



# ELEMENT MATERIALS TECHNOLOGY

(formerly PCTEST)

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## SAR EVALUATION REPORT

**Applicant Name:**  
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Gyeonggi-do, 16677, Korea

**Date of Testing:**  
03/30/23 – 06/15/23  
**Test Site/Location:**  
Element, Columbia, MD, USA  
**Document Serial No.:**  
1M2303170032-19-R1.A3L

**FCC ID:** A3LSMF731B

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

**DUT Type:** Portable Handset  
**Application Type:** Certification  
**FCC Rule Part(s):** CFR §2.1093  
**Model(s):** SM-F731B

Equipment Class	Band & Mode	Tx Frequency	SAR			
			1g Head (W/kg)	1g Body-Worn (W/kg)	1g Hotspot (W/kg)	10g Phablet (W/kg)
PCE	GSMGPRS/EDGE 850	824.20 - 848.80 MHz	0.21	0.43	0.78	N/A
PCE	GSMGPRS/EDGE 1900	1850.20 - 1909.80 MHz	< 0.1	0.19	0.77	N/A
PCE	UMTS 850	826.40 - 846.60 MHz	0.20	0.46	0.81	N/A
PCE	UMTS 1750	1712.4 - 1752.6 MHz	< 0.1	0.25	0.50	2.16
PCE	UMTS 1900	1852.4 - 1907.6 MHz	< 0.1	0.39	0.38	2.68
PCE	LTE Band 12	699.7 - 715.3 MHz	0.26	0.42	0.65	N/A
PCE	LTE Band 17	706.5 - 713.5 MHz	N/A	N/A	N/A	N/A
PCE	LTE Band 13	779.5 - 794.5 MHz	0.31	0.45	1.05	N/A
PCE	LTE Band 26 (Cell)	814.7 - 848.3 MHz	0.34	0.36	0.95	N/A
PCE	LTE Band 5 (Cell)	824.7 - 848.3 MHz	N/A	N/A	N/A	N/A
PCE	LTE Band 66 (AWS)	1710.7 - 1779.3 MHz	< 0.1	0.35	0.77	3.01
PCE	LTE Band 4 (AWS)	1710.7 - 1754.3 MHz	1.05	N/A	N/A	N/A
PCE	LTE Band 25 (PCS)	1850.7 - 1914.3 MHz	< 0.1	0.38	0.97	2.79
PCE	LTE Band 2 (PCS)	1850.7 - 1909.3 MHz	0.84	N/A	N/A	N/A
PCE	LTE Band 41	2496.5 - 2697.5 MHz	< 0.1	0.24	0.94	1.67
PCE	NR Band n5	826.5 - 846.5 MHz	0.14	0.39	1.00	N/A
PCE	NR Band n66	1712.5 - 1777.5 MHz	0.71	0.28	0.53	2.41
PCE	NR Band n25	1852.5 - 1912.5 MHz	0.77	0.40	1.01	3.03
PCE	NR Band n2	1852.5 - 1907.5 MHz	N/A	N/A	N/A	N/A
PCE	NR Band n41	2501.01 - 2685 MHz	0.88	0.22	0.86	2.03
PCE	NR Band n77	3455.01 - 3544.99 MHz 3705 - 3975 MHz	0.72	0.26	0.56	1.95
DTS	2.4 GHz WLAN	2412 - 2472 MHz	0.27	< 0.1	0.32	N/A
NI	U-NII-1	5180 - 5240 MHz	N/A	N/A	N/A	N/A
NI	U-NII-2A	5260 - 5320 MHz	0.75*	0.26*	N/A	0.64*
NI	U-NII-2C	5500 - 5720 MHz	0.72*	0.2*	N/A	0.92*
NI	U-NII-3	5745 - 5825 MHz	0.86*	0.13*	0.42*	N/A
NI	U-NII-4	5845 - 5885 MHz	0.94*	0.12*	N/A	0.76*
DSS/DTS	Bluetooth	2402 - 2480 MHz	0.74	< 0.1	0.20	0.64
DXC	NFC	13.56 MHz	N/A	N/A	N/A	< 0.1
Simultaneous SAR per KDB 690783 D01v01r03:			1.05	0.46	1.05	3.03

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

Note: This revised Test Report (S/N: 1M2303170032-19-R1.A3L) 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 12	Voice/Data	699.7 - 715.3 MHz
LTE Band 17	Voice/Data	706.5 - 713.5 MHz
LTE Band 13	Voice/Data	779.5 - 784.5 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 41	Voice/Data	2498.5 - 2687.5 MHz
NR Band n5	Voice/Data	826.5 - 846.5 MHz
NR Band n66	Voice/Data	1712.5 - 1777.5 MHz
NR Band n25	Voice/Data	1852.5 - 1912.5 MHz
NR Band n2	Voice/Data	1852.5 - 1907.5 MHz
NR Band n41	Voice/Data	2501.01 - 2685 MHz
NR Band n77	Voice/Data	3455.01 - 3544.98 MHz 3705 - 3975 MHz
2.4 GHz WLAN	Voice/Data	2412 - 2472 MHz
U-NII-1	Voice/Data	5180 - 5240 MHz
U-NII-2A	Voice/Data	5260 - 5320 MHz
U-NII-2C	Voice/Data	5500 - 5720 MHz
U-NII-3	Voice/Data	5745 - 5825 MHz
U-NII-4	Voice/Data	5845 - 5885 MHz
U-NII-5	Voice/Data	5935 - 6415 MHz
U-NII-6	Voice/Data	6435 - 6515 MHz
U-NII-7	Voice/Data	6535 - 6875 MHz
U-NII-8	Voice/Data	6895 - 7115 MHz
Bluetooth	Data	2402 - 2480 MHz
NFC	Data	13.56 MHz

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## 1.2 Time-Averaging Algorithm for RF Exposure Compliance

This Device is enabled with the Qualcomm® Smart Transmit Gen2 feature with no antenna grouping. 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).

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 WWAN sub-6/WLAN/BT 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 WWAN sub-6/WLAN/BT 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 WWAN sub-6/WLAN/BT is 1.0dB for this EUT.

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Exposure Scenario		Maximum Tune-Up Output Power*	Body-Worn	Phablet	Head	Hotspot	Earjack
Averaging Volume			1g	10g	1g	1g	1g/10g
Spacing			15 mm	0 mm	0 mm	10 mm, 5 mm	15 mm, 0 mm
DSI			0	0	2	3	4
Technology/Band	Antenna	Pmax					
GSM 850	A	25.3	29.0		32.2	22.8	29.0
GSM 1900	A	22.1	19.8		38.5	19.8	19.8
UMTS 850	A	25.0	29.4		24.0	23.0	29.4
UMTS 1750	A	25.0	21.0		23.5	19.0	21.0
UMTS 1900	A	25.0	23.0		23.5	18.0	23.0
LTE Band 12	A	25.0	23.0		31.9	23.0	23.0
LTE Band 17	A	24.5	23.0		31.9	23.0	23.0
LTE Band 13	A	25.0	23.0		31.0	23.0	23.0
LTE Band 26/5 (Cell)	A	25.0	29.7		30.7	24.0	29.7
LTE Band 66 (AWS)	A	25.0	21.5		38.1	19.5	21.5
LTE Band 66 (AWS)	I	25.0	21.0		N/A	17.5	21.0
LTE Band 4 (AWS)	A	25.0	21.3		38.1	19.3	21.3
LTE Band 4 (AWS)	I	24.0	20.5		17.5	17.5	20.5
LTE Band 25/2 (PCS)	A	25.0	22.0		37.5	18.5	22.0
LTE Band 25 (PCS)	I	25.0	21.0		N/A	15.5	21.0
LTE Band 2 (PCS)	I	24.0	21.0		14.5	15.5	21.0
LTE Band 41 (PC3)	B	23.0	24.5		36.4	19.0	24.5
LTE Band 41 (PC2)	B	22.7	24.5		36.4	19.0	24.5
LTE Band 41 (PC3)	I	23.0	20.5		N/A	18.5	20.5
LTE Band 41 (PC2)	I	22.7	20.5		N/A	18.5	20.5
NR Band n5	A	24.6	29.0		31.8	24.0	29.0
NR Band n66	A	24.5	20.5		36.9	18.5	20.5
NR Band n66	I	24.7	21.0		17.0	17.5	21.0
NR Band n25/n2 (PCS)	A	24.3	22.0		38.5	18.5	22.0
NR Band n25/n2 (PCS)	I	24.0	21.0		14.5	15.5	21.0
NR Band n41	I	24.9	20.5		13.5	18.5	20.5
NR Band n41	B	22.5	20.0		12.5	17.5	20.0
NR Band n41	F	19.0	5.0		5.0	5.0	5.0
NR Band n41	C	17.0	10.5		10.5	10.5	10.5
NR Band n77	F	24.4	16.5		12.5	14.0	16.5
NR Band n77	I	22.5	14.5		10.0	11.5	14.5
NR Band n77	E	23.0	14.5		10.5	12.0	14.5
NR Band n77	C	22.0	13.0		9.0	10.5	13.0
2.4 GHz WLAN	2	18.0	23.0		11.0	23.0	23.0
2.4 GHz WLAN	MIMO	18.0	21.2		8.0	21.2	21.2
5 GHz WLAN	MIMO	15.0	20.3		16.3	19.8	20.3
2.4 GHz Bluetooth	1	15.3	21.1		18.7	21.1	21.1
2.4 GHz Bluetooth	2	16.9	21.9		15.4	N/A	21.9

\*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, GMSK, or OFDM modulation schemes (e.g. GSM, LTE TDD and WLAN/BT).

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

The maximum time-averaged output power (dBm) for any WWAN sub-6/WLAN/BT technology, band, and DSI is the minimum of (" $P_{limit}$  EFS" and "Maximum tune up output power  $P_{max}$ ") + 1dB device uncertainty. SAR values in this report were scaled to this maximum time-averaged output power to determine compliance per KDB Publication 447498 D01v06.

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

All MIMO Pmax and Plimit are defined per antenna chain.

SARCHAR for WIFI 6 GHz can be found in the WIFI 6 GHz RF Exposure Report (report SN can be found in Section 1.11 – Bibliography)

**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 Nominal and Maximum Output Power Specifications

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

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

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### 1.3.1 WWAN Output Power

GSM/GPRS/EDGE 850										
Power Level		Voice (in dBm)	Data - Burst Average GMSK (in dBm)				Data - Burst Average 8-PSK (in dBm)			
		1 TX Slot	1 TX Slots	2 TX Slots	3 TX Slots	4 TX Slots	1 TX Slots	2 TX Slots	3 TX Slots	4 TX Slots
Pmax	Max Allowed Power	34.5	34.5	32.5	30.5	28.5	28.0	26.0	24.0	23.0
	Nominal	33.5	33.5	31.5	29.5	27.5	27.0	25.0	23.0	22.0
DSI = 0 (Body-Worn or Phablet)	Max Allowed Power	34.5	34.5	32.5	30.5	28.5	28.0	26.0	24.0	23.0
	Nominal	33.5	33.5	31.5	29.5	27.5	27.0	25.0	23.0	22.0
DSI = 2 (Head)	Max Allowed Power	34.5	34.5	32.5	30.5	28.5	28.0	26.0	24.0	23.0
	Nominal	33.5	33.5	31.5	29.5	27.5	27.0	25.0	23.0	22.0
DSI = 3 (Hotspot)	Max Allowed Power	N/A	33.0	30.0	28.2	27.0	28.0	26.0	24.0	23.0
	Nominal	N/A	32.0	29.0	27.2	26.0	27.0	25.0	23.0	22.0
DSI = 4 (Earjack)	Max Allowed Power	34.5	34.5	32.5	30.5	28.5	28.0	26.0	24.0	23.0
	Nominal	33.5	33.5	31.5	29.5	27.5	27.0	25.0	23.0	22.0
GSM/GPRS/EDGE 1900										
Power Level		Voice (in dBm)	Data - Burst Average GMSK (in dBm)				Data - Burst Average 8-PSK (in dBm)			
		1 TX Slot	1 TX Slots	2 TX Slots	3 TX Slots	4 TX Slots	1 TX Slots	2 TX Slots	3 TX Slots	4 TX Slots
Pmax	Max Allowed Power	32.0	32.0	29.0	27.5	25.5	27.0	25.0	23.0	22.0
	Nominal	31.0	31.0	28.0	26.5	24.5	26.0	24.0	22.0	21.0
DSI = 0 (Body-Worn or Phablet)	Max Allowed Power	30.0	30.0	27.0	25.2	24.0	27.0	25.0	23.0	22.0
	Nominal	29.0	29.0	26.0	24.2	23.0	26.0	24.0	22.0	21.0
DSI = 2 (Head)	Max Allowed Power	32.0	32.0	29.0	27.5	25.5	27.0	25.0	23.0	22.0
	Nominal	31.0	31.0	28.0	26.5	24.5	26.0	24.0	22.0	21.0
DSI = 3 (Hotspot)	Max Allowed Power	N/A	30.0	27.0	25.2	24.0	27.0	25.0	23.0	22.0
	Nominal	N/A	29.0	26.0	24.2	23.0	26.0	24.0	22.0	21.0
DSI = 4 (Earjack)	Max Allowed Power	30.0	30.0	27.0	25.2	24.0	27.0	25.0	23.0	22.0
	Nominal	29.0	29.0	26.0	24.2	23.0	26.0	24.0	22.0	21.0

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

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<b>Antenna A</b>					
<b>UMTS Band 5 (850 MHz)</b>					
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	26.0	25.0	25.0	25.0
	Nominal	25.0	24.0	24.0	24.0
DSI = 0 (Body-Worn or Phablet)	Max Allowed Power	26.0	25.0	25.0	25.0
	Nominal	25.0	24.0	24.0	24.0
DSI = 2 (Head)	Max Allowed Power	25.0	24.0	24.0	24.0
	Nominal	24.0	23.0	23.0	23.0
DSI = 3 (Hotspot)	Max Allowed Power	24.0	23.0	23.0	23.0
	Nominal	23.0	22.0	22.0	22.0
DSI = 4 (Earjack)	Max Allowed Power	26.0	25.0	25.0	25.0
	Nominal	25.0	24.0	24.0	24.0
<b>UMTS Band 4 (1750 MHz)</b>					
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	26.0	25.0	25.0	25.0
	Nominal	25.0	24.0	24.0	24.0
DSI = 0 (Body-Worn or Phablet)	Max Allowed Power	22.0	21.0	21.0	21.0
	Nominal	21.0	20.0	20.0	20.0
DSI = 2 (Head)	Max Allowed Power	24.5	23.5	23.5	23.5
	Nominal	23.5	22.5	22.5	22.5
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
<b>UMTS Band 2 (1900 MHz)</b>					
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	26.0	25.0	25.0	25.0
	Nominal	25.0	24.0	24.0	24.0
DSI = 0 (Body-Worn or Phablet)	Max Allowed Power	24.0	23.0	23.0	23.0
	Nominal	23.0	22.0	22.0	22.0
DSI = 2 (Head)	Max Allowed Power	24.5	23.5	23.5	23.5
	Nominal	23.5	22.5	22.5	22.5
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	24.0	23.0	23.0	23.0
	Nominal	23.0	22.0	22.0	22.0

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Mode / Band	Antenna		Modulated Average Output Power (in dBm)				
			Pmax	DSI = 0 (Body-Worn or Phablet)	DSI = 2 (Head)	DSI = 3 (Hotspot)	DSI = 4 (Earjack)
LTE Band 12	A	Max Allowed Power	26.0	24.0	26.0	24.0	24.0
		Nominal	25.0	23.0	25.0	23.0	23.0
LTE Band 17	A	Max Allowed Power	25.5	24.0	25.5	24.0	24.0
		Nominal	24.5	23.0	24.5	23.0	23.0
LTE Band 13	A	Max Allowed Power	26.0	24.0	26.0	24.0	24.0
		Nominal	25.0	23.0	25.0	23.0	23.0
LTE Band 26 (Cell)	A	Max Allowed Power	26.0	26.0	26.0	25.0	26.0
		Nominal	25.0	25.0	25.0	24.0	25.0
LTE Band 5 (Cell)	A	Max Allowed Power	26.0	26.0	26.0	25.0	26.0
		Nominal	25.0	25.0	25.0	24.0	25.0
LTE Band 66 (AWS)	A	Max Allowed Power	26.0	22.5	26.0	20.5	22.5
		Nominal	25.0	21.5	25.0	19.5	21.5
LTE Band 66 (AWS)	I	Max Allowed Power	26.0	22.0	N/A	18.5	22.0
		Nominal	25.0	21.0	N/A	17.5	21.0
LTE Band 4 (AWS)	A	Max Allowed Power	26.0	22.3	26.0	20.3	22.3
		Nominal	25.0	21.3	25.0	19.3	21.3
LTE Band 4 (AWS)	I	Max Allowed Power	25.0	21.5	18.5	18.5	21.5
		Nominal	24.0	20.5	17.5	17.5	20.5
LTE Band 25 (PCS)	A	Max Allowed Power	26.0	23.0	26.0	19.5	23.0
		Nominal	25.0	22.0	25.0	18.5	22.0
LTE Band 25 (PCS)	I	Max Allowed Power	26.0	22.0	N/A	16.5	22.0
		Nominal	25.0	21.0	N/A	15.5	21.0
LTE Band 2 (PCS)	A	Max Allowed Power	26.0	23.0	26.0	19.5	23.0
		Nominal	25.0	22.0	25.0	18.5	22.0
LTE Band 2 (PCS)	I	Max Allowed Power	25.0	22.0	15.5	16.5	22.0
		Nominal	24.0	21.0	14.5	15.5	21.0
LTE Band 41 (PC3)	B	Max Allowed Power	26.0	26.0	26.0	22.0	26.0
		Nominal	25.0	25.0	25.0	21.0	25.0
LTE Band 41 (PC2)	B	Max Allowed Power	27.3	27.3	27.3	23.6	27.3
		Nominal	26.3	26.3	26.3	22.6	26.3
LTE Band 41 (PC3)	I	Max Allowed Power	26.0	23.5	N/A	21.5	23.5
		Nominal	25.0	22.5	N/A	20.5	22.5
LTE Band 41 (PC2)	I	Max Allowed Power	27.3	25.1	N/A	23.1	25.1
		Nominal	26.3	24.1	N/A	22.1	24.1

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Mode / Band	Antenna		Modulated Average Output Power (in dBm)				
			Pmax	DSI = 0 (Body-Worn or Phablet)	DSI = 2 (Head)	DSI = 3 (Hotspot)	DSI = 4 (Earjack)
NR Band n5	A	Max Allowed Power	25.6	25.6	25.6	25.0	25.6
		Nominal	24.6	24.6	24.6	24.0	24.6
NR Band n66	A	Max Allowed Power	25.5	21.5	25.5	19.5	21.5
		Nominal	24.5	20.5	24.5	18.5	20.5
NR Band n66	I	Max Allowed Power	25.7	22.0	18.0	18.5	22.0
		Nominal	24.7	21.0	17.0	17.5	21.0
NR Band n25	A	Max Allowed Power	25.3	23.0	25.3	19.5	23.0
		Nominal	24.3	22.0	24.3	18.5	22.0
NR Band n25	I	Max Allowed Power	25.0	22.0	15.5	16.5	22.0
		Nominal	24.0	21.0	14.5	15.5	21.0
NR Band n2 (PCS)	A	Max Allowed Power	25.3	23.0	25.3	19.5	23.0
		Nominal	24.3	22.0	24.3	18.5	22.0
NR Band n2 (PCS)	I	Max Allowed Power	25.0	22.0	15.5	16.5	22.0
		Nominal	24.0	21.0	14.5	15.5	21.0
NR Band n41	I	Max Allowed Power	25.9	21.5	14.5	19.5	21.5
		Nominal	24.9	20.5	13.5	18.5	20.5
NR Band n41	B	Max Allowed Power	23.5	21.0	13.5	18.5	21.0
		Nominal	22.5	20.0	12.5	17.5	20.0
NR Band n41	F	Max Allowed Power	20.0	6.0	6.0	6.0	6.0
		Nominal	19.0	5.0	5.0	5.0	5.0
NR Band n41	C	Max Allowed Power	18.0	11.5	11.5	11.5	11.5
		Nominal	17.0	10.5	10.5	10.5	10.5
NR Band n77	F	Max Allowed Power	25.4	17.5	13.5	15.0	17.5
		Nominal	24.4	16.5	12.5	14.0	16.5
NR Band n77	I	Max Allowed Power	23.5	15.5	11.0	12.5	15.5
		Nominal	22.5	14.5	10.0	11.5	14.5
NR Band n77	E	Max Allowed Power	24.0	15.5	11.5	13.0	15.5
		Nominal	23.0	14.5	10.5	12.0	14.5
NR Band n77	C	Max Allowed Power	23.0	14.0	10.0	11.5	14.0
		Nominal	22.0	13.0	9.0	10.5	13.0

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

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### 1.3.2 2.4 GHz SISO/MIMO WLAN Output Power

The below table is applicable is applicable in the following conditions:

- Pmax, DSI=0 (Body-worn or Phablet), DSI=3 (Hotspot), and/or DSI=4 (Earjack)

Mode	Band	IEEE 802.11 Modulated Output Power (in dBm)																			
		SISO										MIMO									
		Antenna 2										Antenna 1 & Antenna 2 in MIMO									
Maximum / Nominal Power	b		g		n		ac		ax (SU)		b CDD + STBC		g (CDD + STBC)		n (CDD+STBC, SDM)		ac (CDD+STBC, SDM)		ax (SU) (CDD+STBC, SDM)		
	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	
2.4 GHz WIFI	2.45 GHz	19.0	18.0	18.0	17.0	18.0	17.0	17.0	16.0	17.0	16.0	19.0	18.0	18.0	17.0	18.0	17.0	17.0	16.0	17.0	16.0
		ch. 12: 6.0 ch. 13: 0.0	5.0 -1.0	ch. 12: 6.0 ch. 13: 0.0	5.0 -1.0	ch. 12: 6.0 ch. 13: 0.0	5.0 -1.0	ch. 12: 6.0 ch. 13: 0.0	5.0 -1.0	ch. 12: 6.0 ch. 13: 0.0	5.0 -1.0	ch. 12: 6.0 ch. 13: 0.0	5.0 -1.0	ch. 12: 6.0 ch. 13: 0.0	5.0 -1.0	ch. 12: 6.0 ch. 13: 0.0	5.0 -1.0	ch. 12: 6.0 ch. 13: 0.0	5.0 -1.0	ch. 12: 6.0 ch. 13: 0.0	5.0 -1.0

(Upper tolerance: Target +1.0 dB)

The below table is applicable is applicable in the following conditions:

- DSI=2 (RCV)

Mode	Band	IEEE 802.11 Modulated Output Power (in dBm)																			
		SISO										MIMO									
		Antenna 2										Antenna 1 & Antenna 2 in MIMO									
Maximum / Nominal Power	b		g		n		ac		ax (SU)		b CDD + STBC		g (CDD + STBC)		n (CDD+STBC, SDM)		ac (CDD+STBC, SDM)		ax (SU) (CDD+STBC, SDM)		
	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	
2.4 GHz WIFI	2.45 GHz	12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0	9.0	8.0	9.0	8.0	9.0	8.0	9.0	8.0	9.0	8.0
		ch. 12: 6.0 ch. 13: 0.0	5.0 -1.0	ch. 12: 6.0 ch. 13: 0.0	5.0 -1.0	ch. 12: 6.0 ch. 13: 0.0	5.0 -1.0	ch. 12: 6.0 ch. 13: 0.0	5.0 -1.0	ch. 12: 6.0 ch. 13: 0.0	5.0 -1.0	ch. 12: 6.0 ch. 13: 0.0	5.0 -1.0	ch. 12: 6.0 ch. 13: 0.0	5.0 -1.0	ch. 12: 6.0 ch. 13: 0.0	5.0 -1.0	ch. 12: 6.0 ch. 13: 0.0	5.0 -1.0	ch. 12: 6.0 ch. 13: 0.0	5.0 -1.0

(Upper tolerance: Target +1.0 dB)

### 1.3.3 5 GHz MIMO WLAN Output Power

The below table is applicable is applicable in the following conditions:

- Pmax, DSI=0 (Body-worn or Phablet), DSI=2(RCV), DSI=3 (Hotspot), and/or DSI=4 (Earjack)

Mode	IEEE 802.11 Modulated Output Power (in dBm)							
	MIMO							
	Antenna 1 & Antenna 2 in MIMO							
Maximum / Nominal Power	a (CDD + STBC)		n (CDD+STBC, SDM)		ac (CDD+STBC, SDM)		ax (SU) (CDD+STBC, SDM)	
	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.
5 GHz WIFI (20MHz BW)	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0
5 GHz WIFI (40MHz BW)			15.0	14.0	15.0	14.0	15.0	14.0
5 GHz WIFI (80MHz BW)					14.0	13.0	14.0	13.0
5 GHz WIFI (160MHz BW)					13.0	12.0	13.0	12.0

(Upper tolerance: Target +1.0 dB)

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### 1.3.4 2.4 GHz Maximum Bluetooth Output Power

The below table is applicable is applicable in the following conditions:

- Pmax, DSI=0 (Body-worn or Phablet), and/or DSI=4 (Earjack)

Mode	Data Rate	Modulated Output Power (in dBm)			
		Single Antenna			
		Antenna 1		Antenna 2	
Maximum / Nominal Power		Max	Nom.	Max	Nom.
Bluetooth	1Mbps	16.5	15.5	17.0	16.0
Bluetooth EDR	2Mbps	13.5	12.5	14.5	13.5
Bluetooth EDR	3Mbps	13.5	12.5	14.5	13.5
Bluetooth LE	1Mbps	17.0	16.0	18.5	17.5
Bluetooth LE	2Mbps	17.0	16.0	18.5	17.5
Bluetooth LE	125kbps	7.5	6.5	8.0	7.0
Bluetooth LE	500kbps	7.5	6.5	8.0	7.0

(Upper tolerance: Target +1.0 dB)

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The below table is applicable is applicable in the following conditions:

- DSI=2 (RCV)

Mode	Data Rate	Modulated Output Power (in dBm)			
		Single Antenna			
		Antenna 1		Antenna 2	
Maximum / Nominal Power		Max	Nom.	Max	Nom.
Bluetooth	1Mbps	16.5	15.5	17.0	16.0
Bluetooth EDR	2Mbps	13.5	12.5	14.5	13.5
Bluetooth EDR	3Mbps	13.5	12.5	14.5	13.5
Bluetooth LE	1Mbps	17.0	16.0	17.0	16.0
Bluetooth LE	2Mbps	17.0	16.0	17.5	16.5
Bluetooth LE	125kbps	7.5	6.5	8.0	7.0
Bluetooth LE	500kbps	7.5	6.5	8.0	7.0

(Upper tolerance: Target +1.0 dB)

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The below table is applicable in the following conditions:

- DSI=3 (Hotspot)

Mode	Data Rate	Modulated Output Power (in dBm)			
		Single Antenna			
		Antenna 1		Antenna 2	
Maximum / Nominal Power		Max	Nom.	Max	Nom.
Bluetooth	1Mbps	16.5	15.5	N/A	N/A
Bluetooth EDR	2Mbps	13.5	12.5	N/A	N/A
Bluetooth EDR	3Mbps	13.5	12.5	N/A	N/A
Bluetooth LE	1Mbps	17.0	16.0	N/A	N/A
Bluetooth LE	2Mbps	17.0	16.0	N/A	N/A
Bluetooth LE	125kbps	7.5	6.5	N/A	N/A
Bluetooth LE	500kbps	7.5	6.5	N/A	N/A

(Upper tolerance: Target +1.0 dB)

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## 1.4 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 Closed Configuration SAR Testing**

Antenna	Back	Front	Top	Bottom	Right	Left
A	Yes	Yes	No	Yes	Yes	Yes
B	Yes	Yes	No	Yes	No	Yes
C	Yes	Yes	Yes	Yes	No	Yes
E	Yes	Yes	Yes	Yes	No	Yes
F	Yes	Yes	No	Yes	No	Yes
H	Yes	Yes	No	Yes	Yes	No
I	Yes	Yes	Yes	Yes	Yes	No

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

Antenna	Back	Front	Top	Bottom	Right	Left
A	Yes	Yes	No	Yes	Yes	Yes
B	Yes	Yes	No	Yes	No	Yes
C	Yes	Yes	No	Yes	No	Yes
E	Yes	Yes	Yes	No	No	Yes
F	Yes	Yes	Yes	No	No	Yes
H	Yes	Yes	Yes	No	Yes	No
I	Yes	Yes	Yes	No	Yes	No

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, and WIFI6E operations are disabled.

## 1.5 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.

## 1.6 Simultaneous Transmission Capabilities

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

This device contains multiple transmitters that may operate simultaneously, and therefore requires a simultaneous transmission analysis according to FCC KDB Publication 447498 D01v06 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 MIMO	Yes	Yes	N/A	Yes	
3	GSM voice + 6 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
4	GSM voice + 2.4 GHz Bluetooth Ant 1	Yes	Yes	N/A	Yes	
5	GSM voice + 2.4 GHz Bluetooth Ant 2	Yes	Yes	N/A	Yes	
6	GSM voice + 2.4 GHz WLAN MIMO + 5 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
7	GSM voice + 2.4 GHz WLAN MIMO + 6 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
8	GSM voice + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 2	Yes	Yes	N/A	Yes	
9	GSM voice + 2.4 GHz Bluetooth Ant 1 + 5 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
10	GSM voice + 2.4 GHz Bluetooth Ant 1 + 6 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
11	GSM voice + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 2 + 5 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
12	GSM voice + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 2 + 6 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
13	GSM voice + 2.4 GHz Bluetooth Ant 2 + 5 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
14	GSM voice + 2.4 GHz Bluetooth Ant 2 + 6 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
15	UMTS + 2.4 GHz WLAN MIMO	Yes	Yes	Yes	Yes	
16	UMTS + 5 GHz WLAN MIMO	Yes	Yes	Yes	Yes	
17	UMTS + 6 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
18	UMTS + 2.4 GHz Bluetooth Ant 1	Yes	Yes	Yes <sup>A</sup>	Yes	<sup>A</sup> Bluetooth Tethering is considered
19	UMTS + 2.4 GHz Bluetooth Ant 2	Yes	Yes	N/A	Yes	
20	UMTS + 2.4 GHz WLAN MIMO + 5 GHz WLAN MIMO	Yes	Yes	Yes	Yes	
21	UMTS + 2.4 GHz WLAN MIMO + 6 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
22	UMTS + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 2	Yes	Yes	Yes <sup>A</sup>	Yes	<sup>A</sup> Bluetooth Tethering is considered
23	UMTS + 2.4 GHz Bluetooth Ant 1 + 5 GHz WLAN MIMO	Yes	Yes	Yes <sup>A</sup>	Yes	<sup>A</sup> Bluetooth Tethering is considered
24	UMTS + 2.4 GHz Bluetooth Ant 1 + 6 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
25	UMTS + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 2 + 5 GHz WLAN MIMO	Yes	Yes	Yes <sup>A</sup>	Yes	<sup>A</sup> Bluetooth Tethering is considered
26	UMTS + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 2 + 6 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
27	UMTS + 2.4 GHz Bluetooth Ant 2 + 5 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
28	UMTS + 2.4 GHz Bluetooth Ant 2 + 6 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
29	LTE + 2.4 GHz WLAN MIMO	Yes	Yes	Yes	Yes	
30	LTE + 5 GHz WLAN MIMO	Yes	Yes	Yes	Yes	
31	LTE + 6 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
32	LTE + 2.4 GHz Bluetooth Ant 1	Yes	Yes	Yes <sup>A</sup>	Yes	<sup>A</sup> Bluetooth Tethering is considered
33	LTE + 2.4 GHz Bluetooth Ant 2	Yes	Yes	N/A	Yes	
34	LTE + 2.4 GHz WLAN MIMO + 5 GHz WLAN MIMO	Yes	Yes	Yes	Yes	
35	LTE + 2.4 GHz WLAN MIMO + 6 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
36	LTE + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 2	Yes	Yes	Yes <sup>A</sup>	Yes	<sup>A</sup> Bluetooth Tethering is considered
37	LTE + 2.4 GHz Bluetooth Ant 1 + 5 GHz WLAN MIMO	Yes	Yes	Yes <sup>A</sup>	Yes	<sup>A</sup> Bluetooth Tethering is considered
38	LTE + 2.4 GHz Bluetooth Ant 1 + 6 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
39	LTE + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 2 + 5 GHz WLAN MIMO	Yes	Yes	Yes <sup>A</sup>	Yes	<sup>A</sup> Bluetooth Tethering is considered
40	LTE + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 2 + 6 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
41	LTE + 2.4 GHz Bluetooth Ant 2 + 5 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
42	LTE + 2.4 GHz Bluetooth Ant 2 + 6 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
43	LTE + NR	Yes	Yes	N/A	Yes	
44	LTE + NR + 2.4 GHz WLAN MIMO	Yes	Yes	Yes	Yes	
45	LTE + NR + 5 GHz WLAN MIMO	Yes	Yes	Yes	Yes	
46	LTE + NR + 6 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
47	LTE + NR + 2.4 GHz Bluetooth Ant 1	Yes	Yes	Yes <sup>A</sup>	Yes	<sup>A</sup> Bluetooth Tethering is considered
48	LTE + NR + 2.4 GHz Bluetooth Ant 2	Yes	Yes	N/A	Yes	
49	LTE + NR + 2.4 GHz WLAN MIMO + 5 GHz WLAN MIMO	Yes	Yes	Yes	Yes	
50	LTE + NR + 2.4 GHz WLAN MIMO + 6 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
51	LTE + NR + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 2	Yes	Yes	Yes <sup>A</sup>	Yes	<sup>A</sup> Bluetooth Tethering is considered
52	LTE + NR + 2.4 GHz Bluetooth Ant 1 + 5 GHz WLAN MIMO	Yes	Yes	Yes <sup>A</sup>	Yes	<sup>A</sup> Bluetooth Tethering is considered
53	LTE + NR + 2.4 GHz Bluetooth Ant 1 + 6 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
54	LTE + NR + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 2 + 5 GHz WLAN MIMO	Yes	Yes	Yes <sup>A</sup>	Yes	<sup>A</sup> Bluetooth Tethering is considered
55	LTE + NR + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 2 + 6 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
56	LTE + NR + 2.4 GHz Bluetooth Ant 2 + 5 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
57	LTE + NR + 2.4 GHz Bluetooth Ant 2 + 6 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
58	NR + 2.4 GHz WLAN MIMO	Yes	Yes	Yes	Yes	
59	NR + 5 GHz WLAN MIMO	Yes	Yes	Yes	Yes	
60	NR + 6 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
61	NR + 2.4 GHz Bluetooth Ant 1	Yes	Yes	Yes <sup>A</sup>	Yes	<sup>A</sup> Bluetooth Tethering is considered
62	NR + 2.4 GHz Bluetooth Ant 2	Yes	Yes	N/A	Yes	
63	NR + 2.4 GHz WLAN MIMO + 5 GHz WLAN MIMO	Yes	Yes	Yes	Yes	
64	NR + 2.4 GHz WLAN MIMO + 6 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
65	NR + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 2	Yes	Yes	Yes <sup>A</sup>	Yes	<sup>A</sup> Bluetooth Tethering is considered
66	NR + 2.4 GHz Bluetooth Ant 1 + 5 GHz WLAN MIMO	Yes	Yes	Yes <sup>A</sup>	Yes	<sup>A</sup> Bluetooth Tethering is considered
67	NR + 2.4 GHz Bluetooth Ant 1 + 6 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
68	NR + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 2 + 5 GHz WLAN MIMO	Yes	Yes	Yes <sup>A</sup>	Yes	<sup>A</sup> Bluetooth Tethering is considered
69	NR + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 2 + 6 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
70	NR + 2.4 GHz Bluetooth Ant 2 + 5 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
71	NR + 2.4 GHz Bluetooth Ant 2 + 6 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
72	GPRS/EDGE + 2.4 GHz WLAN MIMO	N/A	N/A	Yes	Yes	
73	GPRS/EDGE + 5 GHz WLAN MIMO	N/A	N/A	Yes	Yes	
74	GPRS/EDGE + 6 GHz WLAN MIMO	N/A	N/A	N/A	Yes	
75	GPRS/EDGE + 2.4 GHz Bluetooth Ant 1	N/A	N/A	Yes <sup>A</sup>	Yes	<sup>A</sup> Bluetooth Tethering is considered
76	GPRS/EDGE + 2.4 GHz Bluetooth Ant 2	N/A	N/A	N/A	Yes	
77	GPRS/EDGE + 2.4 GHz WLAN MIMO + 5 GHz WLAN MIMO	N/A	N/A	Yes	Yes	
78	GPRS/EDGE + 2.4 GHz WLAN MIMO + 6 GHz WLAN MIMO	N/A	N/A	N/A	Yes	
79	GPRS/EDGE + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 2	N/A	N/A	Yes <sup>A</sup>	Yes	<sup>A</sup> Bluetooth Tethering is considered
80	GPRS/EDGE + 2.4 GHz Bluetooth Ant 1 + 5 GHz WLAN MIMO	N/A	N/A	Yes <sup>A</sup>	Yes	<sup>A</sup> Bluetooth Tethering is considered
81	GPRS/EDGE + 2.4 GHz Bluetooth Ant 1 + 6 GHz WLAN MIMO	N/A	N/A	N/A	Yes	
82	GPRS/EDGE + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 2 + 5 GHz WLAN MIMO	N/A	N/A	Yes <sup>A</sup>	Yes	<sup>A</sup> Bluetooth Tethering is considered
83	GPRS/EDGE + 2.4 GHz Bluetooth Ant 1 + 2.4 GHz WLAN Ant 2 + 6 GHz WLAN MIMO	N/A	N/A	N/A	Yes	
84	GPRS/EDGE + 2.4 GHz Bluetooth Ant 2 + 5 GHz WLAN MIMO	N/A	N/A	N/A	Yes	
85	GPRS/EDGE + 2.4 GHz Bluetooth Ant 2 + 6 GHz WLAN MIMO	N/A	N/A	N/A	Yes	

1. No other simultaneous scenarios besides described above is supported for this model.
2. When the user utilizes multiple services in UMTS 3G mode it uses multi-Radio Access Bearer or multi-RAB. The power control is based on a physical control channel (Dedicated Physical Control Channel)

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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/b/g/n/ac/ax. 802.11a/b/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 on ant 1 only.
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. NFC was evaluated for phablet based on expected usage conditions.
12. 6 GHz Wireless Router is not supported, therefore it was not evaluated for wireless router conditions.

## 1.7 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.

This device supports channel 1-13 for 2.4 GHz WLAN. However, because channel 12/13 targets are not higher than that of channels 1-11, channels 1, 6, and 11 were considered for SAR testing per FCC KDB 248227 D01V02r02.

Since Wireless Router operations are not allowed by the chipset firmware using U-NII-1, U-NII-2A, U-NII-2C, and U-NII-4 WIFI, only 2.4 GHz WIFI, 2.4 GHz Bluetooth, and U-NII-3 WIFI Hotspot SAR tests and combinations are considered for SAR with respect to Wireless Router configurations according to FCC KDB 941225 D06v02r01.

This device supports IEEE 802.11ax with the following features:

- a) Up to 160 MHz Bandwidth only for 5/6 GHz
- b) Up to 20 MHz Bandwidth only for 2.4 GHz
- c) 2 Tx antenna output
- d) Up to 1024 QAM is supported
- e) TDWR and Band gap channels are supported for 5 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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This device supports 6 GHz WIFI Operations. RF Exposure assessment for these bands can be found in the WIFI 6E RF Exposure Report (report SN can be found in Section 1.11 – Bibliography). Simultaneous transmission analysis is addressed in Multi-Tx and Antenna SAR Considerations Appendix of this report.

**(B) Licensed Transmitter(s)**

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

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

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

This device supports inter-band LTE Carrier Aggregation (CA) for LTE Bands 2, 4, 5, 12, and 66 with two component carriers in the uplink. For CA\_2A-4A uplink conditions, SCC will switch to Ant I while PCC is on Ant A

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 can transmit with antenna I for LTE B2/4/25/41/66 and NR Band n2/25/66. SAR tests for antenna I was additionally performed for these LTE and NR bands to ensure compliance.

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

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

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

## 1.8 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 D01v06 (General SAR Guidance)
- FCC KDB Publication 865664 D01v01r04, D02v01r02 (SAR Measurements up to 6 GHz)
- FCC KDB Publication 648474 D04v01r03 (Phablet Procedures)
- 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)

## 1.9 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.

## 1.10 Bibliography

Report Type	Report Serial Number
RF Exposure Part 2 Test Report	1M2303170032-22.A3L
RF Exposure Compliance Summary Report	1M2303170032-23.A3L
RF Exposure Part 0 Test Report	1M2303170032-20.A3L
WIFI 6 GHz RF Exposure	1M2303170032-21.A3L

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LTE Information					
Form Factor	Portable Handset				
Frequency Range of each LTE transmission band	LTE Band 12 (699.7 - 715.3 MHz)				
	LTE Band 17 (706.5 - 713.5 MHz)				
	LTE Band 13 (779.5 - 784.5 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 41 (2498.5 - 2687.5 MHz)				
	Channel Bandwidths	LTE Band 12: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz			
LTE Band 17: 5 MHz, 10 MHz					
LTE Band 13: 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 41: 5 MHz, 10 MHz, 15 MHz, 20 MHz					
Channel Numbers and Frequencies (MHz)		Low	Low-Mid	Mid	Mid-High
	LTE Band 12: 1.4 MHz				
LTE Band 12: 3 MHz					
LTE Band 12: 5 MHz					
LTE Band 12: 10 MHz					
LTE Band 17: 5 MHz					
LTE Band 17: 10 MHz					
LTE Band 13: 5 MHz					
LTE Band 13: 10 MHz					
LTE Band 26 (Cell): 1.4 MHz					
LTE Band 26 (Cell): 3 MHz					
LTE Band 26 (Cell): 5 MHz					
LTE Band 26 (Cell): 10 MHz					
LTE Band 26 (Cell): 15 MHz					
LTE Band 5 (Cell): 1.4 MHz					
LTE Band 5 (Cell): 3 MHz					
LTE Band 5 (Cell): 5 MHz					
LTE Band 5 (Cell): 10 MHz					
LTE Band 66 (AWS): 1.4 MHz					
LTE Band 66 (AWS): 3 MHz					
LTE Band 66 (AWS): 5 MHz					
LTE Band 66 (AWS): 10 MHz					
LTE Band 66 (AWS): 15 MHz					
LTE Band 66 (AWS): 20 MHz					
LTE Band 4 (AWS): 1.4 MHz					
LTE Band 4 (AWS): 3 MHz					
LTE Band 4 (AWS): 5 MHz					
LTE Band 4 (AWS): 10 MHz					
LTE Band 4 (AWS): 15 MHz					
LTE Band 4 (AWS): 20 MHz					
LTE Band 25 (PCS): 1.4 MHz					
LTE Band 25 (PCS): 3 MHz					
LTE Band 25 (PCS): 5 MHz					
LTE Band 25 (PCS): 10 MHz					
LTE Band 25 (PCS): 15 MHz					
LTE Band 25 (PCS): 20 MHz					
LTE Band 2 (PCS): 1.4 MHz					
LTE Band 2 (PCS): 3 MHz					
LTE Band 2 (PCS): 5 MHz					
LTE Band 2 (PCS): 10 MHz					
LTE Band 2 (PCS): 15 MHz					
LTE Band 2 (PCS): 20 MHz					
LTE Band 41: 5 MHz					
LTE Band 41: 10 MHz					
LTE Band 41: 15 MHz					
LTE Band 41: 20 MHz					
UE Category	DL UE Cat 20, UL UE Cat 18				
Modulations Supported in UL	QPSK, 16QAM, 64QAM, 256QAM				
LTE MPR Permanently implemented per 3GPP TS 36.101 section 6.2.3-6.2.5? (manufacturer attestation to be provided)	YES				
A-MPR (Additional MPR) disabled for SAR Testing?	YES				
LTE Carrier Aggregation Possible Combinations	The technical description includes all the possible carrier aggregation combinations				
LTE Additional Information	This device does not support full CA features on 3GPP Release 16. It supports carrier aggregation, downlink MIMO, features as shown in the RF Conducted Powers section of this report and the Downlink LTE CA RF Conducted Powers Appendix. All uplink communications are identical to the Release 8 Specifications. Uplink communications are done on the PCC. The following LTE Release 16 Features are not supported: Relay, HetNet, Enhanced MIMO, eCIC, eMBMS, Cross-Carrier Scheduling, Enhanced SC-FDMA, WiFi Offloading				

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NR Information				
Form Factor	Portable Handset			
Frequency Range of each NR transmission band	NR Band n5 (826.5 - 846.5 MHz)			
	NR Band n66 (1712.5 - 1777.5 MHz)			
	NR Band n25 (1852.5 - 1912.5 MHz)			
	NR Band n2 (1852.5 - 1907.5 MHz)			
	NR Band n41 (2501.01 - 2685 MHz)			
	NR Band n77 (3455.01 - 3544.98 MHz, 3705 - 3975 MHz)			
	Channel Bandwidths	NR Band n5: 5 MHz, 10 MHz, 15 MHz, 20 MHz		
NR Band n66: 5 MHz, 10 MHz, 15 MHz, 20 MHz, 25 MHz, 30 MHz, 40 MHz				
NR Band n25: 5 MHz, 10 MHz, 15 MHz, 20 MHz, 25 MHz, 30 MHz, 40 MHz				
NR Band n2: 5 MHz, 10 MHz, 15 MHz, 20 MHz				
NR Band n41: 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 n5: 5 MHz	826.5 (165300)		836.5 (167300)	846.5 (169300)
NR Band n5: 10 MHz	829 (165800)		836.5 (167300)	844 (168800)
NR Band n5: 15 MHz	831.5 (166300)		836.5 (167300)	841.5 (168300)
NR Band n5: 20 MHz	834 (166800)		836.5 (167300)	839 (167800)
NR Band n66: 5 MHz	1712.5 (342500)		1745 (349000)	1777.5 (355500)
NR Band n66: 10 MHz	1715 (343000)		1745 (349000)	1775 (355000)
NR Band n66: 15 MHz	1717.5 (343500)		1745 (349000)	1772.5 (354500)
NR Band n66: 20 MHz	1720 (344000)		1745 (349000)	1770 (354000)
NR Band n66: 25 MHz	1722.5 (344500)		1745 (349000)	1767.5 (353500)
NR Band n66: 30 MHz	1725 (345000)		1745 (349000)	1765 (353000)
NR Band n66: 40 MHz	1730 (346000)		1745 (349000)	1760 (352000)
NR Band n25: 5 MHz	1852.5 (370500)		1882.5 (376500)	1912.5 (382500)
NR Band n25: 10 MHz	1855 (371000)		1882.5 (376500)	1910 (382000)
NR Band n25: 15 MHz	1857.5 (371500)		1882.5 (376500)	1907.5 (381500)
NR Band n25: 20 MHz	1860 (372000)		1882.5 (376500)	1905 (381000)
NR Band n25: 25 MHz	1862.5 (372500)		1882.5 (376500)	1902.5 (380500)
NR Band n25: 30 MHz	1865 (373000)		1882.5 (376500)	1900 (380000)
NR Band n25: 40 MHz	1870 (374000)		1882.5 (376500)	1895 (379000)
NR Band n2: 5 MHz	1852.5 (370500)		1880 (376000)	1907.5 (381500)
NR Band n2: 10 MHz	1855 (371000)		1880 (376000)	1905 (381000)
NR Band n2: 15 MHz	1857.5 (371500)		1880 (376000)	1902.5 (380500)
NR Band n2: 20 MHz	1860 (372000)		1880 (376000)	1900 (380000)
NR Band n41: 10 MHz	2501.01 (500202)	2547 (509400)	2592.99 (518598)	2639.01 (527902)
NR Band n41: 15 MHz	2503.5 (500700)	2548.26 (509652)	2592.99 (518598)	2637.75 (527550)
NR Band n41: 20 MHz	2506.02 (501204)	2549.49 (509898)	2592.99 (518598)	2636.49 (527298)
NR Band n41: 30 MHz	2511 (502200)	2552.01 (510402)	2592.99 (518598)	2634 (526800)
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 (518598)	2664.99 (532998)
NR Band n41: 60 MHz	2526 (505200)		2592.99 (518598)	2659.98 (531996)
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	2644.98 (528996)
NR Band n41: 100 MHz	2546.01 (509202)		2592.99 (518598)	2640 (528000)
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)	3782.49 (652166)	3840 (656000)	3897.51 (659834)
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 (656000)	N/A
NR Band n77: 90 MHz	3745.02 (649668)	N/A	3840 (656000)	N/A
NR Band n77: 100 MHz	3750 (650000)	N/A	N/A	N/A
SCS for NR Band: n5/n66/n25/n2	15 kHz			
SCS for NR Band: n41/n77	30 kHz			
Modulations Supported in UL	DFT-s-OFDM: $\pi/2$ BPSK, QPSK, 16QAM, 64QAM, 256QAM CP-OFDM: QPSK, 16QAM, 64QAM, 256QAM			
A-MPR (Additional MPR) disabled for SAR Testing?	YES			
EN-DC Carrier Aggregation Possible Combinations	The technical description includes all the possible carrier aggregation combinations			
LTE Anchor Bands for NR Band n5	LTE Band 2/66			
LTE Anchor Bands for NR Band n66	LTE Band 12/13/5/2			
LTE Anchor Bands for NR Band n25	LTE Band 12/13			
LTE Anchor Bands for NR Band n2	LTE Band 12/13/5/66/4			
LTE Anchor Bands for NR Band n41	LTE Band 12/26/66/4			
LTE Anchor Bands for NR Band n77	LTE Band 12/13/5/66/25/2			

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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 ( $\rho$ ). 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:

- $\sigma$  = conductivity of the tissue-simulating material (S/m)
- $\rho$  = mass density of the tissue-simulating material (kg/m<sup>3</sup>)
- 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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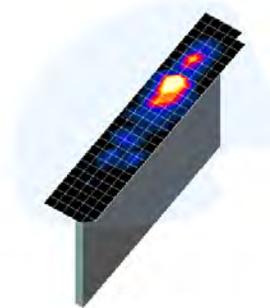
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## 4 DOSIMETRIC ASSESSMENT

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

\*Also compliant to IEEE 1528-2013 Table 6

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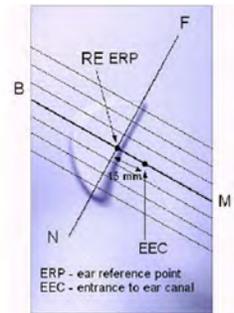
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# 5

## DEFINITION OF REFERENCE POINTS

### 5.1 EAR REFERENCE POINT

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



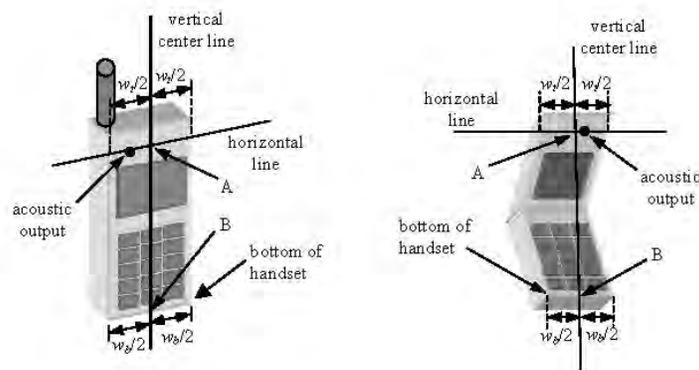
**Figure 5-1**  
Close-Up Side view of ERP

### 5.2 HANDSET REFERENCE POINTS

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



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



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

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## 6 TEST CONFIGURATION POSITIONS

### 6.1 Device Holder

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

### 6.2 Positioning for Cheek

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

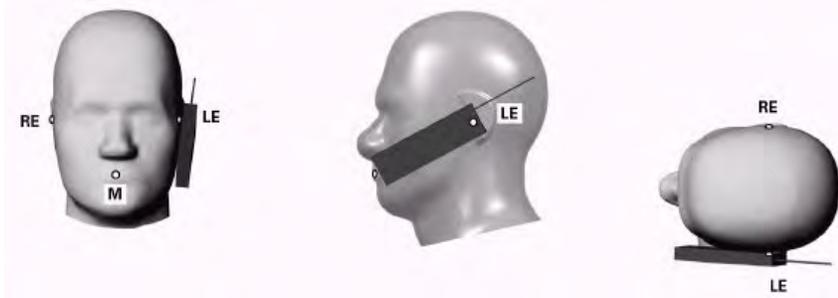


Figure 6-1 Front, Side and Top View of Cheek Position

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

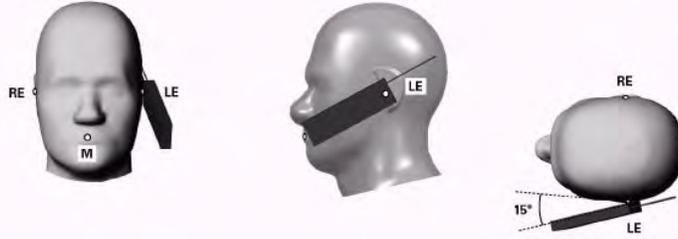
### 6.3 Positioning for Ear / 15° Tilt

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

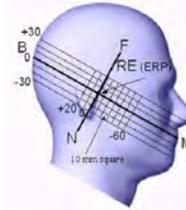
1. While maintaining the orientation of the phone, the phone was retracted parallel to the reference plane far enough to enable a rotation of the phone by 15 degrees.
2. The phone was then rotated around the horizontal line by 15 degrees.
3. While maintaining the orientation of the phone, the phone was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

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



**Figure 6-3 Side view w/ relevant markings**

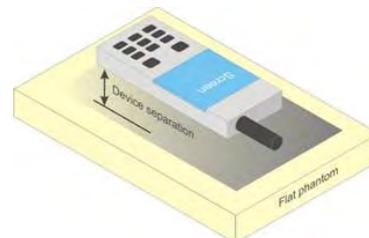
## 6.4 SAR Evaluations near the Mouth/Jaw Regions of the SAM Phantom

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

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

## 6.5 Body-Worn Accessory Configurations

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



**Figure 6-4 Sample Body-Worn Diagram**

Accessories for Body-worn operation configurations are divided into two categories: those that do not contain metallic components and those that do contain metallic components. When multiple accessories that do not contain metallic components are supplied with the device, the device is tested with only the accessory that

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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 D01v06 should be applied to determine SAR test requirements.

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

## 6.7 Wireless Router Configurations

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

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

## 6.8 Phablet Configurations

For smart phones with a display diagonal dimension > 150 mm or an overall diagonal dimension > 160 mm that provide similar mobile web access and multimedia support found in mini-tablets or UMPC mini-tablets that 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  $\leq 25$  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.

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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)
<b>Peak Spatial Average SAR</b> Head	1.6	8.0
<b>Whole Body SAR</b>	0.08	0.4
<b>Peak Spatial Average SAR</b> 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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Power measurements for licensed transmitters are performed using a base station simulator under digital average power.

