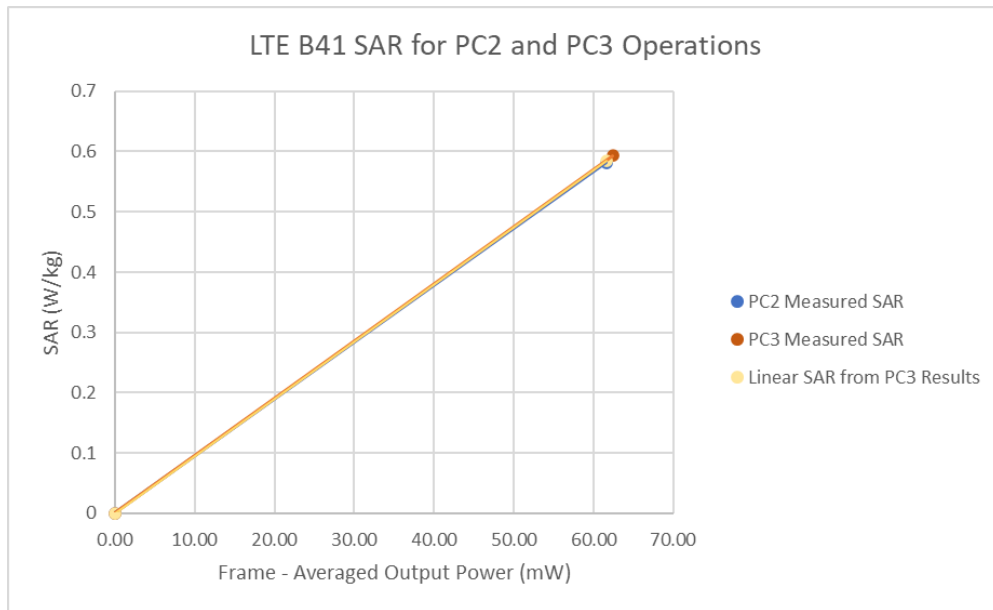


Figure 13-6
LTE Band 41 ULCA Hotspot Linearity

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14 EQUIPMENT LIST

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Agilent	E4404B	Spectrum Analyzer	N/A	N/A	N/A	MY45113242
Agilent	E4438C	ESG Vector Signal Generator	5/10/2022	Annual	5/10/2023	MY42082659
Agilent	E4438C	ESG Vector Signal Generator	2/14/2022	Annual	2/14/2023	MY42082385
Agilent	NS182A	MWG Vector Signal Generator	6/21/2021	Annual	6/21/2022	MY47420603
Agilent	NS182A	MWG Vector Signal Generator	7/6/2021	Annual	7/6/2022	MY48180366
Agilent	8753ES	S-Parameter Vector Network Analyzer	2/11/2022	Annual	2/11/2023	MY42003841
Agilent	8753ES	S-Parameter Vector Network Analyzer	12/17/2021	Annual	12/17/2022	MY40000670
Agilent	E5515C	Wireless Communications Test Set	5/12/2022	Annual	5/12/2023	GB41304278
Agilent	E5515C	Wireless Communications Test Set	5/6/2021	Annual	5/6/2022	GB44400860
Agilent	N4010A	Wireless Connectivity Test Set	N/A	N/A	N/A	GB45179464
Amplifier Research	1551G6	Amplifier	CBT	N/A	CBT	433974
Amplifier Research	1551G6	Amplifier	9/15/2021	Annual	9/15/2022	433971
Anritsu	ML2496A	Power Meter	4/21/2021	Annual	4/21/2022	1351001
Anritsu	ML2496A	Power Meter	3/31/2022	Annual	3/31/2023	1138001
Anritsu	MA2411B	Pulse Power Sensor	4/28/2021	Annual	4/28/2022	1307470
Anritsu	MA2411B	Pulse Power Sensor	9/21/2021	Annual	9/21/2022	1339008
Anritsu	MT8821C	Radio Communication Analyzer MT8821C	5/24/2022	Annual	5/24/2023	6201144418
Anritsu	MT8821C	Radio Communication Analyzer MT8821C	3/31/2022	Annual	3/31/2023	6201664756
Anritsu	MT8821C	Radio Communication Analyzer MT8821C	9/26/2021	Annual	9/26/2022	6201524837
Anritsu	MT8821C	Radio Communication Analyzer MT8821C	8/10/2021	Annual	8/10/2022	6202150000
Anritsu	MT8000A	Radio Communication Test Station	8/2/2021	Annual	8/2/2022	6272337438
Anritsu	MT8000A	Radio Communication Test Station	8/2/2021	Annual	8/2/2022	6272337436
Anritsu	MT8000A	Radio Communication Test Station	8/2/2021	Annual	8/2/2022	6272337437
Anritsu	MA24106A	USB Power Sensor	6/1/2022	Annual	6/1/2023	1349534
Anritsu	MA24106A	USB Power Sensor	7/7/2021	Annual	7/7/2022	1244512
Control Company	4353	Long Stem Thermometer	10/28/2020	Biennial	10/28/2022	200670623
Control Company	4353	Long Stem Thermometer	10/28/2020	Biennial	10/28/2022	200670633
Control Company	4353	Long Stem Thermometer	10/28/2020	Biennial	10/28/2022	200670635
Control Company	4040	Therm./ Clock/ Humidity Monitor	2/28/2018	Biennial	CBT	170151872
Control Company	4040	Therm./ Clock/ Humidity Monitor	2/28/2018	Biennial	CBT	170151893
Mitutoyo	500-196-30	CD-6" ASX Ginch Digital Caliper	2/16/2022	Triennial	2/16/2025	A20238413
Keysight Technologies	NB7058	DC Power Analyzer	5/2/2021	Triennial	5/2/2024	MY13004059
Keysight Technologies	N9020A	N9020A Signal Analyzer	6/14/2022	Annual	6/14/2023	MY48010233
