



ELEMENT MATERIALS TECHNOLOGY

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RF EXPOSURE PART 1 TEST REPORT

Applicant Name:

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Gyeonggi-do, 16677, Korea

Date of Testing:

09/11/2024 – 10/24/2024

Test Site/Locations:

Element, Columbia, MD, USA
Element Morgan Hill, CA, USA
Element, Suwon, Korea

Document Serial No.:

1M2408260067-23.A3L (Rev2)

FCC ID:

A3LSMS938U

APPLICANT:

SAMSUNG ELECTRONICS CO., LTD.

DUT Type:

Portable Handset

Application Type:

Certification

FCC Rule Part(s):

CFR §2.1093

Model(s):

SM-S938U

Additional Model(s):

SM-S938U1

Equipment Model	Model & Name	Freq. Frequency	Exposure Method	Exposure Level	Exposure Time	Exposure Rate	Exposure Limit
PCIE	PCIE-100						

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1 TEST LABORATORY INFORMATION

1.1 Introduction

This test report for device subject to testing at an accredited testing laboratory has been generated by the testing laboratory that tested the device. Measurements were performed at various locations within Element Materials Technology. Detailed location and accredited information regarding the testing laboratories are provided below.

1.2 Test Laboratories Information

1.2.1 Testing Laboratory 1

Test Firm Name	ELEMENT MATERIALS TECHNOLOGY WASHINGTON DC LLC
Test Lab Location	7185 Oakland Mills Road, Columbia, MD 21046, United States Tel. +1.410.290.6652 / Fax +1.410.290.6654
Accreditation Info.	Lab Code. (ISED): 2451B
	CAB Identifier (NIST): US0110
	ISO/IEC 17025 (A2LA): CERT #2041.01
	
Measurement system No.	C, E, G, H, J, L, O, R, S

1.2.2 Testing Laboratory 2

Test Firm Name	ELEMENT MATERIALS TECHNOLOGY SAN JOSE, CA
Test Lab Location	18855 Adams Ct, Morgan Hill, CA 95037 USA United States Tel. +1.408.538.5600 / Fax +1.410.290.6654
Accreditation Info.	Lab Code. (ISED): 22831
	CAB Identifier (NIST): US0211
	ISO/IEC 17025 (A2LA): CERT #2041.02
	
Measurement system No.	AM1, AM4, AM7, AM8, AM13, AM14

1.2.3 Testing Laboratory 3

Test Firm Name	ELEMENT MATERIALS TECHNOLOGY SUWON, LTD.
Test Lab Location	Yongin-si, Gyeonggi-do, 16954, South Korea Tel. +82.31.660.7391 / Fax +82)31-660-7318
Accreditation Info.	Lab Code. (ISED): 26168
	CAB Identifier (NIST): KR0169
	ISO/IEC 17025 (A2LA): CERT #2041.04
	
Measurement system No.	K2, K3, K4, K6

Note: For each test performed, the test site can be verified with the probe serial numbers specified in the table of Test System Verification and Equipment List.

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2 DEVICE UNDER TEST

2.1 Device Overview

Band & Mode	Operating Modes	Tx Frequency
GSM/GPRS/EDGE 850	Voice/Data	824.20 - 848.80 MHz
GSM/GPRS/EDGE 1900	Voice/Data	1850.20 - 1909.80 MHz
UMTS 850	Voice/Data	826.40 - 846.60 MHz
UMTS 1750	Voice/Data	1712.4 - 1752.6 MHz
UMTS 1900	Voice/Data	1852.4 - 1907.6 MHz
LTE Band 71	Voice/Data	665.5 - 695.5 MHz
LTE Band 12	Voice/Data	699.7 - 715.3 MHz
LTE Band 13	Voice/Data	779.5 - 784.5 MHz
LTE Band 14	Voice/Data	790.5 - 795.5 MHz
LTE Band 26	Voice/Data	814.7 - 848.3 MHz
LTE Band 5	Voice/Data	824.7 - 848.3 MHz
LTE Band 66	Voice/Data	1710.7 - 1779.3 MHz
LTE Band 4	Voice/Data	1710.7 - 1754.3 MHz
LTE Band 25	Voice/Data	1850.7 - 1914.3 MHz
LTE Band 2	Voice/Data	1850.7 - 1909.3 MHz
LTE Band 30	Voice/Data	2307.5 - 2312.5 MHz
LTE Band 7	Voice/Data	2502.5 - 2567.5 MHz
LTE Band 41	Voice/Data	2498.5 - 2687.5 MHz
LTE Band 38	Voice/Data	2572.5 - 2617.5 MHz
LTE Band 48	Voice/Data	3552.5 - 3697.5 MHz
NR Band n71	Voice/Data	665.5 - 695.5 MHz
NR Band n12	Voice/Data	701.5 - 713.5 MHz
NR Band n14	Voice/Data	790.5 - 795.5 MHz
NR Band n26	Voice/Data	816.5 - 846.5 MHz
NR Band n5	Voice/Data	826.5 - 846.5 MHz
NR Band n70	Voice/Data	1697.5 - 1707.5 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 n30	Voice/Data	2307.5 - 2312.5 MHz
NR Band n7	Voice/Data	2502.5 - 2567.5 MHz
NR Band n41	Voice/Data	2501.01 - 2685 MHz
NR Band n38	Voice/Data	2575 - 2615 MHz
NR Band n48	Voice/Data	3555 - 3694.98 MHz
NR Band n78	Voice/Data	3455.01 - 3544.98 MHz; 3705 - 3795 MHz
NR Band n77	Voice/Data	3455.01 - 3544.98 MHz; 3705 - 3975 MHz
NTN Band 255	Data	1629 - 1658 MHz
NR Band n258	Data	24250 - 24450 MHz; 24750 - 25250 MHz
NR Band n260	Data	37000 - 40000 MHz
NR Band n261	Data	27500 - 28350 MHz
2.4 GHz WIFI	Voice/Data	2412 - 2462 MHz
5 GHz WIFI	Voice/Data	U-NII-1: 5180 - 5240 MHz U-NII-2A: 5260 - 5320 MHz U-NII-2C: 5500 - 5720 MHz U-NII-3: 5745 - 5825 MHz U-NII-4: 5845 - 5885 MHz
6 GHz WIFI	Voice/Data	U-NII-5: 5935 - 6415 MHz U-NII-6: 6435 - 6515 MHz U-NII-7: 6535 - 6875 MHz U-NII-8: 6895 - 7115 MHz
2.4 GHz Bluetooth	Data	2402 - 2480 MHz
NFC	Data	13.56 MHz
UWB	Data	6489.6 - 7987.2 MHz

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2.2 Time-Averaging Algorithm for RF Exposure Compliance

2.2.1 Time-Averaged Algorithm

This Device is enabled with the Qualcomm® Smart Transmit Gen2 feature with 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 2.10– Bibliography).