### 8.1 Measured and Reported SAR

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

### 8.2 3G SAR Test Reduction Procedure

In FCC KDB Publication 941225 D01v03r01, certain transmission modes within a frequency band and wireless mode evaluated for SAR are defined as primary modes. The equivalent modes considered for SAR test reduction are denoted as secondary modes. When the maximum output power including tune-up tolerance specified for production units in a secondary mode is  $\leq 0.25$  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  $\leq 1.2$  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<sub>n</sub> 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<sub>n</sub>, 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  $\leq 0.8$  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  $\leq 0.4$  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  $\leq 0.8$  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  $\leq 0.8$  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  $\leq 0.8$  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  $\leq 1.2$  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  $\leq 1.2$  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 D01v06 should be applied to determine simultaneous transmission SAR test exclusion for WIFI MIMO. If the sum of 1g single transmission chain SAR measurements is  $< 1.6$  W/kg, no additional SAR measurements for MIMO are required. Alternatively, SAR for MIMO can be measured with all antennas transmitting simultaneously at the specified maximum output power of MIMO operation. When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

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## 9

## RF CONDUCTED POWERS

All conducted power measurements for WWAN sub6/WLAN/BT 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  $P_{max}$  DSI = 0 (Body-worn/Phablet) or DSI = 2 (Head) for GSM 850**  
**Measured  $P_{Limit}$  for DSI = 0 (Body-worn/Phablet) or DSI = 3 (Hotspot) for GSM 1900**

Maximum Burst-Averaged Output Power										
Band	Channel	Voice	GPRS/EDGE Data (GMSK)				EDGE Data (8-PSK)			
		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	32.84	33.04	31.51	<b>29.46</b>	26.99	26.35	24.86	22.68	21.73
	190	32.83	33.24	31.75	<b>29.47</b>	27.16	26.57	25.12	22.87	21.80
	251	33.10	33.23	31.66	<b>29.32</b>	27.27	26.69	25.14	22.94	21.85
GSM 1900	512	28.07	28.05	25.11	23.24	<b>22.09</b>	24.55	23.14	21.40	20.34
	661	28.01	28.02	25.23	23.61	<b>22.22</b>	24.66	23.51	21.56	20.61
	810	28.76	28.90	25.75	23.95	<b>22.78</b>	25.19	23.93	21.98	21.06

Calculated Maximum Frame-Averaged Output Power										
Band	Channel	Voice	GPRS/EDGE Data (GMSK)				EDGE Data (8-PSK)			
		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	23.64	23.84	25.32	<b>25.03</b>	23.81	17.15	18.67	18.25	18.55
	190	23.63	24.04	25.56	<b>25.04</b>	23.98	17.37	18.93	18.44	18.62
	251	23.90	24.03	25.47	<b>24.89</b>	24.09	17.49	18.95	18.51	18.67
GSM 1900	512	18.87	18.85	18.92	18.81	<b>18.91</b>	15.35	16.95	16.97	17.16
	661	18.81	18.82	19.04	19.18	<b>19.04</b>	15.46	17.32	17.13	17.43
	810	19.56	19.70	19.56	19.52	<b>19.60</b>	15.99	17.74	17.55	17.88

<b>GSM 850</b>	<b>Frame</b>	24.30	24.30	25.31	<b>25.07</b>	24.32	17.80	18.81	18.57	18.82
<b>GSM 1900</b>	<b>Avg.Targets:</b>	19.80	19.80	19.81	19.77	<b>19.82</b>	16.80	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									
Band	Channel	GPRS/EDGE Data (GMSK)				EDGE Data (8-PSK)			
		GPRS [dBm] 1 Tx Slot	GPRS [dBm] 2 Tx Slot	GPRS [dBm] 3 Tx Slot	GPRS [dBm] 4 Tx Slot	EDGE [dBm] 1 Tx Slot	EDGE [dBm] 2 Tx Slot	EDGE [dBm] 3 Tx Slot	EDGE [dBm] 4 Tx Slot
GSM 850	128	31.81	28.41	26.45	25.16	26.35	24.86	22.68	21.73
	190	32.07	28.94	26.66	25.37	26.57	25.12	22.87	21.80
	251	31.99	28.73	26.77	25.33	26.69	25.14	22.94	21.85

Calculated Maximum Frame-Averaged Output Power									
Band	Channel	GPRS/EDGE Data (GMSK)				EDGE Data (8-PSK)			
		GPRS [dBm] 1 Tx Slot	GPRS [dBm] 2 Tx Slot	GPRS [dBm] 3 Tx Slot	GPRS [dBm] 4 Tx Slot	EDGE [dBm] 1 Tx Slot	EDGE [dBm] 2 Tx Slot	EDGE [dBm] 3 Tx Slot	EDGE [dBm] 4 Tx Slot
GSM 850	128	22.61	22.22	22.02	21.98	17.15	18.67	18.25	18.55
	190	22.87	22.75	22.23	22.19	17.37	18.93	18.44	18.62
	251	22.79	22.54	22.34	22.15	17.49	18.95	18.51	18.67

<b>GSM 850</b>	<b>Frame Avg. Targets:</b>	22.80	22.81	22.77	22.82	17.80	18.81	18.57	18.82
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**Table 9-3**  
**Measured  $P_{Max}$  for DSI = 2 (Head) for GSM 1900**

Maximum Burst-Averaged Output Power										
		Voice	GPRS/EDGE Data (GMSK)				EDGE Data (8-PSK)			
Band	Channel	GSM [dBm] CS (1 Slot)	GPRS [dBm] 1 Tx Slot	GPRS [dBm] 2 Tx Slot	GPRS [dBm] 3 Tx Slot	GPRS [dBm] 4 Tx Slot	EDGE [dBm] 1 Tx Slot	EDGE [dBm] 2 Tx Slot	EDGE [dBm] 3 Tx Slot	EDGE [dBm] 4 Tx Slot
GSM 1900	512	30.34	30.36	27.47	<b>25.70</b>	23.75	24.55	23.14	21.40	20.34
	661	30.49	30.78	27.65	<b>25.50</b>	24.01	24.66	23.51	21.56	20.61
	810	31.12	31.13	27.99	<b>26.15</b>	24.60	25.19	23.93	21.98	21.06

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	21.14	21.16	21.28	<b>21.27</b>	20.57	15.35	16.95	16.97	17.16
	661	21.29	21.58	21.46	<b>21.07</b>	20.83	15.46	17.32	17.13	17.43
	810	21.92	21.93	21.80	<b>21.72</b>	21.42	15.99	17.74	17.55	17.88

<b>GSM 1900</b>	<b>Frame Avg.Targets:</b>	21.80	21.80	21.81	<b>22.07</b>	21.32	16.80	17.81	17.57	17.82
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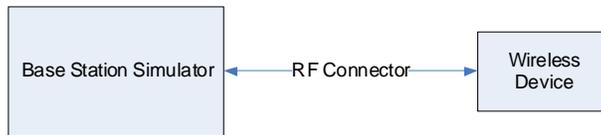
Note:

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

**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  $P_{max}$  for DSI = 0 (Body-worn/Phablet) and/or DSI = 4 (Earjack active) for UMTS 850**  
**Measured  $P_{Limit}$  for DSI = 0 (Body-worn/Phablet) and/or DSI = 4 (Earjack active)**  
**for UMTS 1750 and UMTS 1900**

3GPP Release Version	Mode	3GPP 34.121 Subtest	Cellular Band [dBm]			AWS Band [dBm]			PCS Band [dBm]		
			4132	4183	4233	1312	1412	1513	9262	9400	9538
99	WCDMA	12.2 kbps RMC	25.08	25.07	25.21	21.01	20.57	20.88	22.77	23.00	23.30
99		12.2 kbps AMR	25.13	25.33	25.28	21.10	20.53	20.84	22.79	22.97	23.22
6	HSDPA	Subtest 1	24.21	24.48	24.42	19.99	19.64	19.96	21.98	21.93	22.35
6		Subtest 2	24.32	24.50	24.36	19.97	19.68	19.94	22.00	22.02	22.15
6		Subtest 3	23.77	23.89	23.94	19.67	19.18	19.52	21.52	21.60	21.92
6		Subtest 4	23.76	23.96	23.86	19.56	19.23	19.49	21.50	21.54	21.88
6	HSUPA	Subtest 1	24.22	24.46	24.38	19.99	19.67	19.97	22.27	22.04	22.39
6		Subtest 2	22.30	22.50	22.56	18.24	17.73	17.99	19.77	19.90	20.21
6		Subtest 3	23.21	23.39	23.42	19.24	18.70	19.02	21.83	21.98	22.36
6		Subtest 4	22.21	22.44	22.43	18.14	17.60	17.93	19.86	20.00	20.30
6		Subtest 5	24.23	24.44	24.43	19.99	19.65	19.92	21.87	21.91	22.35
8	DC-HSDPA	Subtest 1	24.22	24.48	24.42	19.99	19.69	19.87	21.84	21.84	22.35
8		Subtest 2	24.21	24.35	24.32	19.98	19.75	19.98	21.88	21.92	22.39
8		Subtest 3	23.71	23.89	23.97	19.59	19.21	19.46	21.41	21.52	21.89
8		Subtest 4	23.73	23.94	23.81	19.60	19.17	19.50	21.49	21.47	21.92

**Table 9-5**  
**Measured  $P_{limit}$  for DSI = 3 (Hotspot mode) for UMTS 850, UMTS 1750, and UMTS 1900**

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	23.17	23.46	23.43	19.11	18.73	18.84	17.58	17.82	17.54	-
99		12.2 kbps AMR	23.25	23.37	23.45	19.21	18.71	19.02	17.60	17.68	18.21	-
6	HSDPA	Subtest 1	21.99	22.28	22.16	17.78	17.42	17.69	16.50	16.75	17.00	0
6		Subtest 2	21.95	22.24	22.27	17.84	17.49	17.62	16.47	16.57	16.99	0
6		Subtest 3	21.49	21.78	21.77	17.38	16.87	17.14	15.95	16.10	16.56	0.5
6		Subtest 4	21.44	21.68	21.73	17.29	16.92	17.15	15.86	16.07	16.59	0.5
6	HSUPA	Subtest 1	21.80	22.29	22.30	17.99	17.53	17.95	16.55	16.70	17.00	0
6		Subtest 2	20.08	20.28	20.31	16.06	15.52	15.83	14.53	14.68	15.20	2
6		Subtest 3	21.08	21.32	21.26	17.12	16.55	16.84	15.54	15.70	16.19	1
6		Subtest 4	20.13	20.33	20.35	16.05	15.56	15.85	14.52	14.70	15.20	2
6		Subtest 5	22.30	22.51	22.50	18.00	17.75	17.98	16.77	16.91	17.00	0
8	DC-HSDPA	Subtest 1	22.21	22.30	22.40	18.00	17.63	17.86	16.54	16.76	16.99	0
8		Subtest 2	22.18	22.44	22.35	17.99	17.72	17.84	16.51	16.69	17.00	0
8		Subtest 3	21.67	21.98	21.88	17.50	17.10	17.37	15.98	16.22	16.76	0.5
8		Subtest 4	21.69	21.90	21.99	17.51	17.13	17.39	16.13	16.32	16.73	0.5

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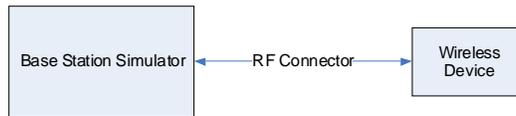
**Table 9-6**  
**Measured  $P_{limit}$  for DSI = 2 (Head) for UMTS 850, UMTS 1750, and UMTS 1900**

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	24.21	24.40	24.45	23.48	23.05	23.46	23.08	23.09	23.56	-
99		12.2 kbps AMR	24.23	24.44	24.40	23.56	23.11	23.50	23.13	23.10	23.56	-
6	HSDPA	Subtest 1	23.10	23.33	23.27	22.60	22.10	22.49	22.12	22.16	22.63	0
6		Subtest 2	23.15	23.34	23.29	22.38	22.12	22.50	22.19	22.20	22.62	0
6		Subtest 3	22.70	22.98	22.97	22.07	21.64	22.02	21.69	21.71	22.13	0.5
6		Subtest 4	22.68	22.83	22.90	22.07	21.63	22.03	21.71	21.67	22.16	0.5
6	HSUPA	Subtest 1	23.19	23.37	23.40	22.58	22.15	22.52	22.12	22.17	22.60	0
6		Subtest 2	21.17	21.33	21.21	20.58	20.13	20.53	20.14	20.14	20.61	2
6		Subtest 3	22.16	22.32	22.32	21.53	21.16	21.51	21.12	21.16	21.61	1
6		Subtest 4	21.18	21.38	21.36	20.58	20.16	20.54	20.14	20.16	20.63	2
6		Subtest 5	23.18	23.37	23.35	22.56	22.17	22.54	22.17	22.16	22.63	0
8	DC-HSDPA	Subtest 1	23.24	23.32	23.39	22.59	22.17	22.58	22.19	22.21	22.67	0
8		Subtest 2	23.18	23.41	23.30	22.64	22.19	22.58	22.16	22.20	22.64	0
8		Subtest 3	22.76	22.93	22.95	22.11	21.69	22.09	21.70	21.70	22.16	0.5
8		Subtest 4	22.67	22.83	22.91	22.13	21.68	22.07	21.71	21.70	22.17	0.5

DC-HSDPA considerations

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

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



**Figure 9-2**  
**Power Measurement Setup**

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### 9.3 LTE Conducted Powers

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

Note: Some bands do not support three non-overlapping channels. Per KDB Publication 941225 D05v02, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

#### 9.3.1 LTE Band 12

**Table 9-7**  
**LTE Band 12 Measured  $P_{Max}$  for DSI = 2 (Head) - 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	24.82	0	0
	1	25	<b>24.91</b>		0
	1	49	24.71		0
	25	0	23.85	0-1	1
	25	12	23.86		1
	25	25	<b>23.96</b>		1
	50	0	23.85		1
16QAM	1	0	24.11	0-1	1
	1	25	24.00		1
	1	49	23.98		1
	25	0	22.87	0-2	2
	25	12	22.91		2
	25	25	22.90		2
	50	0	22.86		2
64QAM	1	0	22.96	0-2	2
	1	25	23.06		2
	1	49	22.90		2
	25	0	21.84	0-3	3
	25	12	21.92		3
	25	25	21.88		3
	50	0	21.84		3
256QAM	1	0	19.79	0-5	5
	1	25	20.07		5
	1	49	19.89		5
	25	0	19.81		5
	25	12	19.83		5
	25	25	19.89		5
	50	0	19.91		5

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Table 9-8

LTE Band 12 Measured  $P_{Limit}$  for DSI = 0 (Body-worn/Phablet), and/or, DSI = 3 (Hotspot Mode) 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	22.48	0	0
	1	25	<b>22.56</b>		0
	1	49	22.48		0
	25	0	22.53	0-1	0
	25	12	22.55		0
	25	25	<b>22.59</b>		0
	50	0	22.54		0
16QAM	1	0	22.79	0-1	0
	1	25	22.84		0
	1	49	22.77		0
	25	0	22.59	0-2	0
	25	12	22.61		0
	25	25	22.63		0
	50	0	22.56		0
64QAM	1	0	22.69	0-2	0
	1	25	22.79		0
	1	49	22.76		0
	25	0	21.70	0-3	1
	25	12	21.73		1
	25	25	21.77		1
	50	0	21.74		1
256QAM	1	0	19.87	0-5	3
	1	25	19.89		3
	1	49	19.81		3
	25	0	19.67		3
	25	12	19.69		3
	25	25	19.78		3
	50	0	19.72		3

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### 9.3.2 LTE Band 13

**Table 9-9**  
**LTE Band 13 Measured  $P_{Max}$  for DSI = 2 (Head) - 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	24.74	0	0
	1	25	24.67		0
	1	49	24.57		0
	25	0	23.71	0-1	1
	25	12	23.65		1
	25	25	23.66		1
	50	0	23.70		1
16QAM	1	0	24.00	0-1	1
	1	25	23.93		1
	1	49	23.84		1
	25	0	22.77	0-2	2
	25	12	22.75		2
	25	25	22.76		2
	50	0	22.67		2
64QAM	1	0	22.82	0-2	2
	1	25	22.89		2
	1	49	22.70		2
	25	0	21.68	0-3	3
	25	12	21.68		3
	25	25	21.68		3
	50	0	21.62		3
256QAM	1	0	19.86	0-5	5
	1	25	19.89		5
	1	49	19.76		5
	25	0	19.70		5
	25	12	19.71		5
	25	25	19.77		5
	50	0	19.69		5

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Table 9-10

LTE Band 13 Measured  $P_{Limit}$  for DSI = 0 (Body-worn/Phablet), and/or, DSI = 3 (Hotspot Mode) 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	22.64	0	0
	1	25	22.62		0
	1	49	22.60		0
	25	0	22.62	0-1	0
	25	12	22.60		0
	25	25	22.61		0
	50	0	22.61		0
16QAM	1	0	22.96	0-1	0
	1	25	22.98		0
	1	49	22.90		0
	25	0	22.69	0-2	0
	25	12	22.68		0
	25	25	22.68		0
	50	0	22.66		0
64QAM	1	0	22.85	0-2	0
	1	25	22.98		0
	1	49	22.83		0
	25	0	21.79	0-3	1
	25	12	21.75		1
	25	25	21.83		1
	50	0	21.80		1
256QAM	1	0	19.77	0-5	3
	1	25	19.89		3
	1	49	19.93		3
	25	0	19.79		3
	25	12	19.81		3
	25	25	19.84		3
	50	0	19.74		3

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### 9.3.3 LTE Band 26

**Table 9-11**  
**LTE Band 26 (Cell) Measured  $P_{Max}$  for DSI = 2 (Head) or DSI = 0 (Body-worn/Phablet) 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	24.60	0	0
	1	36	24.70		0
	1	74	<b>24.78</b>		0
	36	0	23.68	0-1	1
	36	18	23.64		1
	36	37	<b>23.78</b>		1
	75	0	23.71		1
16QAM	1	0	23.67	0-1	1
	1	36	23.95		1
	1	74	23.95		1
	36	0	22.69	0-2	2
	36	18	22.76		2
	36	37	22.77		2
	75	0	22.71		2
64QAM	1	0	22.66	0-2	2
	1	36	22.91		2
	1	74	22.67		2
	36	0	21.66	0-3	3
	36	18	21.67		3
	36	37	21.70		3
	75	0	21.69		3
256QAM	1	0	19.62	0-5	5
	1	36	19.75		5
	1	74	19.77		5
	36	0	19.64		5
	36	18	19.72		5
	36	37	19.76		5
	75	0	19.70		5

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**Table 9-12**  
**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	23.60	0	0
	1	36	<b>23.72</b>		0
	1	74	23.56		0
	36	0	23.69	0-1	0
	36	18	23.72		0
	36	37	<b>23.77</b>		0
	75	0	23.69		0
16QAM	1	0	23.68	0-1	0
	1	36	23.87		0
	1	74	23.87		0
	36	0	22.67	0-2	1
	36	18	22.68		1
	36	37	22.81		1
	75	0	22.72		1
64QAM	1	0	22.74	0-2	1
	1	36	22.77		1
	1	74	22.68		1
	36	0	21.73	0-3	2
	36	18	21.76		2
	36	37	21.74		2
	75	0	21.71		2
256QAM	1	0	19.55	0-5	4
	1	36	19.65		4
	1	74	19.87		4
	36	0	19.72		4
	36	18	19.65		4
	36	37	19.79		4
	75	0	19.71		4

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### 9.3.4 LTE Band 66 Antenna A

**Table 9-13**  
**LTE Band 66 (AWS) Antenna A Measured  $P_{Max}$  for DSI = 2 (Head) – 20 MHz Bandwidth**

LTE Band 66 (AWS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			132072 (1720.0 MHz)	132322 (1745.0 MHz)	132572 (1770.0 MHz)		
Conducted Power [dBm]							
QPSK	1	0	24.78	24.33	24.66	0	0
	1	50	24.66	24.29	24.79		0
	1	99	24.69	24.43	<b>24.85</b>		0
	50	0	23.77	23.55	23.73	0-1	1
	50	25	23.70	23.58	23.77		1
	50	50	23.71	23.54	<b>23.83</b>		1
16QAM	100	0	23.65	23.59	23.79	0-1	1
	1	0	23.93	23.77	23.91		1
	1	50	23.85	23.75	24.05		1
	1	99	23.75	23.86	24.00	0-2	1
	50	0	22.78	22.56	22.74		2
	50	25	22.71	22.59	22.80		2
64QAM	50	50	22.72	22.58	22.86	0-2	2
	100	0	22.67	22.57	22.80		2
	1	0	23.01	22.89	22.85		0-2
	1	50	22.89	22.80	23.01	2	
	1	99	22.87	22.77	23.01	0-3	
	50	0	21.74	21.55	21.74		3
50	25	21.68	21.58	21.79	3		
256QAM	50	50	21.69	21.52	21.83	0-3	3
	100	0	21.68	21.57	21.78		3
	1	0	19.96	19.63	19.89		0-5
	1	50	19.90	19.63	19.92	5	
	1	99	19.79	19.62	19.89	5	
	50	0	19.77	19.55	19.77	5	
50	25	19.70	19.60	19.84	5		
50	50	19.67	19.55	19.83	5		
100	0	19.65	19.58	19.81	5		

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**Table 9-14**  
**LTE Band 66 (AWS) Antenna A Measured  $P_{Limit}$  for DSI = 0 (Body-worn/Phablet) , or DSI = 4 (Earjack Active) – 20 MHz Bandwidth**

LTE Band 66 (AWS) 20 MHz Bandwidth								
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]	
			132072 (1720.0 MHz)	132322 (1745.0 MHz)	132572 (1770.0 MHz)			
			Conducted Power [dBm]					
QPSK	1	0	21.16	20.83	21.10	0	0	
	1	50	21.06	20.78	21.16		0	
	1	99	21.09	20.90	<b>21.20</b>		0	
	QPSK	50	0	21.18	21.01	21.20	0-1	0
		50	25	21.12	21.01	21.26		0
		50	50	21.12	20.99	<b>21.27</b>		0
		100	0	21.12	21.02	21.19		0
16QAM	1	0	21.45	21.26	21.40	0-1	0	
	1	50	21.36	21.23	21.49		0	
	1	99	21.26	21.34	21.44		0	
	16QAM	50	0	21.20	20.97	21.18	0-2	0
		50	25	21.12	21.03	21.24		0
		50	50	21.13	20.98	21.27		0
		100	0	21.14	21.04	21.24		0
64QAM	1	0	21.38	21.22	21.25	0-2	0	
	1	50	21.35	21.09	21.42		0	
	1	99	21.24	21.26	21.31		0	
	64QAM	50	0	21.16	21.02	21.17	0-3	0
		50	25	21.10	21.02	21.24		0
		50	50	21.10	21.01	21.28		0
		100	0	21.09	21.02	21.24		0
256QAM	1	0	19.88	19.67	19.77	0-5	1.5	
	1	50	19.75	19.62	19.82		1.5	
	1	99	19.66	19.70	19.82		1.5	
	50	0	19.69	19.49	19.66		1.5	
	50	25	19.61	19.53	19.73		1.5	
	50	50	19.60	19.48	19.79		1.5	
	100	0	19.59	19.53	19.74		1.5	

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**Table 9-15**  
**LTE Band 66 (AWS) Antenna A Measured  $P_{Limit}$  for DSI = 3 (Hotspot Mode) – 20 MHz Bandwidth**

LTE Band 66 (AWS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			132072 (1720.0 MHz)	132322 (1745.0 MHz)	132572 (1770.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	19.33	19.09	19.29	0	0
	1	50	19.20	18.96	19.35		0
	1	99	19.20	18.89	19.37		0
	50	0	19.33	19.15	19.36	0-1	0
	50	25	19.28	19.19	19.44		0
	50	50	19.24	19.14	19.43		0
	100	0	19.25	19.20	19.35		0
16QAM	1	0	19.51	19.43	19.51	0-1	0
	1	50	19.37	19.42	19.72		0
	1	99	19.34	19.45	19.63		0
	50	0	19.32	19.10	19.35	0-2	0
	50	25	19.26	19.14	19.39		0
	50	50	19.24	19.13	19.43		0
	100	0	19.23	19.14	19.39		0
64QAM	1	0	19.52	19.21	19.38	0-2	0
	1	50	19.39	19.21	19.47		0
	1	99	19.40	19.28	19.39		0
	50	0	19.28	19.06	19.25	0-3	0
	50	25	19.21	19.10	19.32		0
	50	50	19.21	19.05	19.33		0
	100	0	19.19	19.09	19.31		0
256QAM	1	0	19.55	19.17	19.37	0-5	0
	1	50	19.43	19.12	19.53		0
	1	99	19.37	19.21	19.44		0
	50	0	19.26	19.05	19.22		0
	50	25	19.21	19.08	19.30		0
	50	50	19.20	19.02	19.34		0
	100	0	19.21	19.06	19.30		0

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### 9.3.5 LTE Band 66 Antenna I

**Table 9-16**  
**LTE Band 66 (AWS) Antenna I Measured  $P_{Limit}$  DSI = 0 (Body-worn/Phablet), and/or DSI = 4 (Earjack Active) – 20 MHz Bandwidth**

LTE Band 66 (AWS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			132072 (1720.0 MHz)	132322 (1745.0 MHz)	132572 (1770.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	21.11	20.54	20.67	0	0
	1	50	20.92	20.65	20.75		0
	1	99	20.93	20.73	20.71		0
	50	0	21.10	20.67	20.71	0-1	0
	50	25	21.00	20.64	20.72		0
	50	50	20.96	20.64	20.80		0
100	0	21.00	20.66	20.71	0	0	
16QAM	1	0	21.24	20.86	20.76	0-1	0
	1	50	21.22	20.82	20.93		0
	1	99	21.20	20.84	20.75		0
	50	0	21.09	20.69	20.68	0-2	0
	50	25	20.99	20.67	20.69		0
	50	50	20.94	20.63	20.77		0
100	0	20.96	20.68	20.69	0	0	
64QAM	1	0	21.39	21.08	20.89	0-2	0
	1	50	21.33	20.98	21.01		0
	1	99	21.14	21.00	20.96		0
	50	0	21.18	20.80	20.74	0-3	0
	50	25	21.14	20.78	20.84		0
	50	50	21.03	20.75	20.86		0
100	0	21.12	20.78	20.82	0	0	
256QAM	1	0	19.81	19.38	19.33	0-5	1
	1	50	19.73	19.37	19.38		1
	1	99	19.68	19.33	19.48		1
	50	0	19.68	19.30	19.24		1
	50	25	19.65	19.25	19.32		1
	50	50	19.50	19.26	19.36		1
100	0	19.66	19.28	19.35	1		

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**Table 9-17**  
**LTE Band 66 (AWS) Antenna I Measured  $P_{Limit}$  for DSI = 3 (Hotspot Mode) – 20 MHz Bandwidth**

LTE Band 66 (AWS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			132072 (1720.0 MHz)	132322 (1745.0 MHz)	132572 (1770.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	17.25	16.65	16.76	0	0
	1	50	17.09	16.69	16.80		0
	1	99	16.97	16.55	16.83		0
	50	0	17.21	16.75	16.77	0-1	0
	50	25	17.10	16.77	16.88		0
	50	50	17.05	16.72	16.89		0
	100	0	17.09	16.71	16.88		0
16QAM	1	0	17.41	16.85	17.03	0-1	0
	1	50	17.24	16.98	17.09		0
	1	99	17.15	17.08	17.13		0
	50	0	17.21	16.81	16.77	0-2	0
	50	25	17.12	16.77	16.91		0
	50	50	17.05	16.75	16.88		0
	100	0	17.09	16.76	16.86		0
64QAM	1	0	17.46	17.01	16.88	0-2	0
	1	50	17.23	16.82	16.90		0
	1	99	17.17	16.80	17.06		0
	50	0	17.21	16.81	16.79	0-3	0
	50	25	17.11	16.78	16.77		0
	50	50	17.04	16.73	16.88		0
	100	0	17.11	16.76	16.77		0
256QAM	1	0	17.32	16.89	16.75	0-5	0
	1	50	17.22	16.78	16.86		0
	1	99	17.06	16.80	16.87		0
	50	0	17.12	16.72	16.64		0
	50	25	17.10	16.72	16.77		0
	50	50	17.01	16.70	16.76		0
	100	0	17.09	16.70	16.77		0

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### 9.3.6 LTE Band 4 Antenna I

**Table 9-18**  
**LTE Band 4 (AWS) Antenna I Measured  $P_{Limit}$  for DSI = 2 (Head) – 20 MHz Bandwidth**

LTE Band 4 (AWS) 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20175 (1732.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	16.92	0	0
	1	50	16.63		0
	1	99	16.82		0
	50	0	16.85	0-1	0
	50	25	16.73		0
	50	50	16.75		0
	100	0	16.84		0
16QAM	1	0	16.92	0-1	0
	1	50	16.80		0
	1	99	16.91		0
	50	0	16.82	0-2	0
	50	25	16.72		0
	50	50	16.82		0
	100	0	16.77		0
64QAM	1	0	16.88	0-2	0
	1	50	16.77		0
	1	99	16.83		0
	50	0	16.60	0-3	0
	50	25	16.65		0
	50	50	16.61		0
	100	0	16.68		0
256QAM	1	0	16.75	0-5	0
	1	50	16.70		0
	1	99	16.84		0
	50	0	16.75		0
	50	25	16.70		0
	50	50	16.64		0
	100	0	16.63		0

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### 9.3.7 LTE Band 25 Antenna A

**Table 9-19**  
**LTE Band 25 (PCS) Antenna A Measured  $P_{Max}$  for DSI = 2 (Head) – 20 MHz Bandwidth**

LTE Band 25 (PCS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26140 (1860.0 MHz)	26365 (1882.5 MHz)	26590 (1905.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	24.49	24.23	24.69	0	0
	1	50	24.58	24.33	24.92		0
	1	99	24.54	24.41	24.71		0
	50	0	23.63	23.58	23.83	0-1	1
	50	25	23.67	23.64	23.96		1
	50	50	23.60	23.67	24.02		1
16QAM	100	0	23.60	23.63	23.99	0-1	1
	1	0	23.61	23.67	24.03		1
	1	50	23.73	23.91	24.16		1
	1	99	23.70	23.92	24.06	0-2	1
	50	0	22.65	22.58	22.81		2
	50	25	22.69	22.62	22.98		2
64QAM	50	50	22.62	22.67	23.04	0-2	2
	100	0	22.59	22.65	22.97		2
	1	0	22.65	22.65	22.83		0-2
	1	50	22.76	22.80	23.05	2	
	1	99	22.65	22.86	23.11	2	
	256QAM	50	0	21.64	21.55	21.78	0-3
50		25	21.68	21.63	21.98	3	
50		50	21.57	21.63	22.01	3	
100		0	21.58	21.61	21.97	0-5	3
1		0	19.70	19.68	19.88		5
1		50	19.78	19.66	20.03		5
256QAM	1	99	19.78	19.83	20.22	0-5	5
	50	0	19.60	19.52	19.78		5
	50	25	19.64	19.58	19.93		5
	50	50	19.59	19.63	20.00	0-5	5
	100	0	19.56	19.56	19.95		5

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**Table 9-20**  
**LTE Band 25 (PCS) Antenna A Measured  $P_{Limit}$  DSI = 0 (Body-worn/Phablet) and/or DSI = 4 (Earjack Active)**  
**- 20 MHz Bandwidth**

LTE Band 25 (PCS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26140 (1860.0 MHz)	26365 (1882.5 MHz)	26590 (1905.0 MHz)		
Conducted Power [dBm]							
QPSK	1	0	21.39	21.54	21.65	0	0
	1	50	21.46	21.56	21.86		0
	1	99	21.37	21.62	21.98		0
	50	0	21.66	21.56	21.81	0-1	0
	50	25	21.70	21.62	21.99		0
	50	50	21.62	21.63	22.04		0
	100	0	21.63	21.59	21.90		0
16QAM	1	0	21.70	21.70	21.87	0-1	0
	1	50	21.85	21.75	22.11		0
	1	99	21.72	21.80	22.07		0
	50	0	21.54	21.44	21.71	0-2	0
	50	25	21.58	21.51	21.87		0
	50	50	21.50	21.57	21.96		0
	100	0	21.50	21.51	21.89		0
64QAM	1	0	21.62	21.54	21.83	0-2	0
	1	50	21.73	21.69	22.01		0
	1	99	21.65	21.77	22.08		0
	50	0	21.53	21.47	21.74	0-3	0
	50	25	21.59	21.54	21.92		0
	50	50	21.50	21.56	21.93		0
	100	0	21.51	21.51	21.90		0
256QAM	1	0	19.55	19.48	19.83	0-5	2
	1	50	19.63	19.57	19.99		2
	1	99	19.65	19.73	20.25		2
	50	0	19.55	19.44	19.71		2
	50	25	19.58	19.52	19.87		2
	50	50	19.54	19.56	19.95		2
	100	0	19.49	19.51	19.89		2

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**Table 9-21**  
**LTE Band 25 (PCS) Antenna A Measured  $P_{Limit}$  for DSI = 3 (Hotspot Mode) – 20 MHz Bandwidth**

LTE Band 25 (PCS) 20 MHz Bandwidth								
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]	
			26140 (1860.0 MHz)	26365 (1882.5 MHz)	26590 (1905.0 MHz)			
Conducted Power [dBm]								
QPSK	1	0	18.06	17.86	18.27	0	0	
	1	50	18.11	17.87	18.43		0	
	1	99	18.00	17.97	18.51		0	
	QPSK	50	0	18.16	18.06	18.32	0-1	0
		50	25	18.21	18.12	18.47		0
		50	50	18.13	18.13	18.55		0
		100	0	18.11	18.10	18.50		0
100		0	18.11	18.10	18.50	0		
16QAM	1	0	18.19	18.29	18.53	0-1	0	
	1	50	18.23	18.36	18.73		0	
	1	99	18.16	18.39	18.86		0	
	16QAM	50	0	18.17	18.04	18.31	0-2	0
		50	25	18.20	18.12	18.48		0
		50	50	18.11	18.14	18.54		0
		100	0	18.13	18.13	18.45		0
64QAM	1	0	18.24	18.15	18.44	0-2	0	
	1	50	18.37	18.14	18.58		0	
	1	99	18.25	18.28	18.61		0	
	64QAM	50	0	18.15	18.06	18.31	0-3	0
		50	25	18.21	18.09	18.49		0
		50	50	18.13	18.14	18.52		0
		100	0	18.08	18.08	18.48		0
256QAM	1	0	18.31	18.19	18.40	0-5	0	
	1	50	18.28	18.12	18.57		0	
	1	99	18.38	18.39	18.74		0	
	50	0	18.17	18.04	18.30		0	
	50	25	18.24	18.10	18.50		0	
	50	50	18.17	18.16	18.58		0	
	100	0	18.13	18.12	18.49		0	

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### 9.3.1 LTE Band 25 Antenna I

**Table 9-22**  
**LTE Band 25 (PCS) Antenna I Measured  $P_{Limit}$  for DSI = 0 (Body-worn/Phablet), and/or DSI = 4 (Earjack Active)**  
**- 20 MHz Bandwidth**

LTE Band 25 (PCS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26140 (1860.0 MHz)	26365 (1882.5 MHz)	26590 (1905.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	20.25	20.21	20.31	0	0
	1	50	20.23	20.05	20.66		0
	1	99	20.21	20.54	<b>21.02</b>		0
	50	0	20.25	20.22	20.52	0-1	0
	50	25	20.37	20.21	20.60		0
	50	50	20.27	20.34	<b>20.73</b>		0
	100	0	20.21	20.28	20.60	0	
16QAM	1	0	20.46	20.41	20.69	0-1	0
	1	50	20.36	20.61	20.87		0
	1	99	20.48	20.35	21.17		0
	50	0	20.34	20.25	20.55	0-2	0
	50	25	20.32	20.21	20.66		0
	50	50	20.38	20.27	20.79		0
	100	0	20.25	20.27	20.62	0	
64QAM	1	0	20.29	20.34	20.45	0-2	0
	1	50	20.37	20.37	20.73		0
	1	99	20.30	20.34	20.83		0
	50	0	20.30	20.22	20.54	0-3	0
	50	25	20.27	20.20	20.61		0
	50	50	20.28	20.26	20.64		0
	100	0	20.24	20.22	20.56	0	
256QAM	1	0	19.66	19.36	19.62	0-5	1
	1	50	19.54	19.46	19.86		1
	1	99	19.45	19.40	20.12		1
	50	0	19.34	19.34	19.67		1
	50	25	19.45	19.31	19.71		1
	50	50	19.44	19.45	19.85		1
	100	0	19.39	19.28	19.75		1

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**Table 9-23**  
**LTE Band 25 (PCS) Antenna I 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	14.71	14.57	14.70	0	0
	1	50	14.64	14.52	14.92		0
	1	99	14.71	14.58	15.16		0
	50	0	14.57	14.69	14.82	0-1	0
	50	25	14.53	14.53	14.96		0
	50	50	14.57	14.61	15.07		0
	100	0	14.51	14.50	14.97		0
16QAM	1	0	14.64	14.48	14.71	0-1	0
	1	50	14.80	14.70	15.03		0
	1	99	14.64	14.73	15.16		0
	50	0	14.63	14.50	14.81	0-2	0
	50	25	14.54	14.50	14.98		0
	50	50	14.56	14.58	15.09		0
	100	0	14.52	14.51	14.98		0
64QAM	1	0	14.54	14.47	14.88	0-2	0
	1	50	14.67	14.53	15.07		0
	1	99	14.54	14.67	15.27		0
	50	0	14.53	14.44	14.74	0-3	0
	50	25	14.44	14.42	14.85		0
	50	50	14.50	14.52	15.03		0
	100	0	14.44	14.44	14.89		0
256QAM	1	0	14.61	14.58	14.76	0-5	0
	1	50	14.65	14.51	14.96		0
	1	99	14.65	14.75	15.26		0
	50	0	14.50	14.40	14.77		0
	50	25	14.49	14.45	14.86		0
	50	50	14.49	14.54	15.00		0
	100	0	14.47	14.46	14.88		0

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### 9.3.2 LTE Band 2 Antenna I

**Table 9-24**  
**LTE Band 2 (PCS) Antenna I Measured  $P_{Limit}$  for DSI = 2 (Head)**  
**- 20 MHz Bandwidth**

LTE Band 2 (PCS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18700 (1860.0 MHz)	18900 (1880.0 MHz)	19100 (1900.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	13.51	13.52	13.79	0	0
	1	50	13.60	13.50	13.90		0
	1	99	13.54	13.67	14.10		0
	50	0	13.68	13.66	13.91	0-1	0
	50	25	13.72	13.67	14.08		0
	50	50	13.62	13.73	14.15		0
100	0	13.59	13.66	14.04	0	0	
16QAM	1	0	13.64	13.58	13.95	0-1	0
	1	50	13.63	13.63	14.06		0
	1	99	13.61	13.74	14.24		0
	50	0	13.66	13.63	13.93	0-2	0
	50	25	13.69	13.67	14.03		0
	50	50	13.67	13.83	14.10		0
100	0	13.61	13.66	14.00	0	0	
64QAM	1	0	13.83	13.70	13.86	0-2	0
	1	50	13.82	13.75	14.00		0
	1	99	13.73	13.80	14.16		0
	50	0	13.68	13.62	13.93	0-3	0
	50	25	13.69	13.61	14.05		0
	50	50	13.61	13.69	14.06		0
100	0	13.63	13.65	13.99	0	0	
256QAM	1	0	13.72	13.74	13.90	0-5	0
	1	50	13.81	13.85	14.20		0
	1	99	13.79	13.82	14.22		0
	50	0	13.68	13.61	13.93		0
	50	25	13.72	13.64	14.01		0
	50	50	13.68	13.64	14.12		0
100	0	13.61	13.67	14.03	0	0	

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### 9.3.3 LTE Band 41 Antenna B

**Table 9-25**  
**LTE Band 41 PC3 Antenna B Measured  $P_{Max}$  for DSI = 2 (Head) or DSI = 0 (Body-worn/Phablet) and/or DSI = 4 (Earjack Active)**  
**- 20 MHz Bandwidth**

LTE Band 41 20 MHz Bandwidth										
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]	
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)			
			Conducted Power [dBm]							
QPSK	1	0	24.31	24.33	24.51	24.50	24.19	0	0	
	1	50	24.43	24.35	24.41	24.45	24.15		0	
	1	99	24.41	24.30	24.50	24.46	24.23		0	
	QPSK	50	0	23.43	23.39	23.48	23.57	23.28	0-1	1
		50	25	23.51	23.49	23.59	23.58	23.32		1
		50	50	23.44	23.44	23.56	23.49	23.23		1
100		0	23.47	23.47	23.55	23.58	23.33	1		
16QAM	1	0	23.52	23.40	23.41	23.69	23.25	0-1	1	
	1	50	23.51	23.52	23.53	23.60	23.23		1	
	1	99	23.44	23.32	23.51	23.69	23.11		1	
	16QAM	50	0	22.39	22.42	22.44	22.55	22.27	0-2	2
		50	25	22.49	22.45	22.54	22.57	22.30		2
		50	50	22.48	22.43	22.54	22.51	22.24		2
100		0	22.49	22.47	22.54	22.57	22.31	2		
64QAM	1	0	22.40	22.32	22.36	22.61	22.24	0-2	2	
	1	50	22.45	22.45	22.47	22.40	22.33		2	
	1	99	22.52	22.17	22.47	22.54	22.26		2	
	64QAM	50	0	21.40	21.39	21.44	21.57	21.26	0-3	3
		50	25	21.46	21.47	21.54	21.59	21.30		3
		50	50	21.45	21.43	21.56	21.44	21.22		3
100		0	21.46	21.45	21.53	21.55	21.30	3		
256QAM	1	0	19.46	19.29	19.28	19.63	19.15	0-5	5	
	1	50	19.46	19.28	19.38	19.57	19.17		5	
	1	99	19.45	19.32	19.45	19.41	19.17		5	
	50	0	19.38	19.38	19.45	19.56	19.28		5	
	50	25	19.47	19.46	19.56	19.58	19.30		5	
	50	50	19.47	19.42	19.55	19.49	19.22		5	
100	0	19.47	19.45	19.50	19.53	19.29	5			

**Table 9-26**  
**LTE Band 41 PC2 Antenna B Measured  $P_{Max}$  for DSI = 2 (Head) or DSI = 0 (Body-worn/Phablet) 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	25.77	25.71	25.61	25.36	25.45	0	0	
	1	50	25.76	25.72	25.67	25.33	25.33		0	
	1	99	25.73	25.62	25.78	25.30	25.30		0	
	QPSK	50	0	24.74	24.74	24.73	24.40	24.37	0-1	1
		50	25	24.82	24.79	24.83	24.39	24.30		1
		50	50	24.81	24.76	24.86	24.30	24.31		1
100		0	24.82	24.78	24.82	24.38	24.33	1		

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**Table 9-27**  
**LTE Band 41 PC3 Antenna B Measured  $P_{Limit}$  for DSI = 3 (Hotspot Mode) – 20 MHz Bandwidth**

LTE Band 41 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	20.59	20.52	20.74	<b>20.78</b>	20.40	0	0
	1	50	20.57	20.52	20.65	20.70	20.36		0
	1	99	20.45	20.49	20.76	20.65	20.39		0
	50	0	20.64	20.59	20.65	20.79	20.50	0-1	0
	50	25	20.68	20.67	20.77	<b>20.82</b>	20.53		0
	50	50	20.64	20.63	20.78	20.71	20.47		0
16QAM	100	0	20.67	20.66	20.75	20.77	20.53	0-1	0
	1	0	20.62	20.63	20.66	20.87	20.43		0
	1	50	20.75	20.64	20.83	20.93	20.56		0
	50	0	20.60	20.61	20.67	20.76	20.48	0-2	0
	50	25	20.68	20.65	20.77	20.78	20.52		0
	50	50	20.66	20.61	20.75	20.70	20.47		0
64QAM	100	0	20.65	20.65	20.77	20.77	20.50	0-2	0
	1	0	20.56	20.61	20.60	20.66	20.34		0
	1	50	20.62	20.70	20.76	20.71	20.58		0
	1	99	20.45	20.52	20.75	20.66	20.34	0-3	0
	50	0	20.56	20.55	20.65	20.77	20.47		0
	50	25	20.67	20.65	20.75	20.78	20.50		0
256QAM	50	50	20.62	20.64	20.76	20.68	20.44	0-5	0
	100	0	20.64	20.64	20.72	20.78	20.49		0
	1	0	19.44	19.35	19.31	19.52	19.24		1
	1	50	19.45	19.35	19.45	19.50	19.08	1	
	1	99	19.48	19.34	19.52	19.43	19.13	1	
	50	0	19.36	19.39	19.44	19.56	19.27	1	
50	25	19.46	19.46	19.54	19.58	19.31	1		
50	50	19.43	19.43	19.59	19.48	19.23	1		
100	0	19.46	19.46	19.54	19.57	19.30	1		

**Table 9-28**  
**LTE Band 41 PC2 Antenna B Measured  $P_{Limit}$  for DSI = 3 (Hotspot Mode) – 20 MHz Bandwidth**

LTE Band 41 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	22.33	22.29	22.30	<b>22.45</b>	22.11	0	0
	1	50	22.31	22.28	22.29	22.42	22.10		0
	1	99	22.27	22.21	22.35	22.41	22.14		0
	50	0	22.34	22.30	22.35	<b>22.49</b>	22.16	0-1	0
	50	25	22.41	22.37	22.47	22.48	22.21		0
	50	50	22.39	22.35	22.44	22.39	22.10		0
100	0	22.42	22.37	22.43	22.44	22.17	0		

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### 9.3.4 LTE Band 41 Antenna I

**Table 9-29**  
**LTE Band 41 PC3 Antenna I Measured  $P_{Limit}$  for DSI = 0 (Body-worn/Phablet), and/or DSI = 4 (Earjack Active)**  
**- 20 MHz Bandwidth**

LTE Band 41 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	22.14	22.30	22.59	22.55	22.00	0	0
	1	50	22.28	22.49	22.51	22.53	22.06		0
	1	99	22.32	22.54	22.58	22.56	22.01		0
	50	0	22.16	22.49	22.60	22.58	22.12	0-1	0
	50	25	22.26	22.57	22.73	22.56	22.14		0
	50	50	22.31	22.55	22.71	22.50	22.07		0
16QAM	100	0	22.26	22.55	22.58	22.57	22.16	0-1	0
	1	0	22.19	22.40	22.60	22.59	22.10		0
	1	50	22.24	22.67	22.67	22.52	22.05		0
	1	99	22.24	22.50	22.74	22.54	22.07	0-2	0
	50	0	22.18	22.49	22.61	22.61	22.14		0
	50	25	22.27	22.58	22.71	22.61	22.16		0
64QAM	50	50	22.30	22.55	22.71	22.48	22.06	0-2	0
	100	0	22.27	22.59	22.68	22.57	22.13		0
	1	0	22.22	22.40	22.51	22.60	22.18		0-3
	1	50	22.12	22.52	22.64	22.48	22.05	0	
	1	99	22.21	22.52	22.78	22.55	22.13	0	
	256QAM	50	0	21.47	21.80	21.91	21.88	21.47	0-3
50		25	21.59	21.89	22.01	21.91	21.46	0.5	
50		50	21.62	21.82	22.01	21.78	21.42	0.5	
100		0	21.59	21.86	21.99	21.89	21.46	0-5	0.5
1		0	19.47	19.57	19.93	19.84	19.41		2.5
1		50	19.48	19.84	20.00	19.65	19.40		2.5
256QAM	1	99	19.54	19.84	19.93	19.76	19.39	0-5	2.5
	50	0	19.47	19.77	19.87	19.86	19.43		2.5
	50	25	19.57	19.84	20.01	19.85	19.43		2.5
	50	50	19.59	19.83	19.99	19.78	19.35	2.5	
	100	0	19.53	19.85	19.99	19.85	19.43	2.5	

**Table 9-30**  
**LTE Band 41 PC2 Antenna I Measured  $P_{Limit}$  for DSI = 0 (Body-worn/Phablet), 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	23.80	24.10	24.33	24.21	23.83	0	0
	1	50	23.88	24.13	24.36	24.13	23.70		0
	1	99	23.88	24.22	24.45	24.16	23.80		0
	50	0	23.50	23.80	23.89	23.88	23.44	0-1	0
	50	25	23.59	23.88	23.97	23.89	23.44		0
	50	50	23.62	23.84	23.98	23.76	23.37		0
100	0	23.58	23.87	23.90	23.88	23.43	0		

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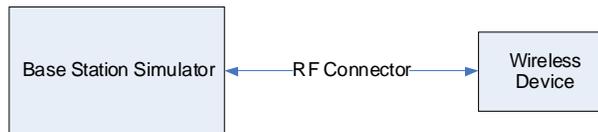
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**Table 9-31**  
**LTE Band 41 PC3 Antenna I Measured  $P_{Limit}$  for DSI = 3 (Hotspot Mode) – 20 MHz Bandwidth**

LTE Band 41 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	20.19	20.41	20.44	20.46	20.13	0	0
	1	50	20.25	20.50	20.49	20.39	20.09		0
	1	99	20.25	20.53	20.57	20.38	20.16		0
	50	0	20.19	20.47	20.59	20.58	20.14	0-1	0
	50	25	20.30	20.55	20.70	20.60	20.13		0
	50	50	20.33	20.54	20.69	20.49	20.06		0
16QAM	100	0	20.32	20.55	20.55	20.55	20.14	0-1	0
	1	0	20.13	20.33	20.58	20.58	20.15		0
	1	50	20.22	20.57	20.72	20.49	20.16		0
	1	99	20.30	20.51	20.65	20.53	20.12	0-2	0
	50	0	20.17	20.43	20.61	20.56	20.15		0
	50	25	20.25	20.52	20.69	20.58	20.17		0
64QAM	50	50	20.31	20.51	20.66	20.49	20.10	0-2	0
	100	0	20.25	20.55	20.71	20.56	20.17		0
	1	0	20.05	20.36	20.56	20.49	20.04		0-2
	1	50	20.15	20.43	20.60	20.52	20.10	0	
	1	99	20.17	20.53	20.67	20.47	20.14	0	
	256QAM	50	0	20.17	20.45	20.55	20.53	20.13	0-3
50		25	20.28	20.54	20.65	20.56	20.13	0	
50		50	20.30	20.52	20.69	20.47	20.07	0	
100		0	20.23	20.54	20.64	20.56	20.14	0-5	0
1		0	19.40	19.68	19.89	19.95	19.33		0.5
1		50	19.43	19.78	19.95	19.75	19.31		0.5
256QAM	1	99	19.64	19.92	20.01	19.74	19.30	0-5	0.5
	50	0	19.45	19.76	19.90	19.85	19.41		0.5
	50	25	19.53	19.86	19.97	19.85	19.44		0.5
	50	50	19.61	19.85	19.96	19.72	19.35	0.5	
	100	0	19.53	19.84	19.98	19.84	19.42	0.5	

**Table 9-32**  
**LTE Band 41 PC2 Antenna I 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	21.78	22.17	22.20	22.08	21.87	0	0
	1	50	21.88	22.28	22.29	22.06	21.87		0
	1	99	21.91	22.28	22.36	22.23	21.87		0
	50	0	21.89	22.21	22.30	22.28	21.81	0-1	0
	50	25	21.99	22.29	22.37	22.26	21.83		0
	50	50	22.02	22.28	22.40	22.17	21.80		0
100	0	21.97	22.27	22.34	22.25	21.83	0		



**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 n5

**Table 9-33**  
**NR Band n5 Measured  $P_{Max}$  for DSI = 2 (Head) or DSI = 0 (Body-worn/Phablet) 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 QPSK	1	1	24.57	0	0.0
	1	53	<b>24.59</b>		0.0
	1	104	24.43		0.0
	50	0	23.79	0-1	1.0
	50	28	<b>24.81</b>	0	0.0
	50	56	23.66	0-1	1.0
	100	0	23.81		1.0
DFT-s-OFDM 16QAM	1	1	24.14	0-1	1.0
CP-OFDM QPSK	1	1	23.32	0-1.5	1.5

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**Table 9-34**  
**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 QPSK	1	1	23.63	0	0.0
	1	53	<b>23.77</b>		0.0
	1	104	23.54		0.0
	50	0	23.77	0-1	0.4
	50	28	<b>23.81</b>	0	0.0
	50	56	23.70	0-1	0.4
	100	0	23.75		0.4
DFT-s-OFDM 16QAM	1	1	24.12	0-1	0.4
CP-OFDM QPSK	1	1	23.17	0-1.5	0.9

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## 9.4.2 NR Band n66 Antenna A

**Table 9-35**  
**NR Band n66 Antenna A Measured  $P_{Limit}$  for DSI = 0 (Body-worn/Phablet),**  
**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 QPSK	1	1	<b>20.08</b>	0	0.0
	1	108	19.90		0.0
	1	214	19.83		0.0
	108	0	<b>20.10</b>	0-1	0.0
	108	54	20.06	0	0.0
	108	108	20.04	0-1	0.0
	216	0	20.03		0.0
DFT-s-OFDM 16QAM	1	1	20.40	0-1	0.0
CP-OFDM QPSK	1	1	20.15	0-1.5	0.0

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**Table 9-36**  
**NR Band n66 Antenna A Measured  $P_{Max}$  for DSI = 2 (Head) - 40 MHz Bandwidth**

NR Band n66 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			349000 (1745 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	24.77	0	0.0
	1	108	24.60		0.0
	1	214	24.59		0.0
	108	0	23.82	0-1	1.0
	108	54	24.79	0	0.0
	108	108	23.77	0-1	1.0
	216	0	23.84		1.0
DFT-s-OFDM 16QAM	1	1	24.19	0-1	1.0
CP-OFDM QPSK	1	1	23.40	0-1.5	1.5

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**Table 9-37**  
**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 QPSK	1	1	<b>18.07</b>	0	0.0
	1	108	17.91		0.0
	1	214	17.85		0.0
	108	0	<b>18.13</b>	0-1	0.0
	108	54	18.10	0	0.0
	108	108	18.09	0-1	0.0
	216	0	18.03		0.0
DFT-s-OFDM 16QAM	1	1	18.57	0-1	0.0
CP-OFDM QPSK	1	1	18.14	0-1.5	0.0

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### 9.4.3 NR Band n66 Antenna I

**Table 9-38**  
**NR Band n66 Antenna I Measured  $P_{Limit}$  for DSI = 0 (Body-worn/Phablet), and/or DSI = 4 (Earjack Active) - 40 MHz Bandwidth**

NR Band n66 40 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	349000 (1745 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	21.46	0	0.0
	1	108	21.11		0.0
	1	214	21.10		0.0
	108	0	21.35	0-1	0.0
	108	54	21.20	0	0.0
	108	108	21.14	0-1	0.0
	216	0	21.17		0.0
DFT-s-OFDM 16QAM	1	1	21.61	0-1	0.0
CP-OFDM QPSK	1	1	21.60	0-1.5	0.0

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**Table 9-39**  
**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					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	349000 (1745 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	17.51	0	0.0
	1	108	17.17		0.0
	1	214	17.12		0.0
	108	0	17.39	0-1	0.0
	108	54	17.21	0	0.0
	108	108	17.19	0-1	0.0
	216	0	17.21		0.0
DFT-s-OFDM 16QAM	1	1	17.53	0-1	0.0
CP-OFDM QPSK	1	1	17.55	0-1.5	0.0

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## 9.4.4 NR Band n25 Antenna A