MCCL	BW-N6W5+	6dB Attenuator	CBT	N/A	CBT	1139
Mini-Circuits	VLF-6000+	Low Pass Filter DC to 6000 MHz	7/6/2021	Annual	7/6/2022	31634
Mini-Circuits	VLF-6000+	Low Pass Filter DC to 6000 MHz	CBT	N/A	CBT	N/A
Mini-Circuits	BW-N20W5+	DC to 18 GHz Precision Fixed 20 dB Attenuator	CBT	N/A	CBT	N/A
Mini-Circuits	NLP-1200+	Low Pass Filter DC to 1200 MHz	CBT	N/A	CBT	N/A
Mini-Circuits	NLP-2950+	Low Pass Filter DC to 2700 MHz	CBT	N/A	CBT	N/A
Mini-Circuits	BW-N20W5	Power Attenuator	CBT	N/A	CBT	1226
Mini-Circuits	ZUDC10-83-5+	Directional Coupler	CBT	N/A	CBT	2050
Mini-Circuits	ZUDC10-83-5+	Directional Coupler	9/15/2021	Annual	9/15/2022	2111
Narda	4772-3	Attenuator (3dB)	CBT	N/A	CBT	9406
Narda	BW-53W2	Attenuator (3dB)	CBT	N/A	CBT	120
Seokonk	TSF-100	Torque Wrench	7/6/2021	Annual	7/6/2022	47639-29
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	4/18/2022	Annual	4/18/2023	128633
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	3/29/2022	Annual	3/29/2023	127075
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	4/8/2022	Annual	4/8/2023	103225
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	4/7/2022	Annual	4/7/2023	167283
SPEAG	DAK-3.5	Dielectric Assessment Kit	1/6/2022	Annual	1/6/2023	1278
SPEAG	DAK-3.5	Dielectric Assessment Kit	10/20/2021	Annual	10/20/2022	1091
SPEAG	DAK5-1.5	Portable Dielectric Assessment Kit	8/18/2021	Annual	8/18/2022	1041
SPEAG	DAK5-1.5	Portable Dielectric Assessment Kit	7/15/2021	Annual	7/15/2022	1041
SPEAG	MAIA	Modulation and Audio Interference Analyzer	N/A	N/A	N/A	1379
SPEAG	CLA13	13 MHz SAR Dipole	9/16/2021	Annual	9/16/2022	1002
SPEAG	D750V3	750 MHz SAR Dipole	5/11/2021	Annual	5/11/2022	1034
SPEAG	D750V3	750 MHz SAR Dipole	3/14/2022	Annual	3/14/2023	1054
SPEAG	D750V3	750 MHz SAR Dipole	2/14/2022	Annual	2/14/2023	1046
SPEAG	D750V3	750 MHz SAR Dipole	10/19/2021	Annual	10/19/2022	1161
SPEAG	D835V2	835 MHz SAR Dipole	5/11/2021	Annual	5/9/2022	44180
SPEAG	D835V2	835 MHz SAR Dipole	3/14/2022	Annual	3/14/2023	44047
SPEAG	D835V2	835 MHz SAR Dipole	4/14/2022	Annual	4/14/2023	44135
SPEAG	D835V2	835 MHz SAR Dipole	10/19/2021	Annual	10/19/2022	44133
SPEAG	D1750V2	1750 MHz SAR Dipole	5/14/2021	Biennial	5/14/2023	1008
SPEAG	D1750V2	1750 MHz SAR Dipole	10/22/2021	Annual	10/22/2022	1150
SPEAG	D1900V2	1900 MHz SAR Dipole	9/21/2021	Annual	9/21/2022	54149
SPEAG	D1900V2	1900 MHz SAR Dipole	10/23/2021	Annual	10/23/2022	54080
SPEAG	D1900V2	1900 MHz SAR Dipole	2/21/2022	Annual	2/21/2023	54148
SPEAG	D2300V2	2300 MHz SAR Dipole	6/3/2022	Annual	6/3/2022	1116
SPEAG	D3900V2	3900 MHz SAR Dipole	6/10/2021	Annual	6/10/2022	1073
SPEAG	D2450V2	2450 MHz SAR Dipole	8/18/2021	Annual	8/18/2022	719
SPEAG	D2450V2	2450 MHz SAR Dipole	9/20/2020	Biennial	9/20/2022	797
SPEAG	D2450V2	2450 MHz SAR Dipole	11/25/2021	Annual	11/25/2022	981
SPEAG	D2600V2	2600 MHz SAR Dipole	4/14/2021	Biennial	4/14/2023	1004
SPEAG	D2600V2	2600 MHz SAR Dipole	6/14/2019	Triennial	6/14/2022	1064