Note that NTN operations are not enabled with Smart Transmit.

The Smart Transmit algorithm maintains the time-averaged transmit power, in turn, time-averaged RF exposure of *SAR_design_target* or *PD_design_target*, below the predefined time-averaged power limit (i.e., P_{limit} for WWAN sub-6/WLAN/BT radio, and *input.power.limit* for 5G mmW NR), for each characterized technology and band. Characterization is achieved by determining P_{limit} for WWAN sub-6/WLAN/BT that corresponds to the exposure design targets after accounting for all device design related uncertainties, i.e., *SAR_design_target* (<FCC SAR Limit) for sub-6 radio. The SAR characterization is denoted as SAR char in this report (see SAR Summary Section and Part 0 SAR Test Results for P_{limit} Calculations Appendix).

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, Hotspot, or Phablet	Head
Averaging Volume				1g/10g	1g
Spacing				10mm, 0mm	0mm
DSI				0	1
Technology/Band	Antenna	Antenna Group	P _{max}	P _{limit}	P _{limit}
GSM 850	A	AG0	25.3	29.7	31.5
GSM 850	E	AG1	25.3	27.7	20.3
GSM 1900	A	AG0	22.1	18.8	28.8
UMTS 850	A	AG0	24.0	25.9	29.0
UMTS 850	E	AG1	24.0	26.9	20.5
UMTS 1750	A	AG0	23.0	19.0	29.4
UMTS 1900	A	AG0	23.0	18.0	29.0
LTE Band 71	A	AG0	24.0	27.2	28.6
LTE Band 71	E	AG1	24.0	27.0	21.5
LTE Band 12	A	AG0	24.0	27.0	28.5
LTE Band 12	E	AG1	24.0	26.2	21.5
LTE Band 13	A	AG0	24.0	27.0	28.0
LTE Band 13	E	AG1	24.0	25.9	21.5
LTE Band 14	A	AG0	24.0	26.7	28.3
LTE Band 14	E	AG1	24.0	26.2	21.5
LTE Band 26/5	A	AG0	24.0	27.1	29.3
LTE Band 26/5	E	AG1	24.0	26.4	21.0
LTE Band 66/4	A	AG0	23.5	19.0	29.0
LTE Band 66/4	F	AG1	23.5	20.5	18.5
LTE Band 25/2	A	AG0	23.5	18.0	28.5
LTE Band 25/2	F	AG1	23.5	20.0	18.5
LTE Band 30	A	AG0	22.5	19.5	34.2
LTE Band 30	F	AG1	22.0	20.0	17.0
LTE Band 7	B	AG0	23.5	20.0	29.2
LTE Band 7	F	AG1	23.5	19.5	16.0
LTE Band 41/38	B	AG0	22.0	20.0	30.1
LTE Band 41/38	F	AG1	22.0	19.5	16.0
LTE Band 48	F	AG1	20.0	19.5	16.0
NR Band n71	A	AG0	24.0	26.4	29.5
NR Band n71	E	AG1	24.0	27.6	21.5
NR Band n12	A	AG0	24.0	26.2	28.2
NR Band n12	E	AG1	24.0	27.0	21.5
NR Band n14	A	AG0	24.0	26.7	29.3
NR Band n14	E	AG1	24.0	26.9	21.5
NR Band n26/n5	A	AG0	24.0	28.1	30.2
NR Band n26/n5	E	AG1	24.0	27.3	21.0
NR Band n70	A	AG0	23.5	19.0	29.0
NR Band n70	F	AG1	23.5	21.0	18.5
NR Band n66	A	AG0	23.5	19.0	29.2
NR Band n66	F	AG1	23.5	20.5	18.5
NR Band n25/n2	A	AG0	23.5	18.0	29.1
NR Band n25/n2	F	AG1	23.5	20.0	18.5
NR Band n30	A	AG0	22.5	19.5	33.9
NR Band n30	F	AG1	22.0	20.0	17.0
NR Band n7	B	AG0	23.5	20.0	28.2
NR Band n7	F	AG1	23.5	19.5	16.0
NR Band n41 PC2 (Path 1)	F	AG1	26.0	19.5	16.5
NR Band n41 PC2 (Path 1)	B	AG0	23.0	19.5	16.5
NR Band n41 PC2 (Path 1)	E	AG1	23.5	18.0	15.0
NR Band n41 PC2 (Path 1)	D	AG0	22.0	19.5	16.5
NR Band n41 PC2 (Path 2)	B	AG0	26.0	20.0	21.0
NR Band n41 PC2 (Path 2)	F	AG1	21.5	19.5	16.5
NR Band n41 PC2 (Path 2)	D	AG0	25.0	20.0	21.0
NR Band n41 PC2 (Path 2)	E	AG1	20.0	17.5	17.5
NR Band n41 PC1.5 UL-MIMO	F	AG1	26.0	19.5	16.5
NR Band n41 PC1.5 UL-MIMO	B	AG0	26.0	20.0	21.0
NR Band n41 PC1.5	E	AG1	23.5	18.0	15.0
NR Band n41 PC1.5	D	AG0	25.0	19.5	16.5
NR Band n38 (Path 1)	F	AG1	24.0	19.5	16.5
NR Band n38 (Path 2)	B	AG0	24.0	20.0	21.0
NR Band n48	F	AG1	22.0	19.5	16.0
NR Band n48	C	AG0	16.5	14.5	11.0
NR Band n48	I	AG1	21.0	19.0	15.5
NR Band n48	D	AG0	16.5	14.5	11.0
NR Band n78 PC2	F	AG1	26.0	18.0	16.0
NR Band n78 PC2	C	AG0	21.0	17.0	21.0
NR Band n78 PC2	I	AG1	25.5	18.0	15.5
NR Band n78 PC2	D	AG0	20.0	13.0	10.5
NR Band n77 PC2	F	AG1	26.0	18.0	16.0
NR Band n77 PC2	C	AG0	21.0	17.0	21.0
NR Band n77 PC2	I	AG1	25.5	18.0	15.5
NR Band n77 PC2	D	AG0	20.0	13.0	10.5
NR Band n77 PC1.5 UL-MIMO	F	AG1	26.0	18.0	16.0
NR Band n77 PC1.5 UL-MIMO	C	AG0	26.0	17.0	21.0
NR Band n77 PC1.5	I	AG1	25.5	18.0	15.5
NR Band n77 PC1.5	D	AG0	26.0	13.0	10.5
2.4 GHz WIFI	H	AG1	19.0	19.5	16.0
2.4 GHz WIFI	J	AG1	19.0	25.4	16.0
2.4 GHz WIFI	MIMO	AG1	17.0	19.4	16.0
5 GHz WIFI	H	AG1	17.0	15.0	15.0
5 GHz WIFI	E	AG1	17.0	15.0	15.0
5 GHz WIFI	MIMO	AG1	17.0	15.0	15.0
6 GHz WIFI	H	AG1	16.0	8.0	18.4
6 GHz WIFI	E	AG1	16.0	8.0	22.9
6 GHz WIFI	MIMO	AG1	16.0	8.0	17.0
2.4 GHz Bluetooth	H	AG1	17.4	21.3	18.7
2.4 GHz Bluetooth	J	AG1	17.4	25.9	20.4
2.4 GHz Bluetooth	MIMO	AG1	13.4	18.7	17.8
2.4 GHz Bluetooth LE	H	AG1	18.9	21.3	18.9
2.4 GHz Bluetooth LE	J	AG1	18.4	25.9	20.4
2.4 GHz Bluetooth LE	MIMO	AG1	13.9	18.7	17.8