**Table 9-40**  
**NR Band n25 Antenna A Measured  $P_{Limit}$  for DSI = 0 (Body-worn/Phablet),**  
**and/or DSI = 4 (Earjack Active) - 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 QPSK	1	1	21.97	0	0.0
	1	108	21.91		0.0
	1	214	<b>22.13</b>		0.0
	108	0	21.96	0-1	0.0
	108	54	21.93	0	0.0
	108	108	<b>22.06</b>	0-1	0.0
	216	0	22.02		0.0
DFT-s-OFDM 16QAM	1	1	21.94	0-1	0.0
CP-OFDM QPSK	1	1	21.92	0-1.5	0.0

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**Table 9-41**  
**NR Band n25 Antenna A Measured  $P_{Max}$  for DSI = 2 (Head) - 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 QPSK	1	1	24.83	0	0.0
	1	108	24.83		0.0
	1	214	<b>25.08</b>		0.0
	108	0	23.85	0-1	1.0
	108	54	<b>24.84</b>	0	0.0
	108	108	24.01	0-1	1.0
	216	0	23.93		1.0
DFT-s-OFDM 16QAM	1	1	23.87	0-1	1.0
CP-OFDM QPSK	1	1	23.33	0-1.5	1.5

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**Table 9-42**  
**NR Band n25 Antenna A Measured  $P_{Limit}$  for DSI = 3 (Hotspot Mode) - 40 MHz Bandwidth**

NR Band n25 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	376500 (1882.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	18.46	0	0.0
	1	108	18.40		0.0
	1	214	<b>18.65</b>		0.0
	108	0	18.43	0-1	0.0
	108	54	18.37	0	0.0
	108	108	<b>18.54</b>	0-1	0.0
	216	0	18.47		0.0
DFT-s-OFDM 16QAM	1	1	18.42	0-1	0.0
CP-OFDM QPSK	1	1	18.32	0-1.5	0.0

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## 9.4.5 NR Band n25 Antenna I

**Table 9-43**  
**NR Band n25 Antenna I Measured  $P_{Limit}$  for DSI = 0 (Body-worn/Phablet), or**  
**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 QPSK	1	1	21.28	0	0.0
	1	108	21.24		0.0
	1	214	<b>21.58</b>		0.0
	108	0	21.32	0-1	0.0
	108	54	21.25	0	0.0
	108	108	<b>21.38</b>	0-1	0.0
	216	0	21.31		0.0
DFT-s-OFDM 16QAM	1	1	21.35	0-1	0.0
CP-OFDM QPSK	1	1	21.54	0-1.5	0.0

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**Table 9-44**  
**NR Band n25 Antenna I Measured  $P_{Limit}$  for DSI = 2 (Head) - 40 MHz Bandwidth**

NR Band n25 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			376500 (1882.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	14.26	0	0.0
	1	108	14.22		0.0
	1	214	<b>14.53</b>		0.0
	108	0	14.27	0-1	0.0
	108	54	14.21	0	0.0
	108	108	<b>14.36</b>	0-1	0.0
	216	0	14.29		0.0
DFT-s-OFDM 16QAM	1	1	14.20	0-1	0.0
CP-OFDM QPSK	1	1	14.31	0-1.5	0.0

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**Table 9-45**  
**NR Band n25 Antenna I Measured  $P_{Limit}$  for DSI = 3 (Hotspot Mode) - 40 MHz Bandwidth**

NR Band n25 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			376500 (1882.5 MHz)  Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	15.01	0	0.0
	1	108	14.88		0.0
	1	214	<b>15.19</b>		0.0
	108	0	14.98	0-1	0.0
	108	54	14.91	0	0.0
	108	108	<b>15.05</b>	0-1	0.0
	216	0	15.03		0.0
DFT-s-OFDM 16QAM	1	1	14.94	0-1	0.0
CP-OFDM QPSK	1	1	14.99	0-1.5	0.0

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## 9.4.6 NR Band n41 Antenna I

**Table 9-46**  
**NR Band n41 Antenna I Measured  $P_{Limit}$  for DSI = 0 (Body-worn/Phablet), or**  
**and/or DSI = 4 (Earjack Active) - 100 MHz Bandwidth**

NR Band n41 100 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			518598 (2592.99 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	20.46	0	0.0
	1	137	<b>20.57</b>		0.0
	1	271	20.25		0.0
	135	0	20.37	0-1	0.0
	135	69	<b>20.50</b>	0	0.0
	135	138	20.38	0-1	0.0
	270	0	20.42		0.0
DFT-s-OFDM 16QAM	1	1	20.10	0-1	0.0
CP-OFDM QPSK	1	1	20.39	0-1.5	0.0

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**Table 9-47**  
**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 QPSK	1	1	13.39	0	0.0
	1	137	<b>13.51</b>		0.0
	1	271	13.28		0.0
	135	0	13.41	0-1	0.0
	135	69	<b>13.48</b>	0	0.0
	135	138	13.45	0-1	0.0
	270	0	13.43		0.0
DFT-s-OFDM 16QAM	1	1	13.13	0-1	0.0
CP-OFDM QPSK	1	1	13.38	0-1.5	0.0

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**Table 9-48**  
**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 QPSK	1	1	18.28	0	0.0
	1	137	<b>18.33</b>		0.0
	1	271	17.98		0.0
	135	0	18.20	0-1	0.0
	135	69	<b>18.34</b>	0	0.0
	135	138	18.22	0-1	0.0
	270	0	18.27		0.0
DFT-s-OFDM 16QAM	1	1	18.08	0-1	0.0
CP-OFDM QPSK	1	1	18.18	0-1.5	0.0

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### 9.4.7 NR Band n41 Antenna B

**Table 9-49**  
**NR Band n41 Antenna B Measured  $P_{Limit}$  for DSI = 0 (Body-worn/Phablet), or and/or DSI = 4 (Earjack Active) – 100 MHz Bandwidth**

NR Band n41 100 MHz Bandwidth	
Channel	
Antenna	518598 (2592.99 MHz)
	Conducted Power [dBm]
SRS #2 Ant B	20.27

**Table 9-50**  
**NR Band n41 Antenna B Measured  $P_{Limit}$  for DSI = 2 (Head) - 100 MHz Bandwidth**

NR Band n41 100 MHz Bandwidth	
Channel	
Antenna	518598 (2592.99 MHz)
	Conducted Power [dBm]
SRS #2 Ant B	13.36

**Table 9-51**  
**NR Band n41 Antenna B Measured  $P_{Limit}$  for DSI = 3 (Hotspot Mode) - 100 MHz Bandwidth**

NR Band n41 100 MHz Bandwidth	
Channel	
Antenna	518598 (2592.99 MHz)
	Conducted Power [dBm]
SRS #2 Ant B	18.18

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### 9.4.8 NR Band n41 Antenna F

Table 9-52

NR Band n41 Antenna F Measured  $P_{Limit}$  for DSI = 0 (Body-worn/Phablet), DSI = 2 (Head), DSI = 3 (Hotspot Mode) and/or DSI = 4 (Earjack Active) – 100 MHz Bandwidth

NR Band n41 100 MHz Bandwidth	
Channel	
Antenna	518598 (2592.99 MHz)
	Conducted Power [dBm]
SRS #3 Ant F	5.22

### 9.4.9 NR Band n41 Antenna C

Table 9-53

NR Band n41 Antenna C Measured  $P_{Limit}$  for DSI = 0 (Body-worn/Phablet), DSI = 2 (Head), DSI = 3 (Hotspot Mode) and/or DSI = 4 (Earjack Active) – 100 MHz Bandwidth

NR Band n41 100 MHz Bandwidth	
Channel	
Antenna	518598 (2592.99 MHz)
	Conducted Power [dBm]
SRS #4 Ant C	11.01

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9.4.10

NR Band n77 DoD Antenna F

Table 9-54  
 NR Band n77 DoD Measured  $P_{Limit}$  for DSI = 0 (Body-worn/Phablet),  
 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 QPSK	1	1	16.08	0	0.0
	1	137	15.99		0.0
	1	271	<b>16.51</b>		0.0
	135	0	16.00	0-1	0.0
	135	69	16.04	0	0.0
	135	138	<b>16.18</b>	0-1	0.0
	270	0	16.14		0.0
DFT-s-OFDM 16QAM	1	1	15.89	0-1	0.0
CP-OFDM QPSK	1	1	16.02	0-1.5	0.0

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**Table 9-55**  
**NR Band n77 DoD 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 QPSK	1	1	12.04	0	0.0
	1	137	11.98		0.0
	1	271	12.45		0.0
	135	0	12.00	0-1	0.0
	135	69	12.07	0	0.0
	135	138	12.18	0-1	0.0
	270	0	12.14		0.0
DFT-s-OFDM 16QAM	1	1	11.85	0-1	0.0
CP-OFDM QPSK	1	1	11.95	0-1.5	0.0

**Table 9-56**  
**NR Band n77 DoD 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 QPSK	1	1	13.57	0	0.0
	1	137	13.47		0.0
	1	271	13.98		0.0
	135	0	13.50	0-1	0.0
	135	69	13.56	0	0.0
	135	138	13.68	0-1	0.0
	270	0	13.64		0.0
DFT-s-OFDM 16QAM	1	1	13.23	0-1	0.0
CP-OFDM QPSK	1	1	13.46	0-1.5	0.0

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9.4.11 NR Band n77 DoD Antenna I, E, C

**Table 9-57**  
**NR Band n77 DoD Measured  $P_{Limit}$  for DSI = 0 (Body-worn/Phablet),**  
**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	13.51
SRS #3 Ant E	15.07
SRS #4 Ant C	12.34

**Table 9-58**  
**NR Band n77 DoD Measured  $P_{Limit}$  for DSI = 2 (Head) – 100 MHz Bandwidth**

NR Band n77 DoD 100 MHz Bandwidth	
Channel	
Antenna	633334 (3500.01 MHz)
	Conducted Power [dBm]
SRS #2 Ant I	9.51
SRS #3 Ant E	11.05
SRS #4 Ant C	8.31

**Table 9-59**  
**NR Band n77 DoD Measured  $P_{Limit}$  for DSI = 3 (Hotspot Mode) – 100 MHz Bandwidth**

NR Band n77 DoD 100 MHz Bandwidth	
Channel	
Antenna	633334 (3500.01 MHz)
	Conducted Power [dBm]
SRS #2 Ant I	11.00
SRS #3 Ant E	12.56
SRS #4 Ant C	9.79

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## 9.4.12 NR Band n77 C-Band Antenna F

Table 9-60  
NR Band n77 C-Band Measured  $P_{Limit}$  for DSI = 0 (Body-worn/Phablet),  
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 QPSK	1	1	16.76	16.43	0	0.0
	1	137	17.21	16.62		0.0
	1	271	<b>17.49</b>	16.54		0.0
	135	0	17.01	16.45	0-1	0.0
	135	69	17.22	16.56	0	0.0
	135	138	<b>17.33</b>	16.55	0-1	0.0
	270	0	17.18	16.52		0.0
DFT-s-OFDM 16QAM	1	1	16.59	16.67	0-1	0.0
CP-OFDM QPSK	1	1	16.77	16.45	0-1.5	0.0

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**Table 9-61**  
**NR Band n77 C-Band Measured  $P_{Limit}$  for DSI = 2 (Head) - 100 MHz Bandwidth**

NR Band n77 100 MHz Bandwidth						
Modulation	RB Size	RB Offset	Channel		MPR Allowed per 3GPP [dB]	MPR [dB]
			650000 (3750 MHz)	662000 (3930 MHz)		
			Conducted Power [dBm]			
DFT-s-OFDM QPSK	1	1	12.62	12.31	0	0.0
	1	137	13.13	12.56		0.0
	1	271	<b>13.39</b>	12.34		0.0
	135	0	12.94	12.28	0-1	0.0
	135	69	13.12	12.35	0	0.0
	135	138	<b>13.25</b>	12.23	0-1	0.0
	270	0	13.12	12.32		0.0
DFT-s-OFDM 16QAM	1	1	12.50	12.42	0-1	0.0
CP-OFDM QPSK	1	1	12.62	12.11	0-1.5	0.0

**Table 9-62**  
**NR Band n77 C-Band Measured  $P_{Limit}$  for DSI = 3 (Hotspot Mode) - 100 MHz Bandwidth**

NR Band n77 100 MHz Bandwidth						
Modulation	RB Size	RB Offset	Channel		MPR Allowed per 3GPP [dB]	MPR [dB]
			650000 (3750 MHz)	662000 (3930 MHz)		
			Conducted Power [dBm]			
DFT-s-OFDM QPSK	1	1	14.22	13.94	0	0.0
	1	137	14.74	14.08		0.0
	1	271	<b>14.99</b>	14.04		0.0
	135	0	14.48	13.88	0-1	0.0
	135	69	14.68	13.95	0	0.0
	135	138	<b>14.81</b>	13.89	0-1	0.0
	270	0	14.66	13.87		0.0
DFT-s-OFDM 16QAM	1	1	14.11	14.04	0-1	0.0
CP-OFDM QPSK	1	1	14.20	13.73	0-1.5	0.0

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

**Table 9-63**  
**NR Band n77 C-Band Measured  $P_{Limit}$  for DSI = 0 (Body-worn/Phablet),**  
**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	14.28	13.75
SRS #3 Ant E	15.08	14.72
SRS #4 Ant C	13.41	13.40

**Table 9-64**  
**NR Band n77 C-Band Measured  $P_{Limit}$  for DSI = 2 (Head) – 100 MHz Bandwidth**

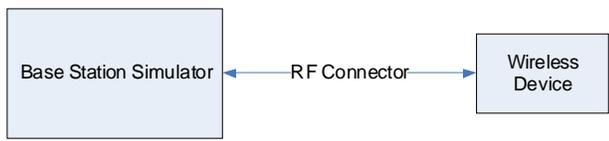
NR Band n77 100 MHz Bandwidth		
Channel		
Antenna	650000 (3750 MHz)	662000 (3930 MHz)
	Conducted Power [dBm]	
SRS #2 Ant I	10.20	9.84
SRS #3 Ant E	11.01	10.67
SRS #4 Ant C	9.41	9.39

**Table 9-65**  
**NR Band n77 C-Band Measured  $P_{Limit}$  for DSI = 3 (Hotspot Mode) – 100 MHz Bandwidth**

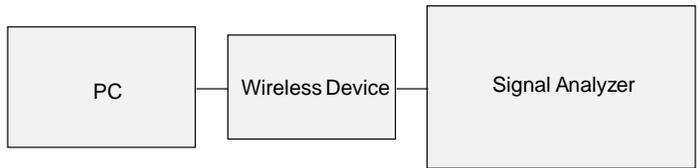
NR Band n77 100 MHz Bandwidth		
Channel		
Antenna	650000 (3750 MHz)	662000 (3930 MHz)
	Conducted Power [dBm]	
SRS #2 Ant I	11.77	11.31
SRS #3 Ant E	12.54	12.18
SRS #4 Ant C	10.90	10.86

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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 9-66

2.4 GHz WLAN Measured  $P_{Max}$  Average RF Power for DSI = 0 (Body-worn or Phablet), DSI = 3 (Hotspot) or DSI = 4 (Earjack Active) – Ant 2

2.4GHz Conducted Power [dBm]						
Freq [MHz]	Channel	IEEE Transmission Mode				
		802.11b	802.11g	802.11n	802.11ac	802.11ax
		Average	Average	Average	Average	Average
2412	1	18.65	17.41	17.34	16.50	16.59
2437	6	18.51	17.65	17.51	16.41	16.52
2462	11	18.64	17.70	17.55	16.55	16.74

Table 9-67

2.4 GHz WLAN Measured  $P_{Max}$  Average RF Power for DSI = 0 (Body-worn or Phablet), DSI = 3 (Hotspot) or DSI = 4 (Earjack Active) – MIMO

2.4GHz 802.11b Conducted Power [dBm]				
Freq [MHz]	Channel	ANT1	ANT2	MIMO
2412	1	18.74	18.96	21.86
2437	6	18.97	18.76	21.88
2462	11	18.95	18.87	21.92

Table 9-68

2.4 GHz WLAN Measured  $P_{Limit}$  Average RF Power for DSI = 2 (Head) – Ant 2

2.4GHz Conducted Power [dBm]						
Freq [MHz]	Channel	IEEE Transmission Mode				
		802.11b	802.11g	802.11n	802.11ac	802.11ax
		Average	Average	Average	Average	Average
2412	1	12.00	11.75	11.67	11.72	11.64
2437	6	11.84	11.68	11.46	11.59	11.56
2462	11	11.89	11.54	11.50	11.64	11.51

Table 9-69

2.4 GHz WLAN Measured  $P_{Limit}$  Average RF Power for DSI = 2 (Head) – MIMO

2.4GHz 802.11n Conducted Power [dBm]				
Freq [MHz]	Channel	ANT1	ANT2	MIMO
2412	1	8.86	8.66	11.77
2437	6	8.61	8.40	11.52
2462	11	8.69	8.50	11.61

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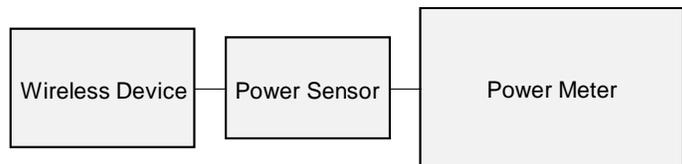
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**Table 9-70**  
**5 GHz WLAN Measured  $P_{Max}$  Average RF Power for ALL DSI States - MIMO**

5GHz (20MHz) 802.11n Conducted Power [dBm]				
Freq [MHz]	Channel	ANT1	ANT2	MIMO
5180	36	15.92	15.34	18.65
5200	40	15.86	15.42	18.66
5220	44	15.71	15.06	18.41
5240	48	15.63	15.10	18.38
5260	52	15.72	15.68	18.71
5280	56	15.63	15.75	18.70
5300	60	15.52	15.76	18.65
5320	64	15.73	15.47	18.61
5500	100	15.77	15.76	18.78
5600	120	15.62	15.23	18.44
5620	124	15.51	15.23	18.38
5720	144	15.69	15.86	18.79
5745	149	15.67	15.49	18.59
5785	157	15.61	15.54	18.59
5825	165	15.93	15.82	18.89
5845	169	15.81	15.78	18.81
5865	173	15.71	15.69	18.71
5885	177	15.99	15.40	18.72

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

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



**Figure 9-6**  
**Power Measurement Setup**

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## 9.6 Bluetooth Conducted Powers

Table 9-71  
Bluetooth Average RF Power for all DSI – Antenna 1

Frequency [MHz]	Data Rate [Mbps]	Mod.	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	1.0	GFSK	0	15.03	31.851
2441	1.0	GFSK	39	16.40	43.612
2480	1.0	GFSK	78	15.12	32.482
Frequency [MHz]	Data Rate [Mbps]	Channel No.	Bluetooth Mode	Peak Conducted Power	
				[dBm]	[mW]
2402	1.0	0	LE	15.26	33.574
2440	1.0	19	LE	16.42	43.863
2480	1.0	39	LE	15.17	32.847

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**Table 9-72  
Bluetooth Average RF Power for all DSI – Antenna 2**

Frequency [MHz]	Data Rate [Mbps]	Mod.	Channel No.	Avg Conducted Power	
				[dBm]	[mW]
2402	1.0	GFSK	0	16.59	45.556
2441	1.0	GFSK	39	16.74	47.227
2480	1.0	GFSK	78	15.49	35.419
Frequency [MHz]	Data Rate [Mbps]	Channel No.	Bluetooth Mode	Peak Conducted Power	
				[dBm]	[mW]
2402	1.0	0	LE	18.29	67.391
2440	1.0	19	LE	18.23	66.481
2480	1.0	39	LE	17.12	51.523

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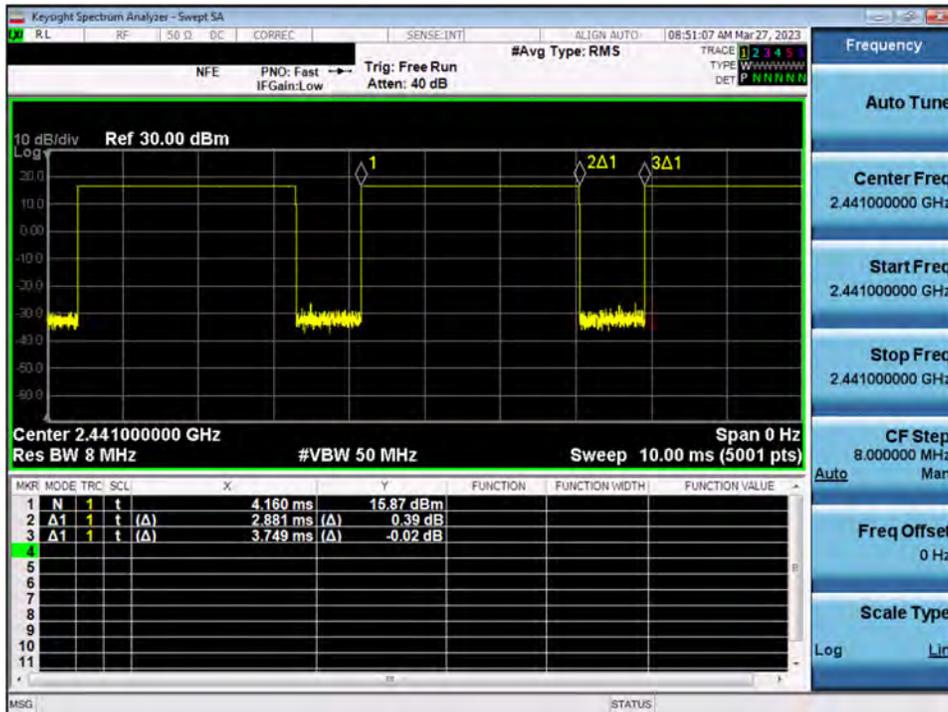


Figure 9-7  
Bluetooth Antenna 1 Transmission Plot

Equation 9-1  
Bluetooth Antenna 1 Duty Cycle Calculation

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.881ms}{3.749ms} * 100\% = 76.8\%$$

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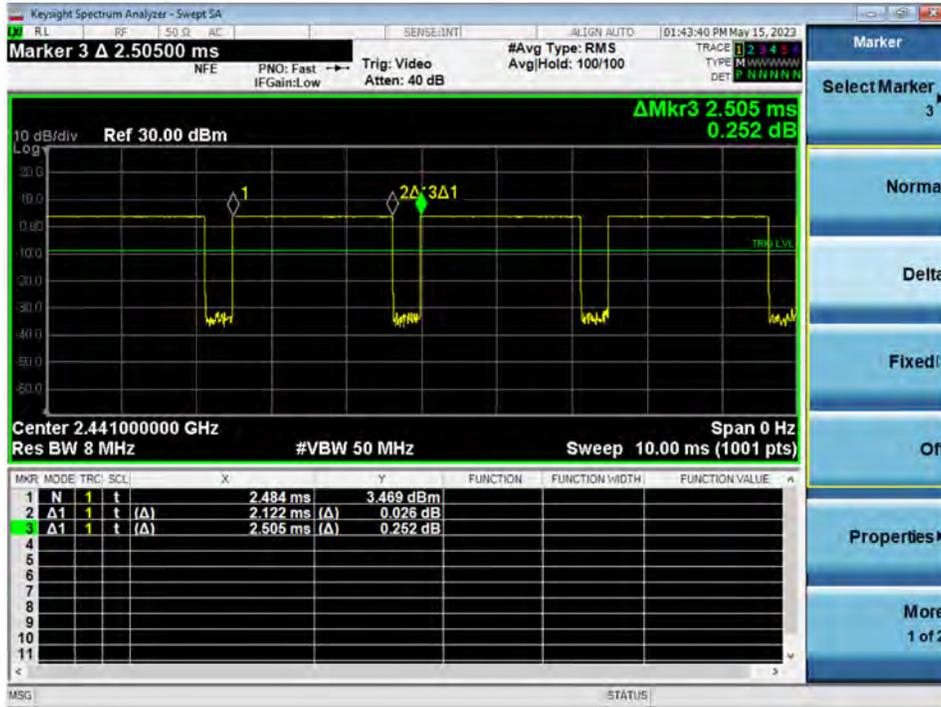


Figure 9-8  
Bluetooth Low Energy Antenna 1 Transmission Plot

Equation 9-2  
Bluetooth Low Energy Antenna 1 Duty Cycle Calculation

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.122ms}{2.505ms} * 100\% = 84.7\%$$

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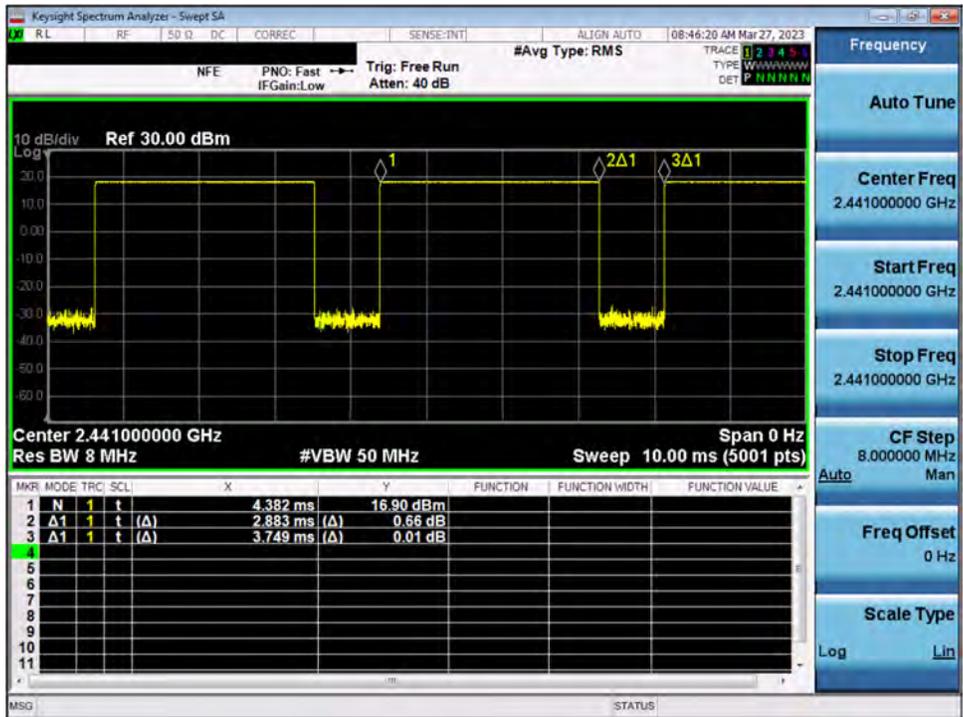


Figure 9-9  
Bluetooth Antenna 2 Transmission Plot

Equation 9-3  
Bluetooth Antenna 2 Duty Cycle Calculation

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.883ms}{3.749ms} * 100\% = 76.9\%$$

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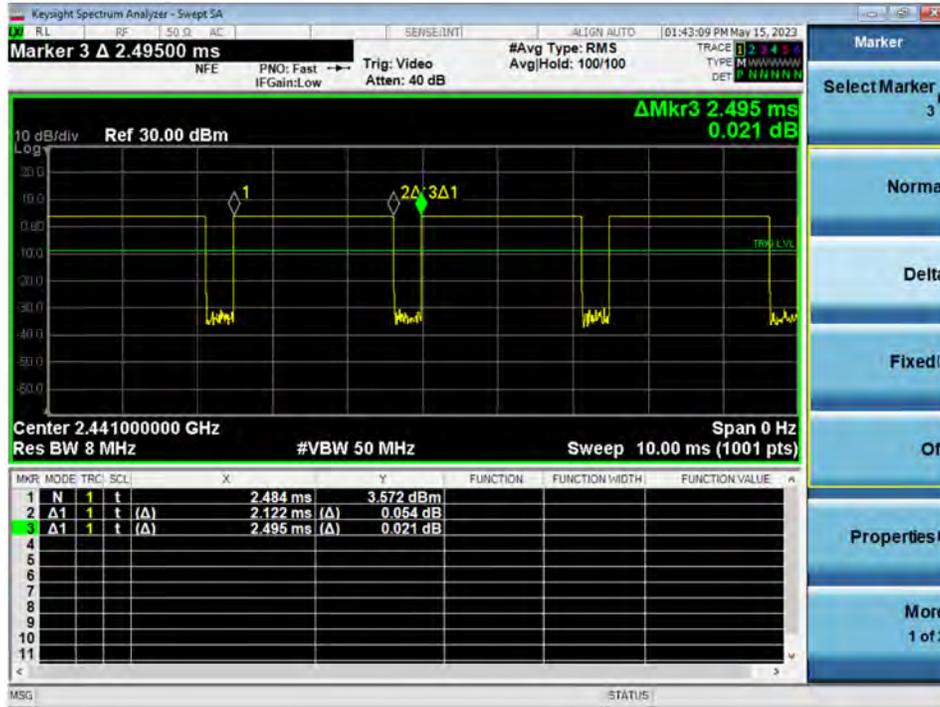


Figure 9-10  
Bluetooth Low Energy Antenna 2 Transmission Plot

Equation 9-4  
Bluetooth Low Energy Antenna 2 Duty Cycle Calculation

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.122ms}{2.495ms} * 100\% = 85.1\%$$

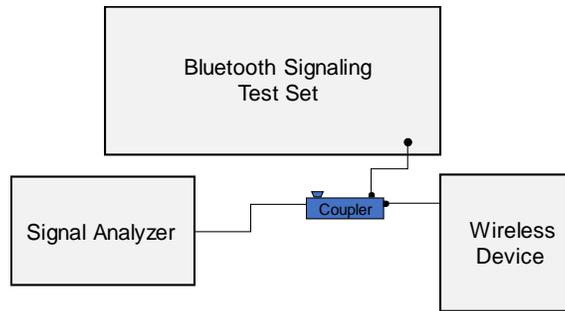


Figure 9-11  
Power Measurement Setup

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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, $\sigma$ (S/m)	Measured Dielectric Constant, $\epsilon$	TARGET Conductivity, $\sigma$ (S/m)	TARGET Dielectric Constant, $\epsilon$	% dev $\sigma$	% dev $\epsilon$
04/25/2023	30 Head	21.1	12	0.717	57.149	0.750	55.000	-4.40%	3.91%
			13	0.717	56.637	0.750	55.000	-4.40%	2.98%
			14	0.717	56.227	0.750	55.000	-4.40%	2.23%
04/03/2023	750 Head	23.5	680	0.858	42.895	0.888	42.305	-3.38%	1.39%
			695	0.862	42.855	0.889	42.227	-3.04%	1.49%
			700	0.864	42.842	0.889	42.201	-2.81%	1.52%
			710	0.867	42.816	0.890	42.149	-2.58%	1.58%
			725	0.871	42.777	0.891	42.071	-2.24%	1.68%
			750	0.879	42.715	0.894	41.942	-1.68%	1.84%
			770	0.886	42.664	0.895	41.838	-1.01%	1.97%
			785	0.891	42.626	0.896	41.760	-0.56%	2.07%
			800	0.895	42.584	0.897	41.682	-0.22%	2.16%
04/03/2023	835 Head	23.5	815	0.900	42.540	0.898	41.594	0.22%	2.27%
			820	0.902	42.528	0.899	41.578	0.33%	2.28%
			835	0.907	42.489	0.900	41.500	0.78%	2.38%
04/17/2023	835 Head	23.3	850	0.912	42.459	0.916	41.500	-0.44%	2.31%
			815	0.932	41.086	0.898	41.594	-1.22%	4.28%
			820	0.934	41.069	0.899	41.578	-3.89%	-1.22%
05/30/2023	835 Head	22.0	835	0.939	41.026	0.900	41.500	-4.33%	-1.14%
			850	0.943	40.988	0.916	41.500	2.95%	-1.23%
			815	0.908	43.376	0.898	41.594	1.11%	4.28%
04/07/2023	1750 Head	21.0	820	0.910	43.364	0.899	41.578	1.22%	4.30%
			835	0.915	43.328	0.900	41.500	1.67%	4.40%
			850	0.921	43.283	0.916	41.500	0.55%	4.30%
04/07/2023	1750 Head	21.0	1710	1.335	38.965	1.348	40.142	-0.96%	-2.93%
			1720	1.345	38.918	1.354	40.126	-0.66%	-3.01%
			1745	1.372	38.776	1.368	40.087	0.29%	-3.27%
			1750	1.378	38.748	1.371	40.079	0.51%	-3.32%
			1770	1.400	38.645	1.383	40.047	1.23%	-3.50%
			1790	1.421	38.561	1.394	40.016	1.94%	-3.64%
04/07/2023	1750 Head	21.1	1710	1.294	41.903	1.348	40.142	-4.01%	4.39%
			1720	1.300	41.888	1.354	40.126	-3.99%	4.39%
			1745	1.314	41.856	1.368	40.087	-3.95%	4.41%
			1750	1.317	41.848	1.371	40.079	-3.94%	4.41%
			1770	1.327	41.813	1.383	40.047	-4.05%	4.41%
			1790	1.337	41.783	1.394	40.016	-4.09%	4.42%
06/13/2023	1750 Head	21.4	1710	1.288	40.454	1.348	40.142	-4.45%	0.78%
			1720	1.294	40.436	1.354	40.126	-4.43%	0.77%
			1745	1.309	40.392	1.368	40.087	-4.31%	0.76%
			1750	1.312	40.384	1.371	40.079	-4.30%	0.76%
			1770	1.323	40.356	1.383	40.047	-4.34%	0.77%
			1790	1.332	40.324	1.394	40.016	-4.45%	0.77%
04/10/2023	1900 Head	21.0	1850	1.372	41.420	1.400	40.000	-2.00%	3.55%
			1860	1.377	41.410	1.400	40.000	-1.64%	3.52%
			1880	1.388	41.376	1.400	40.000	-0.86%	3.44%
			1900	1.401	41.332	1.400	40.000	0.07%	3.33%
			1905	1.405	41.321	1.400	40.000	0.36%	3.30%
			1910	1.408	41.312	1.400	40.000	0.57%	3.28%
			1920	1.415	41.297	1.400	40.000	1.07%	3.24%
04/19/2023	1900 Head	24.6	1850	1.341	39.539	1.400	40.000	-4.21%	-1.15%
			1860	1.349	39.481	1.400	40.000	-3.64%	-1.30%
			1880	1.367	39.379	1.400	40.000	-2.36%	-1.55%
			1900	1.389	39.314	1.400	40.000	-0.79%	-1.72%
			1905	1.395	39.303	1.400	40.000	-0.36%	-1.74%
			1910	1.401	39.295	1.400	40.000	0.07%	-1.76%
			1920	1.413	39.279	1.400	40.000	0.93%	-1.80%
05/30/2023	1900 Head	22.0	1850	1.426	41.277	1.400	40.000	1.86%	3.19%
			1860	1.431	41.261	1.400	40.000	2.21%	3.15%
			1880	1.444	41.227	1.400	40.000	3.14%	3.07%
			1900	1.458	41.190	1.400	40.000	4.14%	2.97%
			1905	1.461	41.181	1.400	40.000	4.36%	2.95%
			1910	1.464	41.172	1.400	40.000	4.57%	2.93%
06/12/2023	1900 Head	21.2	1850	1.366	39.582	1.400	40.000	-2.43%	-1.05%
			1860	1.372	39.566	1.400	40.000	-2.00%	-1.08%
			1880	1.384	39.531	1.400	40.000	-1.14%	-1.17%
			1900	1.397	39.513	1.400	40.000	-0.21%	-1.22%
			1905	1.400	39.508	1.400	40.000	0.00%	-1.23%
			1910	1.403	39.506	1.400	40.000	0.21%	-1.24%

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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, $\sigma$ (S/m)	Measured Dielectric Constant, $\epsilon$	TARGET Conductivity, $\sigma$ (S/m)	TARGET Dielectric Constant, $\epsilon$	% dev $\sigma$	% dev $\epsilon$
04/04/2023	2450 Head	20.1	2300	1.703	39.672	1.670	39.500	1.98%	0.44%
			2310	1.711	39.651	1.679	39.480	1.91%	0.43%
			2320	1.719	39.626	1.687	39.460	1.90%	0.42%
			2400	1.780	39.457	1.756	39.289	1.37%	0.43%
			2450	1.815	39.346	1.800	39.200	0.83%	0.37%
			2480	1.837	39.298	1.833	39.162	0.22%	0.35%
			2500	1.851	39.274	1.855	39.136	-0.22%	0.35%
			2510	1.858	39.264	1.866	39.123	-0.43%	0.36%
			2535	1.875	39.223	1.893	39.092	-0.95%	0.34%
			2550	1.886	39.192	1.909	39.073	-1.20%	0.30%
			2560	1.894	39.176	1.920	39.060	-1.35%	0.30%
			2600	1.931	39.146	1.964	39.009	-1.68%	0.35%
			2650	1.970	39.040	2.018	38.945	-2.38%	0.24%
			2680	1.997	38.990	2.051	38.907	-2.63%	0.21%
2700	2.016	38.970	2.073	38.882	-2.75%	0.23%			
05/04/2023	2450 Head	20.9	2300	1.702	39.797	1.670	39.500	1.92%	0.75%
			2310	1.710	39.783	1.679	39.480	1.85%	0.77%
			2320	1.717	39.769	1.687	39.460	1.78%	0.78%
			2400	1.779	39.629	1.756	39.289	1.31%	0.87%
			2450	1.819	39.551	1.800	39.200	1.06%	0.90%
			2480	1.842	39.497	1.833	39.162	0.49%	0.86%
			2500	1.857	39.464	1.855	39.136	0.11%	0.84%
			2510	1.865	39.448	1.866	39.123	-0.05%	0.83%
			2535	1.886	39.401	1.893	39.092	-0.37%	0.79%
			2550	1.899	39.374	1.909	39.073	-0.52%	0.77%
			2560	1.908	39.356	1.920	39.060	-0.63%	0.76%
			2600	1.940	39.302	1.964	39.009	-1.22%	0.75%
			2650	1.981	39.190	2.018	38.945	-1.83%	0.63%
			2680	2.008	39.151	2.051	38.907	-2.10%	0.63%
2700	2.023	39.136	2.073	38.882	-2.41%	0.65%			
05/08/2023	2450 Head	21.1	2300	1.666	39.727	1.670	39.500	-0.24%	0.57%
			2310	1.673	39.713	1.679	39.480	-0.36%	0.59%
			2320	1.681	39.696	1.687	39.460	-0.36%	0.60%
			2400	1.740	39.587	1.756	39.289	-0.91%	0.76%
			2450	1.778	39.501	1.800	39.200	-1.22%	0.77%
			2480	1.801	39.464	1.833	39.162	-1.75%	0.77%
			2500	1.817	39.432	1.855	39.136	-2.05%	0.76%
			2510	1.825	39.415	1.866	39.123	-2.20%	0.75%
			2535	1.844	39.375	1.893	39.092	-2.59%	0.72%
			2550	1.856	39.356	1.909	39.073	-2.78%	0.72%
			2560	1.863	39.344	1.920	39.060	-2.97%	0.73%
			2600	1.895	39.284	1.964	39.009	-3.51%	0.70%
			2650	1.933	39.200	2.018	38.945	-4.21%	0.65%
			2680	1.957	39.159	2.051	38.907	-4.58%	0.65%
2700	1.972	39.127	2.073	38.882	-4.87%	0.63%			
06/01/2023	2450 Head	20.5	2300	1.699	40.886	1.670	39.500	1.74%	3.51%
			2310	1.707	40.864	1.679	39.480	1.67%	3.51%
			2320	1.715	40.839	1.687	39.460	1.66%	3.49%
			2400	1.777	40.708	1.756	39.289	1.20%	3.61%
			2450	1.817	40.599	1.800	39.200	0.94%	3.57%
			2480	1.842	40.572	1.833	39.162	0.49%	3.60%
			2500	1.857	40.544	1.855	39.136	0.11%	3.60%
			2510	1.865	40.523	1.866	39.123	-0.05%	3.58%
			2535	1.885	40.466	1.893	39.092	-0.42%	3.51%
			2550	1.898	40.440	1.909	39.073	-0.58%	3.50%
			2560	1.907	40.429	1.920	39.060	-0.68%	3.50%
			2600	1.939	40.383	1.964	39.009	-1.27%	3.52%
			2650	1.980	40.277	2.018	38.945	-1.88%	3.42%
			2680	2.006	40.241	2.051	38.907	-2.19%	3.43%
2700	2.022	40.218	2.073	38.882	-2.46%	3.44%			

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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, $\sigma$ (S/m)	Measured Dielectric Constant, $\epsilon$	TARGET Conductivity, $\sigma$ (S/m)	TARGET Dielectric Constant, $\epsilon$	% dev $\sigma$	% dev $\epsilon$
04/03/2023	3600 Head	20.3	3300	2.801	37.304	2.708	38.157	3.43%	-2.24%
			3350	2.842	37.254	2.759	38.100	3.01%	-2.22%
			3450	2.919	37.099	2.861	37.986	2.03%	-2.34%
			3500	2.958	37.002	2.913	37.929	1.54%	-2.44%
			3550	3.003	36.921	2.964	37.871	1.32%	-2.51%
			3560	3.011	36.917	2.974	37.860	1.24%	-2.49%
			3600	3.040	36.863	3.015	37.814	0.83%	-2.51%
			3650	3.082	36.807	3.066	37.757	0.52%	-2.52%
			3690	3.113	36.746	3.107	37.711	0.19%	-2.56%
			3700	3.122	36.735	3.117	37.700	0.16%	-2.56%
			3750	3.166	36.679	3.169	37.643	-0.09%	-2.56%
			3900	3.298	36.489	3.323	37.471	-0.75%	-2.62%
			3930	3.326	36.436	3.353	37.437	-0.81%	-2.67%
			4100	3.479	36.223	3.528	37.243	-1.39%	-2.74%
			4150	3.524	36.183	3.579	37.186	-1.54%	-2.70%
05/14/2023	5200-5800 Head	21.2	5180	4.499	35.163	4.635	36.009	-2.93%	-2.35%
			5190	4.518	35.161	4.645	35.998	-2.73%	-2.33%
			5200	4.532	35.161	4.655	35.986	-2.64%	-2.29%
			5210	4.543	35.143	4.666	35.975	-2.64%	-2.31%
			5220	4.550	35.123	4.676	35.963	-2.69%	-2.34%
			5240	4.568	35.102	4.696	35.940	-2.73%	-2.33%
			5250	4.578	35.094	4.706	35.929	-2.72%	-2.32%
			5260	4.590	35.083	4.717	35.917	-2.69%	-2.32%
			5270	4.602	35.072	4.727	35.906	-2.64%	-2.32%
			5280	4.615	35.060	4.737	35.894	-2.58%	-2.32%
			5290	4.627	35.047	4.748	35.883	-2.55%	-2.33%
			5300	4.638	35.040	4.758	35.871	-2.52%	-2.32%
			5310	4.648	35.035	4.768	35.860	-2.52%	-2.30%
			5320	4.658	35.027	4.778	35.849	-2.51%	-2.29%
			5500	4.831	34.613	4.963	35.643	-2.66%	-2.89%
			5510	4.847	34.599	4.973	35.632	-2.53%	-2.90%
			5520	4.863	34.578	4.983	35.620	-2.41%	-2.93%
			5530	4.877	34.550	4.994	35.609	-2.34%	-2.97%
			5540	4.891	34.524	5.004	35.597	-2.26%	-3.01%
			5550	4.904	34.519	5.014	35.586	-2.19%	-3.00%
			5560	4.915	34.519	5.024	35.574	-2.17%	-2.97%
			5580	4.938	34.501	5.045	35.551	-2.12%	-2.95%
			5600	4.962	34.475	5.065	35.529	-2.03%	-2.97%
			5610	4.978	34.455	5.076	35.518	-1.93%	-2.99%
			5620	4.996	34.440	5.086	35.506	-1.77%	-3.00%
			5640	5.022	34.438	5.106	35.483	-1.65%	-2.95%
			5660	5.040	34.438	5.127	35.460	-1.70%	-2.88%
			5670	5.046	34.436	5.137	35.449	-1.77%	-2.86%
			5680	5.053	34.424	5.147	35.437	-1.83%	-2.86%
			5690	5.065	34.404	5.158	35.426	-1.80%	-2.88%
			5700	5.078	34.380	5.168	35.414	-1.74%	-2.92%
			5710	5.091	34.364	5.178	35.403	-1.68%	-2.93%
			5720	5.101	34.357	5.188	35.391	-1.66%	-2.92%
			5745	5.118	34.334	5.214	35.363	-1.84%	-2.91%
			5750	5.120	34.325	5.219	35.357	-1.90%	-2.92%
5755	5.121	34.315	5.224	35.351	-1.97%	-2.93%			
5765	5.128	34.290	5.234	35.340	-2.03%	-2.97%			
5775	5.140	34.262	5.245	35.329	-2.00%	-3.02%			
5785	5.152	34.223	5.255	35.317	-1.96%	-3.10%			
5795	5.161	34.191	5.265	35.305	-1.98%	-3.16%			
5800	5.164	34.175	5.270	35.300	-2.01%	-3.19%			
5805	5.167	34.158	5.275	35.294	-2.05%	-3.22%			
5825	5.193	34.098	5.296	35.271	-1.94%	-3.33%			
5835	5.205	34.074	5.305	35.230	-1.89%	-3.28%			
5845	5.214	34.069	5.315	35.210	-1.90%	-3.24%			
5855	5.223	34.045	5.325	35.197	-1.92%	-3.27%			
5875	5.244	33.976	5.347	35.183	-1.93%	-3.43%			
5885	5.256	33.933	5.357	35.177	-1.89%	-3.54%			
5905	5.284	33.870	5.379	35.163	-1.77%	-3.68%			

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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, $\sigma$ (S/m)	Measured Dielectric Constant, $\epsilon$	TARGET Conductivity, $\sigma$ (S/m)	TARGET Dielectric Constant, $\epsilon$	% dev $\sigma$	% dev $\epsilon$			
04/03/2023	750 Body	21.2	680	0.965	53.267	0.958	55.804	0.73%	-4.55%			
			695	0.970	53.230	0.959	55.745	1.15%	-4.51%			
			700	0.972	53.218	0.959	55.726	1.36%	-4.50%			
			710	0.975	53.196	0.960	55.687	1.56%	-4.47%			
			725	0.980	53.166	0.961	55.629	1.98%	-4.43%			
			750	0.989	53.122	0.964	55.531	2.59%	-4.34%			
			770	0.997	53.085	0.965	55.453	3.32%	-4.27%			
			785	1.003	53.051	0.966	55.395	3.83%	-4.23%			
04/04/2023	835 Body	21.2	800	1.008	53.010	0.967	55.336	4.24%	-4.20%			
			815	0.922	57.744	0.968	55.271	-4.75%	4.47%			
			820	0.926	57.704	0.969	55.258	-4.44%	4.43%			
			835	0.940	57.589	0.970	55.200	-3.09%	4.33%			
			850	0.955	57.483	0.988	55.154	-3.34%	4.22%			
			815	0.937	52.864	0.968	55.271	-3.20%	-4.35%			
			04/19/2023	835 Body	21.7	820	0.942	52.804	0.969	55.258	-2.79%	-4.44%
						835	0.959	52.630	0.970	55.200	-1.13%	-4.66%
850	0.975	52.468				0.988	55.154	-1.32%	-4.87%			
815	0.925	53.250				0.968	55.271	-4.44%	-3.66%			
04/24/2023	835 Body	21.9	820	0.930	53.197	0.969	55.258	-4.02%	-3.73%			
			835	0.947	53.047	0.970	55.200	-2.37%	-3.90%			
			850	0.963	52.907	0.988	55.154	-2.53%	-4.07%			
			1710	1.484	51.622	1.463	53.537	1.44%	-3.58%			
04/10/2023	1750 Body	20.3	1720	1.495	51.572	1.469	53.511	1.77%	-3.62%			
			1745	1.524	51.459	1.485	53.445	2.63%	-3.72%			
			1750	1.530	51.434	1.488	53.432	2.82%	-3.74%			
			1770	1.554	51.360	1.501	53.379	3.53%	-3.78%			
			1790	1.577	51.284	1.514	53.326	4.16%	-3.83%			
04/24/2023	1750 Body	20.4	1710	1.452	51.033	1.463	53.537	-0.75%	-4.68%			
			1720	1.458	51.024	1.469	53.511	-0.75%	-4.65%			
			1745	1.476	50.997	1.485	53.445	-0.61%	-4.58%			
			1750	1.479	50.990	1.488	53.432	-0.60%	-4.57%			
			1770	1.493	50.967	1.501	53.379	-0.53%	-4.52%			
04/24/2023	1750 Body	21.8	1790	1.506	50.943	1.514	53.326	-0.53%	-4.47%			
			1710	1.444	52.385	1.463	53.537	-1.30%	-2.15%			
			1720	1.450	52.378	1.469	53.511	-1.29%	-2.12%			
			1745	1.467	52.349	1.485	53.445	-1.21%	-2.05%			
			1750	1.470	52.341	1.488	53.432	-1.21%	-2.04%			
05/27/2023	1750 Body	20.9	1770	1.484	52.317	1.501	53.379	-1.13%	-1.99%			
			1790	1.497	52.295	1.514	53.326	-1.12%	-1.93%			
			1710	1.492	51.564	1.463	53.537	1.98%	-3.69%			
			1720	1.502	51.523	1.469	53.511	2.25%	-3.72%			
			1745	1.531	51.417	1.485	53.445	3.10%	-3.79%			
05/29/2023	1750 Body	21.5	1750	1.536	51.396	1.488	53.432	3.23%	-3.81%			
			1770	1.560	51.322	1.501	53.379	3.93%	-3.85%			
			1790	1.583	51.257	1.514	53.326	4.56%	-3.88%			
			1710	1.495	51.324	1.463	53.537	2.19%	-4.13%			
			1720	1.506	51.274	1.469	53.511	2.52%	-4.18%			
04/05/2023	1900 Body	20.8	1745	1.534	51.164	1.485	53.445	3.30%	-4.27%			
			1750	1.540	51.142	1.488	53.432	3.49%	-4.29%			
			1770	1.562	51.065	1.501	53.379	4.06%	-4.34%			
			1790	1.582	50.986	1.514	53.326	4.49%	-4.39%			
			1850	1.445	52.439	1.520	53.300	-4.93%	-1.62%			
04/07/2023	1900 Body	21.3	1860	1.452	52.423	1.520	53.300	-4.47%	-1.65%			
			1880	1.467	52.377	1.520	53.300	-3.49%	-1.73%			
			1900	1.484	52.324	1.520	53.300	-2.37%	-1.83%			
			1905	1.489	52.314	1.520	53.300	-2.04%	-1.85%			
			1910	1.493	52.304	1.520	53.300	-1.78%	-1.87%			
04/10/2023	1900 Body	21.1	1920	1.502	52.286	1.520	53.300	-1.18%	-1.90%			
			1850	1.501	50.984	1.520	53.300	-1.25%	-4.35%			
			1860	1.511	50.955	1.520	53.300	-0.59%	-4.40%			
			1880	1.531	50.893	1.520	53.300	0.72%	-4.52%			
			1900	1.552	50.811	1.520	53.300	2.11%	-4.67%			
04/10/2023	1900 Body	21.1	1905	1.558	50.789	1.520	53.300	2.80%	-4.71%			
			1910	1.563	50.767	1.520	53.300	2.83%	-4.75%			
			1920	1.574	50.719	1.520	53.300	3.55%	-4.84%			
			1850	1.519	52.316	1.520	53.300	-0.07%	-1.85%			
			1860	1.529	52.281	1.520	53.300	0.59%	-1.91%			
04/10/2023	1900 Body	21.1	1880	1.551	52.207	1.520	53.300	2.04%	-2.05%			
			1900	1.574	52.140	1.520	53.300	3.55%	-2.18%			
			1905	1.579	52.127	1.520	53.300	3.88%	-2.20%			
			1910	1.585	52.115	1.520	53.300	4.28%	-2.22%			
			1920	1.596	52.088	1.520	53.300	5.00%	-2.27%			

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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, $\sigma$ (S/m)	Measured Dielectric Constant, $\epsilon$	TARGET Conductivity, $\sigma$ (S/m)	TARGET Dielectric Constant, $\epsilon$	% dev $\sigma$	% dev $\epsilon$
04/12/2023	1900 Body	21.0	1850	1.447	53.456	1.520	53.300	-4.80%	0.29%
			1860	1.455	53.437	1.520	53.300	-4.28%	0.26%
			1880	1.471	53.399	1.520	53.300	-3.22%	0.19%
			1900	1.488	53.365	1.520	53.300	-2.11%	0.12%
			1905	1.493	53.358	1.520	53.300	-1.78%	0.11%
			1910	1.497	53.351	1.520	53.300	-1.51%	0.10%
			1920	1.505	53.336	1.520	53.300	-0.99%	0.07%
04/19/2023	1900 Body	23.0	1850	1.533	52.637	1.520	53.300	0.86%	-1.24%
			1860	1.540	52.627	1.520	53.300	1.32%	-1.26%
			1880	1.554	52.605	1.520	53.300	2.24%	-1.30%
			1900	1.570	52.581	1.520	53.300	3.29%	-1.35%
			1905	1.574	52.574	1.520	53.300	3.55%	-1.36%
			1910	1.578	52.567	1.520	53.300	3.82%	-1.38%
			1920	1.586	52.552	1.520	53.300	4.34%	-1.40%
05/24/2023	1900 Body	20.9	1850	1.535	53.554	1.520	53.300	0.99%	0.48%
			1860	1.542	53.545	1.520	53.300	1.45%	0.46%
			1880	1.556	53.527	1.520	53.300	2.37%	0.43%
			1900	1.572	53.523	1.520	53.300	3.42%	0.42%
			1905	1.575	53.522	1.520	53.300	3.62%	0.42%
			1910	1.579	53.522	1.520	53.300	3.88%	0.42%
			1920	1.586	53.517	1.520	53.300	4.34%	0.41%
05/29/2023	1900 Body	21.3	1850	1.547	54.640	1.520	53.300	1.78%	2.51%
			1860	1.554	54.625	1.520	53.300	2.24%	2.49%
			1880	1.569	54.595	1.520	53.300	3.22%	2.43%
			1900	1.585	54.566	1.520	53.300	4.28%	2.38%
			1905	1.589	54.560	1.520	53.300	4.54%	2.36%
			1910	1.593	54.554	1.520	53.300	4.80%	2.35%
			1920	1.600	54.540	1.520	53.300	5.26%	2.33%
06/15/2023	1900 Body	21.5	1850	1.458	51.518	1.520	53.300	-4.08%	-3.34%
			1860	1.469	51.489	1.520	53.300	-3.36%	-3.40%
			1880	1.491	51.441	1.520	53.300	-1.91%	-3.49%
			1900	1.512	51.402	1.520	53.300	-0.53%	-3.56%
			1905	1.518	51.391	1.520	53.300	-0.13%	-3.58%
			1910	1.522	51.381	1.520	53.300	0.13%	-3.60%
			1920	1.528	51.370	1.520	53.300	0.42%	-3.62%
04/03/2023	2450 Body	23.9	2300	1.803	53.056	1.809	52.900	-0.33%	0.29%
			2310	1.817	53.027	1.816	52.887	0.06%	0.26%
			2320	1.830	52.994	1.826	52.873	0.22%	0.23%
			2400	1.940	52.718	1.902	52.767	2.00%	-0.09%
			2450	2.009	52.511	1.950	52.700	3.03%	-0.36%
			2480	2.053	52.407	1.993	52.662	3.01%	-0.48%
			2500	2.077	52.337	2.021	52.636	2.77%	-0.57%
			2510	2.091	52.296	2.035	52.623	2.75%	-0.62%
			2535	2.127	52.186	2.071	52.592	2.70%	-0.77%
			2550	2.150	52.124	2.092	52.573	2.77%	-0.85%
			2560	2.164	52.090	2.106	52.560	2.75%	-0.89%
			2600	2.221	51.964	2.163	52.509	2.68%	-1.04%
			2650	2.292	51.769	2.234	52.445	2.60%	-1.29%
			2680	2.335	51.643	2.277	52.407	2.55%	-1.46%
			2700	2.364	51.575	2.305	52.382	2.56%	-1.54%
			2300	1.819	51.508	1.809	52.900	0.55%	-2.63%
			2310	1.832	51.478	1.816	52.887	0.88%	-2.66%
			2320	1.845	51.450	1.826	52.873	1.04%	-2.69%
			2400	1.946	51.201	1.902	52.767	2.31%	-2.97%
			2450	2.008	51.064	1.950	52.700	2.97%	-3.10%
2480	2.046	50.956	1.993	52.662	2.66%	-3.24%			
2500	2.072	50.892	2.021	52.636	2.52%	-3.31%			
2510	2.085	50.863	2.035	52.623	2.46%	-3.34%			
2535	2.118	50.788	2.071	52.592	2.27%	-3.43%			
2550	2.137	50.736	2.092	52.573	2.15%	-3.49%			
2560	2.150	50.701	2.106	52.560	2.09%	-3.54%			
2600	2.202	50.570	2.163	52.509	1.80%	-3.69%			
2650	2.267	50.402	2.234	52.445	1.48%	-3.90%			
2680	2.305	50.296	2.277	52.407	1.23%	-4.03%			
2700	2.333	50.225	2.305	52.382	1.21%	-4.12%			
04/12/2023	2450 Body	23.1	2300	1.836	51.558	1.809	52.900	1.49%	-2.54%
			2310	1.850	51.521	1.816	52.887	1.87%	-2.58%
			2320	1.863	51.487	1.826	52.873	2.03%	-2.62%
			2400	1.974	51.173	1.902	52.767	3.79%	-3.02%
			2450	2.042	50.948	1.950	52.700	4.72%	-3.32%
			2480	2.084	50.835	1.993	52.662	4.57%	-3.47%
			2500	2.113	50.779	2.021	52.636	4.55%	-3.53%
			2510	2.127	50.742	2.035	52.623	4.52%	-3.57%
			2535	2.162	50.635	2.071	52.592	4.39%	-3.72%
			2550	2.183	50.556	2.092	52.573	4.35%	-3.84%
			2560	2.197	50.511	2.106	52.560	4.32%	-3.90%
			2600	2.254	50.363	2.163	52.509	4.21%	-4.09%
			2650	2.323	50.135	2.234	52.445	3.98%	-4.40%
			2680	2.365	50.014	2.277	52.407	3.86%	-4.57%
			2700	2.393	49.931	2.305	52.382	3.82%	-4.68%