SPEAG	D3500V2	3500 MHz SAR Dipole	1/19/2021	Biennial	1/19/2023	1059
SPEAG	D3500V2	3500 MHz SAR Dipole	1/21/2020	Triennial	1/21/2023	1097
SPEAG	D3700V2	3700 MHz SAR Dipole	1/21/2020	Triennial	1/21/2023	1067
SPEAG	D3700V2	3700 MHz SAR Dipole	1/19/2021	Biennial	1/19/2023	1018
SPEAG	D3900V2	3900 MHz SAR Dipole	10/9/2020	Biennial	10/9/2022	1056
SPEAG	D3900V2	3900 MHz SAR Dipole	6/10/2021	Annual	6/10/2022	1073
SPEAG	D5GHV2	5 GHz SAR Dipole	1/10/2022	Annual	1/10/2023	1057
SPEAG	DAE4	Dasy Data Acquisition Electronics	3/14/2022	Annual	3/14/2023	1652
SPEAG	DAE4	Dasy Data Acquisition Electronics	8/3/2021	Annual	8/3/2022	1661
SPEAG	DAE4	Dasy Data Acquisition Electronics	12/8/2021	Annual	12/8/2022	859
SPEAG	DAE4	Dasy Data Acquisition Electronics	5/10/2022	Annual	5/10/2023	728
SPEAG	DAE4	Dasy Data Acquisition Electronics	11/10/2021	Annual	11/10/2022	1323
SPEAG	DAE4	Dasy Data Acquisition Electronics	3/16/2022	Annual	3/16/2023	1272
SPEAG	DAE4	Dasy Data Acquisition Electronics	7/19/2021	Annual	7/19/2022	1583
SPEAG	DAE4	Dasy Data Acquisition Electronics	1/14/2022	Annual	1/14/2023	1558
SPEAG	DAE4	Dasy Data Acquisition Electronics	9/13/2021	Annual	9/13/2022	1364
SPEAG	DAE4	Dasy Data Acquisition Electronics	8/16/2021	Annual	8/16/2022	1450
SPEAG	DAE4	Dasy Data Acquisition Electronics	6/15/2021	Annual	6/15/2022	1532
SPEAG	DAE4	Dasy Data Acquisition Electronics	6/21/2021	Annual	6/21/2022	1676
SPEAG	DAE4	Dasy Data Acquisition Electronics	6/15/2021	Annual	6/15/2022	1334
SPEAG	DAE4	Dasy Data Acquisition Electronics	2/22/2022	Annual	2/22/2023	665
SPEAG	DAE4	Dasy Data Acquisition Electronics	8/4/2021	Annual	8/4/2022	1680
SPEAG	DAE4	Dasy Data Acquisition Electronics	4/13/2022	Annual	4/13/2023	1407
SPEAG	EX3DV4	SAR Probe	3/22/2022	Annual	3/22/2023	7637
SPEAG	EX3DV4	SAR Probe	8/5/2021	Annual	8/5/2022	7670
SPEAG	EX3DV4	SAR Probe	1/10/2022	Annual	1/10/2023	7571
SPEAG	EX3DV4	SAR Probe	5/18/2021	Annual	5/17/2022	7514
SPEAG	EX3DV4	SAR Probe	11/16/2021	Annual	11/16/2022	7538
SPEAG	EX3DV4	SAR Probe	3/21/2022	Annual	3/21/2023	7527
SPEAG	EX3DV4	SAR Probe	7/20/2021	Annual	7/20/2022	7410
SPEAG	EX3DV4	SAR Probe	1/19/2022	Annual	1/19/2023	7570
SPEAG	EX3DV4	SAR Probe	9/17/2021	Annual	9/17/2022	7558
SPEAG	EX3DV4	SAR Probe	6/28/2021	Annual	6/28/2022	7661
SPEAG	EX3DV4	SAR Probe	6/21/2021	Annual	6/21/2022	7491
SPEAG	EX3DV4	SAR Probe	7/20/2021	Annual	7/20/2022	7406
SPEAG	EX3DV4	SAR Probe	6/21/2021	Annual	6/21/2022	7429
SPEAG	EX3DV4	SAR Probe	2/22/2022	Annual	2/22/2023	7417
SPEAG	EX3DV4	SAR Probe	9/20/2021	Annual	9/20/2022	7552
SPEAG	EX3DV4	SAR Probe	4/20/2022	Annual	4/20/2023	7659

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

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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	191
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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