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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.

2.3 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/be RU operations can be found in 802.11ax/be RU SAR Exclusion Appendix.

2.3.1 Licensed Output Power

GSM/GPRS/EDGE 850										
Antenna A										
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
P _{max}	Max Allowed Power	33.5	33.5	32.5	30.5	28.5	28.0	26.0	24.0	23.0
	Nominal	32.5	32.5	31.5	29.5	27.5	27.0	25.0	23.0	22.0
DSI = 0 (Body-Worn, Hotspot, or Phablet)	Max Allowed Power	33.5	33.5	32.5	30.5	28.5	28.0	26.0	24.0	23.0
	Nominal	32.5	32.5	31.5	29.5	27.5	27.0	25.0	23.0	22.0
DSI = 1 (Head)	Max Allowed Power	33.5	33.5	32.5	30.5	28.5	28.0	26.0	24.0	23.0
	Nominal	32.5	32.5	31.5	29.5	27.5	27.0	25.0	23.0	22.0
GSM/GPRS/EDGE 850										
Antenna E										
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
P _{max}	Max Allowed Power	33.5	33.5	32.5	30.5	28.5	28.0	26.0	24.0	23.0
	Nominal	32.5	32.5	31.5	29.5	27.5	27.0	25.0	23.0	22.0
DSI = 0 (Body-Worn, Hotspot, or Phablet)	Max Allowed Power	33.5	33.5	32.5	30.5	28.5	28.0	26.0	24.0	23.0
	Nominal	32.5	32.5	31.5	29.5	27.5	27.0	25.0	23.0	22.0
DSI = 1 (Head)	Max Allowed Power	30.5	30.5	27.5	25.7	24.5	28.0	26.0	24.0	23.0
	Nominal	29.5	29.5	26.5	24.7	23.5	27.0	25.0	23.0	22.0
GSM/GPRS/EDGE 1900										
Antenna A										
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
P _{max}	Max Allowed Power	30.5	30.5	29.0	27.5	25.5	27.0	25.0	23.0	22.0
	Nominal	29.5	29.5	28.0	26.5	24.5	26.0	24.0	22.0	21.0
DSI = 0 (Body-Worn, Hotspot, or Phablet)	Max Allowed Power	29.0	29.0	26.0	24.2	23.0	27.0	25.0	23.0	22.0
	Nominal	28.0	28.0	25.0	23.2	22.0	26.0	24.0	22.0	21.0
DSI = 1 (Head)	Max Allowed Power	30.5	30.5	29.0	27.5	25.5	27.0	25.0	23.0	22.0
	Nominal	29.5	29.5	28.0	26.5	24.5	26.0	24.0	22.0	21.0