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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, $\sigma$ (S/m)	Measured Dielectric Constant, $\epsilon$	TARGET Conductivity, $\sigma$ (S/m)	TARGET Dielectric Constant, $\epsilon$	% dev $\sigma$	% dev $\epsilon$
04/19/2023	2450 Body	23.6	2300	1.826	52.389	1.809	52.900	0.94%	-0.97%
			2310	1.838	52.364	1.816	52.887	1.21%	-0.99%
			2320	1.850	52.338	1.826	52.873	1.31%	-1.01%
			2400	1.955	52.069	1.902	52.767	2.79%	-1.32%
			2450	2.018	51.875	1.950	52.700	3.49%	-1.57%
			2480	2.062	51.754	1.993	52.662	3.46%	-1.72%
			2500	2.088	51.693	2.021	52.636	3.32%	-1.79%
			2510	2.100	51.655	2.035	52.623	3.19%	-1.84%
			2535	2.130	51.532	2.071	52.592	2.85%	-2.02%
			2550	2.152	51.452	2.092	52.573	2.87%	-2.13%
			2560	2.168	51.404	2.106	52.560	2.94%	-2.20%
			2600	2.224	51.272	2.163	52.509	2.82%	-2.36%
			2650	2.287	51.046	2.234	52.445	2.37%	-2.67%
			2680	2.334	50.920	2.277	52.407	2.50%	-2.84%
2700	2.361	50.866	2.305	52.382	2.43%	-2.89%			
05/07/2023	2450 Body	24.4	2300	1.827	51.908	1.809	52.900	1.00%	-1.88%
			2310	1.841	51.878	1.816	52.887	1.38%	-1.91%
			2320	1.854	51.841	1.826	52.873	1.53%	-1.95%
			2400	1.965	51.558	1.902	52.767	3.31%	-2.29%
			2450	2.036	51.373	1.950	52.700	4.41%	-2.52%
			2480	2.079	51.243	1.993	52.662	4.32%	-2.69%
			2500	2.107	51.165	2.021	52.636	4.26%	-2.79%
			2510	2.122	51.124	2.035	52.623	4.28%	-2.85%
			2535	2.157	51.018	2.071	52.592	4.15%	-2.99%
			2550	2.179	50.953	2.092	52.573	4.16%	-3.08%
			2560	2.194	50.912	2.106	52.560	4.18%	-3.14%
			2600	2.249	50.757	2.163	52.509	3.98%	-3.34%
			2650	2.321	50.519	2.234	52.445	3.89%	-3.67%
			2680	2.364	50.405	2.277	52.407	3.82%	-3.82%
2700	2.391	50.332	2.305	52.382	3.73%	-3.91%			
05/25/2023	2450 Body	23.1	2300	1.813	52.734	1.809	52.900	0.22%	-0.31%
			2310	1.826	52.696	1.816	52.887	0.55%	-0.36%
			2320	1.839	52.654	1.826	52.873	0.71%	-0.41%
			2400	1.946	52.347	1.902	52.767	2.31%	-0.80%
			2450	2.016	52.175	1.950	52.700	3.38%	-1.00%
			2480	2.058	52.065	1.993	52.662	3.26%	-1.13%
			2500	2.088	51.993	2.021	52.636	3.32%	-1.22%
			2510	2.103	51.960	2.035	52.623	3.34%	-1.26%
			2535	2.140	51.881	2.071	52.592	3.33%	-1.35%
			2550	2.162	51.836	2.092	52.573	3.35%	-1.40%
			2560	2.176	51.804	2.106	52.560	3.32%	-1.44%
			2600	2.229	51.655	2.163	52.509	3.05%	-1.63%
			2650	2.299	51.471	2.234	52.445	2.91%	-1.86%
			2680	2.336	51.339	2.277	52.407	2.59%	-2.04%
2700	2.365	51.239	2.305	52.382	2.60%	-2.18%			

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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, $\sigma$ (S/m)	Measured Dielectric Constant, $\epsilon$	TARGET Conductivity, $\sigma$ (S/m)	TARGET Dielectric Constant, $\epsilon$	% dev $\sigma$	% dev $\epsilon$
05/31/2023	3600 Body	20.3	3300	3.173	49.572	3.080	51.593	3.02%	-3.92%
			3350	3.218	49.472	3.139	51.525	2.52%	-3.98%
			3450	3.320	49.283	3.256	51.389	1.97%	-4.10%
			3500	3.382	49.141	3.314	51.321	2.05%	-4.25%
			3550	3.427	49.042	3.372	51.254	1.63%	-4.32%
			3560	3.439	49.014	3.384	51.240	1.63%	-4.34%
			3600	3.497	48.910	3.431	51.186	1.92%	-4.45%
			3650	3.551	48.848	3.489	51.118	1.78%	-4.44%
			3690	3.601	48.741	3.536	51.063	1.84%	-4.55%
			3700	3.623	48.729	3.548	51.050	2.11%	-4.55%
			3750	3.679	48.688	3.606	50.982	2.02%	-4.50%
			3900	3.865	48.426	3.781	50.779	2.22%	-4.63%
			3930	3.909	48.403	3.816	50.738	2.44%	-4.60%
			4100	4.114	48.097	4.015	50.507	2.47%	-4.77%
4150	4.190	47.990	4.073	50.439	2.87%	-4.86%			
05/04/2023	5200-5800 Body	20.3	5180	5.256	47.029	5.276	49.041	-0.38%	-4.10%
			5190	5.268	47.017	5.288	49.028	-0.38%	-4.10%
			5200	5.278	46.988	5.299	49.014	-0.40%	-4.13%
			5210	5.286	46.946	5.311	49.001	-0.47%	-4.19%
			5220	5.296	46.919	5.323	48.987	-0.51%	-4.22%
			5240	5.331	46.866	5.346	48.960	-0.28%	-4.28%
			5250	5.348	46.845	5.358	48.947	-0.19%	-4.29%
			5260	5.366	46.825	5.369	48.933	-0.06%	-4.31%
			5270	5.384	46.813	5.381	48.919	0.06%	-4.31%
			5280	5.402	46.803	5.393	48.906	0.17%	-4.30%
			5290	5.418	46.789	5.404	48.892	0.26%	-4.30%
			5300	5.427	46.773	5.416	48.879	0.20%	-4.31%
			5310	5.438	46.752	5.428	48.865	0.18%	-4.32%
			5320	5.449	46.740	5.439	48.851	0.18%	-4.32%
			5500	5.701	46.376	5.650	48.607	0.90%	-4.59%
			5510	5.719	46.361	5.661	48.594	1.02%	-4.60%
			5520	5.738	46.331	5.673	48.580	1.15%	-4.63%
			5530	5.753	46.306	5.685	48.566	1.20%	-4.65%
			5540	5.769	46.294	5.696	48.553	1.28%	-4.65%
			5550	5.782	46.292	5.708	48.539	1.30%	-4.63%
			5560	5.793	46.288	5.720	48.526	1.28%	-4.61%
			5580	5.814	46.253	5.743	48.499	1.24%	-4.63%
			5600	5.843	46.209	5.766	48.471	1.34%	-4.67%
			5610	5.859	46.188	5.778	48.458	1.40%	-4.68%
			5620	5.877	46.159	5.790	48.444	1.50%	-4.72%
			5640	5.913	46.108	5.813	48.417	1.72%	-4.77%
			5660	5.944	46.080	5.837	48.390	1.83%	-4.77%
			5670	5.960	46.075	5.848	48.376	1.92%	-4.76%
			5680	5.973	46.066	5.860	48.363	1.93%	-4.75%
			5690	5.986	46.054	5.872	48.349	1.94%	-4.75%
			5700	5.996	46.044	5.883	48.336	1.92%	-4.74%
			5710	6.010	46.023	5.895	48.322	1.95%	-4.76%
			5720	6.026	45.992	5.907	48.309	2.01%	-4.80%
			5745	6.062	45.916	5.936	48.275	2.12%	-4.89%
			5750	6.070	45.901	5.942	48.268	2.15%	-4.90%
			5755	6.077	45.891	5.947	48.261	2.19%	-4.91%
			5765	6.096	45.871	5.959	48.248	2.30%	-4.93%
			5775	6.113	45.857	5.971	48.234	2.38%	-4.93%
			5785	6.132	45.848	5.982	48.220	2.51%	-4.92%
			5795	6.149	45.848	5.994	48.207	2.59%	-4.89%
			5800	6.155	45.845	6.000	48.200	2.58%	-4.89%
			5805	6.159	45.841	6.006	48.193	2.55%	-4.88%
5825	6.182	45.825	6.029	48.166	2.54%	-4.86%			
5835	6.193	45.806	6.042	48.130	2.50%	-4.83%			
5845	6.206	45.777	6.054	48.110	2.51%	-4.85%			
5855	6.222	45.738	6.066	48.093	2.57%	-4.90%			
5865	6.241	45.712	6.077	48.080	2.70%	-4.93%			
5875	6.255	45.699	6.088	48.067	2.74%	-4.93%			
5885	6.269	45.677	6.100	48.053	2.77%	-4.94%			
5905	6.309	45.643	6.122	48.027	3.05%	-4.96%			

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

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## 10.2 Test System Verification

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

**Table 10-8  
System Verification Results – Head**

SAR System	Tissue Frequency (MHz)	Tissue Type	Date	Amb. Temp. (C)	Liquid Temp. (C)	Input Power (W)	Source SN	Probe SN	DAE	Measured SAR 1g (W/kg)	1W Target SAR 1g (W/kg)	1W Normalized SAR 1g (W/kg)	Deviation 1g (%)	Measured SAR 10g (W/kg)	1W Target SAR 10g (W/kg)	1W Normalized SAR 10g (W/kg)	Deviation 10g (%)
G	13	HEAD	04/25/2023	23.0	20.5	1.00	1002	7417	665	0.544	0.557	0.544	-2.33%	0.336	0.346	0.336	-2.89%
K4	750	HEAD	04/03/2023	21.5	21.8	0.20	1046	7640	1645	1.620	8.690	8.100	-6.79%	1.070	5.700	5.350	-6.14%
K4	835	HEAD	04/03/2023	21.5	21.8	0.20	4d180	7640	1645	1.930	9.750	9.650	-1.03%	1.270	6.370	6.350	-0.31%
L	835	HEAD	04/17/2023	23.3	22.6	0.20	4d133	7410	1583	2.100	9.760	10.500	7.58%	1.380	6.370	6.900	8.32%
C	835	HEAD	05/30/2023	21.5	21.5	0.20	4d132	7406	1677	1.940	9.660	9.700	0.41%	1.260	6.270	6.300	0.48%
L	1750	HEAD	04/07/2023	22.0	21.0	0.10	1148	7410	1583	3.890	37.200	38.900	4.57%	2.060	19.400	20.600	6.19%
K2	1750	HEAD	04/07/2023	21.9	21.1	0.10	1092	7565	1466	3.370	36.300	33.700	-7.16%	1.810	19.100	18.100	-5.24%
L	1750	HEAD	06/13/2023	21.6	21.6	0.10	1148	7410	1583	3.870	37.200	38.700	4.03%	2.080	19.400	20.800	7.22%
K2	1900	HEAD	04/10/2023	20.6	21.0	0.10	5d026	7565	1466	3.820	39.900	38.200	-4.26%	1.990	20.400	19.900	-2.45%
L	1900	HEAD	04/19/2023	22.5	24.5	0.10	5d149	7410	1583	4.290	40.500	42.900	5.93%	2.240	21.200	22.400	5.66%
C	1900	HEAD	05/30/2023	21.5	21.5	0.10	5d149	7406	1677	4.310	40.500	43.100	6.42%	2.230	21.200	22.300	5.19%
O	1900	HEAD	06/12/2023	22.5	21.2	0.10	5d080	7570	1558	4.100	39.600	41.000	3.54%	2.120	20.700	21.200	2.42%
L	2450	HEAD	05/04/2023	22.0	21.0	0.10	981	7410	1583	5.330	53.900	53.300	-1.11%	2.490	25.400	24.900	-1.97%
K2	2450	HEAD	05/08/2023	21.9	21.7	0.10	882	7565	1466	5.260	51.700	52.600	1.74%	2.460	24.200	24.600	1.65%
K2	2450	HEAD	06/01/2023	20.1	20.5	0.10	882	7565	1466	5.050	51.700	50.500	-2.32%	2.330	24.200	23.300	-3.72%
AM8	2600	HEAD	04/04/2023	21.5	21.1	0.10	1069	7421	604	5.790	55.600	57.900	4.14%	2.620	24.900	26.200	5.22%
K2	2600	HEAD	05/08/2023	21.9	21.7	0.10	1126	7565	1466	5.450	55.900	54.500	-2.50%	2.460	25.200	24.600	-2.38%
AM4	3500	HEAD	04/03/2023	22.1	20.0	0.10	1126	7490	1644	6.780	67.000	67.800	1.19%	2.560	25.000	25.600	2.40%
AM4	3700	HEAD	04/03/2023	22.1	20.0	0.10	1097	7490	1644	6.710	68.100	67.100	-1.47%	2.460	24.500	24.600	0.41%
AM4	3900	HEAD	04/03/2023	22.1	20.0	0.10	1062	7490	1644	6.670	68.600	66.700	-2.77%	2.350	23.800	23.500	-1.26%
O	5250	HEAD	05/14/2023	21.2	21.2	0.05	1057	7570	1558	3.680	81.200	73.600	-9.36%	1.050	23.200	21.000	-9.48%
O	5600	HEAD	05/14/2023	21.2	21.2	0.05	1057	7570	1558	4.140	84.200	82.800	-1.66%	1.190	23.900	23.800	-0.42%
O	5750	HEAD	05/14/2023	21.2	21.2	0.05	1057	7570	1558	3.840	80.800	76.800	-4.95%	1.090	22.900	21.800	-4.80%
O	5800	HEAD	05/14/2023	21.2	21.2	0.05	1057	7570	1558	3.960	82.100	79.200	-3.53%	1.130	23.000	22.600	-1.74%

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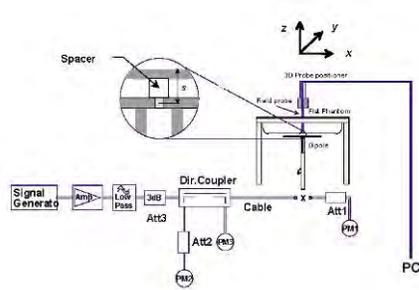
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**Table 10-9  
System Verification Results – Body**

SAR System	Tissue Frequency (MHz)	Tissue Type	Date	Amb. Temp. (C)	Liquid Temp. (C)	Input Power (W)	Source SN	Probe SN	DAE	Measured SAR 1g (W/kg)	1W Target SAR 1g (W/kg)	1W Normalized SAR 1g (W/kg)	Deviation 1g (%)	Measured SAR 10g (W/kg)	1W Target SAR 10g (W/kg)	1W Normalized SAR 10g (W/kg)	Deviation 10g (%)
K1	750	BODY	04/03/2023	20.9	21.2	0.20	1003	7491	1532	1.760	8.800	8.800	0.00%	1.160	5.840	5.800	-0.68%
L	835	BODY	04/04/2023	22.5	21.2	0.20	4d132	7410	1583	2.060	9.810	10.300	4.99%	1.360	6.440	6.800	5.59%
K1	835	BODY	04/19/2023	21.7	21.7	0.20	4d180	7491	1532	1.990	9.710	9.950	2.47%	1.320	6.390	6.600	3.29%
K1	835	BODY	04/24/2023	21.9	21.9	0.20	4d180	7491	1532	1.970	9.710	9.850	1.44%	1.300	6.390	6.500	1.72%
AM9	1750	BODY	04/10/2023	20.9	20.0	0.10	1104	7427	1403	3.850	36.300	38.500	6.06%	2.040	19.300	20.400	5.70%
K3	1750	BODY	04/24/2023	21.5	20.4	0.10	1092	7547	1322	3.700	37.600	37.000	-1.60%	1.970	20.100	19.700	-1.99%
K2	1750	BODY	04/24/2023	21.9	21.1	0.10	1092	7565	1466	3.600	37.600	36.000	-4.26%	1.900	20.100	19.000	-5.47%
S	1750	BODY	05/27/2023	21.7	20.4	0.10	1150	7713	1530	3.850	37.800	38.500	1.85%	2.040	20.000	20.400	2.00%
S	1750	BODY	05/29/2023	22.9	21.2	0.10	1148	7713	1530	3.880	37.100	38.800	4.58%	2.050	19.600	20.500	4.59%
K2	1900	BODY	04/05/2023	20.5	20.8	0.10	5d026	7565	1466	3.910	39.300	39.100	-0.51%	2.060	20.600	20.600	0.00%
P	1900	BODY	04/07/2023	22.2	20.9	0.10	5d080	7409	1334	4.270	40.700	42.700	4.91%	2.190	21.300	21.900	2.82%
P	1900	BODY	04/10/2023	22.2	20.7	0.10	5d080	7409	1334	4.200	40.700	42.000	3.19%	2.160	21.300	21.600	1.41%
K2	1900	BODY	04/12/2023	19.5	21.0	0.10	5d026	7565	1466	4.050	39.300	40.500	3.05%	2.130	20.600	21.300	3.40%
K2	1900	BODY	04/19/2023	22.1	22.4	0.10	5d026	7565	1466	4.170	39.300	41.700	6.11%	2.150	20.600	21.500	4.37%
P	1900	BODY	05/24/2023	22.6	20.9	0.10	5d148	7409	1334	4.240	39.900	42.400	6.27%	2.200	20.900	22.000	5.26%
P	1900	BODY	05/29/2023	21.8	21.3	0.10	5d148	7409	1334	4.340	39.900	43.400	8.77%	2.250	20.900	22.500	7.66%
O	1900	BODY	06/15/2023	23.2	21.5	0.10	5d148	7570	1558	4.060	39.900	40.600	1.75%	2.090	20.900	20.900	0.00%
AM1	2450	BODY	04/10/2023	21.9	21.3	0.10	750	7420	1333	5.180	50.500	51.800	2.57%	2.370	23.900	23.700	-0.84%
AM1	2450	BODY	04/12/2023	23.0	21.8	0.10	921	7420	1333	4.940	49.700	49.400	-0.60%	2.260	23.600	22.600	-4.24%
AM3	2450	BODY	04/19/2023	21.6	22.1	0.10	750	3837	793	5.120	50.500	51.200	1.39%	2.330	23.900	23.300	-2.51%
L	2450	BODY	05/07/2023	21.1	23.0	0.10	981	7410	1583	5.260	50.300	52.600	4.57%	2.400	23.700	24.000	1.27%
AM7	2600	BODY	04/03/2023	22.5	22.1	0.10	1042	7416	701	5.200	53.700	52.000	-3.17%	2.270	24.000	22.700	-5.42%
AM1	2600	BODY	04/10/2023	21.9	21.3	0.10	1042	7420	1333	5.500	53.700	55.000	2.42%	2.410	24.000	24.100	0.42%
AM1	2600	BODY	04/12/2023	23.0	21.8	0.10	1069	7420	1333	5.600	54.400	56.000	2.94%	2.460	24.200	24.600	1.65%
AM3	2600	BODY	04/19/2023	21.6	22.1	0.10	1042	3837	793	5.110	53.700	51.100	-4.84%	2.230	24.000	22.300	-7.08%
S	2600	BODY	05/25/2023	21.3	21.3	0.10	1071	7713	1530	5.110	54.300	51.100	-5.89%	2.260	24.300	22.600	-7.00%
AM3	3500	BODY	05/31/2023	20.1	20.3	0.10	1126	3837	793	6.750	63.600	67.500	6.13%	2.520	23.600	25.200	6.78%
AM3	3700	BODY	05/31/2023	20.1	20.3	0.10	1097	3837	793	6.710	62.300	67.100	7.70%	2.430	22.200	24.300	9.46%
AM3	3900	BODY	05/31/2023	20.1	20.3	0.10	1062	3837	793	7.210	66.300	72.100	8.75%	2.490	23.100	24.900	7.79%
O	5250	BODY	05/04/2023	22.3	20.3	0.05	1057	7570	1558	3.530	74.200	70.600	-4.85%	1.000	20.600	20.000	-2.91%
O	5600	BODY	05/04/2023	22.3	20.3	0.05	1057	7570	1558	3.840	77.000	76.800	-0.26%	1.080	21.200	21.600	1.89%
O	5750	BODY	05/04/2023	22.3	20.3	0.05	1057	7570	1558	3.550	74.900	71.000	-5.21%	0.999	20.700	19.980	-3.48%
O	5800	BODY	05/04/2023	22.3	20.3	0.05	1057	7570	1558	3.550	74.800	71.000	-5.08%	1.000	20.500	20.000	-2.44%



**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.	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	Right	Cheek	GSM 850	GSM	A	Open	0366M	34.5	33.10	-0.10	1:8.3	0.149	1.380	0.206	A1
848.80	251	Right	Tilt	GSM 850	GSM	A	Open	0366M	34.5	33.10	-0.11	1:8.3	0.064	1.380	0.088	
848.80	251	Left	Cheek	GSM 850	GSM	A	Open	0366M	34.5	33.10	-0.04	1:8.3	0.119	1.380	0.164	
848.80	251	Left	Tilt	GSM 850	GSM	A	Open	0366M	34.5	33.10	0.01	1:8.3	0.059	1.380	0.081	
ICNIRP 1998 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population									Head 1.6 W/kg (mW/g) averaged over 1 gram							

**Table 11-2  
GSM 1900 Head SAR**

MEASUREMENT RESULTS																
FREQUENCY		Side	Test Position	Mode	Service	Antenna Config.	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)	
1909.80	810	Right	Cheek	GSM 1900	GSM	A	Open	0366M	32.0	31.12	-0.12	1:8.3	0.018	1.225	0.022	
1909.80	810	Right	Tilt	GSM 1900	GSM	A	Open	0366M	32.0	31.12	0.18	1:8.3	0.012	1.225	0.015	
1909.80	810	Left	Cheek	GSM 1900	GSM	A	Open	0366M	32.0	31.12	0.02	1:8.3	0.028	1.225	0.034	A2
1909.80	810	Left	Tilt	GSM 1900	GSM	A	Open	0366M	32.0	31.12	0.12	1:8.3	0.018	1.225	0.022	
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.	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	Right	Cheek	UMTS 850	RMC	A	Open	0371M	25.0	24.45	0.02	1:1	0.172	1.135	0.195	A3
846.60	4233	Right	Tilt	UMTS 850	RMC	A	Open	0371M	25.0	24.45	0.07	1:1	0.085	1.135	0.096	
846.60	4233	Left	Cheek	UMTS 850	RMC	A	Open	0371M	25.0	24.45	0.12	1:1	0.132	1.135	0.150	
846.60	4233	Left	Tilt	UMTS 850	RMC	A	Open	0371M	25.0	24.45	0.12	1:1	0.080	1.135	0.091	
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.	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)	
1712.40	1312	Right	Cheek	UMTS 1750	RMC	A	Open	0354M	24.5	23.48	0.00	1:1	0.040	1.265	0.051	
1712.40	1312	Right	Tilt	UMTS 1750	RMC	A	Open	0354M	24.5	23.48	0.06	1:1	0.020	1.265	0.025	
1712.40	1312	Left	Cheek	UMTS 1750	RMC	A	Open	0354M	24.5	23.48	0.02	1:1	0.055	1.265	0.070	A4
1712.40	1312	Left	Tilt	UMTS 1750	RMC	A	Open	0354M	24.5	23.48	0.12	1:1	0.017	1.265	0.022	
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.	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)	
1907.60	9538	Right	Cheek	UMTS 1900	RMC	A	Open	0366M	24.5	23.56	0.11	1:1	0.039	1.242	0.048	
1907.60	9538	Right	Tilt	UMTS 1900	RMC	A	Open	0366M	24.5	23.56	0.16	1:1	0.029	1.242	0.036	
1907.60	9538	Left	Cheek	UMTS 1900	RMC	A	Open	0366M	24.5	23.56	-0.13	1:1	0.048	1.242	0.060	A5
1907.60	9538	Left	Tilt	UMTS 1900	RMC	A	Open	0366M	24.5	23.56	0.09	1:1	0.031	1.242	0.039	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population									Head 1.6 W/kg (mW/g) averaged over 1 gram							

**Table 11-6  
LTE Band 12 Head SAR**

MEASUREMENT RESULTS																					
FREQUENCY		Side	Test Position	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	Right	Cheek	LTE Band 12	A	Open	0371M	10	QPSK	1	25	26.0	24.91	0	-0.01	1:1	0.199	1.285	0.256	A6
707.50	23095	Mid	Right	Cheek	LTE Band 12	A	Open	0371M	10	QPSK	25	25	25.0	23.96	1	0.07	1:1	0.147	1.271	0.187	
707.50	23095	Mid	Right	Tilt	LTE Band 12	A	Open	0371M	10	QPSK	1	25	26.0	24.91	0	0.07	1:1	0.105	1.285	0.135	
707.50	23095	Mid	Right	Tilt	LTE Band 12	A	Open	0371M	10	QPSK	25	25	25.0	23.96	1	0.15	1:1	0.080	1.271	0.102	
707.50	23095	Mid	Left	Cheek	LTE Band 12	A	Open	0371M	10	QPSK	1	25	26.0	24.91	0	0.11	1:1	0.162	1.285	0.208	
707.50	23095	Mid	Left	Cheek	LTE Band 12	A	Open	0371M	10	QPSK	25	25	25.0	23.96	1	0.07	1:1	0.130	1.271	0.165	
707.50	23095	Mid	Left	Tilt	LTE Band 12	A	Open	0371M	10	QPSK	1	25	26.0	24.91	0	0.18	1:1	0.086	1.285	0.111	
707.50	23095	Mid	Left	Tilt	LTE Band 12	A	Open	0371M	10	QPSK	25	25	25.0	23.96	1	0.17	1:1	0.070	1.271	0.089	
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 13 Head SAR**

MEASUREMENT RESULTS																					
FREQUENCY			Side	Test Position	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	Md	Right	Cheek	LTE Band 13	A	Open	0371M	10	QPSK	1	0	26.0	24.74	0	0.04	1:1	0.229	1.337	0.306	A7
782.00	23230	Md	Right	Cheek	LTE Band 13	A	Open	0371M	10	QPSK	25	0	25.0	23.71	1	0.06	1:1	0.188	1.346	0.253	
782.00	23230	Md	Right	Tilt	LTE Band 13	A	Open	0371M	10	QPSK	1	0	26.0	24.74	0	0.02	1:1	0.116	1.337	0.155	
782.00	23230	Md	Right	Tilt	LTE Band 13	A	Open	0371M	10	QPSK	25	0	25.0	23.71	1	0.14	1:1	0.092	1.346	0.124	
782.00	23230	Md	Left	Cheek	LTE Band 13	A	Open	0371M	10	QPSK	1	0	26.0	24.74	0	0.02	1:1	0.181	1.337	0.242	
782.00	23230	Md	Left	Cheek	LTE Band 13	A	Open	0371M	10	QPSK	25	0	25.0	23.71	1	-0.01	1:1	0.139	1.346	0.187	
782.00	23230	Md	Left	Tilt	LTE Band 13	A	Open	0371M	10	QPSK	1	0	26.0	24.74	0	0.17	1:1	0.108	1.337	0.144	
782.00	23230	Md	Left	Tilt	LTE Band 13	A	Open	0371M	10	QPSK	25	0	25.0	23.71	1	0.01	1:1	0.082	1.346	0.110	
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 26 (Cell) Head SAR**

MEASUREMENT RESULTS																					
FREQUENCY			Side	Test Position	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	Right	Cheek	LTE Band 26 (Cell)	A	Open	0371M	15	QPSK	1	74	26.0	24.78	0	0.02	1:1	0.255	1.324	0.338	A8
831.50	26865	Md	Right	Cheek	LTE Band 26 (Cell)	A	Open	0371M	15	QPSK	36	37	25.0	23.78	1	-0.04	1:1	0.205	1.324	0.271	
831.50	26865	Md	Right	Tilt	LTE Band 26 (Cell)	A	Open	0371M	15	QPSK	1	74	26.0	24.78	0	0.02	1:1	0.121	1.324	0.160	
831.50	26865	Md	Right	Tilt	LTE Band 26 (Cell)	A	Open	0371M	15	QPSK	36	37	25.0	23.78	1	0.06	1:1	0.091	1.324	0.120	
831.50	26865	Md	Left	Cheek	LTE Band 26 (Cell)	A	Open	0371M	15	QPSK	1	74	26.0	24.78	0	0.10	1:1	0.176	1.324	0.233	
831.50	26865	Md	Left	Cheek	LTE Band 26 (Cell)	A	Open	0371M	15	QPSK	36	37	25.0	23.78	1	0.08	1:1	0.154	1.324	0.204	
831.50	26865	Md	Left	Tilt	LTE Band 26 (Cell)	A	Open	0371M	15	QPSK	1	74	26.0	24.78	0	0.09	1:1	0.105	1.324	0.139	
831.50	26865	Md	Left	Tilt	LTE Band 26 (Cell)	A	Open	0371M	15	QPSK	36	37	25.0	23.78	1	0.01	1:1	0.089	1.324	0.118	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population													Head 1.6 W/kg (mW/g) averaged over 1 gram								

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**Table 11-9  
LTE Band 66 (AWS) Head SAR**

MEASUREMENT RESULTS																					
FREQUENCY		Side	Test Position	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)		
1770.00	132572	High	Right	Cheek	LTE Band 66 (AWS)	A	Open	0354M	20	QPSK	1	99	26.0	24.85	0	0.06	1:1	0.047	1.303	0.061	A9
1770.00	132572	High	Right	Cheek	LTE Band 66 (AWS)	A	Open	0354M	20	QPSK	50	50	25.0	23.83	1	0.00	1:1	0.035	1.309	0.046	
1770.00	132572	High	Right	Tilt	LTE Band 66 (AWS)	A	Open	0354M	20	QPSK	1	99	26.0	24.85	0	-0.01	1:1	0.032	1.303	0.042	
1770.00	132572	High	Right	Tilt	LTE Band 66 (AWS)	A	Open	0354M	20	QPSK	50	50	25.0	23.83	1	0.09	1:1	0.025	1.309	0.033	
1770.00	132572	High	Left	Cheek	LTE Band 66 (AWS)	A	Open	0354M	20	QPSK	1	99	26.0	24.85	0	-0.06	1:1	0.040	1.303	0.052	
1770.00	132572	High	Left	Cheek	LTE Band 66 (AWS)	A	Open	0354M	20	QPSK	50	50	25.0	23.83	1	-0.09	1:1	0.033	1.309	0.043	
1770.00	132572	High	Left	Tilt	LTE Band 66 (AWS)	A	Open	0354M	20	QPSK	1	99	26.0	24.85	0	-0.03	1:1	0.023	1.303	0.030	
1770.00	132572	High	Left	Tilt	LTE Band 66 (AWS)	A	Open	0354M	20	QPSK	50	50	25.0	23.83	1	-0.06	1:1	0.018	1.309	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 11-10  
LTE Band 4 (AWS) Head SAR**

MEASUREMENT RESULTS																					
FREQUENCY		Side	Test Position	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)		
1732.50	20175	Md	Right	Cheek	LTE Band 4 (AWS)	I	Open	0317M	20	QPSK	1	0	18.5	16.92	0	0.03	1:1	0.075	1.439	0.108	
1732.50	20175	Md	Right	Cheek	LTE Band 4 (AWS)	I	Open	0317M	20	QPSK	50	0	18.5	16.85	0	-0.12	1:1	0.054	1.462	0.079	
1732.50	20175	Md	Right	Tilt	LTE Band 4 (AWS)	I	Open	0317M	20	QPSK	1	0	18.5	16.92	0	-0.01	1:1	0.019	1.439	0.027	
1732.50	20175	Md	Right	Tilt	LTE Band 4 (AWS)	I	Open	0317M	20	QPSK	50	0	18.5	16.85	0	0.06	1:1	0.016	1.462	0.023	
1732.50	20175	Md	Left	Cheek	LTE Band 4 (AWS)	I	Open	1375M	20	QPSK	1	0	18.5	16.92	0	0.02	1:1	0.665	1.439	0.957	
1732.50	20175	Md	Left	Cheek	LTE Band 4 (AWS)	I	Open	1375M	20	QPSK	50	0	18.5	16.85	0	0.14	1:1	0.706	1.462	1.032	
1732.50	20175	Md	Left	Cheek	LTE Band 4 (AWS)	I	Open	1375M	20	QPSK	100	0	18.5	16.84	0	0.01	1:1	0.716	1.466	1.050	A10
1732.50	20175	Md	Left	Tilt	LTE Band 4 (AWS)	I	Open	0317M	20	QPSK	1	0	18.5	16.92	0	-0.04	1:1	0.191	1.439	0.275	
1732.50	20175	Md	Left	Tilt	LTE Band 4 (AWS)	I	Open	0317M	20	QPSK	50	0	18.5	16.85	0	-0.01	1:1	0.164	1.462	0.240	
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 11-11  
LTE Band 25 (PCS) Head SAR**

MEASUREMENT RESULTS																					
FREQUENCY			Side	Test Position	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	Right	Cheek	LTE Band 25 (PCS)	A	Open	0354M	20	QPSK	1	50	26.0	24.92	0	-0.10	1:1	0.043	1.282	0.055	
1905.00	26590	High	Right	Cheek	LTE Band 25 (PCS)	A	Open	0354M	20	QPSK	50	50	25.0	24.02	1	0.01	1:1	0.034	1.253	0.043	
1905.00	26590	High	Right	Tilt	LTE Band 25 (PCS)	A	Open	0354M	20	QPSK	1	50	26.0	24.92	0	-0.06	1:1	0.013	1.282	0.017	
1905.00	26590	High	Right	Tilt	LTE Band 25 (PCS)	A	Open	0354M	20	QPSK	50	50	25.0	24.02	1	0.12	1:1	0.016	1.253	0.020	
1905.00	26590	High	Left	Cheek	LTE Band 25 (PCS)	A	Open	0354M	20	QPSK	1	50	26.0	24.92	0	0.04	1:1	0.055	1.282	0.071	A11
1905.00	26590	High	Left	Cheek	LTE Band 25 (PCS)	A	Open	0354M	20	QPSK	50	50	25.0	24.02	1	0.00	1:1	0.045	1.253	0.056	
1905.00	26590	High	Left	Tilt	LTE Band 25 (PCS)	A	Open	0354M	20	QPSK	1	50	26.0	24.92	0	0.10	1:1	0.030	1.282	0.038	
1905.00	26590	High	Left	Tilt	LTE Band 25 (PCS)	A	Open	0354M	20	QPSK	50	50	25.0	24.02	1	-0.12	1:1	0.027	1.253	0.034	
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 2 (PCS) Head SAR**

MEASUREMENT RESULTS																					
FREQUENCY			Side	Test Position	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)			
1900.00	19100	High	Right	Cheek	LTE Band 2 (PCS)	I	Open	1319M	20	QPSK	1	99	15.5	14.10	0	0.04	1:1	0.231	1.380	0.319	
1900.00	19100	High	Right	Cheek	LTE Band 2 (PCS)	I	Open	1319M	20	QPSK	50	50	15.5	14.15	0	0.01	1:1	0.268	1.365	0.366	
1900.00	19100	High	Right	Tilt	LTE Band 2 (PCS)	I	Open	1319M	20	QPSK	1	99	15.5	14.10	0	0.12	1:1	0.073	1.380	0.101	
1900.00	19100	High	Right	Tilt	LTE Band 2 (PCS)	I	Open	1319M	20	QPSK	50	50	15.5	14.15	0	-0.03	1:1	0.071	1.365	0.097	
1900.00	19100	High	Left	Cheek	LTE Band 2 (PCS)	I	Open	1319M	20	QPSK	1	99	15.5	14.10	0	-0.02	1:1	0.548	1.380	0.756	
1860.00	18700	Low	Left	Cheek	LTE Band 2 (PCS)	I	Open	1319M	20	QPSK	50	25	15.5	13.72	0	-0.01	1:1	0.536	1.507	0.808	
1880.00	18900	Mid	Left	Cheek	LTE Band 2 (PCS)	I	Open	1319M	20	QPSK	50	50	15.5	13.73	0	0.03	1:1	0.557	1.503	0.837	
1900.00	19100	High	Left	Cheek	LTE Band 2 (PCS)	I	Open	1319M	20	QPSK	50	50	15.5	14.15	0	-0.02	1:1	0.562	1.365	0.767	A12
1900.00	19100	High	Left	Cheek	LTE Band 2 (PCS)	I	Open	1319M	20	QPSK	100	0	15.5	14.04	0	-0.01	1:1	0.560	1.400	0.784	
1900.00	19100	High	Left	Tilt	LTE Band 2 (PCS)	I	Open	1319M	20	QPSK	1	99	15.5	14.10	0	-0.03	1:1	0.141	1.380	0.195	
1900.00	19100	High	Left	Tilt	LTE Band 2 (PCS)	I	Open	1319M	20	QPSK	50	50	15.5	14.15	0	-0.02	1:1	0.139	1.365	0.190	
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 41 Head SAR**

MEASUREMENT RESULTS																						
Power Class	FREQUENCY		Side	Test Position	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)		
Power Class 3	2593.00	40620	Md	Right	Cheek	LTE Band 41	B	Open	0172M	20	QPSK	1	0	26.0	24.51	0	0.02	1:1.58	0.029	1.409	0.041	
Power Class 3	2593.00	40620	Md	Right	Cheek	LTE Band 41	B	Open	0172M	20	QPSK	50	25	25.0	23.59	1	0.03	1:1.58	0.024	1.384	0.033	
Power Class 3	2593.00	40620	Md	Right	Tilt	LTE Band 41	B	Open	0172M	20	QPSK	1	0	26.0	24.51	0	-0.09	1:1.58	0.025	1.409	0.035	
Power Class 3	2593.00	40620	Md	Right	Tilt	LTE Band 41	B	Open	0172M	20	QPSK	50	25	25.0	23.59	1	0.00	1:1.58	0.017	1.384	0.024	
Power Class 3	2593.00	40620	Md	Left	Cheek	LTE Band 41	B	Open	0172M	20	QPSK	1	0	26.0	24.51	0	-0.05	1:1.58	0.041	1.409	0.058	A13
Power Class 3	2593.00	40620	Md	Left	Cheek	LTE Band 41	B	Open	0172M	20	QPSK	50	25	25.0	23.59	1	-0.11	1:1.58	0.032	1.384	0.044	
Power Class 2	2593.00	40620	Md	Left	Cheek	LTE Band 41	B	Open	0172M	20	QPSK	1	0	27.3	25.61	0	0.12	1:2.31	0.035	1.476	0.052	
Power Class 3	2593.00	40620	Md	Left	Tilt	LTE Band 41	B	Open	0172M	20	QPSK	1	0	26.0	24.51	0	0.07	1:1.58	0.020	1.409	0.028	
Power Class 3	2593.00	40620	Md	Left	Tilt	LTE Band 41	B	Open	0172M	20	QPSK	50	25	25.0	23.59	1	-0.20	1:1.58	0.014	1.384	0.019	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population											Head 1.6 W/kg (mW/g) averaged over 1 gram											

**Table 11-14  
NR Band n5 Head SAR**

MEASUREMENT RESULTS																						
Power Class	FREQUENCY		Side	Test Position	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)	
836.50	167300	Md	Right	Cheek	NR Band n5	A	Open	0340M	20	DFT-S-OFDM	QPSK	1	53	25.6	24.59	0	-0.02	1:1	0.109	1.262	0.138	
836.50	167300	Md	Right	Cheek	NR Band n5	A	Open	0340M	20	DFT-S-OFDM	QPSK	50	28	25.6	24.81	0	0.01	1:1	0.112	1.199	0.134	A14
836.50	167300	Md	Right	Cheek	NR Band n5	A	Open	0340M	20	CP-OFDM	QPSK	1	1	24.1	23.32	1.5	0.02	1:1	0.092	1.197	0.110	
836.50	167300	Md	Right	Tilt	NR Band n5	A	Open	0340M	20	DFT-S-OFDM	QPSK	1	53	25.6	24.59	0	0.16	1:1	0.090	1.262	0.114	
836.50	167300	Md	Right	Tilt	NR Band n5	A	Open	0340M	20	DFT-S-OFDM	QPSK	50	28	25.6	24.81	0	-0.14	1:1	0.089	1.199	0.107	
836.50	167300	Md	Left	Cheek	NR Band n5	A	Open	0340M	20	DFT-S-OFDM	QPSK	1	53	25.6	24.59	0	-0.01	1:1	0.104	1.262	0.131	
836.50	167300	Md	Left	Cheek	NR Band n5	A	Open	0340M	20	DFT-S-OFDM	QPSK	50	28	25.6	24.81	0	-0.02	1:1	0.108	1.199	0.129	
836.50	167300	Md	Left	Tilt	NR Band n5	A	Open	0340M	20	DFT-S-OFDM	QPSK	1	53	25.6	24.59	0	-0.03	1:1	0.101	1.262	0.127	
836.50	167300	Md	Left	Tilt	NR Band n5	A	Open	0340M	20	DFT-S-OFDM	QPSK	50	28	25.6	24.81	0	0.00	1:1	0.096	1.199	0.115	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population											Head 1.6 W/kg (mW/g) averaged over 1 gram											

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**Table 11-15  
NR Band n66 Antenna A Head SAR**

MEASUREMENT RESULTS																						
FREQUENCY		Side	Test Position	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.																					
1745.00	349000	Mid	Right	Cheek	NR Band n66	A	Open	0337M	40	DFT-S-OFDM	QPSK	1	1	25.5	24.77	0	0.12	1:1	0.047	1.183	0.056	
1745.00	349000	Mid	Right	Cheek	NR Band n66	A	Open	0337M	40	DFT-S-OFDM	QPSK	108	54	25.5	24.79	0	-0.13	1:1	0.039	1.178	0.046	
1745.00	349000	Mid	Right	Tilt	NR Band n66	A	Open	0337M	40	DFT-S-OFDM	QPSK	1	1	25.5	24.77	0	-0.12	1:1	0.038	1.183	0.043	
1745.00	349000	Mid	Right	Tilt	NR Band n66	A	Open	0337M	40	DFT-S-OFDM	QPSK	108	54	25.5	24.79	0	0.13	1:1	0.033	1.178	0.039	
1745.00	349000	Mid	Left	Cheek	NR Band n66	A	Open	0337M	40	DFT-S-OFDM	QPSK	1	1	25.5	24.77	0	-0.16	1:1	0.056	1.183	0.066	
1745.00	349000	Mid	Left	Cheek	NR Band n66	A	Open	0353M	40	DFT-S-OFDM	QPSK	108	54	25.5	24.79	0	0.08	1:1	0.061	1.178	0.072	
1745.00	349000	Mid	Left	Cheek	NR Band n66	A	Open	0353M	40	CP-OFDM	QPSK	1	1	24.0	23.40	1.5	-0.04	1:1	0.045	1.148	0.052	
1745.00	349000	Mid	Left	Tilt	NR Band n66	A	Open	0353M	40	DFT-S-OFDM	QPSK	1	1	25.5	24.77	0	-0.14	1:1	0.035	1.183	0.041	
1745.00	349000	Mid	Left	Tilt	NR Band n66	A	Open	0353M	40	DFT-S-OFDM	QPSK	108	54	25.5	24.79	0	0.04	1:1	0.042	1.178	0.049	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population													Head 1.6 W/kg (mW/g) averaged over 1 gram									

**Table 11-16  
NR Band n66 Antenna I Head SAR**

MEASUREMENT RESULTS																						
FREQUENCY		Side	Test Position	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.																					
1745.00	349000	Mid	Right	Cheek	NR Band n66	I	Open	0353M	40	DFT-S-OFDM	QPSK	1	1	18.0	17.51	0	0.01	1:1	0.329	1.119	0.368	
1745.00	349000	Mid	Right	Cheek	NR Band n66	I	Open	0353M	40	DFT-S-OFDM	QPSK	108	0	18.0	17.39	0	-0.01	1:1	0.341	1.151	0.392	
1745.00	349000	Mid	Right	Tilt	NR Band n66	I	Open	0353M	40	DFT-S-OFDM	QPSK	1	1	18.0	17.51	0	-0.02	1:1	0.059	1.119	0.066	
1745.00	349000	Mid	Right	Tilt	NR Band n66	I	Open	0353M	40	DFT-S-OFDM	QPSK	108	0	18.0	17.39	0	0.08	1:1	0.059	1.151	0.068	
1745.00	349000	Mid	Left	Cheek	NR Band n66	I	Open	0353M	40	DFT-S-OFDM	QPSK	1	1	18.0	17.51	0	-0.06	1:1	0.536	1.119	0.600	
1745.00	349000	Mid	Left	Cheek	NR Band n66	I	Open	0353M	40	DFT-S-OFDM	QPSK	108	0	18.0	17.39	0	0.00	1:1	0.552	1.151	0.635	
1745.00	349000	Mid	Left	Cheek	NR Band n66	I	Open	0353M	40	CP-OFDM	QPSK	1	1	18.0	17.55	0	0.04	1:1	0.553	1.109	0.613	A15
1745.00	349000	Mid	Left	Tilt	NR Band n66	I	Open	0353M	40	DFT-S-OFDM	QPSK	1	1	18.0	17.51	0	0.00	1:1	0.148	1.119	0.166	
1745.00	349000	Mid	Left	Tilt	NR Band n66	I	Open	0353M	40	DFT-S-OFDM	QPSK	108	0	18.0	17.39	0	-0.04	1:1	0.149	1.151	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									

**Table 11-17  
NR Band n25 Antenna A Head SAR**

MEASUREMENT RESULTS																						
FREQUENCY		Side	Test Position	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.																					
1882.50	376500	Mid	Right	Cheek	NR Band n25	A	Open	0320M	40	DFT-S-OFDM	QPSK	1	214	25.3	25.08	0	-0.16	1:1	0.039	1.052	0.041	
1882.50	376500	Mid	Right	Cheek	NR Band n25	A	Open	0320M	40	DFT-S-OFDM	QPSK	108	54	25.3	24.84	0	-0.20	1:1	0.041	1.112	0.046	
1882.50	376500	Mid	Right	Tilt	NR Band n25	A	Open	0320M	40	DFT-S-OFDM	QPSK	1	214	25.3	25.08	0	-0.14	1:1	0.019	1.052	0.020	
1882.50	376500	Mid	Right	Tilt	NR Band n25	A	Open	0320M	40	DFT-S-OFDM	QPSK	108	54	25.3	24.84	0	-0.15	1:1	0.017	1.112	0.019	
1882.50	376500	Mid	Left	Cheek	NR Band n25	A	Open	0320M	40	DFT-S-OFDM	QPSK	1	214	25.3	25.08	0	-0.07	1:1	0.045	1.052	0.047	
1882.50	376500	Mid	Left	Cheek	NR Band n25	A	Open	0320M	40	DFT-S-OFDM	QPSK	108	54	25.3	24.84	0	-0.13	1:1	0.038	1.112	0.042	
1882.50	376500	Mid	Left	Cheek	NR Band n25	A	Open	0320M	40	CP-OFDM	QPSK	1	1	23.8	23.33	1.5	0.16	1:1	0.022	1.114	0.025	
1882.50	376500	Mid	Left	Tilt	NR Band n25	A	Open	0320M	40	DFT-S-OFDM	QPSK	1	214	25.3	25.08	0	0.07	1:1	0.011	1.052	0.012	
1882.50	376500	Mid	Left	Tilt	NR Band n25	A	Open	0320M	40	DFT-S-OFDM	QPSK	108	54	25.3	24.84	0	0.14	1:1	0.011	1.112	0.012	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population													Head 1.6 W/kg (mW/g) averaged over 1 gram									

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**Table 11-18  
NR Band n25 Antenna I Head SAR**

MEASUREMENT RESULTS																						
FREQUENCY		Side	Test Position	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.																					
1882.50	376500	Mid	Right	Cheek	NR Band n25	I	Open	0353M	40	DFT-S-OFDM	QPSK	1	214	15.5	14.53	0	-0.01	1:1	0.441	1.250	0.551	
1882.50	376500	Mid	Right	Cheek	NR Band n25	I	Open	0353M	40	DFT-S-OFDM	QPSK	108	108	15.5	14.36	0	-0.03	1:1	0.432	1.300	0.562	
1882.50	376500	Mid	Right	Tilt	NR Band n25	I	Open	0353M	40	DFT-S-OFDM	QPSK	1	214	15.5	14.53	0	0.06	1:1	0.082	1.250	0.103	
1882.50	376500	Mid	Right	Tilt	NR Band n25	I	Open	0353M	40	DFT-S-OFDM	QPSK	108	108	15.5	14.36	0	-0.07	1:1	0.079	1.300	0.103	
1882.50	376500	Mid	Left	Cheek	NR Band n25	I	Open	0353M	40	DFT-S-OFDM	QPSK	1	214	15.5	14.53	0	-0.02	1:1	0.602	1.250	0.753	A16
1882.50	376500	Mid	Left	Cheek	NR Band n25	I	Open	0355M	40	DFT-S-OFDM	QPSK	108	108	15.5	14.36	0	-0.01	1:1	0.589	1.300	0.766	
1882.50	376500	Mid	Left	Cheek	NR Band n25	I	Open	0356M	40	CP-OFDM	QPSK	1	1	15.5	14.31	0	0.03	1:1	0.493	1.315	0.648	
1882.50	376500	Mid	Left	Tilt	NR Band n25	I	Open	0353M	40	DFT-S-OFDM	QPSK	1	214	15.5	14.53	0	-0.01	1:1	0.152	1.250	0.190	
1882.50	376500	Mid	Left	Tilt	NR Band n25	I	Open	0353M	40	DFT-S-OFDM	QPSK	108	108	15.5	14.36	0	-0.03	1:1	0.147	1.300	0.191	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population													Head 1.6 W/kg (mW/g) averaged over 1 gram									

**Table 11-19  
NR Band n41 Antenna I/B Head SAR**

MEASUREMENT RESULTS																						
FREQUENCY		Side	Test Position	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	Right	Cheek	NR Band n41	I	Open	0433M	100	DFT-S-OFDM	QPSK	1	137	14.5	13.51	0	0.00	1:1	0.156	1.256	0.196	
2592.99	518598	Mid	Right	Cheek	NR Band n41	I	Open	0433M	100	DFT-S-OFDM	QPSK	135	69	14.5	13.48	0	-0.10	1:1	0.155	1.265	0.196	
2592.99	518598	Mid	Right	Tilt	NR Band n41	I	Open	0433M	100	DFT-S-OFDM	QPSK	1	137	14.5	13.51	0	-0.17	1:1	0.039	1.256	0.049	
2592.99	518598	Mid	Right	Tilt	NR Band n41	I	Open	0433M	100	DFT-S-OFDM	QPSK	135	69	14.5	13.48	0	-0.16	1:1	0.036	1.265	0.046	
2592.99	518598	Mid	Left	Cheek	NR Band n41	I	Open	0433M	100	DFT-S-OFDM	QPSK	1	137	14.5	13.51	0	-0.02	1:1	0.681	1.256	0.855	
2592.99	518598	Mid	Left	Cheek	NR Band n41	I	Open	0433M	100	DFT-S-OFDM	QPSK	135	69	14.5	13.48	0	-0.04	1:1	0.697	1.265	0.882	A17
2592.99	518598	Mid	Left	Cheek	NR Band n41	I	Open	0433M	100	DFT-S-OFDM	QPSK	270	0	14.5	13.43	0	-0.02	1:1	0.677	1.279	0.866	
2592.99	518598	Mid	Left	Cheek	NR Band n41	I	Open	0433M	100	CP-OFDM	QPSK	1	1	14.5	13.38	0	-0.04	1:1	0.611	1.294	0.791	
2592.99	518598	Mid	Left	Tilt	NR Band n41	I	Open	0433M	100	DFT-S-OFDM	QPSK	1	137	14.5	13.51	0	0.09	1:1	0.133	1.256	0.167	
2592.99	518598	Mid	Left	Tilt	NR Band n41	I	Open	0433M	100	DFT-S-OFDM	QPSK	135	69	14.5	13.48	0	0.00	1:1	0.079	1.265	0.100	
2592.99	518598	Mid	Right	Cheek	NR Band n41	B	Open	0433M	100	CW/SRS	N/A	N/A	N/A	13.5	13.36	N/A	0.19	1:1	0.000	1.033	0.000	
2592.99	518598	Mid	Right	Tilt	NR Band n41	B	Open	0433M	100	CW/SRS	N/A	N/A	N/A	13.5	13.36	N/A	-0.14	1:1	0.000	1.033	0.000	
2592.99	518598	Mid	Left	Cheek	NR Band n41	B	Open	0433M	100	CW/SRS	N/A	N/A	N/A	13.5	13.36	N/A	0.17	1:1	0.000	1.033	0.000	
2592.99	518598	Mid	Left	Tilt	NR Band n41	B	Open	0433M	100	CW/SRS	N/A	N/A	N/A	13.5	13.36	N/A	0.00	1:1	0.000	1.033	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									

**Table 11-20  
NR Band n41 Antenna F/C Head SAR**

MEASUREMENT RESULTS																				
FREQUENCY		Side	Test Position	Mode	Antenna Config	Form Factor	Serial Number	Bandwidth [MHz]	Waveform	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Duty Cycle	SAR (1g) (W/kg)	Scaling Factor	Reported SAR (1g) (W/kg)	Plot #			
MHz	Ch.																			
2592.99	518598	Mid	Right	Cheek	NR Band n41	F	Open	0433M	100	CW/SRS	6.0	5.22	-0.01	1:1	0.150	1.197	0.180			
2592.99	518598	Mid	Right	Tilt	NR Band n41	F	Open	0433M	100	CW/SRS	6.0	5.22	0.03	1:1	0.112	1.197	0.134			
2592.99	518598	Mid	Left	Cheek	NR Band n41	F	Open	0433M	100	CW/SRS	6.0	5.22	0.14	1:1	0.039	1.197	0.047			
2592.99	518598	Mid	Left	Tilt	NR Band n41	F	Open	0433M	100	CW/SRS	6.0	5.22	0.03	1:1	0.046	1.197	0.055			
2592.99	518598	Mid	Right	Cheek	NR Band n41	C	Open	0433M	100	CW/SRS	11.5	11.01	0.02	1:1	0.000	1.119	0.000			
2592.99	518598	Mid	Right	Tilt	NR Band n41	C	Open	0433M	100	CW/SRS	11.5	11.01	0.13	1:1	0.000	1.119	0.000			
2592.99	518598	Mid	Left	Cheek	NR Band n41	C	Open	0433M	100	CW/SRS	11.5	11.01	0.00	1:1	0.008	1.119	0.009			
2592.99	518598	Mid	Left	Tilt	NR Band n41	C	Open	0433M	100	CW/SRS	11.5	11.01	0.12	1:1	0.000	1.119	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 11-21  
NR Band n77 Antenna F/I Head SAR**

MEASUREMENT RESULTS																						
FREQUENCY		Side	Test Position	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.																					
3750.00	650000	Low	Right	Cheek	NR Band n77	F	Open	0433M	100	DFT-S-OFDM	QPSK	1	271	13.5	13.39	0	0.01	1:1	0.375	1.026	0.385	
3750.00	650000	Low	Right	Cheek	NR Band n77	F	Open	0433M	100	DFT-S-OFDM	QPSK	135	138	13.5	13.25	0	0.10	1:1	0.373	1.059	0.395	
3750.00	650000	Low	Right	Cheek	NR Band n77	F	Open	0433M	100	CP-OFDM	QPSK	1	1	13.5	12.62	0	0.04	1:1	0.508	1.225	0.622	
3500.01	633334	Mid	Right	Cheek	NR Band n77 DoD	F	Open	0234M	100	DFT-S-OFDM	QPSK	1	271	13.5	12.45	0	0.02	1:1	0.451	1.274	0.575	
3750.00	650000	Low	Right	Tilt	NR Band n77	F	Open	0433M	100	DFT-S-OFDM	QPSK	1	271	13.5	13.39	0	0.07	1:1	0.258	1.026	0.265	
3750.00	650000	Low	Right	Tilt	NR Band n77	F	Open	0433M	100	DFT-S-OFDM	QPSK	135	138	13.5	13.25	0	-0.07	1:1	0.268	1.059	0.284	
3750.00	650000	Low	Left	Cheek	NR Band n77	F	Open	0433M	100	DFT-S-OFDM	QPSK	1	271	13.5	13.39	0	-0.14	1:1	0.076	1.026	0.078	
3750.00	650000	Low	Left	Cheek	NR Band n77	F	Open	0433M	100	DFT-S-OFDM	QPSK	135	138	13.5	13.25	0	0.13	1:1	0.073	1.059	0.077	
3750.00	650000	Low	Left	Tilt	NR Band n77	F	Open	0433M	100	DFT-S-OFDM	QPSK	1	271	13.5	13.39	0	-0.09	1:1	0.067	1.026	0.069	
3750.00	650000	Low	Left	Tilt	NR Band n77	F	Open	0433M	100	DFT-S-OFDM	QPSK	135	138	13.5	13.25	0	0.07	1:1	0.069	1.059	0.073	
3750.00	650000	Low	Right	Cheek	NR Band n77	I	Open	0433M	100	CW/SRS	N/A	N/A	N/A	11.0	10.20	N/A	0.10	1:1	0.246	1.202	0.298	
3500.01	633334	Mid	Right	Cheek	NR Band n77 DoD	I	Open	0433M	100	CW/SRS	N/A	N/A	N/A	11.0	9.51	N/A	-0.01	1:1	0.510	1.409	0.719	A18
3750.00	650000	Low	Right	Tilt	NR Band n77	I	Open	0433M	100	CW/SRS	N/A	N/A	N/A	11.0	10.20	N/A	0.20	1:1	0.013	1.202	0.016	
3750.00	650000	Low	Left	Cheek	NR Band n77	I	Open	0433M	100	CW/SRS	N/A	N/A	N/A	11.0	10.20	N/A	-0.02	1:1	0.202	1.202	0.243	
3750.00	650000	Low	Left	Tilt	NR Band n77	I	Open	0433M	100	CW/SRS	N/A	N/A	N/A	11.0	10.20	N/A	0.20	1:1	0.017	1.202	0.020	
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 n77 Antenna E/C Head SAR**

MEASUREMENT RESULTS																				
FREQUENCY		Side	Test Position	Mode	Antenna Config	Form Factor	Serial Number	Bandwidth [MHz]	Waveform	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.																			
3750.00	650000	Low	Right	Cheek	NR Band n77	E	Open	0433M	100	CW/SRS	11.5	11.01	N/A	0.03	1:1	0.144	1.119	0.161		
3750.00	650000	Low	Right	Tilt	NR Band n77	E	Open	0433M	100	CW/SRS	11.5	11.01	N/A	0.04	1:1	0.030	1.119	0.034		
3750.00	650000	Low	Left	Cheek	NR Band n77	E	Open	0433M	100	CW/SRS	11.5	11.01	N/A	0.02	1:1	0.201	1.119	0.225		
3500.01	633334	Mid	Left	Cheek	NR Band n77 DoD	E	Open	0433M	100	CW/SRS	11.5	11.05	N/A	-0.07	1:1	0.251	1.109	0.278		
3750.00	650000	Low	Left	Tilt	NR Band n77	E	Open	0433M	100	CW/SRS	11.5	11.01	N/A	-0.15	1:1	0.019	1.119	0.021		
3750.00	650000	Low	Right	Cheek	NR Band n77	C	Open	0433M	100	CW/SRS	10.0	9.41	N/A	0.00	1:1	0.000	1.146	0.000		
3750.00	650000	Low	Right	Tilt	NR Band n77	C	Open	0433M	100	CW/SRS	10.0	9.41	N/A	0.00	1:1	0.000	1.146	0.000		
3750.00	650000	Low	Left	Cheek	NR Band n77	C	Open	0433M	100	CW/SRS	10.0	9.41	N/A	0.15	1:1	0.027	1.146	0.031		
3500.01	633334	Mid	Left	Cheek	NR Band n77 DoD	C	Open	0433M	100	CW/SRS	10.0	8.31	N/A	0.02	1:1	0.009	1.476	0.013		
3750.00	650000	Low	Left	Tilt	NR Band n77	C	Open	0433M	100	CW/SRS	10.0	9.41	N/A	0.00	1:1	0.004	1.146	0.005		
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population													Head 1.6 W/kg (mW/g) averaged over 1 gram							

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**Table 11-23  
DTS Head SISO SAR**

MEASUREMENT RESULTS																				
FREQUENCY		Side	Test Position	Mode	Service	Antenna Config.	Form Factor	Device Serial Number	Bandwidth [MHz]	Data Rate (Mbps)	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Maximum Duty Cycle (%)	Duty Cycle (%)	SAR (1g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot #
MHz	Ch.															(W/kg)			(W/kg)	
2412	1	Right	Cheek	802.11b	DSSS	2	Open	1320M	22	1	12.0	12.00	0.02	100.00	98.74	0.111	1.000	1.013	0.112	
2412	1	Right	Tilt	802.11b	DSSS	2	Open	1320M	22	1	12.0	12.00	-0.07	100.00	98.74	0.102	1.000	1.013	0.103	
2412	1	Left	Cheek	802.11b	DSSS	2	Open	1320M	22	1	12.0	12.00	0.03	100.00	98.74	0.269	1.000	1.013	0.272	A19
2412	1	Left	Tilt	802.11b	DSSS	2	Open	1320M	22	1	12.0	12.00	-0.18	100.00	98.74	0.176	1.000	1.013	0.178	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population												Head 1.6 W/kg (mW/g) averaged over 1 gram								

**Table 11-24  
DTS Head MIMO SAR**

MEASUREMENT RESULTS																						
FREQUENCY		Side	Test Position	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]	Maximum Duty Cycle (%)	Duty Cycle (%)	SAR (1g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot #
MHz	Ch.																	(W/kg)			(W/kg)	
2412	1	Right	Cheek	802.11n	OFDM	MIMO	Open	1375M	20	13	9.0	8.86	9.0	8.66	0.05	100.00	98.00	0.055	1.081	1.020	0.061	
2412	1	Right	Tilt	802.11n	OFDM	MIMO	Open	1375M	20	13	9.0	8.86	9.0	8.66	0.10	100.00	98.00	0.033	1.081	1.020	0.036	
2412	1	Left	Cheek	802.11n	OFDM	MIMO	Open	1375M	20	13	9.0	8.86	9.0	8.66	0.03	100.00	98.00	0.075	1.081	1.020	0.083	
2412	1	Left	Tilt	802.11n	OFDM	MIMO	Open	1375M	20	13	9.0	8.86	9.0	8.66	0.09	100.00	98.00	0.039	1.081	1.020	0.043	
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 11.0 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 9.0 dBm.

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**Table 11-25  
NII MIMO Head SAR**

MEASUREMENT RESULTS																						
FREQUENCY		Side	Test Position	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]	Maximum Duty Cycle (%)	Duty Cycle (%)	SAR (1g) (W/kg)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g) (W/kg)	Plot #
MHz	Ch.																					
5260	52	Right	Cheek	802.11n	OFDM	MIMO	Open	0227M	20	13	16.0	15.72	16.0	15.68	0.03	100.00	98.11	0.685	1.076	1.019	0.751	
5260	52	Right	Tilt	802.11n	OFDM	MIMO	Open	0227M	20	13	16.0	15.72	16.0	15.68	0.01	100.00	98.11	0.556	1.076	1.019	0.610	
5260	52	Left	Cheek	802.11n	OFDM	MIMO	Open	0227M	20	13	16.0	15.72	16.0	15.68	-0.04	100.00	98.11	0.555	1.076	1.019	0.609	
5260	52	Left	Tilt	802.11n	OFDM	MIMO	Open	0227M	20	13	16.0	15.72	16.0	15.68	0.02	100.00	98.11	0.392	1.076	1.019	0.430	
5720	144	Right	Cheek	802.11n	OFDM	MIMO	Open	0227M	20	13	16.0	15.69	16.0	15.86	0.08	100.00	98.11	0.358	1.074	1.019	0.392	
5720	144	Right	Tilt	802.11n	OFDM	MIMO	Open	0227M	20	13	16.0	15.69	16.0	15.86	0.07	100.00	98.11	0.446	1.074	1.019	0.488	
5720	144	Left	Cheek	802.11n	OFDM	MIMO	Open	0227M	20	13	16.0	15.69	16.0	15.86	-0.01	100.00	98.11	0.654	1.074	1.019	0.716	
5720	144	Left	Tilt	802.11n	OFDM	MIMO	Open	0227M	20	13	16.0	15.69	16.0	15.86	-0.16	100.00	98.11	0.524	1.074	1.019	0.573	
5825	165	Right	Cheek	802.11n	OFDM	MIMO	Open	0227M	20	13	16.0	15.93	16.0	15.82	0.05	100.00	98.11	0.485	1.042	1.019	0.515	
5825	165	Right	Tilt	802.11n	OFDM	MIMO	Open	0227M	20	13	16.0	15.93	16.0	15.82	-0.03	100.00	98.11	0.305	1.042	1.019	0.324	
5745	149	Left	Cheek	802.11n	OFDM	MIMO	Open	0227M	20	13	16.0	15.67	16.0	15.49	-0.04	100.00	98.11	0.644	1.125	1.019	0.738	
5785	157	Left	Cheek	802.11n	OFDM	MIMO	Open	0227M	20	13	16.0	15.61	16.0	15.54	-0.01	100.00	98.11	0.628	1.112	1.019	0.712	
5825	165	Left	Cheek	802.11n	OFDM	MIMO	Open	0227M	20	13	16.0	15.93	16.0	15.82	0.02	100.00	98.11	0.806	1.042	1.019	0.856	
5785	157	Left	Tilt	802.11n	OFDM	MIMO	Open	0227M	20	13	16.0	15.61	16.0	15.54	0.00	100.00	98.11	0.543	1.112	1.019	0.615	
5825	165	Left	Tilt	802.11n	OFDM	MIMO	Open	0227M	20	13	16.0	15.93	16.0	15.82	-0.05	100.00	98.11	0.780	1.042	1.019	0.828	
5845	169	Right	Cheek	802.11n	OFDM	MIMO	Open	0227M	20	13	16.0	15.81	16.0	15.78	0.07	100.00	98.11	0.449	1.052	1.019	0.481	
5845	169	Right	Tilt	802.11n	OFDM	MIMO	Open	0227M	20	13	16.0	15.81	16.0	15.78	0.05	100.00	98.11	0.345	1.052	1.019	0.370	
5845	169	Left	Cheek	802.11n	OFDM	MIMO	Open	0227M	20	13	16.0	15.81	16.0	15.78	-0.09	100.00	98.11	0.807	1.052	1.019	0.865	
5865	173	Left	Cheek	802.11n	OFDM	MIMO	Open	0227M	20	13	16.0	15.71	16.0	15.69	-0.07	100.00	98.11	0.857	1.074	1.019	0.938	A20
5885	177	Left	Cheek	802.11n	OFDM	MIMO	Open	0227M	20	13	16.0	15.99	16.0	15.40	-0.02	100.00	98.11	0.777	1.148	1.019	0.909	
5845	169	Left	Tilt	802.11n	OFDM	MIMO	Open	0227M	20	13	16.0	15.81	16.0	15.78	-0.07	100.00	98.11	0.776	1.052	1.019	0.832	
5885	177	Left	Tilt	802.11n	OFDM	MIMO	Open	0227M	20	13	16.0	15.99	16.0	15.40	0.02	100.00	98.11	0.768	1.148	1.019	0.898	
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 19.0 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 16.0 dBm. Blue entry represents variability measurement.

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**Table 11-26  
DSS Head SISO SAR**

MEASUREMENT RESULTS																			
FREQUENCY		Side	Test Position	Mode	Service	Antenna Config.	Form Factor	Device Serial Number	Data Rate (Mbps)	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Maximum Duty Cycle (%)	Duty Cycle (%)	SAR (1g)	Scaling Factor (Cond Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot #
MHz	Ch.														(W/kg)			(W/kg)	
2441	39	Right	Cheek	Bluetooth	FHSS	1	Open	0164M	1	16.5	16.40	-0.06	78.00	76.85	0.456	1.023	1.015	0.473	
2440	19	Right	Cheek	Bluetooth LE	DSSS	1	Open	0164M	1	17.0	16.42	-0.01	53.00	51.33	0.029	1.143	1.033	0.034	
2441	39	Right	Tilt	Bluetooth	FHSS	1	Open	0164M	1	16.5	16.40	0.02	78.00	76.85	0.292	1.023	1.015	0.303	
2441	39	Left	Cheek	Bluetooth	FHSS	1	Open	0164M	1	16.5	16.40	-0.10	78.00	76.85	0.063	1.023	1.015	0.065	
2441	39	Left	Tilt	Bluetooth	FHSS	1	Open	0164M	1	16.5	16.40	-0.06	78.00	76.85	0.061	1.023	1.015	0.063	
2441	39	Right	Cheek	Bluetooth	FHSS	2	Open	0164M	1	17.0	16.74	-0.02	78.00	76.90	0.215	1.062	1.014	0.232	
2441	39	Right	Tilt	Bluetooth	FHSS	2	Open	0164M	1	17.0	16.74	-0.11	78.00	76.90	0.188	1.062	1.014	0.202	
2402	0	Left	Cheek	Bluetooth	FHSS	2	Open	0164M	1	17.0	16.59	0.10	78.00	76.90	0.511	1.099	1.014	0.569	
2441	39	Left	Cheek	Bluetooth	FHSS	2	Open	0164M	1	17.0	16.74	0.07	78.00	76.90	0.631	1.062	1.014	0.680	A21
2480	78	Left	Cheek	Bluetooth	FHSS	2	Open	0164M	1	17.0	15.49	-0.05	78.00	76.90	0.518	1.416	1.014	0.744	
2402	0	Left	Cheek	Bluetooth LE	DSSS	2	Open	0164M	1	18.5	18.29	0.00	53.00	51.32	0.045	1.050	1.033	0.049	
2441	39	Left	Tilt	Bluetooth	FHSS	2	Open	0164M	1	17.0	16.74	-0.04	78.00	76.90	0.310	1.062	1.014	0.334	
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: 1) Light green entries indicate an additional check on the worst case exposure condition for BT LE that is not fully evaluated. 2) BT LE Antenna 2 was tested at a higher level than listed in the tune-up and is therefore a more conservative result.

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## 11.2 Standalone Body-Worn SAR Data

**Table 11-27  
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	0371M	34.5	33.10	0.01	1:8.3	0.110	1.380	0.152	
848.80	251	back	15 mm	GSM 850	GSM	A	Closed	0371M	34.5	33.10	0.05	1:8.3	0.312	1.380	0.431	A22
1909.80	810	back	15 mm	GSM 1900	GSM	A	Open	0354M	30.0	28.76	-0.06	1:8.3	0.141	1.330	0.188	A23
1909.80	810	back	15 mm	GSM 1900	GSM	A	Closed	0354M	30.0	28.76	-0.10	1:8.3	0.073	1.330	0.097	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population									Body 1.6 W/kg (mW/g) averaged over 1 gram							

**Table 11-28  
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	0317M	26.0	25.21	0.10	1:1	0.152	1.199	0.182	
846.60	4233	back	15 mm	UMTS 850	RMC	A	Closed	0371M	26.0	25.21	0.02	1:1	0.385	1.199	0.462	A24
1712.40	1312	back	15 mm	UMTS 1750	RMC	A	Open	0346M	22.0	21.01	0.02	1:1	0.199	1.256	0.250	A25
1712.40	1312	back	15 mm	UMTS 1750	RMC	A	Closed	0346M	22.0	21.01	-0.01	1:1	0.038	1.256	0.048	
1907.60	9538	back	15 mm	UMTS 1900	RMC	A	Open	1391M	24.0	23.30	-0.04	1:1	0.335	1.175	0.394	A26
1907.60	9538	back	15 mm	UMTS 1900	RMC	A	Closed	1391M	24.0	23.30	0.04	1:1	0.193	1.175	0.227	
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 11-29  
LTE Antenna A 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) (W/kg)	Scaling Factor	Reported SAR (1g) (W/kg)	Plot #	
MHz	Ch.																				
707.50	23095	Mid	back	15 mm	LTE Band 12	A	Open	0381M	10	QPSK	1	25	24.0	22.56	0	0.01	1:1	0.304	1.393	0.423	A27
707.50	23095	Mid	back	15 mm	LTE Band 12	A	Open	0381M	10	QPSK	25	25	24.0	22.59	0	0.02	1:1	0.237	1.384	0.328	
707.50	23095	Mid	back	15 mm	LTE Band 12	A	Closed	0381M	10	QPSK	1	25	24.0	22.56	0	-0.02	1:1	0.166	1.393	0.231	
707.50	23095	Mid	back	15 mm	LTE Band 12	A	Closed	0381M	10	QPSK	25	25	24.0	22.59	0	0.00	1:1	0.131	1.384	0.181	
782.00	23230	Mid	back	15 mm	LTE Band 13	A	Open	0381M	10	QPSK	1	0	24.0	22.64	0	0.02	1:1	0.228	1.368	0.312	
782.00	23230	Mid	back	15 mm	LTE Band 13	A	Open	0381M	10	QPSK	25	0	24.0	22.62	0	0.03	1:1	0.176	1.374	0.242	
782.00	23230	Mid	back	15 mm	LTE Band 13	A	Closed	0381M	10	QPSK	1	0	24.0	22.64	0	0.04	1:1	0.328	1.368	0.449	A28
782.00	23230	Mid	back	15 mm	LTE Band 13	A	Closed	0381M	10	QPSK	25	0	24.0	22.62	0	0.02	1:1	0.253	1.374	0.348	
831.50	26865	Mid	back	15 mm	LTE Band 26 (Cell)	A	Open	0371M	15	QPSK	1	74	26.0	24.78	0	0.02	1:1	0.163	1.324	0.216	
831.50	26865	Mid	back	15 mm	LTE Band 26 (Cell)	A	Open	0371M	15	QPSK	36	37	25.0	23.78	1	0.00	1:1	0.134	1.324	0.177	
831.50	26865	Mid	back	15 mm	LTE Band 26 (Cell)	A	Closed	0371M	15	QPSK	1	74	26.0	24.78	0	0.00	1:1	0.275	1.324	0.364	A29
831.50	26865	Mid	back	15 mm	LTE Band 26 (Cell)	A	Closed	0371M	15	QPSK	36	37	25.0	23.78	1	0.14	1:1	0.222	1.324	0.294	
1770.00	132572	High	back	15 mm	LTE Band 66 (AWS)	A	Open	0354M	20	QPSK	1	99	22.5	21.20	0	0.01	1:1	0.259	1.349	0.349	
1770.00	132572	High	back	15 mm	LTE Band 66 (AWS)	A	Open	0354M	20	QPSK	50	50	22.5	21.27	0	0.03	1:1	0.266	1.327	0.353	A30
1770.00	132572	High	back	15 mm	LTE Band 66 (AWS)	A	Closed	0354M	20	QPSK	1	99	22.5	21.20	0	-0.02	1:1	0.099	1.349	0.134	
1770.00	132572	High	back	15 mm	LTE Band 66 (AWS)	A	Closed	0354M	20	QPSK	50	50	22.5	21.27	0	0.04	1:1	0.099	1.327	0.131	
1905.00	26590	High	back	15 mm	LTE Band 25 (PCS)	A	Open	0354M	20	QPSK	1	99	23.0	21.98	0	0.04	1:1	0.303	1.265	0.383	A31
1905.00	26590	High	back	15 mm	LTE Band 25 (PCS)	A	Open	0354M	20	QPSK	50	50	23.0	22.04	0	-0.02	1:1	0.300	1.247	0.374	
1905.00	26590	High	back	15 mm	LTE Band 25 (PCS)	A	Closed	0354M	20	QPSK	1	99	23.0	21.98	0	0.03	1:1	0.222	1.265	0.281	
1905.00	26590	High	back	15 mm	LTE Band 25 (PCS)	A	Closed	0354M	20	QPSK	50	50	23.0	22.04	0	-0.03	1:1	0.214	1.247	0.267	
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 11-30  
LTE Antenna I 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) (W/kg)	Scaling Factor	Reported SAR (1g) (W/kg)	Plot #	
MHz	Ch.																				
1720.00	132072	Low	back	15 mm	LTE Band 66 (AWS)	I	Open	0317M	20	QPSK	1	0	22.0	21.11	0	0.01	1:1	0.168	1.227	0.206	
1720.00	132072	Low	back	15 mm	LTE Band 66 (AWS)	I	Open	0317M	20	QPSK	50	0	22.0	21.10	0	0.01	1:1	0.167	1.230	0.205	
1720.00	132072	Low	back	15 mm	LTE Band 66 (AWS)	I	Closed	0317M	20	QPSK	1	0	22.0	21.11	0	-0.14	1:1	0.018	1.227	0.022	
1720.00	132072	Low	back	15 mm	LTE Band 66 (AWS)	I	Closed	0317M	20	QPSK	50	0	22.0	21.10	0	0.13	1:1	0.016	1.230	0.020	
1905.00	26590	High	back	15 mm	LTE Band 25 (PCS)	I	Open	0433M	20	QPSK	1	99	22.0	21.02	0	0.02	1:1	0.221	1.253	0.277	
1905.00	26590	High	back	15 mm	LTE Band 25 (PCS)	I	Open	0433M	20	QPSK	50	50	22.0	20.73	0	0.02	1:1	0.220	1.340	0.295	
1905.00	26590	High	back	15 mm	LTE Band 25 (PCS)	I	Closed	0433M	20	QPSK	1	99	22.0	21.02	0	-0.18	1:1	0.030	1.253	0.038	
1905.00	26590	High	back	15 mm	LTE Band 25 (PCS)	I	Closed	0433M	20	QPSK	50	50	22.0	20.73	0	-0.11	1:1	0.030	1.340	0.040	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT												Body									
Spatial Peak												1.6 W/kg (mW/g)									
Uncontrolled Exposure/General Population												averaged over 1 gram									

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**Table 11-31  
LTE Band 41 Antenna B Body-Worn SAR**

MEASUREMENT RESULTS																						
Power Class	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.																				
Power Class 3	2593.00	40620	Md	back	15 mm	LTE Band 41	B	Open	0172M	20	QPSK	1	0	26.0	24.51	0	0.06	1:1.58	0.112	1.409	0.158	
Power Class 3	2593.00	40620	Md	back	15 mm	LTE Band 41	B	Open	0172M	20	QPSK	50	25	25.0	23.59	1	-0.06	1:1.58	0.088	1.384	0.122	
Power Class 2	2593.00	40620	Md	back	15 mm	LTE Band 41	B	Open	0172M	20	QPSK	1	0	27.3	25.61	0	-0.02	1:2.31	0.091	1.476	0.134	
Power Class 3	2593.00	40620	Md	back	15 mm	LTE Band 41	B	Closed	0172M	20	QPSK	1	0	26.0	24.51	0	-0.08	1:1.58	0.067	1.409	0.094	
Power Class 3	2593.00	40620	Md	back	15 mm	LTE Band 41	B	Closed	0172M	20	QPSK	50	25	25.0	23.59	1	-0.04	1:1.58	0.054	1.384	0.075	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population										Body 1.6 W/kg (mW/g) averaged over 1 gram												

**Table 11-32  
LTE Band 41 Antenna I 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) (W/kg)	Scaling Factor	Reported SAR (1g) (W/kg)	Plot #		
																				MHz	Ch.
2593.00	40620	Md	back	15 mm	LTE Band 41	I	Open	0317M	20	QPSK	1	0	23.5	22.59	0	-0.18	1:1.58	0.195	1.233	0.240	
2593.00	40620	Md	back	15 mm	LTE Band 41	I	Open	0317M	20	QPSK	50	25	23.5	22.73	0	0.09	1:1.58	0.188	1.194	0.224	
2593.00	40620	Md	back	15 mm	LTE Band 41	I	Open	0317M	20	QPSK	1	0	25.1	24.33	0	0.00	1:2.31	0.199	1.194	0.238	A32
2593.00	40620	Md	back	15 mm	LTE Band 41	I	Closed	0317M	20	QPSK	1	0	23.5	22.59	0	-0.12	1:1.58	0.058	1.233	0.072	
2593.00	40620	Md	back	15 mm	LTE Band 41	I	Closed	0317M	20	QPSK	50	25	23.5	22.73	0	-0.06	1:1.58	0.058	1.194	0.069	
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 11-33  
NR Body-Worn Antenna A 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)	Plot #	
MHz	Ch.																	(W/kg)		
836.50	167300	Mid	back	15 mm	NR Band n5	A	Open	0421M	20	DFT-S-OFDM	QPSK	1	53	25.6	24.59	0	-0.08	1:1	0.148	
836.50	167300	Mid	back	15 mm	NR Band n5	A	Open	0421M	20	DFT-S-OFDM	QPSK	50	28	25.6	24.81	0	0.00	1:1	0.198	
836.50	167300	Mid	back	15 mm	NR Band n5	A	Open	0421M	20	CP-OFDM	QPSK	1	1	24.1	23.32	1.5	0.05	1:1	0.124	
836.50	167300	Mid	back	15 mm	NR Band n5	A	Closed	0340M	20	DFT-S-OFDM	QPSK	1	53	25.6	24.59	0	-0.04	1:1	0.307	
836.50	167300	Mid	back	15 mm	NR Band n5	A	Closed	0340M	20	DFT-S-OFDM	QPSK	50	28	25.6	24.81	0	-0.02	1:1	0.313	A33
836.50	167300	Mid	back	15 mm	NR Band n5	A	Closed	0340M	20	CP-OFDM	QPSK	1	1	24.1	23.32	1.5	0.14	1:1	0.207	
1745.00	349000	Mid	back	15 mm	NR Band n66	A	Open	1625M	40	DFT-S-OFDM	QPSK	1	1	21.5	20.08	0	0.04	1:1	0.199	
1745.00	349000	Mid	back	15 mm	NR Band n66	A	Open	1505M	40	DFT-S-OFDM	QPSK	108	0	21.5	20.10	0	0.03	1:1	0.216	A34
1745.00	349000	Mid	back	15 mm	NR Band n66	A	Open	1625M	40	CP-OFDM	QPSK	1	1	21.5	20.15	0	0.02	1:1	0.203	
1745.00	349000	Mid	back	15 mm	NR Band n66	A	Closed	1625M	40	DFT-S-OFDM	QPSK	1	1	21.5	20.08	0	0.06	1:1	0.057	
1745.00	349000	Mid	back	15 mm	NR Band n66	A	Closed	1625M	40	DFT-S-OFDM	QPSK	108	0	21.5	20.10	0	0.06	1:1	0.054	
1745.00	349000	Mid	back	15 mm	NR Band n66	A	Closed	1625M	40	CP-OFDM	QPSK	1	1	21.5	20.15	0	0.04	1:1	0.058	
1882.50	376500	Mid	back	15 mm	NR Band n25	A	Open	0178M	40	DFT-S-OFDM	QPSK	1	214	23.0	22.13	0	0.03	1:1	0.289	
1882.50	376500	Mid	back	15 mm	NR Band n25	A	Open	0178M	40	DFT-S-OFDM	QPSK	108	108	23.0	22.06	0	-0.02	1:1	0.291	
1882.50	376500	Mid	back	15 mm	NR Band n25	A	Open	0178M	40	CP-OFDM	QPSK	1	1	23.0	21.92	0	0.00	1:1	0.265	
1882.50	376500	Mid	back	15 mm	NR Band n25	A	Closed	0178M	40	DFT-S-OFDM	QPSK	1	214	23.0	22.13	0	0.05	1:1	0.086	
1882.50	376500	Mid	back	15 mm	NR Band n25	A	Closed	0178M	40	DFT-S-OFDM	QPSK	108	108	23.0	22.06	0	0.03	1:1	0.087	
1882.50	376500	Mid	back	15 mm	NR Band n25	A	Closed	0178M	40	CP-OFDM	QPSK	1	1	23.0	21.92	0	-0.03	1:1	0.124	
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 11-34  
NR Body-Worn Antenna I 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	I	Open	0353M	40	DFT-S-OFDM	QPSK	1	1	22.0	21.46	0	-0.13	1:1	0.156	1.132	0.177	
1745.00	349000	Mid	back	15 mm	NR Band n66	I	Open	0353M	40	DFT-S-OFDM	QPSK	108	0	22.0	21.35	0	0.00	1:1	0.167	1.161	0.194	
1745.00	349000	Mid	back	15 mm	NR Band n66	I	Open	0353M	40	CP-OFDM	QPSK	1	1	22.0	21.60	0	0.07	1:1	0.172	1.096	0.189	
1745.00	349000	Mid	back	15 mm	NR Band n66	I	Closed	0353M	40	DFT-S-OFDM	QPSK	1	1	22.0	21.46	0	-0.01	1:1	0.015	1.132	0.017	
1745.00	349000	Mid	back	15 mm	NR Band n66	I	Closed	0353M	40	DFT-S-OFDM	QPSK	108	0	22.0	21.35	0	0.12	1:1	0.014	1.161	0.016	
1745.00	349000	Mid	back	15 mm	NR Band n66	I	Closed	0353M	40	CP-OFDM	QPSK	1	1	22.0	21.60	0	-0.02	1:1	0.004	1.096	0.004	
1882.50	376500	Mid	back	15 mm	NR Band n25	I	Open	0355M	40	DFT-S-OFDM	QPSK	1	214	22.0	21.58	0	0.06	1:1	0.334	1.102	0.368	
1882.50	376500	Mid	back	15 mm	NR Band n25	I	Open	0355M	40	DFT-S-OFDM	QPSK	108	108	22.0	21.38	0	0.00	1:1	0.335	1.153	0.386	
1882.50	376500	Mid	back	15 mm	NR Band n25	I	Open	0355M	40	CP-OFDM	QPSK	1	1	22.0	21.54	0	0.01	1:1	0.362	1.112	0.403	A35
1882.50	376500	Mid	back	15 mm	NR Band n25	I	Closed	0355M	40	DFT-S-OFDM	QPSK	1	214	22.0	21.58	0	0.10	1:1	0.054	1.102	0.060	
1882.50	376500	Mid	back	15 mm	NR Band n25	I	Closed	0355M	40	DFT-S-OFDM	QPSK	108	108	22.0	21.38	0	-0.20	1:1	0.053	1.153	0.061	
1882.50	376500	Mid	back	15 mm	NR Band n25	I	Closed	0355M	40	CP-OFDM	QPSK	1	1	22.0	21.54	0	0.07	1:1	0.048	1.112	0.053	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population												Body 1.6 W/kg (mW/g) averaged over 1 gram										

**Table 11-35  
NR Band 41 Antenna I/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)		
2592.99	518598	Mid	back	15 mm	NR Band n41	I	Open	0433M	100	DFT-S-OFDM	QPSK	1	137	21.5	20.57	0	0.00	1:1	0.174	1.239	0.216	A36
2592.99	518598	Mid	back	15 mm	NR Band n41	I	Open	0433M	100	DFT-S-OFDM	QPSK	135	69	21.5	20.50	0	-0.03	1:1	0.171	1.259	0.215	
2592.99	518598	Mid	back	15 mm	NR Band n41	I	Open	0433M	100	CP-OFDM	QPSK	1	1	21.5	20.39	0	0.03	1:1	0.167	1.291	0.216	
2592.99	518598	Mid	back	15 mm	NR Band n41	I	Closed	0433M	100	DFT-S-OFDM	QPSK	1	137	21.5	20.57	0	-0.05	1:1	0.049	1.239	0.061	
2592.99	518598	Mid	back	15 mm	NR Band n41	I	Closed	0433M	100	DFT-S-OFDM	QPSK	135	69	21.5	20.50	0	-0.04	1:1	0.048	1.259	0.060	
2592.99	518598	Mid	back	15 mm	NR Band n41	I	Closed	0433M	100	CP-OFDM	QPSK	1	1	21.5	20.39	0	-0.09	1:1	0.051	1.291	0.066	
2592.99	518598	Mid	back	15 mm	NR Band n41	B	Open	0433M	100	CW/SRS	N/A	N/A	N/A	21.0	20.27	N/A	-0.04	1:1	0.065	1.183	0.077	
2592.99	518598	Mid	back	15 mm	NR Band n41	B	Closed	0433M	100	CW/SRS	N/A	N/A	N/A	21.0	20.27	N/A	0.05	1:1	0.059	1.183	0.070	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population												Body 1.6 W/kg (mW/g) averaged over 1 gram										

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**Table 11-36  
NR Band 41 Antenna F/C Body-Worn SAR**

MEASUREMENT RESULTS																	
FREQUENCY			Side	Spacing	Mode	Antenna Config	Form Factor	Serial Number	Bandwidth [MHz]	Waveform	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	SAR (1g) (W/kg)	Scaling Factor	Reported SAR (1g) (W/kg)	Plot
MHz	Ch.																
2592.99	518598	Mid	back	15 mm	NR Band n41	F	Open	0433M	100	CW/SRS	6.0	5.22	-0.05	0.042	1.197	0.050	
2592.99	518598	Mid	back	15 mm	NR Band n41	F	Closed	0433M	100	CW/SRS	6.0	5.22	-0.15	0.012	1.197	0.014	
2592.99	518598	Mid	back	15 mm	NR Band n41	C	Open	0433M	100	CW/SRS	11.5	11.01	-0.10	0.019	1.119	0.021	
2592.99	518598	Mid	back	15 mm	NR Band n41	C	Closed	0433M	100	CW/SRS	11.5	11.01	0.07	0.017	1.119	0.019	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population											Body 1.6 W/kg (mW/g) averaged over 1 gram						

**Table 11-37  
NR Band 77 Antenna F/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.																					
3750.00	650000	Low	back	15 mm	NR Band n77	F	Open	0433M	100	DFT-S-OFDM	QPSK	1	271	17.5	17.49	0	0.18	1:1	0.107	1.002	0.107	
3750.00	650000	Low	back	15 mm	NR Band n77	F	Open	0433M	100	DFT-S-OFDM	QPSK	135	138	17.5	17.33	0	-0.02	1:1	0.119	1.040	0.124	
3750.00	650000	Low	back	15 mm	NR Band n77	F	Open	0433M	100	CP-OFDM	QPSK	1	1	17.5	16.77	0	-0.02	1:1	0.162	1.183	0.192	
3500.01	633334	Mid	back	15 mm	NR Band n77 DoD	F	Open	0433M	100	DFT-S-OFDM	QPSK	1	271	17.5	16.51	0	-0.02	1:1	0.207	1.256	0.260	A37
3750.00	650000	Low	back	15 mm	NR Band n77	F	Closed	0433M	100	DFT-S-OFDM	QPSK	1	271	17.5	17.49	0	-0.19	1:1	0.016	1.002	0.016	
3750.00	650000	Low	back	15 mm	NR Band n77	F	Closed	0433M	100	DFT-S-OFDM	QPSK	135	138	17.5	17.33	0	-0.16	1:1	0.021	1.040	0.022	
3750.00	650000	Low	back	15 mm	NR Band n77	F	Closed	0433M	100	CP-OFDM	QPSK	1	1	17.5	16.77	0	-0.14	1:1	0.028	1.183	0.033	
3500.01	633334	Mid	back	15 mm	NR Band n77 DoD	F	Closed	0433M	100	DFT-S-OFDM	QPSK	1	271	17.5	16.51	0	0.12	1:1	0.022	1.256	0.028	
3750.00	650000	Low	back	15 mm	NR Band n77	I	Open	0433M	100	CW/SRS	N/A	NA	NA	15.5	14.28	N/A	0.13	1:1	0.035	1.324	0.046	
3500.01	633334	Mid	back	15 mm	NR Band n77 DoD	I	Open	0433M	100	CW/SRS	N/A	NA	NA	15.5	13.51	N/A	0.01	1:1	0.056	1.581	0.089	
3750.00	650000	Low	back	15 mm	NR Band n77	I	Closed	0433M	100	CW/SRS	N/A	NA	NA	15.5	14.28	N/A	0.17	1:1	0.000	1.324	0.000	
3500.01	633334	Mid	back	15 mm	NR Band n77 DoD	I	Closed	0433M	100	CW/SRS	N/A	NA	NA	15.5	13.51	N/A	-0.13	1:1	0.014	1.581	0.022	
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  
NR Band 77 Antenna E/C Body-Worn SAR**

MEASUREMENT RESULTS																			
FREQUENCY			Side	Spacing	Mode	Antenna Config	Form Factor	Serial Number	Bandwidth [MHz]	Waveform	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.																		
3750.00	650000	Low	back	15 mm	NR Band n77	E	Open	0433M	100	CW/SRS	15.5	15.08	N/A	0.12	1:1	0.016	1.102	0.018	
3500.01	633334	Mid	back	15 mm	NR Band n77 DoD	E	Open	0433M	100	CW/SRS	15.5	15.07	N/A	-0.07	1:1	0.028	1.104	0.031	
3750.00	650000	Low	back	15 mm	NR Band n77	E	Closed	0433M	100	CW/SRS	15.5	15.08	N/A	-0.11	1:1	0.011	1.102	0.012	
3500.01	633334	Mid	back	15 mm	NR Band n77 DoD	E	Closed	0433M	100	CW/SRS	15.5	15.07	N/A	0.17	1:1	0.008	1.104	0.009	
3750.00	650000	Low	back	15 mm	NR Band n77	C	Open	0433M	100	CW/SRS	14.0	13.41	N/A	-0.16	1:1	0.016	1.146	0.018	
3500.01	633334	Mid	back	15 mm	NR Band n77 DoD	C	Open	0433M	100	CW/SRS	14.0	12.34	N/A	0.04	1:1	0.013	1.466	0.019	
3750.00	650000	Low	back	15 mm	NR Band n77	C	Closed	0433M	100	CW/SRS	14.0	13.41	N/A	0.13	1:1	0.010	1.146	0.011	
3500.01	633334	Mid	back	15 mm	NR Band n77 DoD	C	Closed	0433M	100	CW/SRS	14.0	12.34	N/A	0.12	1:1	0.008	1.466	0.012	
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  
DTS SISO Body-Worn SAR**

MEASUREMENT RESULTS																		
FREQUENCY		Side	Spacing	Antenna Config.	Form Factor	Device Serial Number	Bandwidth [MHz]	Data Rate (Mbps)	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Maximum Duty Cycle (%)	Duty Cycle (%)	SAR (1g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot #
MHz	Ch.													(W/kg)			(W/kg)	
2412	1	back	15 mm	2	Open	0227M	22	1	19.0	18.65	-0.10	100.00	98.74	0.036	1.084	1.013	0.040	
2412	1	back	15 mm	2	Closed	0227M	22	1	19.0	18.65	0.07	100.00	98.74	0.018	1.084	1.013	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								

**Table 11-40  
DTS 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]	Maximum Duty Cycle (%)	Duty Cycle (%)	SAR (1g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot #
MHz	Ch.																	(W/kg)			(W/kg)	
2462	11	back	15 mm	802.11b	DSSS	MIMO	Open	0227M	22	1	19.0	18.95	19.0	18.87	-0.06	100.00	98.90	0.096	1.030	1.011	0.100	A38
2462	11	back	15 mm	802.11b	DSSS	MIMO	Closed	0227M	22	1	19.0	18.95	19.0	18.87	-0.16	100.00	98.90	0.042	1.030	1.011	0.044	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population										Body 1.6 W/kg (mW/g) averaged over 1 gram												

Note: To achieve the 22.0 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 19.0 dBm.

**Table 11-41  
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]	Maximum Duty Cycle (%)	Duty Cycle (%)	SAR (1g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot #
MHz	Ch.																	(W/kg)			(W/kg)	
5260	52	back	15 mm	802.11n	OFDM	MIMO	Open	0227M	20	13	16.0	15.72	16.0	15.68	-0.04	100.00	98.11	0.241	1.076	1.019	0.264	A39
5260	52	back	15 mm	802.11n	OFDM	MIMO	Closed	0227M	20	13	16.0	15.72	16.0	15.68	0.02	100.00	98.11	0.027	1.076	1.019	0.030	
5720	144	back	15 mm	802.11n	OFDM	MIMO	Open	0227M	20	13	16.0	15.69	16.0	15.86	-0.10	100.00	98.11	0.182	1.074	1.019	0.199	
5720	144	back	15 mm	802.11n	OFDM	MIMO	Closed	0227M	20	13	16.0	15.69	16.0	15.86	0.09	100.00	98.11	0.037	1.074	1.019	0.040	
5825	165	back	15 mm	802.11n	OFDM	MIMO	Open	0227M	20	13	16.0	15.93	16.0	15.82	-0.04	100.00	98.11	0.125	1.042	1.019	0.133	
5825	165	back	15 mm	802.11n	OFDM	MIMO	Closed	0227M	20	13	16.0	15.93	16.0	15.82	0.05	100.00	98.11	0.043	1.042	1.019	0.046	
5845	169	back	15 mm	802.11n	OFDM	MIMO	Open	0227M	20	13	16.0	15.81	16.0	15.78	0.16	100.00	98.11	0.109	1.052	1.019	0.117	
5845	169	back	15 mm	802.11n	OFDM	MIMO	Closed	0227M	20	13	16.0	15.81	16.0	15.78	0.07	100.00	98.11	0.045	1.052	1.019	0.048	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population										Body 1.6 W/kg (mW/g) averaged over 1 gram												

Note: To achieve the 19.0 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 16.0 dBm.

**Table 11-42  
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]	Maximum Duty Cycle (%)	Duty Cycle (%)	SAR (1g)	Scaling Factor (Cond Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot #
MHz	Ch.														(W/kg)			(W/kg)	
2441	39	back	15 mm	Bluetooth	FHSS	1	Open	0227M	1	16.5	16.40	-0.07	78.00	78.85	0.031	1.023	1.015	0.032	A40
2441	39	back	15 mm	Bluetooth	FHSS	1	Closed	0227M	1	16.5	16.40	-0.14	78.00	76.85	0.013	1.023	1.015	0.013	
2441	39	back	15 mm	Bluetooth	FHSS	2	Open	0227M	1	17.0	16.74	0.04	78.00	76.90	0.023	1.062	1.014	0.025	
2441	39	back	15 mm	Bluetooth	FHSS	2	Closed	0227M	1	17.0	16.74	0.07	78.00	76.90	0.010	1.062	1.014	0.011	
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 11-43  
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	0371M	4	27.0	25.37	0.17	1:2.076	0.215	1.455	0.313	
836.60	190	front	10 mm	GSM 850	GPRS	A	Open	0371M	4	27.0	25.37	-0.18	1:2.076	0.121	1.455	0.176	
836.60	190	bottom	10 mm	GSM 850	GPRS	A	Open	0371M	4	27.0	25.37	0.06	1:2.076	0.064	1.455	0.093	
836.60	190	right	10 mm	GSM 850	GPRS	A	Open	0371M	4	27.0	25.37	0.03	1:2.076	0.128	1.455	0.186	
836.60	190	left	10 mm	GSM 850	GPRS	A	Open	0371M	4	27.0	25.37	-0.09	1:2.076	0.058	1.455	0.084	
824.20	128	back	5 mm	GSM 850	GPRS	A	Closed	0371M	4	27.0	25.16	-0.05	1:2.076	0.494	1.528	0.755	
836.60	190	back	5 mm	GSM 850	GPRS	A	Closed	0371M	4	27.0	25.37	0.03	1:2.076	0.537	1.455	0.781	A41
848.80	251	back	5 mm	GSM 850	GPRS	A	Closed	0371M	4	27.0	25.33	-0.05	1:2.076	0.521	1.469	0.765	
836.60	190	front	5 mm	GSM 850	GPRS	A	Closed	0371M	4	27.0	25.37	0.06	1:2.076	0.086	1.455	0.125	
836.60	190	bottom	5 mm	GSM 850	GPRS	A	Closed	0371M	4	27.0	25.37	0.10	1:2.076	0.101	1.455	0.147	
836.60	190	right	5 mm	GSM 850	GPRS	A	Closed	0371M	4	27.0	25.37	0.19	1:2.076	0.043	1.455	0.063	
836.60	190	left	5 mm	GSM 850	GPRS	A	Closed	0371M	4	27.0	25.37	0.12	1:2.076	0.071	1.455	0.103	
1909.80	810	back	10 mm	GSM 1900	GPRS	A	Open	0354M	4	24.0	22.78	-0.02	1:2.076	0.298	1.324	0.395	
1909.80	810	front	10 mm	GSM 1900	GPRS	A	Open	0354M	4	24.0	22.78	-0.01	1:2.076	0.209	1.324	0.277	
1909.80	810	bottom	10 mm	GSM 1900	GPRS	A	Open	0354M	4	24.0	22.78	-0.03	1:2.076	0.429	1.324	0.568	
1909.80	810	right	10 mm	GSM 1900	GPRS	A	Open	0354M	4	24.0	22.78	0.01	1:2.076	0.017	1.324	0.023	
1909.80	810	left	10 mm	GSM 1900	GPRS	A	Open	0354M	4	24.0	22.78	0.05	1:2.076	0.077	1.324	0.102	
1909.80	810	back	5 mm	GSM 1900	GPRS	A	Closed	0354M	4	24.0	22.78	-0.11	1:2.076	0.364	1.324	0.482	
1909.80	810	front	5 mm	GSM 1900	GPRS	A	Closed	0354M	4	24.0	22.78	-0.10	1:2.076	0.045	1.324	0.060	
1850.20	512	bottom	5 mm	GSM 1900	GPRS	A	Closed	0354M	4	24.0	22.09	0.00	1:2.076	0.373	1.552	0.579	
1880.00	661	bottom	5 mm	GSM 1900	GPRS	A	Closed	0354M	4	24.0	22.22	-0.02	1:2.076	0.460	1.507	0.693	
1909.80	810	bottom	5 mm	GSM 1900	GPRS	A	Closed	0354M	4	24.0	22.78	0.01	1:2.076	0.579	1.324	0.767	A42
1909.80	810	right	5 mm	GSM 1900	GPRS	A	Closed	0354M	4	24.0	22.78	0.00	1:2.076	0.016	1.324	0.021	
1909.80	810	left	5 mm	GSM 1900	GPRS	A	Closed	0354M	4	24.0	22.78	0.01	1:2.076	0.090	1.324	0.119	
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 11-44  
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	0371M	24.0	23.46	0.00	1:1	0.280	1.132	0.317	
836.60	4183	front	10 mm	UMTS 850	RMC	A	Open	0371M	24.0	23.46	0.03	1:1	0.155	1.132	0.175	
836.60	4183	bottom	10 mm	UMTS 850	RMC	A	Open	0371M	24.0	23.46	0.07	1:1	0.071	1.132	0.080	
836.60	4183	right	10 mm	UMTS 850	RMC	A	Open	0371M	24.0	23.46	0.02	1:1	0.147	1.132	0.166	
836.60	4183	left	10 mm	UMTS 850	RMC	A	Open	0371M	24.0	23.46	0.08	1:1	0.065	1.132	0.074	
826.40	4132	back	5 mm	UMTS 850	RMC	A	Closed	0371M	24.0	23.17	-0.06	1:1	0.663	1.211	0.803	
836.60	4183	back	5 mm	UMTS 850	RMC	A	Closed	0371M	24.0	23.46	-0.11	1:1	0.716	1.132	0.811	A43
846.60	4233	back	5 mm	UMTS 850	RMC	A	Closed	0371M	24.0	23.43	-0.04	1:1	0.647	1.140	0.738	
836.60	4183	front	5 mm	UMTS 850	RMC	A	Closed	0371M	24.0	23.46	0.01	1:1	0.165	1.132	0.187	
836.60	4183	bottom	5 mm	UMTS 850	RMC	A	Closed	0371M	24.0	23.46	-0.04	1:1	0.156	1.132	0.177	
836.60	4183	right	5 mm	UMTS 850	RMC	A	Closed	0371M	24.0	23.46	0.03	1:1	0.079	1.132	0.089	
836.60	4183	left	5 mm	UMTS 850	RMC	A	Closed	0371M	24.0	23.46	0.13	1:1	0.112	1.132	0.127	
1712.40	1312	back	10 mm	UMTS 1750	RMC	A	Open	0346M	20.0	19.11	0.00	1:1	0.306	1.227	0.375	
1712.40	1312	front	10 mm	UMTS 1750	RMC	A	Open	0346M	20.0	19.11	0.01	1:1	0.219	1.227	0.269	
1712.40	1312	bottom	10 mm	UMTS 1750	RMC	A	Open	0346M	20.0	19.11	-0.01	1:1	0.404	1.227	0.496	A44
1712.40	1312	right	10 mm	UMTS 1750	RMC	A	Open	0346M	20.0	19.11	-0.10	1:1	0.027	1.227	0.033	
1712.40	1312	left	10 mm	UMTS 1750	RMC	A	Open	0346M	20.0	19.11	-0.03	1:1	0.059	1.227	0.072	
1712.40	1312	back	5 mm	UMTS 1750	RMC	A	Closed	0346M	20.0	19.11	0.03	1:1	0.263	1.227	0.323	
1712.40	1312	front	5 mm	UMTS 1750	RMC	A	Closed	0346M	20.0	19.11	-0.01	1:1	0.102	1.227	0.125	
1712.40	1312	bottom	5 mm	UMTS 1750	RMC	A	Closed	0346M	20.0	19.11	0.01	1:1	0.333	1.227	0.409	
1712.40	1312	right	5 mm	UMTS 1750	RMC	A	Closed	0346M	20.0	19.11	0.00	1:1	0.012	1.227	0.015	
1712.40	1312	left	5 mm	UMTS 1750	RMC	A	Closed	0346M	20.0	19.11	-0.05	1:1	0.055	1.227	0.067	
1880.00	9400	back	10 mm	UMTS 1900	RMC	A	Open	0354M	19.0	17.82	-0.02	1:1	0.192	1.312	0.252	
1880.00	9400	front	10 mm	UMTS 1900	RMC	A	Open	0354M	19.0	17.82	-0.02	1:1	0.149	1.312	0.195	
1880.00	9400	bottom	10 mm	UMTS 1900	RMC	A	Open	0354M	19.0	17.82	0.00	1:1	0.265	1.312	0.348	
1880.00	9400	right	10 mm	UMTS 1900	RMC	A	Open	0354M	19.0	17.82	0.12	1:1	0.012	1.312	0.016	
1880.00	9400	left	10 mm	UMTS 1900	RMC	A	Open	0354M	19.0	17.82	0.01	1:1	0.030	1.312	0.039	
1880.00	9400	back	5 mm	UMTS 1900	RMC	A	Closed	0354M	19.0	17.82	0.01	1:1	0.181	1.312	0.237	
1880.00	9400	front	5 mm	UMTS 1900	RMC	A	Closed	0354M	19.0	17.82	-0.06	1:1	0.086	1.312	0.113	
1880.00	9400	bottom	5 mm	UMTS 1900	RMC	A	Closed	0354M	19.0	17.82	0.04	1:1	0.293	1.312	0.384	A45
1880.00	9400	right	5 mm	UMTS 1900	RMC	A	Closed	0354M	19.0	17.82	-0.10	1:1	0.006	1.312	0.008	
1880.00	9400	left	5 mm	UMTS 1900	RMC	A	Closed	0354M	19.0	17.82	0.03	1:1	0.022	1.312	0.029	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population									Body 1.6 W/kg (mW/g) averaged over 1 gram							