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

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UMTS Band 5 (850 MHz)					
Antenna A					
Power Level		Modulated Average Output Power			
		3GPP WCDMA Rel 99	3GPP HSDPA Rel 5	3GPP HSUPA Rel 6	3GPP DC-HSDPA Rel 8
Pmax	Max Allowed Power	25.0	24.0	24.0	24.0
	Nominal	24.0	23.0	23.0	23.0
DSI = 0 (Body-Worn, Hotspot, or Phablet)	Max Allowed Power	25.0	24.0	24.0	24.0
	Nominal	24.0	23.0	23.0	23.0
DSI = 1 (Head)	Max Allowed Power	25.0	24.0	24.0	24.0
	Nominal	24.0	23.0	23.0	23.0
UMTS Band 5 (850 MHz)					
Antenna E					
Power Level		Modulated Average Output Power			
		3GPP WCDMA Rel 99	3GPP HSDPA Rel 5	3GPP HSUPA Rel 6	3GPP DC-HSDPA Rel 8
Pmax	Max Allowed Power	25.0	24.0	24.0	24.0
	Nominal	24.0	23.0	23.0	23.0
DSI = 0 (Body-Worn, Hotspot, or Phablet)	Max Allowed Power	25.0	24.0	24.0	24.0
	Nominal	24.0	23.0	23.0	23.0
DSI = 1 (Head)	Max Allowed Power	21.5	20.5	20.5	20.5
	Nominal	20.5	19.5	19.5	19.5
UMTS Band 4 (1750 MHz)					
Antenna A					
Power Level		Modulated Average Output Power			
		3GPP WCDMA Rel 99	3GPP HSDPA Rel 5	3GPP HSUPA Rel 6	3GPP DC-HSDPA Rel 8
Pmax	Max Allowed Power	24.0	23.0	23.0	23.0
	Nominal	23.0	22.0	22.0	22.0
DSI = 0 (Body-Worn, Hotspot, or Phablet)	Max Allowed Power	20.0	19.0	19.0	19.0
	Nominal	19.0	18.0	18.0	18.0
DSI = 1 (Head)	Max Allowed Power	24.0	23.0	23.0	23.0
	Nominal	23.0	22.0	22.0	22.0
UMTS Band 2 (1900 MHz)					
Antenna A					
Power Level		Modulated Average Output Power			
		3GPP WCDMA Rel 99	3GPP HSDPA Rel 5	3GPP HSUPA Rel 6	3GPP DC-HSDPA Rel 8
Pmax	Max Allowed Power	24.0	23.0	23.0	23.0
	Nominal	23.0	22.0	22.0	22.0
DSI = 0 (Body-Worn, Hotspot, or Phablet)	Max Allowed Power	19.0	18.0	18.0	18.0
	Nominal	18.0	17.0	17.0	17.0
DSI = 1 (Head)	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, Hotspot, or Phablet)	DSI = 1 (Head)
LTE Band 71	A	Max Allowed Power	25.0	25.0	25.0
		Nominal	24.0	24.0	24.0
LTE Band 71	E	Max Allowed Power	25.0	25.0	22.5
		Nominal	24.0	24.0	21.5
LTE Band 12	A	Max Allowed Power	25.0	25.0	25.0
		Nominal	24.0	24.0	24.0
LTE Band 12	E	Max Allowed Power	25.0	25.0	22.5
		Nominal	24.0	24.0	21.5
LTE Band 13	A	Max Allowed Power	25.0	25.0	25.0
		Nominal	24.0	24.0	24.0
LTE Band 13	E	Max Allowed Power	25.0	25.0	22.5
		Nominal	24.0	24.0	21.5
LTE Band 14	A	Max Allowed Power	25.0	25.0	25.0
		Nominal	24.0	24.0	24.0
LTE Band 14	E	Max Allowed Power	25.0	25.0	22.5
		Nominal	24.0	24.0	21.5
LTE Band 26/5	A	Max Allowed Power	25.0	25.0	25.0
		Nominal	24.0	24.0	24.0
LTE Band 26/5	E	Max Allowed Power	25.0	25.0	22.0
		Nominal	24.0	24.0	21.0
LTE Band 66/4	A	Max Allowed Power	24.5	20.0	24.5
		Nominal	23.5	19.0	23.5
LTE Band 66/4	F	Max Allowed Power	24.5	21.5	19.5
		Nominal	23.5	20.5	18.5
LTE Band 25/2	A	Max Allowed Power	24.5	19.0	24.5
		Nominal	23.5	18.0	23.5
LTE Band 25/2	F	Max Allowed Power	24.5	21.0	19.5
		Nominal	23.5	20.0	18.5
LTE Band 30	A	Max Allowed Power	23.5	20.5	23.5
		Nominal	22.5	19.5	22.5
LTE Band 30	F	Max Allowed Power	23.0	21.0	18.0
		Nominal	22.0	20.0	17.0
LTE Band 7	B	Max Allowed Power	24.5	21.0	24.5
		Nominal	23.5	20.0	23.5
LTE Band 7	F	Max Allowed Power	24.5	20.5	17.0
		Nominal	23.5	19.5	16.0
LTE Band 41/38	B	Max Allowed Power	25.0	23.0	25.0
		Nominal	24.0	22.0	24.0
LTE Band 41/38	F	Max Allowed Power	25.0	22.5	19.0
		Nominal	24.0	21.5	18.0
LTE Band 48	F	Max Allowed Power	23.0	22.5	19.0
		Nominal	22.0	21.5	18.0
NTN Band 255	F	Max Allowed Power	23.0	N/A	N/A
		Nominal	22.0	N/A	N/A