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**Table 11-45  
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	0381M	10	QPSK	1	25	24.0	22.56	0	0.01	1:1	0.196	1.393	0.273	
707.50	23095	Mid	back	10 mm	LTE Band 12	A	Open	0381M	10	QPSK	25	25	24.0	22.59	0	0.03	1:1	0.190	1.384	0.263	
707.50	23095	Mid	front	10 mm	LTE Band 12	A	Open	0381M	10	QPSK	1	25	24.0	22.56	0	0.06	1:1	0.218	1.393	0.304	
707.50	23095	Mid	front	10 mm	LTE Band 12	A	Open	0381M	10	QPSK	25	25	24.0	22.59	0	0.03	1:1	0.209	1.384	0.289	
707.50	23095	Mid	bottom	10 mm	LTE Band 12	A	Open	0381M	10	QPSK	1	25	24.0	22.56	0	0.04	1:1	0.026	1.393	0.036	
707.50	23095	Mid	bottom	10 mm	LTE Band 12	A	Open	0381M	10	QPSK	25	25	24.0	22.59	0	-0.03	1:1	0.029	1.384	0.040	
707.50	23095	Mid	right	10 mm	LTE Band 12	A	Open	0381M	10	QPSK	1	25	24.0	22.56	0	0.00	1:1	0.251	1.393	0.350	
707.50	23095	Mid	right	10 mm	LTE Band 12	A	Open	0381M	10	QPSK	25	25	24.0	22.59	0	0.00	1:1	0.241	1.384	0.334	
707.50	23095	Mid	left	10 mm	LTE Band 12	A	Open	0381M	10	QPSK	1	25	24.0	22.56	0	0.01	1:1	0.280	1.393	0.390	
707.50	23095	Mid	left	10 mm	LTE Band 12	A	Open	0381M	10	QPSK	25	25	24.0	22.59	0	0.03	1:1	0.264	1.384	0.365	
707.50	23095	Mid	back	5 mm	LTE Band 12	A	Closed	0381M	10	QPSK	1	25	24.0	22.56	0	0.02	1:1	0.468	1.393	0.652	A46
707.50	23095	Mid	back	5 mm	LTE Band 12	A	Closed	0381M	10	QPSK	25	25	24.0	22.59	0	0.02	1:1	0.451	1.384	0.624	
707.50	23095	Mid	front	5 mm	LTE Band 12	A	Closed	0381M	10	QPSK	1	25	24.0	22.56	0	0.15	1:1	0.052	1.393	0.072	
707.50	23095	Mid	front	5 mm	LTE Band 12	A	Closed	0381M	10	QPSK	25	25	24.0	22.59	0	0.15	1:1	0.047	1.384	0.065	
707.50	23095	Mid	bottom	5 mm	LTE Band 12	A	Closed	0381M	10	QPSK	1	25	24.0	22.56	0	0.13	1:1	0.082	1.393	0.114	
707.50	23095	Mid	bottom	5 mm	LTE Band 12	A	Closed	0381M	10	QPSK	25	25	24.0	22.59	0	0.04	1:1	0.082	1.384	0.113	
707.50	23095	Mid	right	5 mm	LTE Band 12	A	Closed	0381M	10	QPSK	1	25	24.0	22.56	0	0.14	1:1	0.038	1.393	0.053	
707.50	23095	Mid	right	5 mm	LTE Band 12	A	Closed	0381M	10	QPSK	25	25	24.0	22.59	0	0.12	1:1	0.036	1.384	0.050	
707.50	23095	Mid	left	5 mm	LTE Band 12	A	Closed	0381M	10	QPSK	1	25	24.0	22.56	0	0.12	1:1	0.075	1.393	0.104	
707.50	23095	Mid	left	5 mm	LTE Band 12	A	Closed	0381M	10	QPSK	25	25	24.0	22.59	0	0.10	1:1	0.071	1.384	0.098	
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 11-46  
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)	Reported SAR (1g)	Plot #		
MHz	Ch.																(W/kg)	(W/kg)			
782.00	23230	Mid	back	10 mm	LTE Band 13	A	Open	0381M	10	QPSK	1	0	24.0	22.64	0	0.01	1:1	0.275	1.368	0.376	
782.00	23230	Mid	back	10 mm	LTE Band 13	A	Open	0381M	10	QPSK	25	0	24.0	22.62	0	0.00	1:1	0.275	1.374	0.378	
782.00	23230	Mid	front	10 mm	LTE Band 13	A	Open	0381M	10	QPSK	1	0	24.0	22.64	0	-0.02	1:1	0.192	1.368	0.263	
782.00	23230	Mid	front	10 mm	LTE Band 13	A	Open	0381M	10	QPSK	25	0	24.0	22.62	0	0.01	1:1	0.192	1.374	0.264	
782.00	23230	Mid	bottom	10 mm	LTE Band 13	A	Open	0381M	10	QPSK	1	0	24.0	22.64	0	-0.06	1:1	0.080	1.368	0.109	
782.00	23230	Mid	bottom	10 mm	LTE Band 13	A	Open	0381M	10	QPSK	25	0	24.0	22.62	0	-0.07	1:1	0.084	1.374	0.115	
782.00	23230	Mid	right	10 mm	LTE Band 13	A	Open	0381M	10	QPSK	1	0	24.0	22.64	0	0.06	1:1	0.202	1.368	0.276	
782.00	23230	Mid	right	10 mm	LTE Band 13	A	Open	0381M	10	QPSK	25	0	24.0	22.62	0	-0.01	1:1	0.202	1.374	0.278	
782.00	23230	Mid	left	10 mm	LTE Band 13	A	Open	0381M	10	QPSK	1	0	24.0	22.64	0	0.03	1:1	0.139	1.368	0.190	
782.00	23230	Mid	left	10 mm	LTE Band 13	A	Open	0381M	10	QPSK	25	0	24.0	22.62	0	-0.02	1:1	0.136	1.374	0.187	
782.00	23230	Mid	back	5 mm	LTE Band 13	A	Closed	0381M	10	QPSK	1	0	24.0	22.64	0	0.03	1:1	0.765	1.368	1.047	A47
782.00	23230	Mid	back	5 mm	LTE Band 13	A	Closed	0381M	10	QPSK	25	0	24.0	22.62	0	0.01	1:1	0.765	1.374	1.051	
782.00	23230	Mid	back	5 mm	LTE Band 13	A	Closed	0381M	10	QPSK	50	0	24.0	22.61	0	-0.01	1:1	0.753	1.377	1.037	
782.00	23230	Mid	front	5 mm	LTE Band 13	A	Closed	0381M	10	QPSK	1	0	24.0	22.64	0	-0.03	1:1	0.217	1.368	0.297	
782.00	23230	Mid	front	5 mm	LTE Band 13	A	Closed	0381M	10	QPSK	25	0	24.0	22.62	0	0.05	1:1	0.218	1.374	0.300	
782.00	23230	Mid	bottom	5 mm	LTE Band 13	A	Closed	0381M	10	QPSK	1	0	24.0	22.64	0	0.07	1:1	0.159	1.368	0.218	
782.00	23230	Mid	bottom	5 mm	LTE Band 13	A	Closed	0381M	10	QPSK	25	0	24.0	22.62	0	0.01	1:1	0.153	1.374	0.210	
782.00	23230	Mid	right	5 mm	LTE Band 13	A	Closed	0381M	10	QPSK	1	0	24.0	22.64	0	0.05	1:1	0.095	1.368	0.130	
782.00	23230	Mid	right	5 mm	LTE Band 13	A	Closed	0381M	10	QPSK	25	0	24.0	22.62	0	0.14	1:1	0.088	1.374	0.121	
782.00	23230	Mid	left	5 mm	LTE Band 13	A	Closed	0381M	10	QPSK	1	0	24.0	22.64	0	0.14	1:1	0.115	1.368	0.157	
782.00	23230	Mid	left	5 mm	LTE Band 13	A	Closed	0381M	10	QPSK	25	0	24.0	22.62	0	0.16	1:1	0.112	1.374	0.154	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population										Body 1.6 W/kg (mW/g) averaged over 1 gram											

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**Table 11-47  
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) (W/kg)	Scaling Factor	Reported SAR (1g) (W/kg)	Reported SAR (1g) with Multi-Tx Factor Limit: 1.6 (W/kg)	Plot #	
MHz	Ch.																					
831.50	26865	Mid	back	10 mm	LTE Band 26 (Cell)	A	Open	0371M	15	QPSK	1	36	25.0	23.72	0	-0.01	1:1	0.284	1.343	0.381	0.381	
831.50	26865	Mid	back	10 mm	LTE Band 26 (Cell)	A	Open	0371M	15	QPSK	36	37	25.0	23.77	0	0.03	1:1	0.298	1.327	0.395	0.395	
831.50	26865	Mid	front	10 mm	LTE Band 26 (Cell)	A	Open	0371M	15	QPSK	1	36	25.0	23.72	0	0.02	1:1	0.181	1.343	0.243	0.243	
831.50	26865	Mid	front	10 mm	LTE Band 26 (Cell)	A	Open	0371M	15	QPSK	36	37	25.0	23.77	0	-0.01	1:1	0.187	1.327	0.248	0.248	
831.50	26865	Mid	bottom	10 mm	LTE Band 26 (Cell)	A	Open	0371M	15	QPSK	1	36	25.0	23.72	0	0.05	1:1	0.079	1.343	0.106	0.106	
831.50	26865	Mid	bottom	10 mm	LTE Band 26 (Cell)	A	Open	0371M	15	QPSK	36	37	25.0	23.77	0	-0.03	1:1	0.080	1.327	0.106	0.106	
831.50	26865	Mid	right	10 mm	LTE Band 26 (Cell)	A	Open	0371M	15	QPSK	1	36	25.0	23.72	0	-0.01	1:1	0.157	1.343	0.211	0.211	
831.50	26865	Mid	right	10 mm	LTE Band 26 (Cell)	A	Open	0371M	15	QPSK	36	37	25.0	23.77	0	0.00	1:1	0.166	1.327	0.220	0.220	
831.50	26865	Mid	left	10 mm	LTE Band 26 (Cell)	A	Open	0371M	15	QPSK	1	36	25.0	23.72	0	0.03	1:1	0.075	1.343	0.101	0.101	
831.50	26865	Mid	left	10 mm	LTE Band 26 (Cell)	A	Open	0371M	15	QPSK	36	37	25.0	23.77	0	0.03	1:1	0.083	1.327	0.110	0.110	
831.50	26865	Mid	back	5 mm	LTE Band 26 (Cell)	A	Closed	0371M	15	QPSK	1	36	25.0	23.72	0	-0.03	1:1	0.681	1.343	0.915	0.915	
831.50	26865	Mid	back	5 mm	LTE Band 26 (Cell)	A	Closed	0371M	15	QPSK	36	37	25.0	23.77	0	0.05	1:1	0.717	1.327	0.951	0.951	A48
831.50	26865	Mid	back	5 mm	LTE Band 26 (Cell)	A	Closed	0371M	15	QPSK	75	0	25.0	23.69	0	-0.03	1:1	0.699	1.352	0.945	0.945	
831.50	26865	Mid	front	5 mm	LTE Band 26 (Cell)	A	Closed	0371M	15	QPSK	1	36	25.0	23.72	0	0.09	1:1	0.081	1.343	0.109	0.109	
831.50	26865	Mid	front	5 mm	LTE Band 26 (Cell)	A	Closed	0371M	15	QPSK	36	37	25.0	23.77	0	0.09	1:1	0.086	1.327	0.114	0.114	
831.50	26865	Mid	bottom	5 mm	LTE Band 26 (Cell)	A	Closed	0371M	15	QPSK	1	36	25.0	23.72	0	0.00	1:1	0.145	1.343	0.195	0.195	
831.50	26865	Mid	bottom	5 mm	LTE Band 26 (Cell)	A	Closed	0371M	15	QPSK	36	37	25.0	23.77	0	0.01	1:1	0.151	1.327	0.200	0.200	
831.50	26865	Mid	right	5 mm	LTE Band 26 (Cell)	A	Closed	0371M	15	QPSK	1	36	25.0	23.72	0	0.04	1:1	0.083	1.343	0.111	0.111	
831.50	26865	Mid	right	5 mm	LTE Band 26 (Cell)	A	Closed	0371M	15	QPSK	36	37	25.0	23.77	0	-0.13	1:1	0.076	1.327	0.101	0.101	
831.50	26865	Mid	left	5 mm	LTE Band 26 (Cell)	A	Closed	0371M	15	QPSK	1	36	25.0	23.72	0	0.00	1:1	0.108	1.343	0.145	0.145	
831.50	26865	Mid	left	5 mm	LTE Band 26 (Cell)	A	Closed	0371M	15	QPSK	36	37	25.0	23.77	0	0.13	1:1	0.111	1.327	0.147	0.147	
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 11-48**  
**LTE Band 66 Antenna A (AWS) 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)		
1770.00	132572	High	back	10 mm	LTE Band 66 (AWS)	A	Open	0354M	20	QPSK	1	99	20.5	19.37	0	-0.02	1:1	0.336	1.297	0.436	
1770.00	132572	High	back	10 mm	LTE Band 66 (AWS)	A	Open	0354M	20	QPSK	50	25	20.5	19.44	0	0.01	1:1	0.339	1.276	0.433	
1770.00	132572	High	front	10 mm	LTE Band 66 (AWS)	A	Open	0354M	20	QPSK	1	99	20.5	19.37	0	0.02	1:1	0.224	1.297	0.291	
1770.00	132572	High	front	10 mm	LTE Band 66 (AWS)	A	Open	0354M	20	QPSK	50	25	20.5	19.44	0	0.00	1:1	0.227	1.276	0.290	
1720.00	132072	Low	bottom	10 mm	LTE Band 66 (AWS)	A	Open	1625M	20	QPSK	1	0	20.5	19.33	0	0.01	1:1	0.449	1.309	0.588	
1745.00	132322	Md	bottom	10 mm	LTE Band 66 (AWS)	A	Open	1625M	20	QPSK	1	0	20.5	19.09	0	0.05	1:1	0.531	1.384	0.735	
1770.00	132572	High	bottom	10 mm	LTE Band 66 (AWS)	A	Open	1625M	20	QPSK	1	99	20.5	19.37	0	-0.05	1:1	0.575	1.297	0.746	
1770.00	132572	High	bottom	10 mm	LTE Band 66 (AWS)	A	Open	1625M	20	QPSK	50	25	20.5	19.44	0	0.02	1:1	0.573	1.276	0.731	
1770.00	132572	High	right	10 mm	LTE Band 66 (AWS)	A	Open	0354M	20	QPSK	1	99	20.5	19.37	0	0.01	1:1	0.024	1.297	0.031	
1770.00	132572	High	right	10 mm	LTE Band 66 (AWS)	A	Open	0354M	20	QPSK	50	25	20.5	19.44	0	0.00	1:1	0.023	1.276	0.029	
1770.00	132572	High	left	10 mm	LTE Band 66 (AWS)	A	Open	0354M	20	QPSK	1	99	20.5	19.37	0	0.07	1:1	0.041	1.297	0.053	
1770.00	132572	High	left	10 mm	LTE Band 66 (AWS)	A	Open	0354M	20	QPSK	50	25	20.5	19.44	0	-0.02	1:1	0.043	1.276	0.055	
1770.00	132572	High	back	5 mm	LTE Band 66 (AWS)	A	Closed	0354M	20	QPSK	1	99	20.5	19.37	0	0.05	1:1	0.494	1.297	0.641	
1770.00	132572	High	back	5 mm	LTE Band 66 (AWS)	A	Closed	0354M	20	QPSK	50	25	20.5	19.44	0	0.03	1:1	0.499	1.276	0.637	
1770.00	132572	High	front	5 mm	LTE Band 66 (AWS)	A	Closed	0354M	20	QPSK	1	99	20.5	19.37	0	0.04	1:1	0.047	1.297	0.061	
1770.00	132572	High	front	5 mm	LTE Band 66 (AWS)	A	Closed	0354M	20	QPSK	50	25	20.5	19.44	0	0.06	1:1	0.038	1.276	0.048	
1720.00	132072	Low	bottom	5 mm	LTE Band 66 (AWS)	A	Closed	0354M	20	QPSK	1	0	20.5	19.33	0	-0.01	1:1	0.510	1.309	0.668	
1745.00	132322	Md	bottom	5 mm	LTE Band 66 (AWS)	A	Closed	0354M	20	QPSK	1	0	20.5	19.09	0	0.04	1:1	0.471	1.384	0.652	
1770.00	132572	High	bottom	5 mm	LTE Band 66 (AWS)	A	Closed	0354M	20	QPSK	1	99	20.5	19.37	0	-0.02	1:1	0.593	1.297	0.769	A49
1770.00	132572	High	bottom	5 mm	LTE Band 66 (AWS)	A	Closed	0354M	20	QPSK	50	25	20.5	19.44	0	0.01	1:1	0.590	1.276	0.753	
1770.00	132572	High	right	5 mm	LTE Band 66 (AWS)	A	Closed	0354M	20	QPSK	1	99	20.5	19.37	0	0.13	1:1	0.018	1.297	0.023	
1770.00	132572	High	right	5 mm	LTE Band 66 (AWS)	A	Closed	0354M	20	QPSK	50	25	20.5	19.44	0	0.03	1:1	0.019	1.276	0.024	
1770.00	132572	High	left	5 mm	LTE Band 66 (AWS)	A	Closed	0354M	20	QPSK	1	99	20.5	19.37	0	0.00	1:1	0.084	1.297	0.109	
1770.00	132572	High	left	5 mm	LTE Band 66 (AWS)	A	Closed	0354M	20	QPSK	50	25	20.5	19.44	0	-0.02	1:1	0.082	1.276	0.105	
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 11-49  
LTE Band 66 Antenna I (AWS) 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 Drip [dB]	Duty Cycle	SAR (1g)	Scaling Factor	Reported SAR (1g)	Plot #	
MHz	Ch.																(W/kg)		(W/kg)		
1720.00	132072	Low	back	10 mm	LTE Band 66 (AWS)	I	Open	0317M	20	QPSK	1	0	18.5	17.25	0	0.04	1:1	0.117	1.334	0.156	
1720.00	132072	Low	back	10 mm	LTE Band 66 (AWS)	I	Open	0317M	20	QPSK	50	0	18.5	17.21	0	0.02	1:1	0.117	1.346	0.157	
1720.00	132072	Low	front	10 mm	LTE Band 66 (AWS)	I	Open	0317M	20	QPSK	1	0	18.5	17.25	0	-0.04	1:1	0.136	1.334	0.181	
1720.00	132072	Low	front	10 mm	LTE Band 66 (AWS)	I	Open	0317M	20	QPSK	50	0	18.5	17.21	0	-0.01	1:1	0.136	1.346	0.183	
1720.00	132072	Low	top	10 mm	LTE Band 66 (AWS)	I	Open	0317M	20	QPSK	1	0	18.5	17.25	0	-0.03	1:1	0.020	1.334	0.027	
1720.00	132072	Low	top	10 mm	LTE Band 66 (AWS)	I	Open	0317M	20	QPSK	50	0	18.5	17.21	0	0.04	1:1	0.021	1.346	0.028	
1720.00	132072	Low	right	10 mm	LTE Band 66 (AWS)	I	Open	0317M	20	QPSK	1	0	18.5	17.25	0	-0.04	1:1	0.201	1.334	0.268	
1720.00	132072	Low	right	10 mm	LTE Band 66 (AWS)	I	Open	0317M	20	QPSK	50	0	18.5	17.21	0	-0.01	1:1	0.198	1.346	0.267	
1720.00	132072	Low	back	5 mm	LTE Band 66 (AWS)	I	Closed	0317M	20	QPSK	1	0	18.5	17.25	0	-0.09	1:1	0.029	1.334	0.039	
1720.00	132072	Low	back	5 mm	LTE Band 66 (AWS)	I	Closed	0317M	20	QPSK	50	0	18.5	17.21	0	-0.05	1:1	0.028	1.346	0.038	
1720.00	132072	Low	front	5 mm	LTE Band 66 (AWS)	I	Closed	0317M	20	QPSK	1	0	18.5	17.25	0	-0.10	1:1	0.192	1.334	0.256	
1720.00	132072	Low	front	5 mm	LTE Band 66 (AWS)	I	Closed	0317M	20	QPSK	50	0	18.5	17.21	0	0.01	1:1	0.183	1.346	0.246	
1720.00	132072	Low	top	5 mm	LTE Band 66 (AWS)	I	Closed	0317M	20	QPSK	1	0	18.5	17.25	0	0.00	1:1	0.010	1.334	0.013	
1720.00	132072	Low	top	5 mm	LTE Band 66 (AWS)	I	Closed	0317M	20	QPSK	50	0	18.5	17.21	0	-0.20	1:1	0.011	1.346	0.015	
1720.00	132072	Low	bottom	5 mm	LTE Band 66 (AWS)	I	Closed	0317M	20	QPSK	1	0	18.5	17.25	0	-0.15	1:1	0.028	1.334	0.037	
1720.00	132072	Low	bottom	5 mm	LTE Band 66 (AWS)	I	Closed	0317M	20	QPSK	50	0	18.5	17.21	0	-0.01	1:1	0.028	1.346	0.038	
1720.00	132072	Low	right	5 mm	LTE Band 66 (AWS)	I	Closed	0317M	20	QPSK	1	0	18.5	17.25	0	0.01	1:1	0.311	1.334	0.415	
1720.00	132072	Low	right	5 mm	LTE Band 66 (AWS)	I	Closed	0317M	20	QPSK	50	0	18.5	17.21	0	-0.02	1:1	0.307	1.346	0.413	
<b>ANSI / IEEE C95.1 1992 - SAFETY LIMIT</b>										<b>Body</b>											
<b>Spatial Peak</b>										<b>1.6 W/kg (mW/g)</b>											
<b>Uncontrolled Exposure/General Population</b>										<b>averaged over 1 gram</b>											

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**Table 11-50  
LTE Band 25 Antenna A (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	0354M	20	QPSK	1	99	19.5	18.51	0	0.01	1:1	0.281	1.256	0.353	
1905.00	26590	High	back	10 mm	LTE Band 25 (PCS)	A	Open	0354M	20	QPSK	50	50	19.5	18.55	0	0.00	1:1	0.278	1.245	0.346	
1905.00	26590	High	front	10 mm	LTE Band 25 (PCS)	A	Open	0354M	20	QPSK	1	99	19.5	18.51	0	-0.04	1:1	0.196	1.256	0.246	
1905.00	26590	High	front	10 mm	LTE Band 25 (PCS)	A	Open	0354M	20	QPSK	50	50	19.5	18.55	0	0.01	1:1	0.195	1.245	0.243	
1905.00	26590	High	bottom	10 mm	LTE Band 25 (PCS)	A	Open	0354M	20	QPSK	1	99	19.5	18.51	0	0.01	1:1	0.425	1.256	0.534	
1905.00	26590	High	bottom	10 mm	LTE Band 25 (PCS)	A	Open	0354M	20	QPSK	50	50	19.5	18.55	0	-0.01	1:1	0.415	1.245	0.517	
1905.00	26590	High	right	10 mm	LTE Band 25 (PCS)	A	Open	0354M	20	QPSK	1	99	19.5	18.51	0	-0.04	1:1	0.017	1.256	0.021	
1905.00	26590	High	right	10 mm	LTE Band 25 (PCS)	A	Open	0354M	20	QPSK	50	50	19.5	18.55	0	-0.20	1:1	0.018	1.245	0.022	
1905.00	26590	High	left	10 mm	LTE Band 25 (PCS)	A	Open	0354M	20	QPSK	1	99	19.5	18.51	0	0.09	1:1	0.044	1.256	0.055	
1905.00	26590	High	left	10 mm	LTE Band 25 (PCS)	A	Open	0354M	20	QPSK	50	50	19.5	18.55	0	0.04	1:1	0.044	1.245	0.055	
1905.00	26590	High	back	5 mm	LTE Band 25 (PCS)	A	Closed	0354M	20	QPSK	1	99	19.5	18.51	0	0.03	1:1	0.508	1.256	0.638	
1905.00	26590	High	back	5 mm	LTE Band 25 (PCS)	A	Closed	0354M	20	QPSK	50	50	19.5	18.55	0	0.03	1:1	0.487	1.245	0.606	
1905.00	26590	High	front	5 mm	LTE Band 25 (PCS)	A	Closed	0354M	20	QPSK	1	99	19.5	18.51	0	-0.17	1:1	0.069	1.256	0.087	
1905.00	26590	High	front	5 mm	LTE Band 25 (PCS)	A	Closed	0354M	20	QPSK	50	50	19.5	18.55	0	0.05	1:1	0.065	1.245	0.081	
1860.00	26140	Low	bottom	5 mm	LTE Band 25 (PCS)	A	Closed	0354M	20	QPSK	1	50	19.5	18.11	0	0.00	1:1	0.456	1.377	0.628	
1882.50	26365	Mid	bottom	5 mm	LTE Band 25 (PCS)	A	Closed	0354M	20	QPSK	1	99	19.5	17.97	0	0.03	1:1	0.573	1.422	0.815	
1905.00	26590	High	bottom	5 mm	LTE Band 25 (PCS)	A	Closed	0354M	20	QPSK	1	99	19.5	18.51	0	0.05	1:1	0.770	1.256	0.967	A50
1860.00	26140	Low	bottom	5 mm	LTE Band 25 (PCS)	A	Closed	0354M	20	QPSK	50	25	19.5	18.21	0	0.01	1:1	0.462	1.346	0.622	
1882.50	26365	Mid	bottom	5 mm	LTE Band 25 (PCS)	A	Closed	0354M	20	QPSK	50	50	19.5	18.13	0	-0.01	1:1	0.556	1.371	0.762	
1905.00	26590	High	bottom	5 mm	LTE Band 25 (PCS)	A	Closed	0354M	20	QPSK	50	50	19.5	18.55	0	-0.02	1:1	0.761	1.245	0.947	
1905.00	26590	High	bottom	5 mm	LTE Band 25 (PCS)	A	Closed	0354M	20	QPSK	100	0	19.5	18.50	0	-0.02	1:1	0.726	1.259	0.914	
1905.00	26590	High	right	5 mm	LTE Band 25 (PCS)	A	Closed	0354M	20	QPSK	1	99	19.5	18.51	0	0.01	1:1	0.019	1.256	0.024	
1905.00	26590	High	right	5 mm	LTE Band 25 (PCS)	A	Closed	0354M	20	QPSK	50	50	19.5	18.55	0	0.02	1:1	0.017	1.245	0.021	
1905.00	26590	High	left	5 mm	LTE Band 25 (PCS)	A	Closed	0354M	20	QPSK	1	99	19.5	18.51	0	0.07	1:1	0.078	1.256	0.098	
1905.00	26590	High	left	5 mm	LTE Band 25 (PCS)	A	Closed	0354M	20	QPSK	50	50	19.5	18.55	0	0.00	1:1	0.074	1.245	0.092	
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 11-51  
LTE Band 25 Antenna I (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)	I	Open	0433M	20	QPSK	1	99	16.5	15.16	0	0.01	1:1	0.161	1.361	0.219	
1905.00	26590	High	back	10 mm	LTE Band 25 (PCS)	I	Open	0433M	20	QPSK	50	50	16.5	15.07	0	0.04	1:1	0.160	1.390	0.222	
1905.00	26590	High	front	10 mm	LTE Band 25 (PCS)	I	Open	0433M	20	QPSK	1	99	16.5	15.16	0	-0.01	1:1	0.141	1.361	0.192	
1905.00	26590	High	front	10 mm	LTE Band 25 (PCS)	I	Open	0433M	20	QPSK	50	50	16.5	15.07	0	0.01	1:1	0.141	1.390	0.196	
1905.00	26590	High	top	10 mm	LTE Band 25 (PCS)	I	Open	0433M	20	QPSK	1	99	16.5	15.16	0	0.04	1:1	0.037	1.361	0.050	
1905.00	26590	High	top	10 mm	LTE Band 25 (PCS)	I	Open	0433M	20	QPSK	50	50	16.5	15.07	0	0.15	1:1	0.034	1.390	0.047	
1860.00	26140	Low	right	10 mm	LTE Band 25 (PCS)	I	Open	0433M	20	QPSK	1	99	16.5	14.71	0	0.00	1:1	0.373	1.510	0.563	
1882.50	26365	Mid	right	10 mm	LTE Band 25 (PCS)	I	Open	0433M	20	QPSK	1	99	16.5	14.58	0	-0.03	1:1	0.396	1.556	0.616	
1905.00	26590	High	right	10 mm	LTE Band 25 (PCS)	I	Open	0433M	20	QPSK	1	99	16.5	15.16	0	0.00	1:1	0.463	1.361	0.630	
1860.00	26140	Low	right	10 mm	LTE Band 25 (PCS)	I	Open	0433M	20	QPSK	50	50	16.5	14.57	0	0.02	1:1	0.373	1.560	0.582	
1882.50	26365	Mid	right	10 mm	LTE Band 25 (PCS)	I	Open	0433M	20	QPSK	50	0	16.5	14.69	0	0.00	1:1	0.392	1.517	0.595	
1905.00	26590	High	right	10 mm	LTE Band 25 (PCS)	I	Open	0433M	20	QPSK	50	50	16.5	15.07	0	-0.01	1:1	0.455	1.390	0.632	
1905.00	26590	High	back	5 mm	LTE Band 25 (PCS)	I	Closed	0433M	20	QPSK	1	99	16.5	15.16	0	0.00	1:1	0.024	1.361	0.033	
1905.00	26590	High	back	5 mm	LTE Band 25 (PCS)	I	Closed	0433M	20	QPSK	50	50	16.5	15.07	0	0.09	1:1	0.023	1.390	0.032	
1905.00	26590	High	front	5 mm	LTE Band 25 (PCS)	I	Closed	0433M	20	QPSK	1	99	16.5	15.16	0	-0.05	1:1	0.377	1.361	0.513	
1905.00	26590	High	front	5 mm	LTE Band 25 (PCS)	I	Closed	0433M	20	QPSK	50	50	16.5	15.07	0	-0.02	1:1	0.373	1.390	0.518	
1905.00	26590	High	top	5 mm	LTE Band 25 (PCS)	I	Closed	0433M	20	QPSK	1	99	16.5	15.16	0	-0.15	1:1	0.015	1.361	0.020	
1905.00	26590	High	top	5 mm	LTE Band 25 (PCS)	I	Closed	0433M	20	QPSK	50	50	16.5	15.07	0	0.09	1:1	0.015	1.390	0.021	
1905.00	26590	High	bottom	5 mm	LTE Band 25 (PCS)	I	Closed	0433M	20	QPSK	1	99	16.5	15.16	0	-0.19	1:1	0.028	1.361	0.038	
1905.00	26590	High	bottom	5 mm	LTE Band 25 (PCS)	I	Closed	0433M	20	QPSK	50	50	16.5	15.07	0	-0.17	1:1	0.032	1.390	0.044	
1860.00	26140	Low	right	5 mm	LTE Band 25 (PCS)	I	Closed	0433M	20	QPSK	1	99	16.5	14.71	0	-0.03	1:1	0.443	1.510	0.669	
1882.50	26365	Mid	right	5 mm	LTE Band 25 (PCS)	I	Closed	0433M	20	QPSK	1	99	16.5	14.58	0	0.01	1:1	0.518	1.556	0.806	
1905.00	26590	High	right	5 mm	LTE Band 25 (PCS)	I	Closed	0433M	20	QPSK	1	99	16.5	15.16	0	0.12	1:1	0.621	1.361	0.845	
1860.00	26140	Low	right	5 mm	LTE Band 25 (PCS)	I	Closed	0433M	20	QPSK	50	50	16.5	14.57	0	-0.03	1:1	0.451	1.560	0.704	
1882.50	26365	Mid	right	5 mm	LTE Band 25 (PCS)	I	Closed	0433M	20	QPSK	50	0	16.5	14.69	0	-0.02	1:1	0.486	1.517	0.737	
1905.00	26590	High	right	5 mm	LTE Band 25 (PCS)	I	Closed	0433M	20	QPSK	50	50	16.5	15.07	0	0.12	1:1	0.631	1.390	0.877	
1905.00	26590	High	right	5 mm	LTE Band 25 (PCS)	I	Closed	0433M	20	QPSK	100	0	16.5	14.97	0	-0.02	1:1	0.610	1.422	0.867	
<b>ANSI / IEEE C95.1 1992 - SAFETY LIMIT</b>												<b>Body</b>									
<b>Spatial Peak</b>												<b>1.6 W/kg (mW/g)</b>									
<b>Uncontrolled Exposure/General Population</b>												<b>averaged over 1 gram</b>									

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**Table 11-52  
LTE Band 41 Antenna B Hotspot SAR**

MEASUREMENT RESULTS																						
Power Class	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)		
Power Class 3	2636.50	41055	Mid-High	back	10 mm	LTE Band 41	B	Open	0172M	20	QPSK	1	0	22.0	20.78	0	-0.08	1:1.58	0.092	1.324	0.122	
Power Class 3	2636.50	41055	Mid-High	back	10 mm	LTE Band 41	B	Open	0172M	20	QPSK	50	25	22.0	20.82	0	0.01	1:1.58	0.093	1.312	0.122	
Power Class 3	2636.50	41055	Mid-High	front	10 mm	LTE Band 41	B	Open	0172M	20	QPSK	1	0	22.0	20.78	0	0.06	1:1.58	0.076	1.324	0.101	
Power Class 3	2636.50	41055	Mid-High	front	10 mm	LTE Band 41	B	Open	0172M	20	QPSK	50	25	22.0	20.82	0	-0.01	1:1.58	0.075	1.312	0.098	
Power Class 3	2636.50	41055	Mid-High	bottom	10 mm	LTE Band 41	B	Open	0172M	20	QPSK	1	0	22.0	20.78	0	0.13	1:1.58	0.169	1.324	0.224	
Power Class 3	2636.50	41055	Mid-High	bottom	10 mm	LTE Band 41	B	Open	0172M	20	QPSK	50	25	22.0	20.82	0	-0.01	1:1.58	0.175	1.312	0.230	
Power Class 3	2636.50	41055	Mid-High	left	10 mm	LTE Band 41	B	Open	0172M	20	QPSK	1	0	22.0	20.78	0	-0.07	1:1.58	0.101	1.324	0.134	
Power Class 3	2636.50	41055	Mid-High	left	10 mm	LTE Band 41	B	Open	0172M	20	QPSK	50	25	22.0	20.82	0	0.03	1:1.58	0.103	1.312	0.135	
Power Class 3	2636.50	41055	Mid-High	back	5 mm	LTE Band 41	B	Closed	0172M	20	QPSK	1	0	22.0	20.78	0	-0.01	1:1.58	0.245	1.324	0.324	
Power Class 3	2636.50	41055	Mid-High	back	5 mm	LTE Band 41	B	Closed	0172M	20	QPSK	50	25	22.0	20.82	0	0.05	1:1.58	0.249	1.312	0.327	
Power Class 3	2636.50	41055	Mid-High	front	5 mm	LTE Band 41	B	Closed	0172M	20	QPSK	1	0	22.0	20.78	0	-0.05	1:1.58	0.021	1.324	0.028	
Power Class 3	2636.50	41055	Mid-High	front	5 mm	LTE Band 41	B	Closed	0172M	20	QPSK	50	25	22.0	20.82	0	0.15	1:1.58	0.018	1.312	0.024	
Power Class 3	2636.50	41055	Mid-High	bottom	5 mm	LTE Band 41	B	Closed	0172M	20	QPSK	1	0	22.0	20.78	0	0.03	1:1.58	0.285	1.324	0.377	
Power Class 3	2636.50	41055	Mid-High	bottom	5 mm	LTE Band 41	B	Closed	0172M	20	QPSK	50	25	22.0	20.82	0	0.01	1:1.58	0.294	1.312	0.386	
Power Class 2	2636.50	41055	Mid-High	bottom	5 mm	LTE Band 41	B	Closed	0172M	20	QPSK	50	25	23.6	22.48	0	0.00	1:2.31	0.304	1.294	0.393	
Power Class 3	2636.50	41055	Mid-High	left	5 mm	LTE Band 41	B	Closed	0172M	20	QPSK	1	0	22.0	20.78	0	0.05	1:1.58	0.197	1.324	0.261	
Power Class 3	2636.50	41055	Mid-High	left	5 mm	LTE Band 41	B	Closed	0172M	20	QPSK	50	25	22.0	20.82	0	-0.06	1:1.58	0.202	1.312	0.265	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population											Body 1.6 W/kg (mW/g) averaged over 1 gram											

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**Table 11-53  
LTE Band 41 Antenna I Hotspot SAR**

MEASUREMENT RESULTS																						
Power Class	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)		
Power Class 3	2593.00	40620	Mid	back	10 mm	LTE Band 41	I	Open	0317M	20	QPSK	1	99	21.5	20.57	0	0.01	1:1.58	0.195	1.239	0.242	
Power Class 3	2593.00	40620	Mid	back	10 mm	LTE Band 41	I	Open	0317M	20	QPSK	50	25	21.5	20.70	0	-0.04	1:1.58	0.207	1.202	0.249	
Power Class 3	2593.00	40620	Mid	front	10 mm	LTE Band 41	I	Open	0317M	20	QPSK	1	99	21.5	20.57	0	0.02	1:1.58	0.220	1.239	0.273	
Power Class 3	2593.00	40620	Mid	front	10 mm	LTE Band 41	I	Open	0317M	20	QPSK	50	25	21.5	20.70	0	-0.02	1:1.58	0.231	1.202	0.278	
Power Class 3	2593.00	40620	Mid	top	10 mm	LTE Band 41	I	Open	0317M	20	QPSK	1	99	21.5	20.57	0	0.13	1:1.58	0.044	1.239	0.055	
Power Class 3	2593.00	40620	Mid	top	10 mm	LTE Band 41	I	Open	0317M	20	QPSK	50	25	21.5	20.70	0	-0.10	1:1.58	0.045	1.202	0.054	
Power Class 3	2506.00	39750	Low	right	10 mm	LTE Band 41	I	Open	0317M	20	QPSK	1	99	21.5	20.25	0	-0.02	1:1.58	0.379	1.334	0.506	
Power Class 3	2549.50	40185	Low-Mid	right	10 mm	LTE Band 41	I	Open	0317M	20	QPSK	1	99	21.5	20.53	0	0.08	1:1.58	0.401	1.250	0.501	
Power Class 3	2593.00	40620	Mid	right	10 mm	LTE Band 41	I	Open	0317M	20	QPSK	1	99	21.5	20.57	0	0.03	1:1.58	0.500	1.239	0.620	
Power Class 3	2636.50	41055	Mid-High	right	10 mm	LTE Band 41	I	Open	0317M	20	QPSK	1	0	21.5	20.46	0	0.02	1:1.58	0.433	1.271	0.550	
Power Class 3	2680.00	41490	High	right	10 mm	LTE Band 41	I	Open	0317M	20	QPSK	1	99	21.5	20.16	0	-0.03	1:1.58	0.274	1.361	0.373	
Power Class 3	2506.00	39750	Low	right	10 mm	LTE Band 41	I	Open	0317M	20	QPSK	50	50	21.5	20.33	0	0.02	1:1.58	0.382	1.309	0.500	
Power Class 3	2549.50	40185	Low-Mid	right	10 mm	LTE Band 41	I	Open	0317M	20	QPSK	50	25	21.5	20.55	0	0.02	1:1.58	0.429	1.245	0.534	
Power Class 3	2593.00	40620	Mid	right	10 mm	LTE Band 41	I	Open	0317M	20	QPSK	50	25	21.5	20.70	0	-0.03	1:1.58	0.510	1.202	0.613	
Power Class 3	2636.50	41055	Mid-High	right	10 mm	LTE Band 41	I	Open	0317M	20	QPSK	50	25	21.5	20.60	0	0.05	1:1.58	0.420	1.230	0.517	
Power Class 3	2680.00	41490	High	right	10 mm	LTE Band 41	I	Open	0317M	20	QPSK	50	0	21.5	20.14	0	0.01	1:1.58	0.322	1.368	0.440	
Power Class 3	2593.00	40620	Mid	right	10 mm	LTE Band 41	I	Open	0317M	20	QPSK	100	0	21.5	20.55	0	0.01	1:1.58	0.479	1.245	0.596	
Power Class 3	2593.00	40620	Mid	back	5 mm	LTE Band 41	I	Closed	0317M	20	QPSK	1	99	21.5	20.57	0	0.08	1:1.58	0.078	1.239	0.097	
Power Class 3	2593.00	40620	Mid	back	5 mm	LTE Band 41	I	Closed	0317M	20	QPSK	50	25	21.5	20.70	0	-0.04	1:1.58	0.077	1.202	0.093	
Power Class 3	2593.00	40620	Mid	front	5 mm	LTE Band 41	I	Closed	0317M	20	QPSK	1	99	21.5	20.57	0	0.01	1:1.58	0.170	1.239	0.211	
Power Class 3	2593.00	40620	Mid	front	5 mm	LTE Band 41	I	Closed	0317M	20	QPSK	50	25	21.5	20.70	0	0.01	1:1.58	0.182	1.202	0.219	
Power Class 3	2593.00	40620	Mid	top	5 mm	LTE Band 41	I	Closed	0317M	20	QPSK	1	99	21.5	20.57	0	0.05	1:1.58	0.046	1.239	0.057	
Power Class 3	2593.00	40620	Mid	top	5 mm	LTE Band 41	I	Closed	0317M	20	QPSK	50	25	21.5	20.70	0	0.13	1:1.58	0.050	1.202	0.060	
Power Class 3	2593.00	40620	Mid	bottom	5 mm	LTE Band 41	I	Closed	0317M	20	QPSK	1	99	21.5	20.57	0	-0.01	1:1.58	0.079	1.239	0.098	
Power Class 3	2593.00	40620	Mid	bottom	5 mm	LTE Band 41	I	Closed	0317M	20	QPSK	50	25	21.5	20.70	0	-0.05	1:1.58	0.077	1.202	0.093	
Power Class 3	2506.00	39750	Low	right	5 mm	LTE Band 41	I	Closed	0317M	20	QPSK	1	99	21.5	20.25	0	0.02	1:1.58	0.582	1.334	0.776	
Power Class 3	2549.50	40185	Low-Mid	right	5 mm	LTE Band 41	I	Closed	0317M	20	QPSK	1	99	21.5	20.53	0	0.01	1:1.58	0.694	1.250	0.868	
Power Class 3	2593.00	40620	Mid	right	5 mm	LTE Band 41	I	Closed	0317M	20	QPSK	1	99	21.5	20.57	0	-0.03	1:1.58	0.735	1.239	0.911	
Power Class 3	2636.50	41055	Mid-High	right	5 mm	LTE Band 41	I	Closed	0317M	20	QPSK	1	0	21.5	20.46	0	-0.01	1:1.58	0.741	1.271	0.942	
Power Class 3	2680.00	41490	High	right	5 mm	LTE Band 41	I	Closed	0317M	20	QPSK	1	99	21.5	20.16	0	0.02	1:1.58	0.571	1.361	0.777	
Power Class 3	2506.00	39750	Low	right	5 mm	LTE Band 41	I	Closed	0317M	20	QPSK	50	50	21.5	20.33	0	-0.02	1:1.58	0.602	1.309	0.788	
Power Class 3	2549.50	40185	Low-Mid	right	5 mm	LTE Band 41	I	Closed	0317M	20	QPSK	50	25	21.5	20.55	0	-0.02	1:1.58	0.713	1.245	0.888	
Power Class 3	2593.00	40620	Mid	right	5 mm	LTE Band 41	I	Closed	0317M	20	QPSK	50	25	21.5	20.70	0	0.02	1:1.58	0.766	1.202	0.921	A51
Power Class 3	2636.50	41055	Mid-High	right	5 mm	LTE Band 41	I	Closed	0317M	20	QPSK	50	25	21.5	20.60	0	0.01	1:1.58	0.682	1.230	0.839	
Power Class 3	2680.00	41490	High	right	5 mm	LTE Band 41	I	Closed	0317M	20	QPSK	50	0	21.5	20.14	0	0.00	1:1.58	0.586	1.368	0.802	
Power Class 3	2593.00	40620	Mid	right	5 mm	LTE Band 41	I	Closed	0317M	20	QPSK	100	0	21.5	20.55	0	-0.04	1:1.58	0.730	1.245	0.909	
Power Class 2	2636.50	41055	Mid-High	right	5 mm	LTE Band 41	I	Closed	0317M	20	QPSK	1	0	23.1	22.08	0	0.00	1:2.31	0.670	1.265	0.848	
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 11-54  
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	A	Open	0421M	20	DFT-S-OFDM	QPSK	1	53	25.0	23.77	0	0.00	1:1	0.332	1.327	0.441	
836.50	167300	Mid	back	10 mm	NR Band n5	A	Open	0421M	20	DFT-S-OFDM	QPSK	50	28	25.0	23.81	0	0.00	1:1	0.345	1.315	0.454	
836.50	167300	Mid	back	10 mm	NR Band n5	A	Open	0421M	20	CP-OFDM	QPSK	1	1	24.1	23.17	0.9	-0.01	1:1	0.259	1.239	0.321	
836.50	167300	Mid	front	10 mm	NR Band n5	A	Open	0421M	20	DFT-S-OFDM	QPSK	1	53	25.0	23.77	0	0.00	1:1	0.185	1.327	0.245	
836.50	167300	Mid	front	10 mm	NR Band n5	A	Open	0421M	20	DFT-S-OFDM	QPSK	50	28	25.0	23.81	0	-0.01	1:1	0.191	1.315	0.251	
836.50	167300	Mid	bottom	10 mm	NR Band n5	A	Open	0421M	20	DFT-S-OFDM	QPSK	1	53	25.0	23.77	0	0.08	1:1	0.089	1.327	0.118	
836.50	167300	Mid	bottom	10 mm	NR Band n5	A	Open	0421M	20	DFT-S-OFDM	QPSK	50	28	25.0	23.81	0	0.02	1:1	0.091	1.315	0.120	
836.50	167300	Mid	right	10 mm	NR Band n5	A	Open	0421M	20	DFT-S-OFDM	QPSK	1	53	25.0	23.77	0	-0.19	1:1	0.038	1.327	0.050	
836.50	167300	Mid	right	10 mm	NR Band n5	A	Open	0421M	20	DFT-S-OFDM	QPSK	50	28	25.0	23.81	0	0.00	1:1	0.039	1.315	0.051	
836.50	167300	Mid	left	10 mm	NR Band n5	A	Open	0421M	20	DFT-S-OFDM	QPSK	1	53	25.0	23.77	0	0.01	1:1	0.116	1.327	0.154	
836.50	167300	Mid	left	10 mm	NR Band n5	A	Open	0421M	20	DFT-S-OFDM	QPSK	50	28	25.0	23.81	0	-0.05	1:1	0.120	1.315	0.158	
836.50	167300	Mid	back	5 mm	NR Band n5	A	Closed	0340M	20	DFT-S-OFDM	QPSK	1	53	25.0	23.77	0	-0.02	1:1	0.753	1.327	0.999	A52
836.50	167300	Mid	back	5 mm	NR Band n5	A	Closed	0340M	20	DFT-S-OFDM	QPSK	50	28	25.0	23.81	0	0.00	1:1	0.750	1.315	0.986	
836.50	167300	Mid	back	5 mm	NR Band n5	A	Closed	0340M	20	DFT-S-OFDM	QPSK	100	0	24.6	23.75	0.4	-0.08	1:1	0.700	1.216	0.851	
836.50	167300	Mid	back	5 mm	NR Band n5	A	Closed	0340M	20	CP-OFDM	QPSK	1	1	24.1	23.17	0.9	-0.14	1:1	0.594	1.239	0.736	
836.50	167300	Mid	front	5 mm	NR Band n5	A	Closed	0340M	20	DFT-S-OFDM	QPSK	1	53	25.0	23.77	0	-0.06	1:1	0.105	1.327	0.139	
836.50	167300	Mid	front	5 mm	NR Band n5	A	Closed	0340M	20	DFT-S-OFDM	QPSK	50	28	25.0	23.81	0	-0.01	1:1	0.104	1.315	0.137	
836.50	167300	Mid	bottom	5 mm	NR Band n5	A	Closed	0340M	20	DFT-S-OFDM	QPSK	1	53	25.0	23.77	0	-0.08	1:1	0.163	1.327	0.216	
836.50	167300	Mid	bottom	5 mm	NR Band n5	A	Closed	0340M	20	DFT-S-OFDM	QPSK	50	28	25.0	23.81	0	-0.02	1:1	0.162	1.315	0.213	
836.50	167300	Mid	right	5 mm	NR Band n5	A	Closed	0340M	20	DFT-S-OFDM	QPSK	1	53	25.0	23.77	0	-0.07	1:1	0.117	1.327	0.155	
836.50	167300	Mid	right	5 mm	NR Band n5	A	Closed	0340M	20	DFT-S-OFDM	QPSK	50	28	25.0	23.81	0	0.01	1:1	0.120	1.315	0.158	
836.50	167300	Mid	left	5 mm	NR Band n5	A	Closed	0340M	20	DFT-S-OFDM	QPSK	1	53	25.0	23.77	0	0.02	1:1	0.130	1.327	0.173	
836.50	167300	Mid	left	5 mm	NR Band n5	A	Closed	0340M	20	DFT-S-OFDM	QPSK	50	28	25.0	23.81	0	0.02	1:1	0.134	1.315	0.178	
ANSI / IEEE C62.1.1992 - SAFETY LIMIT Spatial Peak												Body 1.6 W/kg (mW/g) averaged over 1 gram										
Uncontrolled Exposure/General Population																						

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**Table 11-55  
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) (W/kg)	Scaling Factor	Reported SAR (1g) (W/kg)	Plot #	
MHz	Ch.																					
1745.00	349000	Mid	back	10 mm	NR Band n66	A	Open	0037M	40	DFT-S-OFDM	QPSK	1	1	19.5	18.07	0	0.04	1:1	0.198	1.390	0.275	
1745.00	349000	Mid	back	10 mm	NR Band n66	A	Open	0037M	40	DFT-S-OFDM	QPSK	108	0	19.5	18.13	0	-0.03	1:1	0.211	1.371	0.289	
1745.00	349000	Mid	back	10 mm	NR Band n66	A	Open	0037M	40	CP-OFDM	QPSK	1	1	19.5	18.14	0	0.01	1:1	0.201	1.368	0.275	
1745.00	349000	Mid	front	10 mm	NR Band n66	A	Open	0037M	40	DFT-S-OFDM	QPSK	1	1	19.5	18.07	0	-0.04	1:1	0.157	1.390	0.218	
1745.00	349000	Mid	front	10 mm	NR Band n66	A	Open	0037M	40	DFT-S-OFDM	QPSK	108	0	19.5	18.13	0	0.00	1:1	0.166	1.371	0.228	
1745.00	349000	Mid	bottom	10 mm	NR Band n66	A	Open	0337M	40	DFT-S-OFDM	QPSK	1	1	19.5	18.07	0	-0.02	1:1	0.141	1.390	0.196	
1745.00	349000	Mid	bottom	10 mm	NR Band n66	A	Open	0337M	40	DFT-S-OFDM	QPSK	108	0	19.5	18.13	0	-0.05	1:1	0.143	1.371	0.196	
1745.00	349000	Mid	right	10 mm	NR Band n66	A	Open	0337M	40	DFT-S-OFDM	QPSK	1	1	19.5	18.07	0	0.14	1:1	0.015	1.390	0.021	
1745.00	349000	Mid	right	10 mm	NR Band n66	A	Open	0337M	40	DFT-S-OFDM	QPSK	108	0	19.5	18.13	0	-0.12	1:1	0.017	1.371	0.023	
1745.00	349000	Mid	left	10 mm	NR Band n66	A	Open	0337M	40	DFT-S-OFDM	QPSK	1	1	19.5	18.07	0	-0.14	1:1	0.021	1.390	0.029	
1745.00	349000	Mid	left	10 mm	NR Band n66	A	Open	0337M	40	DFT-S-OFDM	QPSK	108	0	19.5	18.13	0	-0.06	1:1	0.020	1.371	0.027	
1745.00	349000	Mid	back	5 mm	NR Band n66	A	Closed	1625M	40	DFT-S-OFDM	QPSK	1	1	19.5	18.07	0	-0.02	1:1	0.257	1.390	0.357	
1745.00	349000	Mid	back	5 mm	NR Band n66	A	Closed	1625M	40	DFT-S-OFDM	QPSK	108	0	19.5	18.13	0	0.00	1:1	0.290	1.371	0.398	
1745.00	349000	Mid	front	5 mm	NR Band n66	A	Closed	1625M	40	DFT-S-OFDM	QPSK	1	1	19.5	18.07	0	-0.17	1:1	0.062	1.390	0.086	
1745.00	349000	Mid	front	5 mm	NR Band n66	A	Closed	1625M	40	DFT-S-OFDM	QPSK	108	0	19.5	18.13	0	-0.01	1:1	0.069	1.371	0.095	
1745.00	349000	Mid	bottom	5 mm	NR Band n66	A	Closed	1625M	40	DFT-S-OFDM	QPSK	1	1	19.5	18.07	0	0.01	1:1	0.368	1.390	0.512	
1745.00	349000	Mid	bottom	5 mm	NR Band n66	A	Closed	1625M	40	DFT-S-OFDM	QPSK	108	0	19.5	18.13	0	-0.02	1:1	0.357	1.371	0.489	
1745.00	349000	Mid	bottom	5 mm	NR Band n66	A	Closed	1625M	40	CP-OFDM	QPSK	1	1	19.5	18.14	0	0.05	1:1	0.375	1.368	0.513	
1745.00	349000	Mid	right	5 mm	NR Band n66	A	Closed	1625M	40	DFT-S-OFDM	QPSK	1	1	19.5	18.07	0	-0.15	1:1	0.006	1.390	0.008	
1745.00	349000	Mid	right	5 mm	NR Band n66	A	Closed	1625M	40	DFT-S-OFDM	QPSK	108	0	19.5	18.13	0	-0.12	1:1	0.009	1.371	0.012	
1745.00	349000	Mid	left	5 mm	NR Band n66	A	Closed	1625M	40	DFT-S-OFDM	QPSK	1	1	19.5	18.07	0	0.14	1:1	0.062	1.390	0.086	
1745.00	349000	Mid	left	5 mm	NR Band n66	A	Closed	1625M	40	DFT-S-OFDM	QPSK	108	0	19.5	18.13	0	-0.07	1:1	0.075	1.371	0.103	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT												Body										
Spatial Peak												1.6 W/kg (mW/g)										
Uncontrolled Exposure/General Population												averaged over 1 gram										