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

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Mode / Band	Antenna		Modulated Average Output Power (in dBm)		
			Pmax	DSI = 0 (Body-Worn, Hotspot, or Phablet)	DSI = 1 (Head)
NR Band n71	A	Max Allowed Power	25.0	25.0	25.0
		Nominal	24.0	24.0	24.0
NR Band n71	E	Max Allowed Power	25.0	25.0	22.5
		Nominal	24.0	24.0	21.5
NR Band n12	A	Max Allowed Power	25.0	25.0	25.0
		Nominal	24.0	24.0	24.0
NR Band n12	E	Max Allowed Power	25.0	25.0	22.5
		Nominal	24.0	24.0	21.5
NR Band n14	A	Max Allowed Power	25.0	25.0	25.0
		Nominal	24.0	24.0	24.0
NR Band n14	E	Max Allowed Power	25.0	25.0	22.5
		Nominal	24.0	24.0	21.5
NR Band n26/n5	A	Max Allowed Power	25.0	25.0	25.0
		Nominal	24.0	24.0	24.0
NR Band n26/n5	E	Max Allowed Power	25.0	25.0	22.0
		Nominal	24.0	24.0	21.0
NR Band n70	A	Max Allowed Power	24.5	20.0	24.5
		Nominal	23.5	19.0	23.5
NR Band n70	F	Max Allowed Power	24.5	22.0	19.5
		Nominal	23.5	21.0	18.5
NR Band n66	A	Max Allowed Power	24.5	20.0	24.5
		Nominal	23.5	19.0	23.5
NR Band n66	F	Max Allowed Power	24.5	21.5	19.5
		Nominal	23.5	20.5	18.5
NR Band n25/n2	A	Max Allowed Power	24.5	19.0	24.5
		Nominal	23.5	18.0	23.5
NR Band n25/n2	F	Max Allowed Power	24.5	21.0	19.5
		Nominal	23.5	20.0	18.5
NR Band n30	A	Max Allowed Power	23.5	20.5	23.5
		Nominal	22.5	19.5	22.5
NR Band n30	F	Max Allowed Power	23.0	21.0	18.0
		Nominal	22.0	20.0	17.0
NR Band n7	B	Max Allowed Power	24.5	21.0	24.5
		Nominal	23.5	20.0	23.5
NR Band n7	F	Max Allowed Power	24.5	20.5	17.0
		Nominal	23.5	19.5	16.0
NR Band n41 PC2 (Path 1)	F	Max Allowed Power	27.0	20.5	17.5
		Nominal	26.0	19.5	16.5
NR Band n41 PC2 (Path 1)	B	Max Allowed Power	24.0	20.5	17.5
		Nominal	23.0	19.5	16.5
NR Band n41 PC2 (Path 1)	E	Max Allowed Power	24.5	19.0	16.0
		Nominal	23.5	18.0	15.0
NR Band n41 PC2 (Path 1)	D	Max Allowed Power	23.0	20.5	17.5
		Nominal	22.0	19.5	16.5
NR Band n41 PC2 (Path 2)	B	Max Allowed Power	27.0	21.0	22.0
		Nominal	26.0	20.0	21.0
NR Band n41 PC2 (Path 2)	F	Max Allowed Power	22.5	20.5	17.5
		Nominal	21.5	19.5	16.5
NR Band n41 PC2 (Path 2)	D	Max Allowed Power	26.0	21.0	22.0
		Nominal	25.0	20.0	21.0
NR Band n41 PC2 (Path 2)	E	Max Allowed Power	21.0	18.5	18.5
		Nominal	20.0	17.5	17.5
NR Band n41 PC1.5 UL-MIMO	F	Max Allowed Power	27.0	20.5	17.5
		Nominal	26.0	19.5	16.5
NR Band n41 PC1.5 UL-MIMO	B	Max Allowed Power	27.0	21.0	22.0
		Nominal	26.0	20.0	21.0
NR Band n41 PC1.5	E	Max Allowed Power	24.5	19.0	16.0
		Nominal	23.5	18.0	15.0
NR Band n41 PC1.5	D	Max Allowed Power	26.0	20.5	17.5
		Nominal	25.0	19.5	16.5
NR Band n38 (Path 1)	F	Max Allowed Power	25.0	20.5	17.5
		Nominal	24.0	19.5	16.5
NR Band n38 (Path 2)	B	Max Allowed Power	25.0	21.0	22.0
		Nominal	24.0	20.0	21.0
NR Band n48	F	Max Allowed Power	23.0	20.5	17.0
		Nominal	22.0	19.5	16.0
NR Band n48	C	Max Allowed Power	17.5	15.5	12.0
		Nominal	16.5	14.5	11.0
NR Band n48	I	Max Allowed Power	22.0	20.0	16.5
		Nominal	21.0	19.0	15.5
NR Band n48	D	Max Allowed Power	17.5	15.5	12.0
		Nominal	16.5	14.5	11.0
NR Band n78 PC2	F	Max Allowed Power	27.0	19.0	17.0
		Nominal	26.0	18.0	16.0
NR Band n78 PC2	C	Max Allowed Power	22.0	18.0	22.0
		Nominal	21.0	17.0	21.0
NR Band n78 PC2	I	Max Allowed Power	26.5	19.0	16.5
		Nominal	25.5	18.0	15.5
NR Band n78 PC2	D	Max Allowed Power	21.0	14.0	11.5
		Nominal	20.0	13.0	10.5
NR Band n77 PC2	F	Max Allowed Power	27.0	19.0	17.0
		Nominal	26.0	18.0	16.0
NR Band n77 PC2	C	Max Allowed Power	22.0	18.0	22.0
		Nominal	21.0	17.0	21.0
NR Band n77 PC2	I	Max Allowed Power	26.5	19.0	16.5
		Nominal	25.5	18.0	15.5
NR Band n77 PC2	D	Max Allowed Power	21.0	14.0	11.5
		Nominal	20.0	13.0	10.5
NR Band n77 PC1.5 UL-MIMO	F	Max Allowed Power	27.0	19.0	17.0
		Nominal	26.0	18.0	16.0
NR Band n77 PC1.5 UL-MIMO	C	Max Allowed Power	27.0	18.0	22.0
		Nominal	26.0	17.0	21.0
NR Band n77 PC1.5	I	Max Allowed Power	26.5	19.0	16.5
		Nominal	25.5	18.0	15.5
NR Band n77 PC1.5	D	Max Allowed Power	27.0	14.0	11.5
		Nominal	26.0	13.0	10.5

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

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2.3.2 2.4 GHz WLAN Output Power

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

- Pmax
- DSI=0 (Body-worn, Hotspot or Phablet)

[illegible]

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

- $DSI=1$ (RCV)

[illegible]

2.3.3 5 GHz WLAN Output Power

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

- P_{max}

[illegible]

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

- DSI=0 (Body-worn, Hotspot or Phablet), DSI=1 (Head)

[illegible]

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2.3.4 6 GHz WLAN Output Power

The below table is applicable in the following conditions:

- Pmax, DSI = 1 (Head)

		IEEE 802.11 Modulated/Frame Output Power (in dBm)																	
Mode	Band	SISO						SISO						SISO in MIMO					
		Antenna H						Antenna E						MIMO					
		a		ax (SU)		be (SU)		a		ax (SU)		be (SU)		a (CDD + STBC)		ax (SU) (CDD + STBC, SDM)		be (SU) (CDD + STBC, SDM)	
Maximum / Nominal Power		Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.
6 GHz WiFi (20MHz BW) - SP	UNII-5	17.0	16.0	17.0	16.0	17.0	16.0	17.0	16.0	17.0	16.0	17.0	16.0	17.0	16.0	17.0	16.0	17.0	16.0
	UNII-7	17.0	16.0	17.0	16.0	17.0	16.0	17.0	16.0	17.0	16.0	17.0	16.0	17.0	16.0	17.0	16.0	17.0	16.0
6 GHz WiFi (40MHz BW) - SP	UNII-5			17.0	16.0	17.0	16.0			17.0	16.0	17.0	16.0			17.0	16.0	17.0	16.0
	UNII-7			17.0	16.0	17.0	16.0			17.0	16.0	17.0	16.0			17.0	16.0	17.0	16.0
6 GHz WiFi (80MHz BW) - SP	UNII-5			16.0	15.0	16.0	15.0			16.0	15.0	16.0	15.0			16.0	15.0	16.0	15.0
	UNII-7			16.0	15.0	16.0	15.0			16.0	15.0	16.0	15.0			16.0	15.0	16.0	15.0
6 GHz WiFi (160MHz BW) - SP	UNII-5			15.0	14.0	15.0	14.0			15.0	14.0	15.0	14.0			15.0	14.0	15.0	14.0
	UNII-7			14.5	13.5	14.5	13.5			14.5	13.5	14.5	13.5			14.5	13.5	14.5	13.5
6 GHz WiFi (320MHz BW) - SP	UNII-5					15.0	14.0					15.0	14.0					15.0	14.0
	UNII-7					14.5	13.5					14.5	13.5					14.5	13.5
IEEE 802.11 Modulated/Frame Output Power (in dBm)																			
Mode	Band	SISO						SISO						SISO in MIMO					
		Antenna H						Antenna E						MIMO					
		a		ax (SU)		be (SU)		a		ax (SU)		be (SU)		a (CDD + STBC)		ax (SU) (CDD + STBC, SDM)		be (SU) (CDD + STBC, SDM)	
Maximum / Nominal Power		Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.
6 GHz WiFi (20MHz BW) - LPI	UNII-5	9.5	8.5	10.0	9.0	10.0	9.0	9.5	8.5	10.0	9.0	10.0	9.0	9.5	8.5	10.0	9.0	10.0	9.0
	UNII-6	10.0	9.0	10.0	9.0	10.0	9.0	10.0	9.0	10.0	9.0	10.0	9.0	10.0	9.0	10.0	9.0	10.0	9.0
	UNII-7	10.0	9.0	10.0	9.0	10.0	9.0	10.0	9.0	10.0	9.0	10.0	9.0	10.0	9.0	10.0	9.0	10.0	9.0
	UNII-8	10.0	9.0	10.0	9.0	10.0	9.0	10.0	9.0	10.0	9.0	10.0	9.0	10.0	9.0	10.0	9.0	10.0	9.0
6 GHz WiFi (40MHz BW) - LPI	UNII-5			13.0	12.0	13.0	12.0			13.0	12.0	13.0	12.0			13.0	12.0	13.0	12.0
	UNII-6			13.0	12.0	13.0	12.0			13.0	12.0	13.0	12.0			13.0	12.0	13.0	12.0
	UNII-7			13.0	12.0	13.0	12.0			13.0	12.0	13.0	12.0			13.0	12.0	13.0	12.0
	UNII-8			13.0	12.0	13.0	12.0			13.0	12.0	13.0	12.0			13.0	12.0	13.0	12.0
6 GHz WiFi (80MHz BW) - LPI	UNII-5			16.0	15.0	16.0	15.0			16.0	15.0	16.0	15.0			16.0	15.0	16.0	15.0
	UNII-6			16.0	15.0	16.0	15.0			16.0	15.0	16.0	15.0			16.0	15.0	16.0	15.0
	UNII-7			16.0	15.0	16.0	15.0			16.0	15.0	16.0	15.0			16.0	15.0	16.0	15.0
	UNII-8			15.5	14.5	15.5	14.5			15.5	14.5	15.5	14.5			15.5	14.5	15.5	14.5
6 GHz WiFi (160MHz BW) - LPI	UNII-5			15.0	14.0	15.0	14.0			15.0	14.0	15.0	14.0			15.0	14.0	15.0	14.0
	UNII-6			15.0	14.0	15.0	14.0			15.0	14.0	15.0	14.0			15.0	14.0	15.0	14.0
	UNII-7			14.5	13.5	14.5	13.5			14.5	13.5	14.5	13.5			14.5	13.5	14.5	13.5
	UNII-8			14.5	13.5	14.5	13.5			14.5	13.5	14.5	13.5			14.5	13.5	14.5	13.5
6 GHz WiFi (320MHz BW) - LPI	UNII-5					15.0	14.0					15.0	14.0					15.0	14.0
	UNII-6					15.0	14.0					15.0	14.0					15.0	14.0
	UNII-7					14.5	13.5					14.5	13.5					14.5	13.5
	UNII-8					14.5	13.5					14.5	13.5					14.5	13.5
IEEE 802.11 Modulated/Frame Output Power (in dBm)																			
Mode	Band	SISO						SISO						SISO in MIMO					
		Antenna H						Antenna E						MIMO					
		a		ax (SU)		be (SU)		a		ax (SU)		be (SU)		a (CDD + STBC)		ax (SU) (CDD + STBC, SDM)		be (SU) (CDD + STBC, SDM)	
Maximum / Nominal Power		Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.
6 GHz WiFi (20MHz BW) - VLP	UNII-5	5.5	4.5	6.0	5.0	6.0	5.0	5.5	4.5	6.0	5.0	6.0	5.0	5.5	4.5	6.0	5.0	6.0	5.0
	UNII-7	6.0	5.0	6.0	5.0	6.0	5.0	6.0	5.0	6.0	5.0	6.0	5.0	6.0	5.0	6.0	5.0	6.0	5.0
6 GHz WiFi (40MHz BW) - VLP	UNII-5			9.0	8.0	9.0	8.0			9.0	8.0	9.0	8.0			9.0	8.0	9.0	8.0
	UNII-7			9.0	8.0	9.0	8.0			9.0	8.0	9.0	8.0			9.0	8.0	9.0	8.0
6 GHz WiFi (80MHz BW) - VLP	UNII-5			12.0	11.0	12.0	11.0			12.0	11.0	12.0	11.0			12.0	11.0	12.0	11.0
	UNII-7			12.0	11.0	12.0	11.0			12.0	11.0	12.0	11.0			12.0	11.0	12.0	11.0
6 GHz WiFi (160MHz BW) - VLP	UNII-5			12.0	11.0	12.0	11.0			12.0	11.0	12.0	11.0			12.0	11.0	12.0	11.0
	UNII-7			12.0	11.0	12.0	11.0			12.0	11.0	12.0	11.0			12.0	11.0	12.0	11.0
6 GHz WiFi (320MHz BW) - VLP	UNII-5					12.0	11.0					12.0	11.0					12.0	11.0
	UNII-7					12.0	11.0					12.0	11.0					12.0	11.0

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The below table is applicable in the following conditions:

- DSI=0 (Body-worn or Phablet)