**Table 11-56  
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) (W/kg)	Scaling Factor	Reported SAR (1g) (W/kg)	Plot #	
MHz	Ch.																					
1745.00	349000	Mid	back	10 mm	NR Band n66	I	Open	0353M	40	DFT-S-OFDM	QPSK	1	1	18.5	17.51	0	0.16	1:1	0.129	1.256	0.162	
1745.00	349000	Mid	back	10 mm	NR Band n66	I	Open	0353M	40	DFT-S-OFDM	QPSK	108	0	18.5	17.39	0	0.02	1:1	0.127	1.291	0.164	
1745.00	349000	Mid	front	10 mm	NR Band n66	I	Open	0353M	40	DFT-S-OFDM	QPSK	1	1	18.5	17.51	0	0.01	1:1	0.150	1.256	0.188	
1745.00	349000	Mid	front	10 mm	NR Band n66	I	Open	0353M	40	DFT-S-OFDM	QPSK	108	0	18.5	17.39	0	0.11	1:1	0.153	1.291	0.198	
1745.00	349000	Mid	top	10 mm	NR Band n66	I	Open	0353M	40	DFT-S-OFDM	QPSK	1	1	18.5	17.51	0	0.09	1:1	0.018	1.256	0.023	
1745.00	349000	Mid	top	10 mm	NR Band n66	I	Open	0353M	40	DFT-S-OFDM	QPSK	108	0	18.5	17.39	0	0.10	1:1	0.020	1.291	0.026	
1745.00	349000	Mid	right	10 mm	NR Band n66	I	Open	0353M	40	DFT-S-OFDM	QPSK	1	1	18.5	17.51	0	-0.14	1:1	0.228	1.256	0.286	
1745.00	349000	Mid	right	10 mm	NR Band n66	I	Open	0353M	40	DFT-S-OFDM	QPSK	108	0	18.5	17.39	0	0.15	1:1	0.220	1.291	0.284	
1745.00	349000	Mid	right	10 mm	NR Band n66	I	Open	0353M	40	CP-OFDM	QPSK	1	1	18.5	17.55	0	-0.14	1:1	0.252	1.245	0.314	
1745.00	349000	Mid	back	5 mm	NR Band n66	I	Closed	1625M	40	DFT-S-OFDM	QPSK	1	1	18.5	17.51	0	0.01	1:1	0.016	1.256	0.020	
1745.00	349000	Mid	back	5 mm	NR Band n66	I	Closed	1625M	40	DFT-S-OFDM	QPSK	108	0	18.5	17.39	0	-0.14	1:1	0.015	1.291	0.019	
1745.00	349000	Mid	front	5 mm	NR Band n66	I	Closed	1625M	40	DFT-S-OFDM	QPSK	1	1	18.5	17.51	0	0.12	1:1	0.206	1.256	0.261	
1745.00	349000	Mid	front	5 mm	NR Band n66	I	Closed	1625M	40	DFT-S-OFDM	QPSK	108	0	18.5	17.39	0	-0.14	1:1	0.217	1.291	0.280	
1745.00	349000	Mid	top	5 mm	NR Band n66	I	Closed	0353M	40	DFT-S-OFDM	QPSK	1	1	18.5	17.51	0	-0.14	1:1	0.010	1.256	0.013	
1745.00	349000	Mid	top	5 mm	NR Band n66	I	Closed	0353M	40	DFT-S-OFDM	QPSK	108	0	18.5	17.39	0	-0.15	1:1	0.013	1.291	0.017	
1745.00	349000	Mid	bottom	5 mm	NR Band n66	I	Closed	1625M	40	DFT-S-OFDM	QPSK	1	1	18.5	17.51	0	0.05	1:1	0.023	1.256	0.029	
1745.00	349000	Mid	bottom	5 mm	NR Band n66	I	Closed	1625M	40	DFT-S-OFDM	QPSK	108	0	18.5	17.39	0	0.11	1:1	0.021	1.291	0.027	
1745.00	349000	Mid	right	5 mm	NR Band n66	I	Closed	1625M	40	DFT-S-OFDM	QPSK	1	1	18.5	17.51	0	0.00	1:1	0.358	1.256	0.450	
1745.00	349000	Mid	right	5 mm	NR Band n66	I	Closed	1625M	40	DFT-S-OFDM	QPSK	108	0	18.5	17.39	0	-0.03	1:1	0.410	1.291	0.529	A53
1745.00	349000	Mid	right	5 mm	NR Band n66	I	Closed	1625M	40	CP-OFDM	QPSK	1	1	18.5	17.55	0	0.05	1:1	0.367	1.245	0.457	
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 11-57  
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) [W/kg]	Scaling Factor	Reported SAR (1g) [W/kg]	Plot #	
MHz	Ch.																					
1882.50	376500	Mid	back	10 mm	NR Band n25	A	Open	0178M	40	DFT-S-OFDM	QPSK	1	214	19.5	18.65	0	-0.01	1:1	0.270	1.216	0.328	
1882.50	376500	Mid	back	10 mm	NR Band n25	A	Open	0178M	40	DFT-S-OFDM	QPSK	108	108	19.5	18.54	0	0.02	1:1	0.261	1.247	0.325	
1882.50	376500	Mid	front	10 mm	NR Band n25	A	Open	0178M	40	DFT-S-OFDM	QPSK	1	214	19.5	18.65	0	0.00	1:1	0.181	1.216	0.220	
1882.50	376500	Mid	front	10 mm	NR Band n25	A	Open	0178M	40	DFT-S-OFDM	QPSK	108	108	19.5	18.54	0	-0.05	1:1	0.177	1.247	0.221	
1882.50	376500	Mid	bottom	10 mm	NR Band n25	A	Open	0178M	40	DFT-S-OFDM	QPSK	1	214	19.5	18.65	0	-0.01	1:1	0.460	1.216	0.559	
1882.50	376500	Mid	bottom	10 mm	NR Band n25	A	Open	0178M	40	DFT-S-OFDM	QPSK	108	108	19.5	18.54	0	0.00	1:1	0.445	1.247	0.555	
1882.50	376500	Mid	bottom	10 mm	NR Band n25	A	Open	0178M	40	CP-OFDM	QPSK	1	1	19.5	18.32	0	0.00	1:1	0.373	1.312	0.489	
1882.50	376500	Mid	right	10 mm	NR Band n25	A	Open	0320M	40	DFT-S-OFDM	QPSK	1	214	19.5	18.65	0	-0.09	1:1	0.023	1.216	0.028	
1882.50	376500	Mid	right	10 mm	NR Band n25	A	Open	0320M	40	DFT-S-OFDM	QPSK	108	108	19.5	18.54	0	0.12	1:1	0.023	1.247	0.029	
1882.50	376500	Mid	left	10 mm	NR Band n25	A	Open	0320M	40	DFT-S-OFDM	QPSK	1	214	19.5	18.65	0	0.05	1:1	0.049	1.216	0.060	
1882.50	376500	Mid	left	10 mm	NR Band n25	A	Open	0320M	40	DFT-S-OFDM	QPSK	108	108	19.5	18.54	0	-0.02	1:1	0.044	1.247	0.055	
1882.50	376500	Mid	back	5 mm	NR Band n25	A	Closed	0178M	40	DFT-S-OFDM	QPSK	1	214	19.5	18.65	0	-0.01	1:1	0.223	1.216	0.271	
1882.50	376500	Mid	back	5 mm	NR Band n25	A	Closed	0178M	40	DFT-S-OFDM	QPSK	108	108	19.5	18.54	0	-0.03	1:1	0.228	1.247	0.284	
1882.50	376500	Mid	front	5 mm	NR Band n25	A	Closed	0320M	40	DFT-S-OFDM	QPSK	1	214	19.5	18.65	0	-0.19	1:1	0.056	1.216	0.068	
1882.50	376500	Mid	front	5 mm	NR Band n25	A	Closed	0320M	40	DFT-S-OFDM	QPSK	108	108	19.5	18.54	0	0.01	1:1	0.052	1.247	0.065	
1882.50	376500	Mid	bottom	5 mm	NR Band n25	A	Closed	0178M	40	DFT-S-OFDM	QPSK	1	214	19.5	18.65	0	-0.01	1:1	0.495	1.216	0.602	
1882.50	376500	Mid	bottom	5 mm	NR Band n25	A	Closed	0178M	40	DFT-S-OFDM	QPSK	108	108	19.5	18.54	0	-0.01	1:1	0.535	1.247	0.667	
1882.50	376500	Mid	bottom	5 mm	NR Band n25	A	Closed	0178M	40	CP-OFDM	QPSK	1	1	19.5	18.32	0	0.02	1:1	0.632	1.312	0.829	
1882.50	376500	Mid	right	5 mm	NR Band n25	A	Closed	0320M	40	DFT-S-OFDM	QPSK	1	214	19.5	18.65	0	-0.01	1:1	0.017	1.216	0.021	
1882.50	376500	Mid	right	5 mm	NR Band n25	A	Closed	0320M	40	DFT-S-OFDM	QPSK	108	108	19.5	18.54	0	0.13	1:1	0.017	1.247	0.021	
1882.50	376500	Mid	left	5 mm	NR Band n25	A	Closed	0320M	40	DFT-S-OFDM	QPSK	1	214	19.5	18.65	0	0.03	1:1	0.065	1.216	0.079	
1882.50	376500	Mid	left	5 mm	NR Band n25	A	Closed	0320M	40	DFT-S-OFDM	QPSK	108	108	19.5	18.54	0	-0.04	1:1	0.057	1.247	0.071	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population												Body 1.6 W/kg (mW/g) averaged over 1 gram										

**Table 11-58  
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) [W/kg]	Scaling Factor	Reported SAR (1g) [W/kg]	Plot #	
MHz	Ch.																					
1882.50	376500	Mid	back	10 mm	NR Band n25	I	Open	0355M	40	DFT-S-OFDM	QPSK	1	214	16.5	15.19	0	0.04	1:1	0.159	1.352	0.215	
1882.50	376500	Mid	back	10 mm	NR Band n25	I	Open	0355M	40	DFT-S-OFDM	QPSK	108	108	16.5	15.05	0	-0.03	1:1	0.156	1.396	0.218	
1882.50	376500	Mid	front	10 mm	NR Band n25	I	Open	0355M	40	DFT-S-OFDM	QPSK	1	214	16.5	15.19	0	-0.04	1:1	0.158	1.352	0.214	
1882.50	376500	Mid	front	10 mm	NR Band n25	I	Open	0355M	40	DFT-S-OFDM	QPSK	108	108	16.5	15.05	0	0.02	1:1	0.151	1.396	0.211	
1882.50	376500	Mid	top	10 mm	NR Band n25	I	Open	0355M	40	DFT-S-OFDM	QPSK	1	214	16.5	15.19	0	-0.06	1:1	0.040	1.352	0.054	
1882.50	376500	Mid	top	10 mm	NR Band n25	I	Open	0355M	40	DFT-S-OFDM	QPSK	108	108	16.5	15.05	0	0.06	1:1	0.037	1.396	0.052	
1882.50	376500	Mid	right	10 mm	NR Band n25	I	Open	0355M	40	DFT-S-OFDM	QPSK	1	214	16.5	15.19	0	0.02	1:1	0.358	1.352	0.481	
1882.50	376500	Mid	right	10 mm	NR Band n25	I	Open	0355M	40	DFT-S-OFDM	QPSK	108	108	16.5	15.05	0	0.00	1:1	0.340	1.396	0.475	
1882.50	376500	Mid	right	10 mm	NR Band n25	I	Open	0355M	40	CP-OFDM	QPSK	1	1	16.5	14.99	0	-0.01	1:1	0.334	1.416	0.473	
1882.50	376500	Mid	back	5 mm	NR Band n25	I	Closed	0355M	40	DFT-S-OFDM	QPSK	1	214	16.5	15.19	0	0.00	1:1	0.032	1.352	0.043	
1882.50	376500	Mid	back	5 mm	NR Band n25	I	Closed	0355M	40	DFT-S-OFDM	QPSK	108	108	16.5	15.05	0	-0.07	1:1	0.028	1.396	0.039	
1882.50	376500	Mid	front	5 mm	NR Band n25	I	Closed	0355M	40	DFT-S-OFDM	QPSK	1	214	16.5	15.19	0	-0.03	1:1	0.335	1.352	0.453	
1882.50	376500	Mid	front	5 mm	NR Band n25	I	Closed	0355M	40	DFT-S-OFDM	QPSK	108	108	16.5	15.05	0	-0.04	1:1	0.306	1.396	0.427	
1882.50	376500	Mid	top	5 mm	NR Band n25	I	Closed	0355M	40	DFT-S-OFDM	QPSK	1	214	16.5	15.19	0	0.14	1:1	0.017	1.352	0.023	
1882.50	376500	Mid	top	5 mm	NR Band n25	I	Closed	0355M	40	DFT-S-OFDM	QPSK	108	108	16.5	15.05	0	0.20	1:1	0.016	1.396	0.022	
1882.50	376500	Mid	bottom	5 mm	NR Band n25	I	Closed	0355M	40	DFT-S-OFDM	QPSK	1	214	16.5	15.19	0	0.00	1:1	0.049	1.352	0.066	
1882.50	376500	Mid	bottom	5 mm	NR Band n25	I	Closed	0355M	40	DFT-S-OFDM	QPSK	108	108	16.5	15.05	0	-0.04	1:1	0.053	1.396	0.074	
1882.50	376500	Mid	right	5 mm	NR Band n25	I	Closed	0355M	40	DFT-S-OFDM	QPSK	1	214	16.5	15.19	0	-0.01	1:1	0.743	1.352	1.005	A54
1882.50	376500	Mid	right	5 mm	NR Band n25	I	Closed	0355M	40	DFT-S-OFDM	QPSK	108	108	16.5	15.05	0	0.00	1:1	0.723	1.396	1.009	
1882.50	376500	Mid	right	5 mm	NR Band n25	I	Closed	0355M	40	DFT-S-OFDM	QPSK	216	0	16.5	15.03	0	0.00	1:1	0.681	1.403	0.955	
1882.50	376500	Mid	right	5 mm	NR Band n25	I	Closed	0355M	40	CP-OFDM	QPSK	1	1	16.5	14.99	0	0.01	1:1	0.637	1.416	0.902	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population												Body 1.6 W/kg (mW/g) averaged over 1 gram										

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**Table 11-59  
NR Band n41 Antenna I/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) (W/kg)	Scaling Factor	Reported SAR (1g) (W/kg)	Plot #	
MHz	Ch.																					
2592.99	518598	Mid	back	10 mm	NR Band n41	I	Open	0433M	100	DFT-s-OFDM	QPSK	1	137	19.5	18.33	0	0.00	1:1	0.232	1.309	0.304	
2592.99	518598	Mid	back	10 mm	NR Band n41	I	Open	0433M	100	DFT-s-OFDM	QPSK	135	69	19.5	18.34	0	-0.03	1:1	0.227	1.306	0.296	
2592.99	518598	Mid	front	10 mm	NR Band n41	I	Open	0433M	100	DFT-s-OFDM	QPSK	1	137	19.5	18.33	0	-0.01	1:1	0.236	1.309	0.309	
2592.99	518598	Mid	front	10 mm	NR Band n41	I	Open	0433M	100	DFT-s-OFDM	QPSK	135	69	19.5	18.34	0	-0.01	1:1	0.237	1.306	0.310	
2592.99	518598	Mid	top	10 mm	NR Band n41	I	Open	0433M	100	DFT-s-OFDM	QPSK	1	137	19.5	18.33	0	0.05	1:1	0.031	1.309	0.041	
2592.99	518598	Mid	top	10 mm	NR Band n41	I	Open	0433M	100	DFT-s-OFDM	QPSK	135	69	19.5	18.34	0	0.13	1:1	0.033	1.306	0.043	
2592.99	518598	Mid	right	10 mm	NR Band n41	I	Open	0433M	100	DFT-s-OFDM	QPSK	1	137	19.5	18.33	0	-0.02	1:1	0.321	1.309	0.420	
2592.99	518598	Mid	right	10 mm	NR Band n41	I	Open	0433M	100	DFT-s-OFDM	QPSK	135	69	19.5	18.34	0	-0.05	1:1	0.321	1.306	0.419	
2592.99	518598	Mid	right	10 mm	NR Band n41	I	Open	0433M	100	CP-OFDM	QPSK	1	1	19.5	18.18	0	0.03	1:1	0.328	1.355	0.442	
2592.99	518598	Mid	back	5 mm	NR Band n41	I	Closed	0433M	100	DFT-s-OFDM	QPSK	1	137	19.5	18.33	0	0.01	1:1	0.153	1.309	0.200	
2592.99	518598	Mid	back	5 mm	NR Band n41	I	Closed	0433M	100	DFT-s-OFDM	QPSK	135	69	19.5	18.34	0	-0.03	1:1	0.150	1.306	0.196	
2592.99	518598	Mid	front	5 mm	NR Band n41	I	Closed	0433M	100	DFT-s-OFDM	QPSK	1	137	19.5	18.33	0	0.01	1:1	0.461	1.309	0.603	
2592.99	518598	Mid	front	5 mm	NR Band n41	I	Closed	0433M	100	DFT-s-OFDM	QPSK	135	69	19.5	18.34	0	-0.04	1:1	0.459	1.306	0.599	
2592.99	518598	Mid	front	5 mm	NR Band n41	I	Closed	0433M	100	DFT-s-OFDM	QPSK	270	0	19.5	18.27	0	-0.01	1:1	0.447	1.327	0.593	
2592.99	518598	Mid	top	5 mm	NR Band n41	I	Closed	0433M	100	DFT-s-OFDM	QPSK	1	137	19.5	18.33	0	-0.03	1:1	0.043	1.309	0.056	
2592.99	518598	Mid	top	5 mm	NR Band n41	I	Closed	0433M	100	DFT-s-OFDM	QPSK	135	69	19.5	18.34	0	0.04	1:1	0.042	1.306	0.055	
2592.99	518598	Mid	bottom	5 mm	NR Band n41	I	Closed	0433M	100	DFT-s-OFDM	QPSK	1	137	19.5	18.33	0	0.05	1:1	0.098	1.309	0.128	
2592.99	518598	Mid	bottom	5 mm	NR Band n41	I	Closed	0433M	100	DFT-s-OFDM	QPSK	135	69	19.5	18.34	0	0.04	1:1	0.093	1.306	0.121	
2592.99	518598	Mid	right	5 mm	NR Band n41	I	Closed	1480M	100	DFT-s-OFDM	QPSK	1	137	19.5	18.33	0	0.04	1:1	0.570	1.309	0.746	
2592.99	518598	Mid	right	5 mm	NR Band n41	I	Closed	1480M	100	DFT-s-OFDM	QPSK	135	69	19.5	18.34	0	-0.06	1:1	0.567	1.306	0.741	
2592.99	518598	Mid	right	5 mm	NR Band n41	I	Closed	1480M	100	DFT-s-OFDM	QPSK	270	0	19.5	18.27	0	0.02	1:1	0.564	1.327	0.748	
2592.99	518598	Mid	right	5 mm	NR Band n41	I	Closed	1480M	100	CP-OFDM	QPSK	1	1	19.5	18.18	0	-0.04	1:1	0.632	1.355	0.856	A65
2592.99	518598	Mid	back	10 mm	NR Band n41	B	Open	0433M	100	CWSRS	N/A	N/A	N/A	18.5	18.18	N/A	0.00	1:1	0.095	1.076	0.102	
2592.99	518598	Mid	front	10 mm	NR Band n41	B	Open	0433M	100	CWSRS	N/A	N/A	N/A	18.5	18.18	N/A	0.02	1:1	0.080	1.076	0.086	
2592.99	518598	Mid	bottom	10 mm	NR Band n41	B	Open	0433M	100	CWSRS	N/A	N/A	N/A	18.5	18.18	N/A	-0.02	1:1	0.281	1.076	0.302	
2592.99	518598	Mid	left	10 mm	NR Band n41	B	Open	0433M	100	CWSRS	N/A	N/A	N/A	18.5	18.18	N/A	-0.18	1:1	0.030	1.076	0.032	
2592.99	518598	Mid	back	5 mm	NR Band n41	B	Closed	0433M	100	CWSRS	N/A	N/A	N/A	18.5	18.18	N/A	0.02	1:1	0.214	1.076	0.230	
2592.99	518598	Mid	front	5 mm	NR Band n41	B	Closed	0433M	100	CWSRS	N/A	N/A	N/A	18.5	18.18	N/A	0.06	1:1	0.009	1.076	0.010	
2592.99	518598	Mid	top	5 mm	NR Band n41	B	Closed	0433M	100	CWSRS	N/A	N/A	N/A	18.5	18.18	N/A	0.06	1:1	0.006	1.076	0.006	
2592.99	518598	Mid	bottom	5 mm	NR Band n41	B	Closed	0433M	100	CWSRS	N/A	N/A	N/A	18.5	18.18	N/A	-0.02	1:1	0.345	1.076	0.371	
2592.99	518598	Mid	left	5 mm	NR Band n41	B	Closed	0433M	100	CWSRS	N/A	N/A	N/A	18.5	18.18	N/A	-0.10	1:1	0.063	1.076	0.068	
ANSI / IEEE C38.1 1992 - SAFETY LIMIT													Body									
Spatial Peak													1.6 W/kg (mW/g)									
Uncontrolled Exposure/General Population													averaged over 1 gram									

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**Table 11-60  
NR Band n41 Antenna F/C Hotspot SAR**

MEASUREMENT RESULTS																		
FREQUENCY		Side	Spacing	Mode	Antenna Config	Form Factor	Serial Number	Bandwidth [MHz]	Waveform	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift [dB]	Duty Cycle	SAR(1g)	Scaling Factor	Reported SAR	Plot #	
Hz	Ch.													(W/kg)		(W/kg)		
2.99	518598	Mid	back	10 mm	NR Band n41	F	Open	0433M	100	CW/SRS	6.0	5.22	-0.08	1:1	0.089	1.197	0.107	
2.99	518598	Mid	front	10 mm	NR Band n41	F	Open	0433M	100	CW/SRS	6.0	5.22	-0.04	1:1	0.098	1.197	0.117	
2.99	518598	Mid	top	10 mm	NR Band n41	F	Open	0433M	100	CW/SRS	6.0	5.22	0.02	1:1	0.061	1.197	0.073	
2.99	518598	Mid	left	10 mm	NR Band n41	F	Open	0433M	100	CW/SRS	6.0	5.22	-0.03	1:1	0.195	1.197	0.233	
2.99	518598	Mid	back	5 mm	NR Band n41	F	Closed	0433M	100	CW/SRS	6.0	5.22	-0.11	1:1	0.029	1.197	0.035	
2.99	518598	Mid	front	5 mm	NR Band n41	F	Closed	0433M	100	CW/SRS	6.0	5.22	0.15	1:1	0.225	1.197	0.269	
2.99	518598	Mid	top	5 mm	NR Band n41	F	Closed	0433M	100	CW/SRS	6.0	5.22	0.14	1:1	0.019	1.197	0.023	
2.99	518598	Mid	bottom	5 mm	NR Band n41	F	Closed	0433M	100	CW/SRS	6.0	5.22	0.02	1:1	0.064	1.197	0.077	
2.99	518598	Mid	left	5 mm	NR Band n41	F	Closed	0433M	100	CW/SRS	6.0	5.22	-0.06	1:1	0.561	1.197	0.672	
2.99	518598	Mid	back	10 mm	NR Band n41	C	Open	0433M	100	CW/SRS	11.5	11.01	-0.02	1:1	0.053	1.119	0.059	
2.99	518598	Mid	front	10 mm	NR Band n41	C	Open	0433M	100	CW/SRS	11.5	11.01	-0.06	1:1	0.050	1.119	0.056	
2.99	518598	Mid	bottom	10 mm	NR Band n41	C	Open	0433M	100	CW/SRS	11.5	11.01	0.20	1:1	0.021	1.119	0.023	
2.99	518598	Mid	left	10 mm	NR Band n41	C	Open	0433M	100	CW/SRS	11.5	11.01	-0.07	1:1	0.096	1.119	0.107	
2.99	518598	Mid	back	5 mm	NR Band n41	C	Closed	0433M	100	CW/SRS	11.5	11.01	-0.18	1:1	0.101	1.119	0.113	
2.99	518598	Mid	front	5 mm	NR Band n41	C	Closed	0433M	100	CW/SRS	11.5	11.01	-0.17	1:1	0.014	1.119	0.016	
2.99	518598	Mid	top	5 mm	NR Band n41	C	Closed	0433M	100	CW/SRS	11.5	11.01	-0.14	1:1	0.013	1.119	0.015	
2.99	518598	Mid	bottom	5 mm	NR Band n41	C	Closed	0433M	100	CW/SRS	11.5	11.01	0.03	1:1	0.046	1.119	0.051	
2.99	518598	Mid	left	5 mm	NR Band n41	C	Closed	0433M	100	CW/SRS	11.5	11.01	-0.07	1:1	0.254	1.119	0.284	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population											Body 1.6 W/kg (mW/g) averaged over 1 gram							

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**Table 11-61  
NR Band n77 Antenna F/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) (W/kg)	Scaling Factor	Reported SAR (1g) (W/kg)	Plot #	
MHz	Ch.																					
3750.00	650000	Low	back	10 mm	NR Band n77	F	Open	0433M	100	DFT-S-OFDM	QPSK	1	271	15.0	14.99	0	0.07	1:1	0.126	1.002	0.126	
3750.00	650000	Low	back	10 mm	NR Band n77	F	Open	0433M	100	DFT-S-OFDM	QPSK	135	138	15.0	14.81	0	-0.05	1:1	0.123	1.045	0.129	
3750.00	650000	Low	front	10 mm	NR Band n77	F	Open	0433M	100	DFT-S-OFDM	QPSK	1	271	15.0	14.99	0	-0.21	1:1	0.070	1.002	0.070	
3750.00	650000	Low	front	10 mm	NR Band n77	F	Open	0433M	100	DFT-S-OFDM	QPSK	135	138	15.0	14.81	0	0.18	1:1	0.071	1.045	0.074	
3750.00	650000	Low	top	10 mm	NR Band n77	F	Open	0433M	100	DFT-S-OFDM	QPSK	1	271	15.0	14.99	0	-0.19	1:1	0.063	1.002	0.063	
3750.00	650000	Low	top	10 mm	NR Band n77	F	Open	0433M	100	DFT-S-OFDM	QPSK	135	138	15.0	14.81	0	0.08	1:1	0.063	1.045	0.066	
3750.00	650000	Low	left	10 mm	NR Band n77	F	Open	0325M	100	DFT-S-OFDM	QPSK	1	271	15.0	14.99	0	0.00	1:1	0.146	1.002	0.146	
3750.00	650000	Low	left	10 mm	NR Band n77	F	Open	0325M	100	DFT-S-OFDM	QPSK	135	138	15.0	14.81	0	0.06	1:1	0.141	1.045	0.147	
3750.00	650000	Low	left	10 mm	NR Band n77	F	Open	0433M	100	CP-OFDM	QPSK	1	1	15.0	14.20	0	-0.12	1:1	0.197	1.202	0.237	
3500.01	633334	Mid	left	10 mm	NR Band n77 DoD	F	Open	0433M	100	DFT-S-OFDM	QPSK	1	271	15.0	13.98	0	0.01	1:1	0.277	1.265	0.350	
3750.00	650000	Low	back	5 mm	NR Band n77	F	Closed	0433M	100	DFT-s-OFDM	QPSK	1	271	15.0	14.99	0	-0.03	1:1	0.106	1.002	0.106	
3750.00	650000	Low	back	5 mm	NR Band n77	F	Closed	0433M	100	DFT-s-OFDM	QPSK	135	138	15.0	14.81	0	0.08	1:1	0.107	1.045	0.112	
3750.00	650000	Low	front	5 mm	NR Band n77	F	Closed	0433M	100	DFT-s-OFDM	QPSK	1	271	15.0	14.99	0	0.02	1:1	0.297	1.002	0.298	
3750.00	650000	Low	front	5 mm	NR Band n77	F	Closed	0433M	100	DFT-s-OFDM	QPSK	135	138	15.0	14.81	0	0.02	1:1	0.333	1.045	0.348	
3750.00	650000	Low	bottom	5 mm	NR Band n77	F	Closed	0433M	100	DFT-s-OFDM	QPSK	1	271	15.0	14.99	0	-0.05	1:1	0.192	1.002	0.192	
3750.00	650000	Low	bottom	5 mm	NR Band n77	F	Closed	0433M	100	DFT-s-OFDM	QPSK	135	138	15.0	14.81	0	0.02	1:1	0.204	1.045	0.213	
3750.00	650000	Low	left	5 mm	NR Band n77	F	Closed	0433M	100	DFT-s-OFDM	QPSK	1	271	15.0	14.99	0	-0.09	1:1	0.313	1.002	0.314	
3750.00	650000	Low	left	5 mm	NR Band n77	F	Closed	0433M	100	DFT-s-OFDM	QPSK	135	138	15.0	14.81	0	0.00	1:1	0.344	1.045	0.359	
3500.01	633334	Mid	left	5 mm	NR Band n77 DoD	F	Closed	0433M	100	DFT-S-OFDM	QPSK	1	271	15.0	13.98	0	0.07	1:1	0.439	1.265	0.556	A56
3750.00	650000	Low	back	10 mm	NR Band n77	I	Open	0433M	100	CWSRS	N/A	N/A	N/A	12.5	11.77	N/A	-0.16	1:1	0.034	1.183	0.040	
3750.00	650000	Low	front	10 mm	NR Band n77	I	Open	0433M	100	CWSRS	N/A	N/A	N/A	12.5	11.77	N/A	0.17	1:1	0.024	1.183	0.028	
3750.00	650000	Low	top	10 mm	NR Band n77	I	Open	0433M	100	CWSRS	N/A	N/A	N/A	12.5	11.77	N/A	-0.19	1:1	0.001	1.183	0.001	
3750.00	650000	Low	right	10 mm	NR Band n77	I	Open	0433M	100	CWSRS	N/A	N/A	N/A	12.5	11.77	N/A	0.11	1:1	0.058	1.183	0.069	
3500.01	633334	Mid	right	10 mm	NR Band n77 DoD	I	Open	0433M	100	CWSRS	N/A	N/A	N/A	12.5	11.00	N/A	0.10	1:1	0.174	1.413	0.246	
3750.00	650000	Low	back	5 mm	NR Band n77	I	Closed	0433M	100	CWSRS	N/A	N/A	N/A	12.5	11.77	N/A	0.13	1:1	0.007	1.183	0.008	
3750.00	650000	Low	front	5 mm	NR Band n77	I	Closed	0433M	100	CWSRS	N/A	N/A	N/A	12.5	11.77	N/A	0.00	1:1	0.123	1.183	0.146	
3750.00	650000	Low	top	5 mm	NR Band n77	I	Closed	0433M	100	CWSRS	N/A	N/A	N/A	12.5	11.77	N/A	0.20	1:1	0.004	1.183	0.005	
3750.00	650000	Low	bottom	5 mm	NR Band n77	I	Closed	0433M	100	CWSRS	N/A	N/A	N/A	12.5	11.77	N/A	-0.13	1:1	0.011	1.183	0.013	
3750.00	650000	Low	right	5 mm	NR Band n77	I	Closed	0433M	100	CWSRS	N/A	N/A	N/A	12.5	11.77	N/A	-0.03	1:1	0.241	1.183	0.285	
3500.01	633334	Mid	right	5 mm	NR Band n77 DoD	I	Closed	0433M	100	CWSRS	N/A	N/A	N/A	12.5	11.00	N/A	-0.02	1:1	0.335	1.413	0.473	
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 11-62  
NR Band n77 Antenna E/C Hotspot SAR**

MEASUREMENT RESULTS																			
FREQUENCY		Side	Spacing	Mode	Antenna Config	Form Factor	Serial Number	Bandwidth [MHz]	Waveform	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	10 mm	NR Band n77	E	Open	0433M	100	CW/SRS	13.0	12.54	N/A	0.00	1:1	0.018	1.112	0.020	
3750.00	650000	Low	front	10 mm	NR Band n77	E	Open	0433M	100	CW/SRS	13.0	12.54	N/A	-0.14	1:1	0.033	1.112	0.037	
3750.00	650000	Low	top	10 mm	NR Band n77	E	Open	0433M	100	CW/SRS	13.0	12.54	N/A	-0.15	1:1	0.002	1.112	0.002	
3750.00	650000	Low	left	10 mm	NR Band n77	E	Open	0433M	100	CW/SRS	13.0	12.54	N/A	-0.04	1:1	0.056	1.112	0.062	
3500.01	633334	Mid	left	10 mm	NR Band n77 DoD	E	Open	0433M	100	CW/SRS	13.0	12.56	N/A	-0.16	1:1	0.089	1.107	0.099	
3750.00	650000	Low	back	5 mm	NR Band n77	E	Closed	0433M	100	CW/SRS	13.0	12.54	N/A	0.17	1:1	0.037	1.112	0.041	
3750.00	650000	Low	front	5 mm	NR Band n77	E	Closed	0433M	100	CW/SRS	13.0	12.54	N/A	0.20	1:1	0.070	1.112	0.078	
3750.00	650000	Low	top	5 mm	NR Band n77	E	Closed	0433M	100	CW/SRS	13.0	12.54	N/A	0.12	1:1	0.002	1.112	0.002	
3750.00	650000	Low	bottom	5 mm	NR Band n77	E	Closed	0433M	100	CW/SRS	13.0	12.54	N/A	0.18	1:1	0.007	1.112	0.008	
3750.00	650000	Low	left	5 mm	NR Band n77	E	Closed	0433M	100	CW/SRS	13.0	12.54	N/A	-0.09	1:1	0.153	1.112	0.170	
3500.01	633334	Mid	left	5 mm	NR Band n77 DoD	E	Closed	0433M	100	CW/SRS	13.0	12.56	N/A	-0.06	1:1	0.183	1.107	0.203	
3750.00	650000	Low	back	10 mm	NR Band n77	C	Open	0433M	100	CW/SRS	11.5	10.90	N/A	0.11	1:1	0.016	1.148	0.018	
3750.00	650000	Low	front	10 mm	NR Band n77	C	Open	0433M	100	CW/SRS	11.5	10.90	N/A	-0.11	1:1	0.020	1.148	0.023	
3750.00	650000	Low	bottom	10 mm	NR Band n77	C	Open	0433M	100	CW/SRS	11.5	10.90	N/A	-0.17	1:1	0.004	1.148	0.005	
3750.00	650000	Low	left	10 mm	NR Band n77	C	Open	0433M	100	CW/SRS	11.5	10.90	N/A	0.12	1:1	0.051	1.148	0.059	
3500.01	633334	Mid	left	10 mm	NR Band n77 DoD	C	Open	0433M	100	CW/SRS	11.5	9.79	N/A	0.04	1:1	0.038	1.483	0.056	
3750.00	650000	Low	back	5 mm	NR Band n77	C	Closed	0433M	100	CW/SRS	11.5	10.90	N/A	-0.11	1:1	0.053	1.148	0.061	
3750.00	650000	Low	front	5 mm	NR Band n77	C	Closed	0433M	100	CW/SRS	11.5	10.90	N/A	0.20	1:1	0.014	1.148	0.016	
3750.00	650000	Low	top	5 mm	NR Band n77	C	Closed	0433M	100	CW/SRS	11.5	10.90	N/A	-0.21	1:1	0.003	1.148	0.003	
3750.00	650000	Low	bottom	5 mm	NR Band n77	C	Closed	0433M	100	CW/SRS	11.5	10.90	N/A	0.17	1:1	0.020	1.148	0.023	
3750.00	650000	Low	left	5 mm	NR Band n77	C	Closed	0433M	100	CW/SRS	11.5	10.90	N/A	-0.04	1:1	0.190	1.148	0.218	
3500.01	633334	Mid	left	5 mm	NR Band n77 DoD	C	Closed	0433M	100	CW/SRS	11.5	9.79	N/A	-0.12	1:1	0.093	1.483	0.138	
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 11-63  
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]	Maximum Duty Cycle (%)	Duty Cycle (%)	SAR (1g)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot #
MHz	Ch.															(W/kg)			(W/kg)	
2412	1	back	10 mm	802.11b	DSSS	2	Open	0227M	22	1	19.0	18.65	0.03	100.00	98.74	0.081	1.084	1.013	0.089	
2412	1	front	10 mm	802.11b	DSSS	2	Open	0227M	22	1	19.0	18.65	0.14	100.00	98.74	0.117	1.084	1.013	0.128	
2412	1	top	10 mm	802.11b	DSSS	2	Open	0227M	22	1	19.0	18.65	-0.02	100.00	98.74	0.071	1.084	1.013	0.078	
2412	1	right	10 mm	802.11b	DSSS	2	Open	0227M	22	1	19.0	18.65	-0.10	100.00	98.74	0.038	1.084	1.013	0.042	
2412	1	back	5 mm	802.11b	DSSS	2	Closed	0227M	22	1	19.0	18.65	-0.03	100.00	98.74	0.042	1.084	1.013	0.046	
2412	1	front	5 mm	802.11b	DSSS	2	Closed	0227M	22	1	19.0	18.65	0.07	100.00	98.74	0.295	1.084	1.013	0.324	
2412	1	bottom	5 mm	802.11b	DSSS	2	Closed	0227M	22	1	19.0	18.65	0.10	100.00	98.74	0.162	1.084	1.013	0.178	
2412	1	right	5 mm	802.11b	DSSS	2	Closed	0227M	22	1	19.0	18.65	-0.13	100.00	98.74	0.090	1.084	1.013	0.099	
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 11-64  
DTS 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]	Maximum Duty Cycle (%)	Duty Cycle (%)	SAR (1g) (W/kg)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g) (W/kg)	Plot #
MHz	Ch.																					
2462	11	back	10 mm	802.11b	DSSS	MIMO	Open	0227M	22	1	19.0	18.95	19.0	18.87	0.10	100.00	98.90	0.203	1.030	1.011	0.211	
2462	11	front	10 mm	802.11b	DSSS	MIMO	Open	0227M	22	1	19.0	18.95	19.0	18.87	0.03	100.00	98.90	0.195	1.030	1.011	0.203	
2462	11	top	10 mm	802.11b	DSSS	MIMO	Open	0227M	22	1	19.0	18.95	19.0	18.87	0.04	100.00	98.90	0.245	1.030	1.011	0.255	
2462	11	right	10 mm	802.11b	DSSS	MIMO	Open	0227M	22	1	19.0	18.95	19.0	18.87	0.01	100.00	98.90	0.024	1.030	1.011	0.025	
2462	11	left	10 mm	802.11b	DSSS	MIMO	Open	0227M	22	1	19.0	18.95	19.0	18.87	-0.02	100.00	98.90	0.215	1.030	1.011	0.224	
2462	11	back	5 mm	802.11b	DSSS	MIMO	Closed	0227M	22	1	19.0	18.95	19.0	18.87	0.03	100.00	98.90	0.139	1.030	1.011	0.145	
2462	11	front	5 mm	802.11b	DSSS	MIMO	Closed	0227M	22	1	19.0	18.95	19.0	18.87	0.03	100.00	98.90	0.379	1.030	1.011	0.395	
2462	11	bottom	5 mm	802.11b	DSSS	MIMO	Closed	0227M	22	1	19.0	18.95	19.0	18.87	0.07	100.00	98.90	0.153	1.030	1.011	0.159	
2462	11	right	5 mm	802.11b	DSSS	MIMO	Closed	0227M	22	1	19.0	18.95	19.0	18.87	0.09	100.00	98.90	0.146	1.030	1.011	0.152	
2462	11	left	5 mm	802.11b	DSSS	MIMO	Closed	0227M	22	1	19.0	18.95	19.0	18.87	-0.09	100.00	98.90	0.459	1.030	1.011	0.478	A57
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population												Body 1.6 W/kg (mW/g) averaged over 1 gram										

**Table 11-65  
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]	Maximum Duty Cycle (%)	Duty Cycle (%)	SAR (1g) (W/kg)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g) (W/kg)	Plot #
MHz	Ch.																					
5825	165	back	10 mm	802.11n	OFDM	MIMO	Open	0227M	20	13	16.0	15.93	16.0	15.82	-0.09	100.00	98.11	0.189	1.042	1.019	0.201	
5825	165	front	10 mm	802.11n	OFDM	MIMO	Open	0227M	20	13	16.0	15.93	16.0	15.82	0.07	100.00	98.11	0.137	1.042	1.019	0.145	
5825	165	top	10 mm	802.11n	OFDM	MIMO	Open	0227M	20	13	16.0	15.93	16.0	15.82	0.08	100.00	98.11	0.090	1.042	1.019	0.096	
5825	165	right	10 mm	802.11n	OFDM	MIMO	Open	0227M	20	13	16.0	15.93	16.0	15.82	0.03	100.00	98.11	0.094	1.042	1.019	0.100	
5825	165	left	10 mm	802.11n	OFDM	MIMO	Open	0227M	20	13	16.0	15.93	16.0	15.82	-0.01	100.00	98.11	0.176	1.042	1.019	0.187	
5825	165	back	5 mm	802.11n	OFDM	MIMO	Closed	0227M	20	13	16.0	15.93	16.0	15.82	-0.11	100.00	98.11	0.072	1.042	1.019	0.076	
5825	165	front	5 mm	802.11n	OFDM	MIMO	Closed	0227M	20	13	16.0	15.93	16.0	15.82	-0.06	100.00	98.11	0.393	1.042	1.019	0.417	A58
5825	165	bottom	5 mm	802.11n	OFDM	MIMO	Closed	0227M	20	13	16.0	15.93	16.0	15.82	0.09	100.00	98.11	0.248	1.042	1.019	0.263	
5825	165	right	5 mm	802.11n	OFDM	MIMO	Closed	0227M	20	13	16.0	15.93	16.0	15.82	0.08	100.00	98.11	0.335	1.042	1.019	0.356	
5825	165	left	5 mm	802.11n	OFDM	MIMO	Closed	0227M	20	13	16.0	15.93	16.0	15.82	-0.04	100.00	98.11	0.281	1.042	1.019	0.298	
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 19.0 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 16.0 dBm

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**Table 11-66  
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]	Maximum Duty Cycle (%)	Duty Cycle (%)	SAR (1g)	Scaling Factor (Cond Power)	Scaling Factor (Duty Cycle)	Reported SAR (1g)	Plot #
MHz	Ch.														(W/kg)			(W/kg)	
2441	39	back	10 mm	Bluetooth	FHSS	1	Open	0227M	1	16.5	16.40	0.17	78.00	76.85	0.054	1.023	1.015	0.056	
2441	39	front	10 mm	Bluetooth	FHSS	1	Open	0227M	1	16.5	16.40	0.00	78.00	76.85	0.058	1.023	1.015	0.060	
2441	39	top	10 mm	Bluetooth	FHSS	1	Open	0227M	1	16.5	16.40	0.01	78.00	76.85	0.040	1.023	1.015	0.042	
2441	39	left	10 mm	Bluetooth	FHSS	1	Open	0227M	1	16.5	16.40	-0.08	78.00	76.85	0.109	1.023	1.015	0.113	
2440	19	left	10 mm	Bluetooth LE	DSSS	1	Open	0227M	1	17.0	16.42	0.04	53.00	51.33	0.007	1.143	1.033	0.008	
2441	39	back	5 mm	Bluetooth	FHSS	1	Closed	0227M	1	16.5	16.40	-0.06	78.00	76.85	0.050	1.023	1.015	0.052	
2441	39	front	5 mm	Bluetooth	FHSS	1	Closed	0227M	1	16.5	16.40	-0.07	78.00	76.85	0.095	1.023	1.015	0.099	
2441	39	bottom	5 mm	Bluetooth	FHSS	1	Closed	0227M	1	16.5	16.40	0.08	78.00	76.85	0.098	1.023	1.015	0.102	
2441	39	left	5 mm	Bluetooth	FHSS	1	Closed	0227M	1	16.5	16.40	0.11	78.00	76.85	0.196	1.023	1.015	0.204	A59
2440	19	left	5 mm	Bluetooth LE	DSSS	1	Closed	0227M	1	17.0	16.42	-0.02	53.00	51.33	0.011	1.143	1.033	0.013	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population										Body 1.6 W/kg (mW/g) averaged over 1 gram									

Note: 1) Light green entries indicate an additional check on the worst case exposure condition for BT LE that is not fully evaluated.

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# 11.4 Standalone Phablet SAR Data

**Table 11-67  
UMTS Phablet 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 (10g)	Scaling Factor	Reported SAR (10g)	Plot #
MHz	Ch.												(W/kg)		(W/kg)	
1712.40	1312	back	0 mm	UMTS 1750	RMC	A	Open	0346M	22.0	21.01	-0.03	1:1	1.620	1.256	2.035	
1732.40	1412	back	0 mm	UMTS 1750	RMC	A	Open	0346M	22.0	20.57	0.03	1:1	1.500	1.390	2.085	
1752.60	1513	back	0 mm	UMTS 1750	RMC	A	Open	0346M	22.0	20.88	0.02	1:1	1.670	1.294	2.161	A60
1712.40	1312	bottom	0 mm	UMTS 1750	RMC	A	Open	0346M	22.0	21.01	0.04	1:1	1.050	1.256	1.319	
1852.40	9262	back	0 mm	UMTS 1900	RMC	A	Open	1391M	24.0	22.77	0.01	1:1	2.020	1.327	2.681	A61
1880.00	9400	back	0 mm	UMTS 1900	RMC	A	Open	1391M	24.0	23.00	0.02	1:1	2.010	1.259	2.531	
1907.60	9538	back	0 mm	UMTS 1900	RMC	A	Open	1391M	24.0	23.30	0.04	1:1	1.960	1.175	2.303	
1907.60	9538	bottom	0 mm	UMTS 1900	RMC	A	Open	1391M	24.0	23.30	0.04	1:1	1.300	1.175	1.528	
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 11-68  
LTE Band 66 Antenna A (AWS) Phablet SAR**

MEASUREMENT RESULTS																					
FREQUENCY		Side	Spacing	Mode	Antenna Config.	Form Factor	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)		
1720.00	132072	Low	back	0 mm	LTE Band 66 (AWS)	A	Open	1505M	20	QPSK	1	0	22.5	21.16	0	-0.04	1:1	1.100	1.361	1.497	
1745.00	132322	Mid	back	0 mm	LTE Band 66 (AWS)	A	Open	1505M	20	QPSK	1	99	22.5	20.90	0	-0.09	1:1	1.370	1.445	1.980	
1770.00	132572	High	back	0 mm	LTE Band 66 (AWS)	A	Open	1505M	20	QPSK	1	99	22.5	21.20	0	0.00	1:1	1.410	1.349	1.902	
1770.00	132572	High	back	0 mm	LTE Band 66 (AWS)	A	Open	1505M	20	QPSK	50	50	22.5	21.27	0	-0.03	1:1	1.430	1.327	1.898	
1770.00	132572	High	bottom	0 mm	LTE Band 66 (AWS)	A	Open	1625M	20	QPSK	1	99	22.5	21.20	0	-0.01	1:1	1.190	1.349	1.605	
1770.00	132572	High	bottom	0 mm	LTE Band 66 (AWS)	A	Open	1625M	20	QPSK	50	50	22.5	21.27	0	0.02	1:1	1.270	1.327	1.685	
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 11-69  
LTE Band 66 Antenna I (AWS) Phablet SAR**

MEASUREMENT RESULTS																					
FREQUENCY		Side	Spacing	Mode	Antenna Config.	Form Factor	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)		
1720.00	132072	Low	right	0 mm	LTE Band 66 (AWS)	I	Open	0317M	20	QPSK	1	0	22.0	21.11	0	0.00	1:1	2.350	1.227	2.883	A62
1745.00	132322	Mid	right	0 mm	LTE Band 66 (AWS)	I	Open	0317M	20	QPSK	1	99	22.0	20.73	0	0.01	1:1	2.070	1.340	2.774	
1770.00	132572	High	right	0 mm	LTE Band 66 (AWS)	I	Open	0317M	20	QPSK	1	50	22.0	20.75	0	0.06	1:1	2.250	1.334	3.002	
1720.00	132072	Low	right	0 mm	LTE Band 66 (AWS)	I	Open	0317M	20	QPSK	50	0	22.0	21.10	0	-0.02	1:1	2.270	1.230	2.792	
1745.00	132322	Mid	right	0 mm	LTE Band 66 (AWS)	I	Open	0317M	20	QPSK	50	0	22.0	20.67	0	0.00	1:1	2.100	1.358	2.852	
1770.00	132572	High	right	0 mm	LTE Band 66 (AWS)	I	Open	0317M	20	QPSK	50	50	22.0	20.80	0	-0.01	1:1	2.280	1.318	3.005	
1720.00	132072	Low	right	0 mm	LTE Band 66 (AWS)	I	Open	0317M	20	QPSK	100	0	22.0	21.00	0	-0.01	1:1	2.230	1.259	2.808	
1720.00	132072	Low	right	0 mm	LTE Band 66 (AWS)	I	Open	0317M	20	QPSK	1	0	22.0	21.11	0	0.01	1:1	2.270	1.227	2.785	
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.