Mode	Band	IEEE 802.11 Modulated/Frame Output Power (in dBm)																	
		SISO						SISO						SISO in MIMO					
		Antenna H						Antenna E						MIMO					
		a		ax (SU)		be (SU)		a		ax (SU)		be (SU)		a (CDD + STBC)		ax (SU) (CDD + STBC, SDM)		be (SU) (CDD + STBC, SDM)	
Maximum / Nominal Power		Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.
6 GHz WiFi (20MHz BW) - LPI	UNII-5	9.0	8.0	9.0	8.0	9.0	8.0	9.0	8.0	9.0	8.0	9.0	8.0	9.0	8.0	9.0	8.0	9.0	8.0
	UNII-6	9.0	8.0	9.0	8.0	9.0	8.0	9.0	8.0	9.0	8.0	9.0	8.0	9.0	8.0	9.0	8.0	9.0	8.0
	UNII-7	9.0	8.0	9.0	8.0	9.0	8.0	9.0	8.0	9.0	8.0	9.0	8.0	9.0	8.0	9.0	8.0	9.0	8.0
	UNII-8	9.0	8.0	9.0	8.0	9.0	8.0	9.0	8.0	9.0	8.0	9.0	8.0	9.0	8.0	9.0	8.0	9.0	8.0
6 GHz WiFi (40MHz BW) - LPI	UNII-5			9.0	8.0	9.0	8.0			9.0	8.0	9.0	8.0			9.0	8.0	9.0	8.0
	UNII-6			9.0	8.0	9.0	8.0			9.0	8.0	9.0	8.0			9.0	8.0	9.0	8.0
	UNII-7			9.0	8.0	9.0	8.0			9.0	8.0	9.0	8.0			9.0	8.0	9.0	8.0
	UNII-8			9.0	8.0	9.0	8.0			9.0	8.0	9.0	8.0			9.0	8.0	9.0	8.0
6 GHz WiFi (80MHz BW) - LPI	UNII-5			9.0	8.0	9.0	8.0			9.0	8.0	9.0	8.0			9.0	8.0	9.0	8.0
	UNII-6			9.0	8.0	9.0	8.0			9.0	8.0	9.0	8.0			9.0	8.0	9.0	8.0
	UNII-7			9.0	8.0	9.0	8.0			9.0	8.0	9.0	8.0			9.0	8.0	9.0	8.0
	UNII-8			9.0	8.0	9.0	8.0			9.0	8.0	9.0	8.0			9.0	8.0	9.0	8.0
6 GHz WiFi (160MHz BW) - LPI	UNII-5			9.0	8.0	9.0	8.0			9.0	8.0	9.0	8.0			9.0	8.0	9.0	8.0
	UNII-6			9.0	8.0	9.0	8.0			9.0	8.0	9.0	8.0			9.0	8.0	9.0	8.0
	UNII-7			9.0	8.0	9.0	8.0			9.0	8.0	9.0	8.0			9.0	8.0	9.0	8.0
	UNII-8			9.0	8.0	9.0	8.0			9.0	8.0	9.0	8.0			9.0	8.0	9.0	8.0
6 GHz WiFi (320MHz BW) - LPI	UNII-5					9.0	8.0					9.0	8.0					9.0	8.0
	UNII-6					9.0	8.0					9.0	8.0					9.0	8.0
	UNII-7					9.0	8.0					9.0	8.0					9.0	8.0
	UNII-8					9.0	8.0					9.0	8.0					9.0	8.0
Mode	Band	IEEE 802.11 Modulated/Frame Output Power (in dBm)																	
		SISO						SISO						SISO in MIMO					
		Antenna H						Antenna E						MIMO					
		a		ax (SU)		be (SU)		a		ax (SU)		be (SU)		a (CDD + STBC)		ax (SU) (CDD + STBC, SDM)		be (SU) (CDD + STBC, SDM)	
Maximum / Nominal Power		Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.
6 GHz WiFi (20MHz BW) - SP	UNII-5	9.0	8.0	9.0	8.0	9.0	8.0	9.0	8.0	9.0	8.0	9.0	8.0	9.0	8.0	9.0	8.0	9.0	8.0
	UNII-7	9.0	8.0	9.0	8.0	9.0	8.0	9.0	8.0	9.0	8.0	9.0	8.0	9.0	8.0	9.0	8.0	9.0	8.0
6 GHz WiFi (40MHz BW) - SP	UNII-5			9.0	8.0	9.0	8.0			9.0	8.0	9.0	8.0			9.0	8.0	9.0	8.0
	UNII-7			9.0	8.0	9.0	8.0			9.0	8.0	9.0	8.0			9.0	8.0	9.0	8.0
6 GHz WiFi (80MHz BW) - SP	UNII-5			9.0	8.0	9.0	8.0			9.0	8.0	9.0	8.0			9.0	8.0	9.0	8.0
	UNII-7			9.0	8.0	9.0	8.0			9.0	8.0	9.0	8.0			9.0	8.0	9.0	8.0
6 GHz WiFi (160MHz BW) - SP	UNII-5			9.0	8.0	9.0	8.0			9.0	8.0	9.0	8.0			9.0	8.0	9.0	8.0
	UNII-7			9.0	8.0	9.0	8.0			9.0	8.0	9.0	8.0			9.0	8.0	9.0	8.0
6 GHz WiFi (320MHz BW) - SP	UNII-5					9.0	8.0					9.0	8.0					9.0	8.0
	UNII-7					9.0	8.0					9.0	8.0					9.0	8.0
Mode	Band	IEEE 802.11 Modulated/Frame Output Power (in dBm)																	
		SISO						SISO						SISO in MIMO					
		Antenna H						Antenna E						MIMO					
		a		ax (SU)		be (SU)		a		ax (SU)		be (SU)		a (CDD + STBC)		ax (SU) (CDD + STBC, SDM)		be (SU) (CDD + STBC, SDM)	
Maximum / Nominal Power		Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.
6 GHz WiFi (20MHz BW) - VLP	UNII-5	5.5	4.5	6.0	5.0	6.0	5.0	5.5	4.5	6.0	5.0	6.0	5.0	5.5	4.5	6.0	5.0	6.0	5.0
	UNII-7	6.0	5.0	6.0	5.0	6.0	5.0	6.0	5.0	6.0	5.0	6.0	5.0	6.0	5.0	6.0	5.0	6.0	5.0
6 GHz WiFi (40MHz BW) - VLP	UNII-5			9.0	8.0	9.0	8.0			9.0	8.0	9.0	8.0			9.0	8.0	9.0	8.0
	UNII-7			9.0	8.0	9.0	8.0			9.0	8.0	9.0	8.0			9.0	8.0	9.0	8.0
6 GHz WiFi (80MHz BW) - VLP	UNII-5			9.0	8.0	9.0	8.0			9.0	8.0	9.0	8.0			9.0	8.0	9.0	8.0
	UNII-7			9.0	8.0	9.0	8.0			9.0	8.0	9.0	8.0			9.0	8.0	9.0	8.0
6 GHz WiFi (160MHz BW) - VLP	UNII-5			9.0	8.0	9.0	8.0			9.0	8.0	9.0	8.0			9.0	8.0	9.0	8.0
	UNII-7			9.0	8.0	9.0	8.0			9.0	8.0	9.0	8.0			9.0	8.0	9.0	8.0
6 GHz WiFi (320MHz BW) - VLP	UNII-5					9.0	8.0					9.0	8.0					9.0	8.0
	UNII-7					9.0	8.0					9.0	8.0					9.0	8.0

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2.3.5 2.4 GHz Maximum Bluetooth Output Power

The below table is applicable in the following conditions:

- P_{max}, DSI=0 (Body-worn, Hotspot or Phablet), DSI=1 (Head)