**Table 11-70  
LTE Band 25 (PCS) Antenna A Phablet SAR**

MEASUREMENT RESULTS																					
FREQUENCY		Side	Spacing	Mode	Antenna Config.	Form Factor	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	0 mm	LTE Band 25 (PCS)	A	Open	0354M	20	QPSK	1	50	23.0	21.46	0	0.03	1:1	1.250	1.426	1.783	
1882.50	26365	Mid	back	0 mm	LTE Band 25 (PCS)	A	Open	0354M	20	QPSK	1	99	23.0	21.62	0	0.01	1:1	1.350	1.374	1.855	
1905.00	26590	High	back	0 mm	LTE Band 25 (PCS)	A	Open	0354M	20	QPSK	1	99	23.0	21.98	0	0.06	1:1	1.450	1.265	1.834	
1905.00	26590	High	back	0 mm	LTE Band 25 (PCS)	A	Open	0354M	20	QPSK	50	50	23.0	22.04	0	0.02	1:1	1.450	1.247	1.808	
1905.00	26590	High	bottom	0 mm	LTE Band 25 (PCS)	A	Open	0354M	20	QPSK	1	99	23.0	21.98	0	0.01	1:1	0.922	1.265	1.166	
1905.00	26590	High	bottom	0 mm	LTE Band 25 (PCS)	A	Open	0354M	20	QPSK	50	50	23.0	22.04	0	0.03	1:1	0.893	1.247	1.114	
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 11-71**  
**LTE Band 25 (PCS) Antenna I Phablet SAR**

MEASUREMENT RESULTS																					
FREQUENCY		Side	Spacing	Mode	Antenna Config.	Form Factor	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	0 mm	LTE Band 25 (PCS)	I	Open	0415M	20	QPSK	1	0	22.0	20.25	0	0.02	1:1	1.350	1.496	2.020	
1882.50	26365	Mid	back	0 mm	LTE Band 25 (PCS)	I	Open	0415M	20	QPSK	1	99	22.0	20.54	0	0.02	1:1	1.440	1.400	2.016	
1905.00	26590	High	back	0 mm	LTE Band 25 (PCS)	I	Open	0415M	20	QPSK	1	99	22.0	21.02	0	0.02	1:1	1.630	1.253	2.042	
1860.00	26140	Low	back	0 mm	LTE Band 25 (PCS)	I	Open	0415M	20	QPSK	50	25	22.0	20.37	0	0.00	1:1	1.430	1.455	2.081	
1882.50	26365	Mid	back	0 mm	LTE Band 25 (PCS)	I	Open	0415M	20	QPSK	50	50	22.0	20.34	0	0.01	1:1	1.450	1.466	2.126	
1905.00	26590	High	back	0 mm	LTE Band 25 (PCS)	I	Open	0415M	20	QPSK	50	50	22.0	20.73	0	-0.04	1:1	1.640	1.340	2.198	
1905.00	26590	High	back	0 mm	LTE Band 25 (PCS)	I	Open	0415M	20	QPSK	100	0	22.0	20.60	0	0.01	1:1	1.630	1.380	2.249	
1860.00	26140	Low	front	0 mm	LTE Band 25 (PCS)	I	Open	0415M	20	QPSK	1	0	22.0	20.25	0	-0.02	1:1	1.640	1.496	2.453	
1882.50	26365	Mid	front	0 mm	LTE Band 25 (PCS)	I	Open	0415M	20	QPSK	1	99	22.0	20.54	0	-0.06	1:1	1.630	1.400	2.282	
1905.00	26590	High	front	0 mm	LTE Band 25 (PCS)	I	Open	0415M	20	QPSK	1	99	22.0	21.02	0	-0.01	1:1	1.800	1.253	2.255	
1860.00	26140	Low	front	0 mm	LTE Band 25 (PCS)	I	Open	0415M	20	QPSK	50	25	22.0	20.37	0	-0.01	1:1	1.680	1.455	2.444	
1882.50	26365	Mid	front	0 mm	LTE Band 25 (PCS)	I	Open	0415M	20	QPSK	50	50	22.0	20.34	0	0.01	1:1	1.640	1.466	2.404	
1905.00	26590	High	front	0 mm	LTE Band 25 (PCS)	I	Open	0415M	20	QPSK	50	50	22.0	20.73	0	0.00	1:1	1.800	1.340	2.412	
1905.00	26590	High	front	0 mm	LTE Band 25 (PCS)	I	Open	0415M	20	QPSK	100	0	22.0	20.60	0	0.00	1:1	1.790	1.380	2.470	
1860.00	26140	Low	right	0 mm	LTE Band 25 (PCS)	I	Open	0415M	20	QPSK	1	0	22.0	20.25	0	-0.01	1:1	1.850	1.496	2.768	
1882.50	26365	Mid	right	0 mm	LTE Band 25 (PCS)	I	Open	0415M	20	QPSK	1	99	22.0	20.54	0	0.00	1:1	1.650	1.400	2.310	
1905.00	26590	High	right	0 mm	LTE Band 25 (PCS)	I	Open	0415M	20	QPSK	1	99	22.0	21.02	0	0.02	1:1	1.840	1.253	2.306	
1860.00	26140	Low	right	0 mm	LTE Band 25 (PCS)	I	Open	0415M	20	QPSK	50	25	22.0	20.37	0	-0.01	1:1	1.920	1.455	2.794	A63
1882.50	26365	Mid	right	0 mm	LTE Band 25 (PCS)	I	Open	0415M	20	QPSK	50	50	22.0	20.34	0	0.02	1:1	1.700	1.466	2.492	
1905.00	26590	High	right	0 mm	LTE Band 25 (PCS)	I	Open	0415M	20	QPSK	50	50	22.0	20.73	0	0.00	1:1	1.840	1.340	2.466	
1905.00	26590	High	right	0 mm	LTE Band 25 (PCS)	I	Open	0415M	20	QPSK	100	0	22.0	20.60	0	0.02	1:1	1.840	1.380	2.539	
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 11-72**  
**LTE Band 41 Antenna I Phablet SAR**

MEASUREMENT RESULTS																						
Power Class	FREQUENCY		Side	Spacing	Mode	Antenna Config.	Form Factor	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)		
Power Class 3	2506.00	39750	Low	right	0 mm	LTE Band 41	I	Open	0317M	20	QPSK	1	99	23.5	22.32	0	-0.07	1:1.58	1.360	1.312	1.784	
Power Class 3	2549.50	40185	Low-Mid	right	0 mm	LTE Band 41	I	Open	0317M	20	QPSK	1	99	23.5	22.54	0	0.07	1:1.58	1.410	1.247	1.758	
Power Class 3	2593.00	40620	Mid	right	0 mm	LTE Band 41	I	Open	0317M	20	QPSK	1	0	23.5	22.59	0	-0.05	1:1.58	1.450	1.233	1.788	
Power Class 3	2636.50	41055	Mid-High	right	0 mm	LTE Band 41	I	Open	0317M	20	QPSK	1	99	23.5	22.56	0	-0.10	1:1.58	1.260	1.242	1.565	
Power Class 3	2680.00	41490	High	right	0 mm	LTE Band 41	I	Open	0317M	20	QPSK	1	50	23.5	22.06	0	-0.06	1:1.58	1.070	1.393	1.491	
Power Class 3	2506.00	39750	Low	right	0 mm	LTE Band 41	I	Open	0317M	20	QPSK	50	50	23.5	22.31	0	-0.12	1:1.58	1.400	1.315	1.841	
Power Class 3	2549.50	40185	Low-Mid	right	0 mm	LTE Band 41	I	Open	0317M	20	QPSK	50	25	23.5	22.57	0	0.01	1:1.58	1.450	1.239	1.797	
Power Class 3	2593.00	40620	Mid	right	0 mm	LTE Band 41	I	Open	0317M	20	QPSK	50	25	23.5	22.73	0	0.10	1:1.58	1.480	1.194	1.767	A64
Power Class 3	2636.50	41055	Mid-High	right	0 mm	LTE Band 41	I	Open	0317M	20	QPSK	50	0	23.5	22.58	0	-0.04	1:1.58	1.350	1.236	1.669	
Power Class 3	2680.00	41490	High	right	0 mm	LTE Band 41	I	Open	0317M	20	QPSK	50	25	23.5	22.14	0	0.01	1:1.58	1.090	1.368	1.491	
Power Class 3	2593.00	40620	Mid	right	0 mm	LTE Band 41	I	Open	0317M	20	QPSK	100	0	23.5	22.58	0	0.00	1:1.58	1.460	1.236	1.805	
Power Class 2	2506.00	39750	Low	right	0 mm	LTE Band 41	I	Open	0317M	20	QPSK	50	50	25.1	23.81	0	-0.02	1:2.31	1.390	1.346	1.871	
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 11-73  
NR Band n66 Antenna I Phablet 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 (10g) (W/kg)	Scaling Factor	Reported SAR (10g) (W/kg)	Plot #	
MHz	Ch.																					
1745.00	349000	Mid	right	0 mm	NR Band n66	I	Open	0353M	40	DFT-S-OFDM	QPSK	1	1	22.0	21.46	0	-0.03	1:1	1.980	1.132	2.241	
1745.00	349000	Mid	right	0 mm	NR Band n66	I	Open	0353M	40	DFT-S-OFDM	QPSK	108	0	22.0	21.35	0	0.02	1:1	1.980	1.161	2.239	
1745.00	349000	Mid	right	0 mm	NR Band n66	I	Open	0353M	40	DFT-S-OFDM	QPSK	216	0	22.0	21.17	0	-0.01	1:1	1.990	1.211	2.410	
1745.00	349000	Mid	right	0 mm	NR Band n66	I	Open	0353M	40	CP-OFDM	QPSK	1	1	22.0	21.60	0	0.06	1:1	2.070	1.096	2.269	A65
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 11-74  
NR Band n25 Antenna A Phablet 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 (10g) (W/kg)	Scaling Factor	Reported SAR (10g) (W/kg)	Plot #	
MHz	Ch.																					
1882.50	376500	Mid	back	0 mm	NR Band n25	A	Open	0320M	40	DFT-S-OFDM	QPSK	1	214	23.0	22.13	0	0.02	1:1	1.110	1.222	1.356	
1882.50	376500	Mid	back	0 mm	NR Band n25	A	Open	0320M	40	DFT-S-OFDM	QPSK	108	108	23.0	22.06	0	0.01	1:1	1.050	1.242	1.304	
1882.50	376500	Mid	bottom	0 mm	NR Band n25	A	Open	0320M	40	DFT-S-OFDM	QPSK	1	214	23.0	22.13	0	0.10	1:1	1.650	1.222	2.016	
1882.50	376500	Mid	bottom	0 mm	NR Band n25	A	Open	0320M	40	DFT-S-OFDM	QPSK	108	108	23.0	22.06	0	0.01	1:1	1.690	1.242	2.099	
1882.50	376500	Mid	bottom	0 mm	NR Band n25	A	Open	0320M	40	DFT-S-OFDM	QPSK	216	0	23.0	22.02	0	0.01	1:1	1.710	1.253	2.143	
1882.50	376500	Mid	bottom	0 mm	NR Band n25	A	Open	0320M	40	CP-OFDM	QPSK	1	1	23.0	21.92	0	0.02	1:1	1.760	1.282	2.256	
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population													Phablet 4.0 W/kg (mW/g) averaged over 10 grams									

**Table 11-75  
NR Band n25 Antenna I Phablet 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 (10g) (W/kg)	Scaling Factor	Reported SAR (10g) (W/kg)	Plot #	
MHz	Ch.																					
1882.50	376500	Mid	back	0 mm	NR Band n25	I	Open	0355M	40	DFT-S-OFDM	QPSK	1	214	22.0	21.58	0	-0.01	1:1	1.810	1.102	1.995	
1882.50	376500	Mid	back	0 mm	NR Band n25	I	Open	0355M	40	DFT-S-OFDM	QPSK	108	108	22.0	21.38	0	0.05	1:1	1.730	1.153	1.995	
1882.50	376500	Mid	back	0 mm	NR Band n25	I	Open	0355M	40	DFT-S-OFDM	QPSK	216	0	22.0	21.31	0	0.02	1:1	1.790	1.172	2.098	
1882.50	376500	Mid	front	0 mm	NR Band n25	I	Open	0353M	40	DFT-S-OFDM	QPSK	1	214	22.0	21.58	0	-0.16	1:1	1.870	1.102	2.061	
1882.50	376500	Mid	front	0 mm	NR Band n25	I	Open	0353M	40	DFT-S-OFDM	QPSK	108	108	22.0	21.38	0	0.00	1:1	1.680	1.153	1.937	
1882.50	376500	Mid	front	0 mm	NR Band n25	I	Open	0353M	40	DFT-S-OFDM	QPSK	216	0	22.0	21.31	0	0.02	1:1	1.730	1.172	2.028	
1882.50	376500	Mid	right	0 mm	NR Band n25	I	Open	1505M	40	DFT-S-OFDM	QPSK	1	214	22.0	21.58	0	-0.01	1:1	2.290	1.102	2.524	
1882.50	376500	Mid	right	0 mm	NR Band n25	I	Open	1505M	40	DFT-S-OFDM	QPSK	108	108	22.0	21.38	0	0.03	1:1	2.440	1.153	2.813	
1882.50	376500	Mid	right	0 mm	NR Band n25	I	Open	1505M	40	DFT-S-OFDM	QPSK	216	0	22.0	21.31	0	0.02	1:1	2.580	1.172	3.024	
1882.50	376500	Mid	right	0 mm	NR Band n25	I	Open	1505M	40	CP-OFDM	QPSK	1	1	22.0	21.54	0	-0.03	1:1	2.720	1.112	3.025	A66
1882.50	376500	Mid	right	0 mm	NR Band n25	I	Open	1505M	40	CP-OFDM	QPSK	1	1	22.0	21.54	0	0.01	1:1	2.560	1.112	2.847	
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 11-76  
NR Band n41 Antenna I/B Phablet 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 (10g) [W/kg]	Scaling Factor	Reported SAR (10g) [W/kg]	Plot #	
MHz	Ch.																					
2592.99	518598	Mid	back	0 mm	NR Band n41	I	Open	0433M	100	DFT-S-OFDM	QPSK	1	137	21.5	20.57	0	0.01	1:1	1.270	1.239	1.574	
2592.99	518598	Mid	back	0 mm	NR Band n41	I	Open	0433M	100	DFT-S-OFDM	QPSK	135	69	21.5	20.50	0	0.01	1:1	1.260	1.259	1.586	
2592.99	518598	Mid	back	0 mm	NR Band n41	I	Open	0433M	100	DFT-S-OFDM	QPSK	270	0	21.5	20.42	0	-0.02	1:1	1.240	1.282	1.590	
2592.99	518598	Mid	front	0 mm	NR Band n41	I	Open	0433M	100	DFT-S-OFDM	QPSK	1	137	21.5	20.57	0	0.03	1:1	1.610	1.239	1.995	A67
2592.99	518598	Mid	front	0 mm	NR Band n41	I	Open	0433M	100	DFT-S-OFDM	QPSK	135	69	21.5	20.50	0	-0.05	1:1	1.580	1.259	1.989	
2592.99	518598	Mid	front	0 mm	NR Band n41	I	Open	0433M	100	DFT-S-OFDM	QPSK	270	0	21.5	20.42	0	0.04	1:1	1.580	1.282	2.026	
2592.99	518598	Mid	front	0 mm	NR Band n41	I	Open	0433M	100	CP-OFDM	QPSK	1	1	21.5	20.39	0	0.01	1:1	1.570	1.291	2.027	
2592.99	518598	Mid	top	0 mm	NR Band n41	I	Open	0154G	100	DFT-S-OFDM	QPSK	1	137	21.5	20.57	0	0.01	1:1	0.228	1.239	0.282	
2592.99	518598	Mid	right	0 mm	NR Band n41	I	Open	0433M	100	DFT-S-OFDM	QPSK	1	137	21.5	20.57	0	0.02	1:1	1.260	1.239	1.561	
2592.99	518598	Mid	right	0 mm	NR Band n41	I	Open	0433M	100	DFT-S-OFDM	QPSK	135	69	21.5	20.50	0	0.05	1:1	1.280	1.259	1.612	
2592.99	518598	Mid	right	0 mm	NR Band n41	I	Open	0433M	100	DFT-S-OFDM	QPSK	270	0	21.5	20.42	0	0.05	1:1	1.300	1.282	1.667	
2592.99	518598	Mid	back	0 mm	NR Band n41	B	Open	0325M	100	CW/SRS	N/A	N/A	N/A	21.0	20.27	N/A	-0.01	1:1	0.902	1.183	1.067	
2592.99	518598	Mid	front	0 mm	NR Band n41	B	Open	0325M	100	CW/SRS	N/A	N/A	N/A	21.0	20.27	N/A	0.01	1:1	0.524	1.183	0.620	
2592.99	518598	Mid	bottom	0 mm	NR Band n41	B	Open	0433M	100	CW/SRS	N/A	N/A	N/A	21.0	20.27	N/A	-0.01	1:1	0.585	1.183	0.692	
2592.99	518598	Mid	left	0 mm	NR Band n41	B	Open	0325M	100	CW/SRS	N/A	N/A	N/A	21.0	20.27	N/A	-0.17	1:1	0.308	1.183	0.364	
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 11-77  
NR Band n41 Antenna F Phablet SAR**

MEASUREMENT RESULTS																					
FREQUENCY		Side	Spacing	Mode	Antenna Config	Form Factor	Bandwidth [MHz]	Waveform	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Duty Cycle	SAR (10g) [W/kg]	Scaling Factor	Reported SAR (10g) [W/kg]	Reported SAR (10g) with Multi-Tx Factor Limit: 4.0 (W/kg)	Plot #					
MHz	Ch.																				
2592.99	518598	Mid	back	0 mm	NR Band n41	F	Open	100	CW/SRS	6.0	5.22	1:1	0.265	1.197	0.317	0.317					
2592.99	518598	Mid	front	0 mm	NR Band n41	F	Open	100	CW/SRS	6.0	5.22	1:1	0.605	1.197	0.724	0.724					
2592.99	518598	Mid	top	0 mm	NR Band n41	F	Open	100	CW/SRS	6.0	5.22	1:1	0.128	1.197	0.153	0.153					
2592.99	518598	Mid	left	0 mm	NR Band n41	F	Open	100	CW/SRS	6.0	5.22	1:1	0.892	1.197	1.068	1.068					
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 11-78  
NR Band n77 Antenna F Phablet 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 (10g) [W/kg]	Scaling Factor	Reported SAR (10g) [W/kg]	Plot #	
MHz	Ch.																					
3750.00	650000	Low	back	0 mm	NR Band n77	F	Open	0433M	100	DFT-S-OFDM	QPSK	1	271	17.5	17.49	0	0.00	1:1	0.785	1.002	0.791	
3750.00	650000	Low	back	0 mm	NR Band n77	F	Open	0433M	100	DFT-S-OFDM	QPSK	135	138	17.5	17.33	0	-0.03	1:1	0.833	1.040	0.866	
3750.00	650000	Low	left	0 mm	NR Band n77	F	Open	0433M	100	DFT-S-OFDM	QPSK	1	271	17.5	17.49	0	-0.04	1:1	1.360	1.002	1.363	
3930.00	662000	High	left	0 mm	NR Band n77	F	Open	0433M	100	DFT-S-OFDM	QPSK	1	137	17.5	16.62	0	-0.03	1:1	1.080	1.225	1.323	
3750.00	650000	Low	left	0 mm	NR Band n77	F	Open	0433M	100	DFT-S-OFDM	QPSK	135	138	17.5	17.33	0	-0.02	1:1	1.330	1.040	1.383	
3930.00	662000	High	left	0 mm	NR Band n77	F	Open	0433M	100	DFT-S-OFDM	QPSK	135	69	17.5	16.56	0	0.05	1:1	1.040	1.242	1.292	
3750.00	650000	Low	left	0 mm	NR Band n77	F	Open	0433M	100	DFT-S-OFDM	QPSK	270	0	17.5	17.18	0	-0.04	1:1	1.290	1.076	1.388	
3750.00	650000	Low	left	0 mm	NR Band n77	F	Open	0433M	100	CP-OFDM	QPSK	1	1	17.5	16.77	0	-0.21	1:1	1.100	1.183	1.301	
3500.01	633334	Mid	left	0 mm	NR Band n77 DoD	F	Open	0433M	100	DFT-S-OFDM	QPSK	1	271	17.5	16.61	0	-0.06	1:1	1.550	1.256	1.947	A68
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 11-79  
WLAN MIMO Phablet 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]	Maximum Duty Cycle (%)	Duty Cycle (%)	SAR (10g) (W/kg)	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Reported SAR (10g) (W/kg)	Plot #
MHz	Ch.																					
5260	52	back	0 mm	802.11n	OFDM	MIMO	Open	0227M	20	13	16.0	15.72	16.0	15.68	0.04	100.00	98.11	0.448	1.076	1.019	0.491	
5260	52	front	0 mm	802.11n	OFDM	MIMO	Open	0227M	20	13	16.0	15.72	16.0	15.68	-0.01	100.00	98.11	0.442	1.076	1.019	0.485	
5260	52	top	0 mm	802.11n	OFDM	MIMO	Open	0227M	20	13	16.0	15.72	16.0	15.68	0.08	100.00	98.11	0.216	1.076	1.019	0.237	
5260	52	right	0 mm	802.11n	OFDM	MIMO	Open	0227M	20	13	16.0	15.72	16.0	15.68	0.07	100.00	98.11	0.248	1.076	1.019	0.272	
5260	52	left	0 mm	802.11n	OFDM	MIMO	Open	0227M	20	13	16.0	15.72	16.0	15.68	-0.01	100.00	98.11	0.586	1.076	1.019	0.643	
5720	144	back	0 mm	802.11n	OFDM	MIMO	Open	0227M	20	13	16.0	15.69	16.0	15.86	0.10	100.00	98.11	0.844	1.074	1.019	0.924	A69
5720	144	front	0 mm	802.11n	OFDM	MIMO	Open	0227M	20	13	16.0	15.69	16.0	15.86	0.00	100.00	98.11	0.611	1.074	1.019	0.669	
5720	144	top	0 mm	802.11n	OFDM	MIMO	Open	0227M	20	13	16.0	15.69	16.0	15.86	-0.02	100.00	98.11	0.433	1.074	1.019	0.474	
5720	144	right	0 mm	802.11n	OFDM	MIMO	Open	0227M	20	13	16.0	15.69	16.0	15.86	0.00	100.00	98.11	0.467	1.074	1.019	0.511	
5720	144	left	0 mm	802.11n	OFDM	MIMO	Open	0227M	20	13	16.0	15.69	16.0	15.86	0.04	100.00	98.11	0.738	1.074	1.019	0.808	
5845	169	back	0 mm	802.11n	OFDM	MIMO	Open	0227M	20	13	16.0	15.81	16.0	15.78	-0.02	100.00	98.11	0.460	1.052	1.019	0.493	
5845	169	front	0 mm	802.11n	OFDM	MIMO	Open	0227M	20	13	16.0	15.81	16.0	15.78	0.01	100.00	98.11	0.602	1.052	1.019	0.645	
5845	169	top	0 mm	802.11n	OFDM	MIMO	Open	0227M	20	13	16.0	15.81	16.0	15.78	0.05	100.00	98.11	0.313	1.052	1.019	0.336	
5845	169	right	0 mm	802.11n	OFDM	MIMO	Open	0227M	20	13	16.0	15.81	16.0	15.78	-0.12	100.00	98.11	0.322	1.052	1.019	0.345	
5845	169	left	0 mm	802.11n	OFDM	MIMO	Open	0227M	20	13	16.0	15.81	16.0	15.78	0.02	100.00	98.11	0.705	1.052	1.019	0.756	
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 19.0 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 16.0 dBm.

**Table 11-80  
DSS SISO Phablet SAR**

MEASUREMENT RESULTS																			
FREQUENCY		Side	Test Position	Mode	Service	Antenna Config.	Form Factor	Device Serial Number	Data Rate (Mbps)	Maximum Allowed Power [dBm]	Conducted Power [dBm]	Power Drift	Maximum Duty Cycle (%)	Duty Cycle (%)	SAR (10g) (W/kg)	Scaling Factor (Cond Power)	Scaling Factor (Duty Cycle)	Reported SAR (10g) (W/kg)	Plot #
MHz	Ch.																		
2441	39	back	0 mm	Bluetooth	FHSS	2	Open	0227M	1	17.0	16.74	0.02	78.00	76.90	0.343	1.062	1.014	0.369	
2441	39	front	0 mm	Bluetooth	FHSS	2	Open	0227M	1	17.0	16.74	0.00	78.00	76.90	0.591	1.062	1.014	0.636	A70
2402	0	front	0 mm	Bluetooth LE	DSSS	2	Open	0227M	1	18.5	18.29	-0.06	78.00	76.90	0.023	1.050	1.014	0.024	
2441	39	top	0 mm	Bluetooth	FHSS	2	Open	0227M	1	17.0	16.74	-0.05	78.00	76.90	0.473	1.062	1.014	0.509	
2441	39	right	0 mm	Bluetooth	FHSS	2	Open	0227M	1	17.0	16.74	-0.04	78.00	76.90	0.082	1.062	1.014	0.088	
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: 1) Light green entries indicate an additional check on the worst case exposure condition for BT LE that is not fully evaluated.

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**Table 11-81  
NFC Phablet SAR**

<b>MEASUREMENT RESULTS</b>											
FREQUENCY		Side	Test Position	Mode	Type	Antenna Config.	Form Factor	Device Serial Number	Power Drift	SAR (10g)	Plot #
MHz	Ch.									(W/kg)	
13.56	N/A	back	0 mm	NFC	B	NFC	Open	0178M	-0.09	<b>0.012</b>	A71
13.56	N/A	front	0 mm	NFC	B	NFC	Open	0178M	0.10	0.000	
13.56	N/A	bottom	0 mm	NFC	B	NFC	Open	0178M	-0.13	0.000	
13.56	N/A	right	0 mm	NFC	B	NFC	Open	0178M	0.14	0.000	
13.56	N/A	left	0 mm	NFC	B	NFC	Open	0178M	-0.18	0.000	
<b>ANSI / IEEE C95.1 1992 - SAFETY LIMIT</b>									<b>Phablet</b>		
<b>Spatial Peak</b>									<b>4.0 W/kg (mW/g)</b>		
<b>Uncontrolled Exposure/General Population</b>									averaged over 10 grams		

### 11.5 SAR Test Notes

General Notes:

1. The test data reported are the worst-case SAR values according to test procedures specified in IEEE 1528-2013, and FCC KDB Publication 447498 D01v06.
2. Batteries are fully charged at the beginning of the SAR measurements.
3. Liquid tissue depth was at least 15.0 cm for all frequencies.
4. The manufacturer has confirmed that the device(s) tested have the same physical, mechanical and thermal characteristics and are within operational tolerances expected for production units.
5. SAR results were scaled to the maximum allowed power to demonstrate compliance per FCC KDB Publication 447498 D01v06.
6. Device was tested using a fixed spacing for body-worn accessory testing. A separation distance of 15 mm was considered because the manufacturer has determined that there will be body-worn accessories available in the marketplace for users to support this separation distance.
7. Per FCC KDB Publication 648474 D04v01r03, body-worn SAR was evaluated without a headset connected to the device. Since the standalone reported body-worn SAR was  $\leq 1.2$  W/kg, no additional body-worn SAR evaluations using a headset cable were required.
8. Per FCC KDB 865664 D01v01r04, variability SAR tests were performed when the measured SAR results for a frequency band were greater than or equal to 0.8 W/kg. Repeated SAR measurements are highlighted in the tables above for clarity. Please see Section 12 for variability analysis.
9. During SAR Testing for the Wireless Router conditions per FCC KDB Publication 941225 D06v02r01, the actual Portable Hotspot operation (with actual simultaneous transmission of a transmitter with WIFI) was not activated (See Section 6.7 for more details).
10. Per FCC KDB Publication 648474 D04v01r03, this device is considered a "phablet" 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.
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 WWAN/WLAN/BT operations to control and manage transmitting power in real time to ensure RF Exposure compliance. Per FCC Guidance, compliance for

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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  $\leq 25$  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 D01v06, if the reported (scaled) SAR measured at the highest output power channel for each test configuration is  $\leq 0.8$  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 D01v06, if the reported (scaled) SAR measured at the highest output power channel for each test configuration is  $\leq 0.8$  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 D01v06, when the reported 1g SAR measured at the highest output power channel in a given a test configuration was  $> 0.6$  W/kg for LTE B41/48, testing at the other channels was required for such test configurations.
5. TDD LTE was tested per the guidance provided in FCC KDB Publication 941225 D05v02r04. Testing was performed using UL-DL configuration 0 with 6 UL subframes and 2 S subframes using extended cyclic prefix only and special subframe configuration 6. SAR tests were performed at maximum output power and worst-case transmission duty factor in extended cyclic prefix. Per 3GPP 36.211 Section 4, the duty factor for special subframe configuration 6 using extended cyclic prefix is 0.633.
6. Per KDB Publication 941225 D05Av01r02, SAR for downlink only LTE CA operations was not needed since the maximum average output power in LTE CA mode was not  $>0.25$  dB higher than the maximum output power when downlink carrier aggregation was inactive.
7. This device supports Power Class 2 and Power Class 3 operations for LTE Band 41. The highest available duty cycle for Power Class 2 operations is 43.3 % using UL-DL configuration 1. Per FCC Guidance, all SAR tests were performed using Power Class 3. SAR with power class 2 at the available duty factor was additionally performed for the power class 3 configuration with the highest SAR configuration for each exposure conditions. Please see Section 13 for linearity results.

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8. Simultaneous transmission analysis for inter-band ULCA operations is addressed in the Part 2 Test Report (Serial Number can be found in the bibliography)

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 D01v06, 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 D01v06, when the reported NR Band n41 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 and n77 slot configuration is synchronized using maximum duty cycle of 100%. SAR testing was performed using FTM mode with a 100% duty cycle applied to match final duty cycle.
10. Per FCC Guidance, C-Band for NR n77 (3705 – 3975 MHz) was fully tested according to FCC procedures. For each exposure condition and antenna, the worst-case position was additionally evaluated for the NR n77 DoD (3455.01 – 3544.98 MHz).

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  $\leq 0.4$  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  $\leq 0.8$  W/kg or all test positions are measured.
2. Justification for test configurations for WLAN per KDB Publication 248227 D01v02r02 for 2.4 GHz WIFI single transmission chain operations, the highest measured maximum output power channel for DSSS was selected for SAR measurement. SAR for OFDM modes (2.4 GHz 802.11g/n/ax) was not required due to the maximum allowed powers and the highest reported DSSS SAR. See Section 8.6.5 for more information.
3. Justification for test configurations for WLAN per KDB Publication 248227 D01v02r02 for 5 GHz WIFI operations, the initial test configuration was selected according to the transmission mode with the highest maximum allowed powers. Other transmission modes were not investigated since the highest reported SAR for initial test configuration adjusted by the ratio of maximum output powers is less than 1.2 W/kg for 1g evaluations. See Section 8.6.6 for more information.
4. Per KDB Publication 248227 D01v02r02, SAR for MIMO was evaluated by following the simultaneous SAR provisions from KDB Publication 447498 D01v06 by either evaluating the sum of the 1g SAR values of each antenna transmitting independently or making a SAR measurement with both antennas transmitting simultaneously. Please see Multi-Tx and Antenna SAR Consideration Appendix for complete analysis.
5. When the maximum reported 1g averaged SAR is  $\leq 0.8$  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  $\leq 1.20$  W/kg for 1g evaluations or all test channels were measured.

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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 78% transmission duty factor for Bluetooth and 86% transmission duty factor for Bluetooth LE 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.
3. The highest frame average power configurations for both Bluetooth and Bluetooth LE were evaluated for SAR. The worst case configuration was used for the remaining test positions as the most conservative scenario.

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## 12 SAR MEASUREMENT VARIABILITY

### 12.1 Measurement Variability

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

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

- 1) When the original highest measured SAR is  $\geq 0.80$  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  $\geq 1.45$  W/kg ( $-10\%$  from the 1g SAR limit).
- 3) A third repeated measurement was performed only if the original, first or second repeated measurement was  $\geq 1.5$  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	# of Time Slots	Data Rate (Mbps)	Side	Test Position	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)	
5825	5865.00	173	802.11n, 20 MHz Bandwidth	OFDM	NA	13	Left	Cheek	0.857	0.821	1.04	N/A	N/A	N/A	N/A
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 12-2  
Phablet SAR Measurement Variability Results**

PHABLET VARIABILITY RESULTS															
Band	FREQUENCY		Mode	Service	Side	Spacing	Antenna Config	Cover Type	Measured SAR (10g)	1st Repeated SAR (10g)	Ratio	2nd Repeated SAR (10g)	Ratio	3rd Repeated SAR (10g)	Ratio
	MHz	Ch.							(W/kg)	(W/kg)		(W/kg)		(W/kg)	
1750	1720.00	132072	LTE Band 66 (AWS), 20 MHz Bandwidth	QPSK, 1 RB, 0 RB Offset	right	0 mm	I	Open	2.350	2.270	1.04	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							

**Table 12-3  
Phablet SAR Measurement Variability Results**

PHABLET VARIABILITY RESULTS															
Band	FREQUENCY		Mode	Service	Side	Spacing	Antenna Config	Form Factor	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)	
1900	1882.50	376500	NR Band n25, 40 MHz Bandwidth	CP-OFDM, QPSK, 1 RB, 1 RB Offset	right	0 mm	I	Open	2.720	2.560	1.06	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							

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## 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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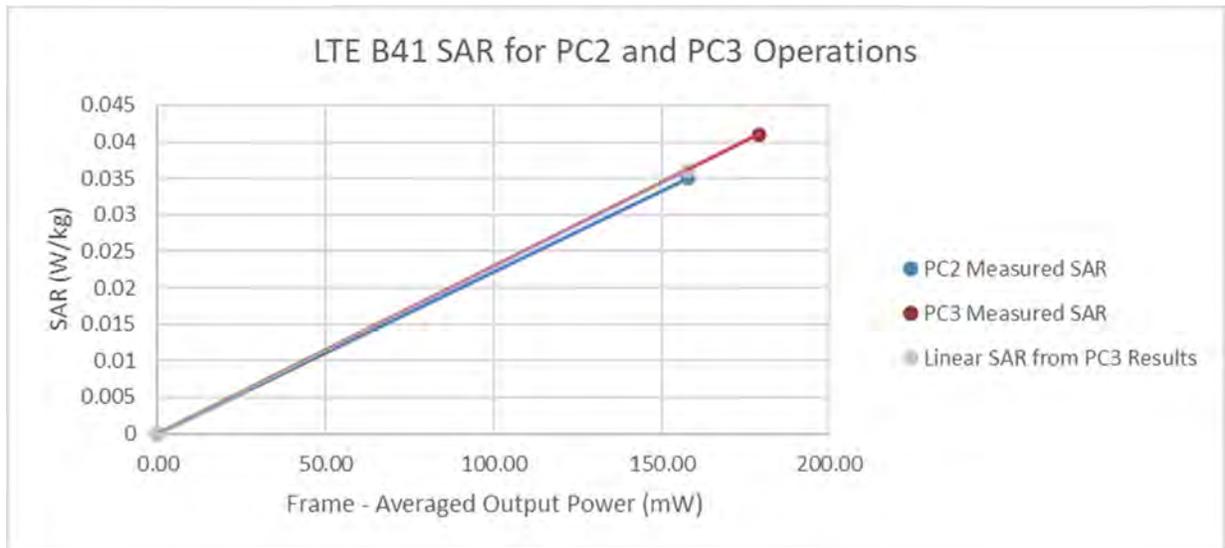
## 13 ADDITIONAL TESTING PER FCC GUIDANCE

### 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. Per May 2017 TCB Workshop, no additional SAR measurements were required since the linearity between power classes was < 10% and all reported SAR values were < 1.4 W/kg for 1g and < 3.5 W/kg for 10g.

**Table 13-1**  
**LTE Band 41 Antenna B Head Linearity Data**

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	26.0	27.3
Measured Output Power (dBm)	24.51	25.61
Measured SAR (W/kg)	0.041	0.035
Measured Power (mW)	282.49	363.92
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	178.81	157.58
% deviation from expected linearity		-3.13%



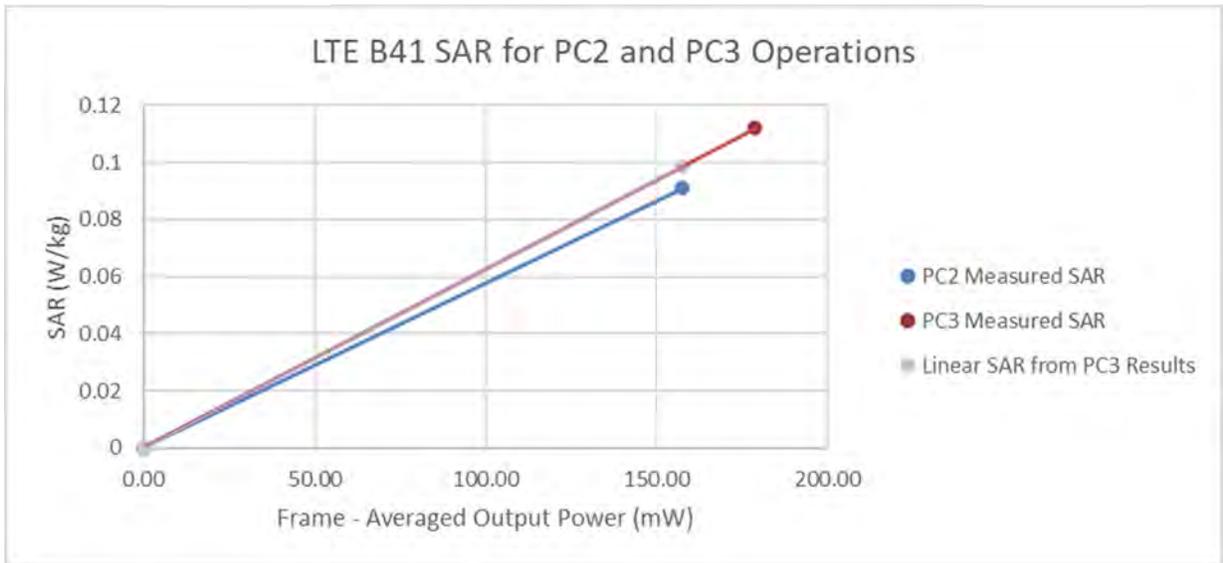
**Figure 13-1**  
**LTE Band 41 Antenna B Head Linearity**

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**Table 13-2  
LTE Band 41 Antenna B Body-Worn Linearity Data**

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	26.0	27.3
Measured Output Power (dBm)	24.51	25.61
Measured SAR (W/kg)	0.112	0.091
Measured Power (mW)	282.49	363.92
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	178.81	157.58
% deviation from expected linearity		-7.80%

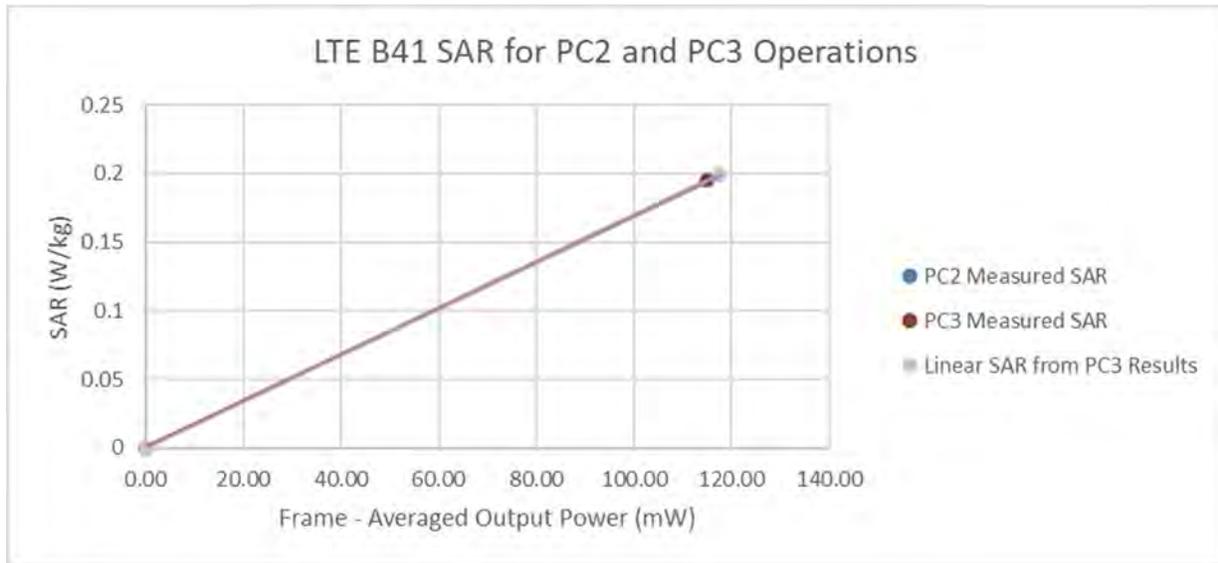


**Figure 13-2  
LTE Band 41 Antenna B Body-Worn Linearity**

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**Table 13-3**  
**LTE Band 41 Antenna I Body-Worn Linearity Data**

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	23.5	25.1
Measured Output Power (dBm)	22.59	24.33
Measured SAR (W/kg)	0.195	0.199
Measured Power (mW)	181.55	271.02
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	114.92	117.35
% deviation from expected linearity		-0.06%

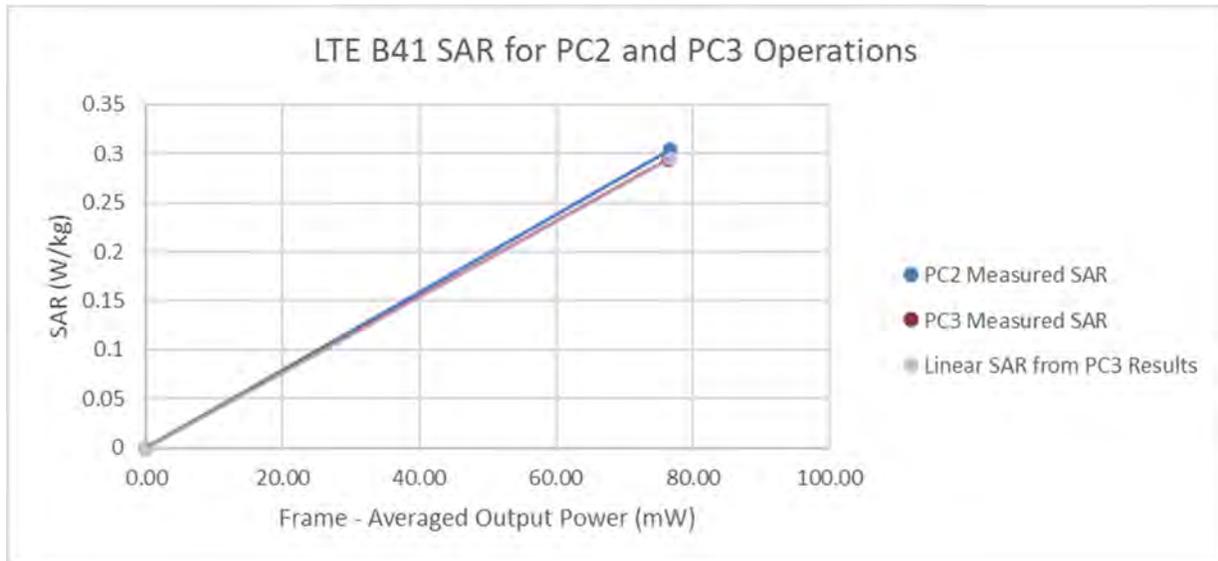


**Figure 13-3**  
**LTE Band 41 Antenna I Body-Worn Linearity**

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**Table 13-4  
LTE Band 41 Antenna B Hotspot Linearity Data**

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	22.0	23.6
Measured Output Power (dBm)	20.82	22.48
Measured SAR (W/kg)	0.294	0.304
Measured Power (mW)	120.78	177.01
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	76.45	76.65
% deviation from expected linearity		3.14%

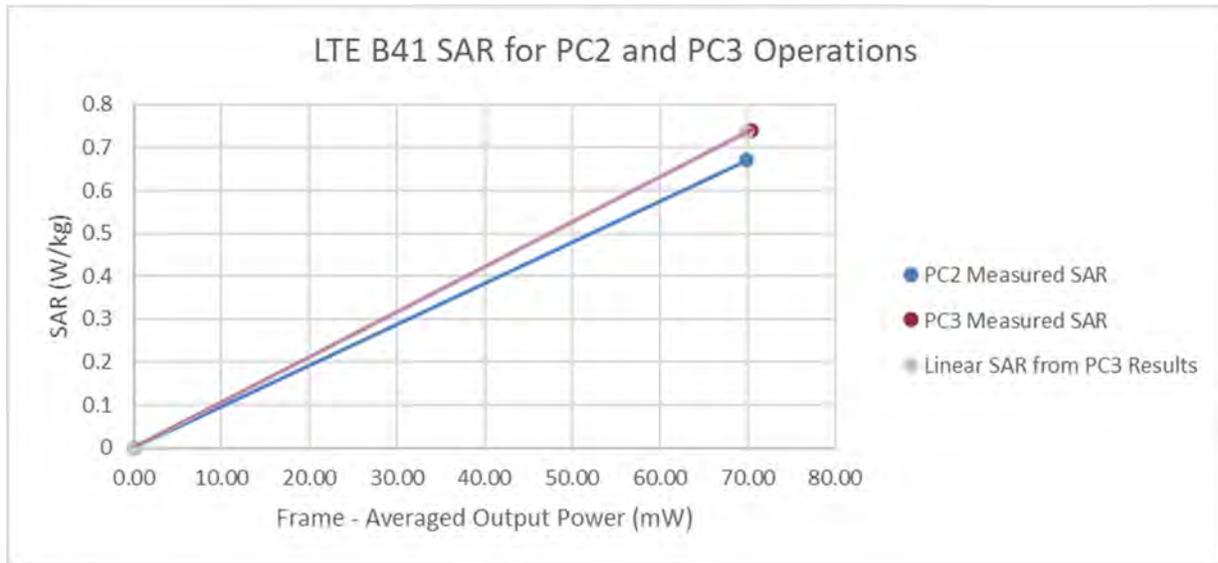


**Figure 13-4  
LTE Band 41 Antenna B Hotspot Linearity**

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**Table 13-5  
LTE Band 41 Antenna I Hotspot Linearity Data**

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	21.5	23.1
Measured Output Power (dBm)	20.46	22.08
Measured SAR (W/kg)	0.741	0.670
Measured Power (mW)	111.17	161.44
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	70.37	69.90
% deviation from expected linearity		-8.97%



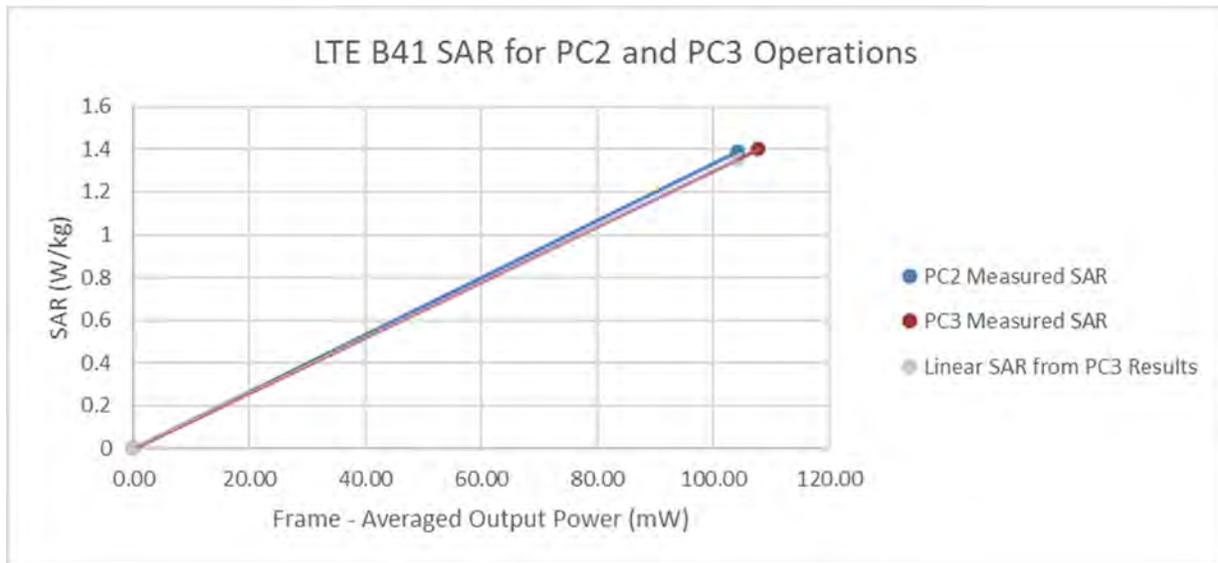
**Figure 13-5  
LTE Band 41 Antenna I Hotspot Linearity**

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**Table 13-6  
LTE Band 41 Antenna I Phablet Linearity Data**

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	23.5	25.1
Measured Output Power (dBm)	22.31	23.81
Measured SAR (W/kg)	1.400	1.390
Measured Power (mW)	170.22	240.44
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	107.75	104.11
% deviation from expected linearity		2.75%



**Figure 13-6  
LTE Band 41 Antenna I Phablet Linearity**

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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	1/18/2023	Annual	1/18/2024	MY47270002
Agilent	E4438C	ESG Vector Signal Generator	4/25/2023	Annual	4/25/2024	US41460739
Agilent	N5182A	MXG Vector Signal Generator	11/30/2022	Annual	11/30/2023	MY47420603
Agilent	N5182A	MXG Vector Signal Generator	4/1/2023	Annual	4/1/2024	MY47420837
Agilent	N5182A	MXG Vector Signal Generator	7/4/2022	Annual	7/4/2023	MY48180366
Agilent	8753ES	S-Parameter Vector Network Analyzer	1/12/2023	Annual	1/12/2024	MY40001472
Agilent	8753ES	S-Parameter Vector Network Analyzer	6/14/2022	Annual	6/14/2023	US39170118
Agilent	E5515C	Wireless Communications Test Set	5/12/2022	Annual	5/12/2023	GB43304278
Agilent	E5515C	Wireless Communications Test Set	5/4/2021	Biennial	5/4/2023	GB41450275
Agilent	E5515C	Wireless Communications Test Set	1/12/2023	Annual	1/12/2024	MY50262130
Agilent	N4010A	Wireless Connectivity Test Set	N/A	N/A	N/A	GB46170464
Amplifier Research	15S1G6	Amplifier	CBT	N/A	CBT	433972
Amplifier Research	15S1G6	Amplifier	CBT	N/A	CBT	343972
Amplifier Research	15S1G6	Amplifier	CBT	N/A	CBT	433971
Amplifier Research	150A100C	Amplifier	CBT	N/A	CBT	350132
Anritsu	ML2496A	Power Meter	4/4/2023	Annual	4/4/2024	1840005
Anritsu	ML2496A	Power Meter	8/16/2022	Annual	8/16/2023	1351001
Anritsu	MA2411B	Pulse Power Sensor	1/10/2023	Annual	1/10/2024	1315051
Anritsu	MA2411B	Pulse Power Sensor	10/21/2022	Annual	10/21/2023	1207364
Anritsu	MT8821C	Radio Communication Analyzer MT8821C	1/10/2023	Annual	1/10/2024	6201524637
Anritsu	MT8821C	Radio Communication Analyzer MT8821C	3/31/2023	Annual	3/31/2024	6201381794
Anritsu	MT8821C	Radio Communication Analyzer MT8821C	11/28/2022	Annual	11/28/2023	6262150047
Anritsu	MT8821C	Radio Communication Analyzer MT8821C	6/27/2022	Annual	6/27/2023	6261895213
Anritsu	MT8000A	Radio Communication Test Station	3/1/2023	Annual	3/1/2024	6272337419
Anritsu	MT8000A	Radio Communication Test Station	2/9/2023	Annual	2/9/2024	6272337408
Anritsu	MT8000A	Radio Communication Test Station	1/5/2023	Annual	1/5/2024	6272337436
Anritsu	MA24106A	USB Power Sensor	2/9/2023	Annual	2/9/2024	1520505
Anritsu	MA24106A	USB Power Sensor	4/21/2023	Annual	4/21/2024	1244515
Anritsu	MA24106A	USB Power Sensor	1/13/2023	Annual	1/13/2024	1344557
Mini-Circuits	PWR-4GHS	USB Power Sensor	11/11/2022	Annual	11/11/2023	11710030062
Control Company	4352	Long Stem Thermometer	9/10/2021	Biennial	9/10/2023	210774678
Control Company	4352	Long Stem Thermometer	9/10/2021	Biennial	9/10/2023	210774685
Control Company	4352	Long Stem Thermometer	9/10/2021	Biennial	9/10/2023	210774675
Control Company	4040	Therm./ Clock/ Humidity Monitor	1/17/2023	Annual	1/17/2024	160574418
Control Company	4410	Therm./ Clock/ Humidity Monitor	5/13/2021	Biennial	5/13/2023	210403099
Control Company	4410	Therm./ Clock/ Humidity Monitor	5/13/2021	Biennial	5/13/2023	2104031313
Mitutoyo	500-196-30	CD-6"ASX 6inch Digital Caliper	2/16/2022	Triennial	2/16/2025	A20238413
Keysight Technologies	N6705B	DC Power Analyzer	5/5/2021	Triennial	5/5/2024	MY53004059
Keysight Technologies	N9020A	MXA Signal Analyzer	3/15/2023	Annual	3/15/2024	US46470561
Keysight Technologies	N9020A	MXA Signal Analyzer	4/6/2023	Annual	4/6/2024	MY48010233
MCL	BW-N6W5+	6dB Attenuator	CBT	N/A	CBT	1139
Mini-Circuits	VLF-6000+	Low Pass Filter DC to 6000 MHz	CBT	N/A	CBT	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 1000 MHz	CBT	N/A	CBT	N/A
Mini-Circuits	NLP-2950+	Low Pass Filter DC to 2700 MHz	CBT	N/A	CBT	N/A
Mini-Circuits	BW-N20W5	Power Attenuator	CBT	N/A	CBT	1226
Mini-Circuits	ZUDC10-83-S+	Directional Coupler	CBT	N/A	CBT	2050
Mini-Circuits	ZUDC10-83-S+	Directional Coupler	CBT	N/A	CBT	2111
Narda	4772-3	Attenuator (3dB)	CBT	N/A	CBT	9406
Narda	BW-S3W2	Attenuator (3dB)	CBT	N/A	CBT	120
Seekonk	TSF-100	Torque Wrench	7/11/2022	Annual	7/11/2023	47639-29
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	3/8/2023	Annual	3/8/2024	128635
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	4/5/2023	Annual	4/5/2024	167284
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	1/12/2023	Annual	1/12/2024	150117
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	2/17/2023	Annual	2/17/2024	164948
SPEAG	DAK-3.5	Dielectric Assessment Kit	12/15/2022	Annual	12/15/2023	1278
SPEAG	DAK-3.5	Dielectric Assessment Kit	5/16/2022	Annual	5/16/2023	1070
SPEAG	DAKS-3.5	Portable Dielectric Assessment Kit	8/15/2022	Annual	8/15/2023	1041
SPEAG	DAKS-3.5	Portable Dielectric Assessment Kit	9/19/2022	Annual	9/19/2023	1045
SPEAG	DAKS-3.5	Portable Dielectric Assessment Kit	7/5/2022	Annual	7/5/2023	1039
SPEAG	DAKS-12	Dielectric Assessment Kit (4MHz - 3GHz)	3/13/2023	Annual	3/13/2024	1102
SPEAG	MAIA	Modulation and Audio Interference Analyzer	N/A	N/A	N/A	1379
SPEAG	MAIA	Modulation and Audio Interference Analyzer	N/A	N/A	N/A	1243
SPEAG	MAIA	Modulation and Audio Interference Analyzer	N/A	N/A	N/A	1237
SPEAG	CLA-13	Confined Loop Antenna	9/13/2022	Annual	9/13/2023	1002

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Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
SPEAG	D750V3	750 MHz SAR Dipole	2/13/2023	Annual	2/13/2024	1046
SPEAG	D750V3	750 MHz SAR Dipole	5/9/2022	Annual	5/9/2023	1003
SPEAG	D835V2	835 MHz SAR Dipole	5/9/2022	Annual	5/9/2023	4d180
SPEAG	D835V2	835 MHz SAR Dipole	10/19/2021	Biennial	10/19/2023	4d133
SPEAG	D835V2	835 MHz SAR Dipole	1/21/2021	Triennial	1/21/2024	4d132
SPEAG	D1750V2	1750 MHz SAR Dipole	1/18/2022	Biennial	1/18/2024	1148
SPEAG	D1750V2	1750 MHz SAR Dipole	5/10/2022	Annual	5/10/2023	1092
SPEAG	D1750V2	1750 MHz SAR Dipole	9/9/2020	Triennial	9/9/2023	1104
SPEAG	D1750V2	1750 MHz SAR Dipole	10/22/2021	Biennial	10/22/2023	1150
SPEAG	D1900V2	1900 MHz SAR Dipole	5/16/2022	Annual	5/16/2023	5d026
SPEAG	D1900V2	1900 MHz SAR Dipole	9/21/2021	Biennial	9/21/2023	5d149
SPEAG	D1900V2	1900 MHz SAR Dipole	8/8/2022	Annual	8/8/2023	5d080
SPEAG	D1900V2	1900 MHz SAR Dipole	2/21/2022	Biennial	2/21/2024	5d148
SPEAG	D2450V2	2450 MHz SAR Dipole	11/25/2021	Biennial	11/25/2023	981
SPEAG	D2450V2	2450 MHz SAR Dipole	2/13/2023	Annual	2/13/2024	882
SPEAG	D2450V2	2450 MHz SAR Dipole	8/18/2021	Biennial	8/18/2023	719
SPEAG	D2450V2	2450 MHz SAR Dipole	5/11/2022	Annual	5/11/2023	750
SPEAG	D2450V2	2450 MHz SAR Dipole	11/9/2021	Biennial	11/9/2023	921
SPEAG	D2600V2	2600 MHz SAR Dipole	9/9/2020	Triennial	9/9/2023	1069
SPEAG	D2600V2	2600 MHz SAR Dipole	8/18/2022	Annual	8/18/2023	1126
SPEAG	D2600V2	2600 MHz SAR Dipole	5/11/2022	Annual	5/11/2023	1042
SPEAG	D2600V2	2600 MHz SAR Dipole	11/15/2022	Annual	11/15/2023	1071
SPEAG	D3500V2	3500 MHz SAR Dipole	6/9/2021	Biennial	6/9/2023	1126
SPEAG	D3700V2	3700 MHz SAR Dipole	6/9/2021	Biennial	6/9/2023	1097
SPEAG	D3900V2	3900 MHz SAR Dipole	11/13/2020	Triennial	11/13/2023	1062
SPEAG	D5GHzV2	5 GHz SAR Dipole	1/10/2022	Biennial	1/10/2024	1057
SPEAG	DAE4	Dasy Data Acquisition Electronics	2/15/2023	Annual	2/15/2024	665
SPEAG	DAE4	Dasy Data Acquisition Electronics	2/16/2023	Annual	2/16/2024	1645
SPEAG	DAE4	Dasy Data Acquisition Electronics	7/18/2022	Annual	7/18/2023	1583
SPEAG	DAE4	Dasy Data Acquisition Electronics	7/18/2022	Annual	7/18/2023	1677
SPEAG	DAE4	Dasy Data Acquisition Electronics	1/20/2023	Annual	1/20/2024	1466
SPEAG	DAE4	Dasy Data Acquisition Electronics	6/14/2022	Annual	6/14/2023	1334
SPEAG	DAE4	Dasy Data Acquisition Electronics	3/15/2023	Annual	3/15/2024	604
SPEAG	DAE4	Dasy Data Acquisition Electronics	12/13/2022	Annual	12/13/2023	1644
SPEAG	DAE4	Dasy Data Acquisition Electronics	1/17/2023	Annual	1/17/2024	1558
SPEAG	DAE4	Dasy Data Acquisition Electronics	6/14/2022	Annual	6/14/2023	1532
SPEAG	DAE4	Dasy Data Acquisition Electronics	2/15/2023	Annual	2/15/2024	1403
SPEAG	DAE4	Dasy Data Acquisition Electronics	10/17/2022	Annual	10/17/2023	1322
SPEAG	DAE4	Dasy Data Acquisition Electronics	1/18/2023	Annual	1/18/2024	1530
SPEAG	DAE4	Dasy Data Acquisition Electronics	10/13/2022	Annual	10/13/2023	1333
SPEAG	DAE4	Dasy Data Acquisition Electronics	1/17/2023	Annual	1/17/2024	793
SPEAG	DAE4	Dasy Data Acquisition Electronics	5/16/2022	Annual	5/16/2023	701
SPEAG	EX3DV4	SAR Probe	2/8/2023	Annual	2/8/2024	7417
SPEAG	EX3DV4	SAR Probe	7/19/2022	Annual	7/19/2023	7410
SPEAG	EX3DV4	SAR Probe	7/18/2022	Annual	7/18/2023	7406
SPEAG	EX3DV4	SAR Probe	1/12/2023	Annual	1/12/2024	7565
SPEAG	EX3DV4	SAR Probe	6/16/2022	Annual	6/16/2023	7409
SPEAG	EX3DV4	SAR Probe	3/16/2023	Annual	3/16/2024	7421
SPEAG	EX3DV4	SAR Probe	12/9/2022	Annual	12/9/2023	7490
SPEAG	EX3DV4	SAR Probe	1/11/2023	Annual	1/11/2024	7570
SPEAG	EX3DV4	SAR Probe	6/29/2022	Annual	6/29/2023	7491
SPEAG	EX3DV4	SAR Probe	2/13/2023	Annual	2/13/2024	7427
SPEAG	EX3DV4	SAR Probe	10/19/2022	Annual	10/19/2023	7547
SPEAG	EX3DV4	SAR Probe	1/17/2023	Annual	1/17/2024	7713
SPEAG	EX3DV4	SAR Probe	10/20/2022	Annual	10/20/2023	7420
SPEAG	EX3DV4	SAR Probe	1/17/2023	Annual	1/17/2024	3837
SPEAG	EX3DV4	SAR Probe	5/18/2022	Annual	5/18/2023	7416
SPEAG	EX3DV4	SAR Probe	2/10/2023	Annual	2/10/2024	7640

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

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

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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 <sub>i</sub> 1gm	c <sub>i</sub> 10gms	1gm u <sub>i</sub> (± %)	10gms u <sub>i</sub> (± %)	v <sub>i</sub>
<b>Measurement System</b>									
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	∞
<b>Test Sample Related</b>									
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	∞
<b>Phantom &amp; Tissue Parameters</b>									
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	∞
<b>Combined Standard Uncertainty (k=1)</b>				RSS			12.2	12.0	191
<b>Expanded Uncertainty</b> (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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- [2] ANSI/IEEE C95.1-2005, American National Standard safety levels with respect to human exposure to radio frequency electromagnetic fields, 3kHz to 300GHz, New York: IEEE, 2006.
- [3] ANSI/IEEE C95.1-1992, American National Standard safety levels with respect to human exposure to radio frequency electromagnetic fields, 3kHz to 300GHz, New York: IEEE, Sept. 1992.
- [4] ANSI/IEEE C95.3-2002, IEEE Recommended Practice for the Measurement of Potentially Hazardous Electromagnetic Fields - RF and Microwave, New York: IEEE, December 2002.
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