Mode	Data Rate	Modulated Output Power (in dBm)							
		Single Antenna				Each Chain in Dual Mode			
		Antenna H		Antenna J		Antenna H		Antenna J	
Maximum / Nominal Power		Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.
Bluetooth	1Mbps	19.5	18.5	19.5	18.5	15.5	14.5	15.5	14.5
Bluetooth EDR	2Mbps	16.5	15.5	16.5	15.5	12.5	11.5	12.5	11.5
Bluetooth EDR	3Mbps	16.0	15.0	16.0	15.0	12.5	11.5	12.5	11.5
Bluetooth LE	1Mbps	20.5	19.5	20.0	19.0	15.5	14.5	14.0	13.0
Bluetooth LE	2Mbps	20.5	19.5	20.0	19.0	15.5	14.5	14.0	13.0
Bluetooth LE	125kbps	13.0	12.0	11.0	10.0	N/A	N/A	N/A	N/A
Bluetooth LE	500kbps	13.0	12.0	11.0	10.0	N/A	N/A	N/A	N/A

2.4 DUT Antenna Locations

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

Table 2-1
Device Edges/Sides for SAR Testing

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

Note: Particular DUT edges were not required to be evaluated for wireless router SAR or phablet SAR if the edges were greater than 2.5 cm from the transmitting antenna according to FCC KDB Publication 941225 D06v02r01 Section III and FCC KDB Publication 648474 D01v06r03. The distances between the transmit antennas and the edges of the device are included in the filing. When wireless router mode is enabled, NTN, U-NII-1, U-NII-2A, U-NII-2C, U-NII-4, and WiFi6E operations are disabled.

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2.5 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 & SAR Test Setup Photographs Appendix.

2.6 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.

**Table 2-2
Simultaneous Transmission Scenarios**

No.	Capable Transmitter Configuration	Head	Body Worn	Vehicle	Portable	Notes
1	DSM voice + 2.4 GHz Bluetooth SSID	Yes*	Yes	N/A	Yes	* Bluetooth tethering is considered
2	DSM voice + 2.4 GHz Bluetooth MMIO	Yes*	Yes	N/A	Yes	* Bluetooth tethering is considered
3	DSM voice + 2.4 GHz WLAN SSID	Yes	Yes	N/A	Yes	
4	DSM voice + 2.4 GHz WLAN MMIO	Yes	Yes	N/A	Yes	
5	DSM voice + 5 GHz WLAN SSID	Yes	Yes	N/A	Yes	
6	DSM voice + 5 GHz WLAN MMIO	Yes	Yes	N/A	Yes	
7	DSM voice + 6 GHz WLAN SSID	Yes	Yes	N/A	Yes	
8	DSM voice + 6 GHz WLAN MMIO	Yes	Yes	N/A	Yes	
9	DSM voice + 2.4 GHz WLAN MMIO + 5 GHz WLAN SSID	Yes	Yes	N/A	Yes	
10	DSM voice + 2.4 GHz WLAN MMIO + 5 GHz WLAN MMIO	Yes	Yes	N/A	Yes	
11	DSM voice + 2.4 GHz WLAN MMIO + 6 GHz WLAN SSID	Yes	Yes	N/A	Yes	
12	DSM voice + 2.4 GHz WLAN MMIO + 6 GHz WLAN MMIO	Yes	Yes	N/A	Yes	
13	DSM voice + 2.4 GHz WLAN SSID + 5 GHz WLAN MMIO	Yes	Yes	N/A	Yes	
14	DSM voice + 2.4 GHz WLAN SSID + 6 GHz WLAN MMIO	Yes	Yes	N/A	Yes	
15	DSM voice + 2.4 GHz WLAN SSID + 5 GHz WLAN SSID	Yes	Yes	N/A	Yes	
16	DSM voice + 2.4 GHz WLAN SSID + 6 GHz WLAN SSID	Yes	Yes	N/A	Yes	
17	DSM voice + 2.4 GHz Bluetooth SSID + 5 GHz WLAN SSID	Yes*	Yes	N/A	Yes	* Bluetooth tethering is considered
18	DSM voice + 2.4 GHz Bluetooth SSID + 5 GHz WLAN MMIO	Yes*	Yes	N/A	Yes	* Bluetooth tethering is considered
19	DSM voice + 2.4 GHz Bluetooth SSID + 6 GHz WLAN SSID	Yes*	Yes	N/A	Yes	* Bluetooth tethering is considered
20	DSM voice + 2.4 GHz Bluetooth SSID + 6 GHz WLAN MMIO	Yes*	Yes	N/A	Yes	* Bluetooth tethering is considered
21	DSM voice + 2.4 GHz Bluetooth MMIO + 5 GHz WLAN SSID	Yes*	Yes	N/A	Yes	* Bluetooth tethering is considered
22	DSM voice + 2.4 GHz Bluetooth MMIO + 5 GHz WLAN MMIO	Yes*	Yes	N/A	Yes	* Bluetooth tethering is considered
23	DSM voice + 2.4 GHz Bluetooth MMIO + 6 GHz WLAN SSID	Yes*	Yes	N/A	Yes	* Bluetooth tethering is considered
24	DSM voice + 2.4 GHz Bluetooth MMIO + 6 GHz WLAN MMIO	Yes*	Yes	N/A	Yes	* Bluetooth tethering is considered
25	DSM voice + 2.4 GHz Bluetooth Ant H + 2.4 GHz WLAN Ant I + 5 GHz WLAN SSID	Yes*	Yes	N/A	Yes	* Bluetooth tethering is considered
26	DSM voice + 2.4 GHz Bluetooth Ant H + 2.4 GHz WLAN Ant I + 5 GHz WLAN MMIO	Yes*	Yes	N/A	Yes	* Bluetooth tethering is considered
27	DSM voice + 2.4 GHz Bluetooth Ant H + 2.4 GHz WLAN Ant I + 6 GHz WLAN SSID	Yes*	Yes	N/A	Yes	* Bluetooth tethering is considered
28	DSM voice + 2.4 GHz Bluetooth Ant H + 2.4 GHz WLAN Ant I + 6 GHz WLAN MMIO	Yes*	Yes	N/A	Yes	* Bluetooth tethering is considered
29	DSM/VLTE/NR + 2.4 GHz Bluetooth SSID	Yes*	Yes	Yes*	Yes	* Bluetooth tethering is considered
30	DSM/VLTE/NR + 2.4 GHz Bluetooth MMIO	Yes*	Yes	Yes*	Yes	* Bluetooth tethering is considered
31	DSM/VLTE/NR + 2.4 GHz WLAN SSID	Yes	Yes	Yes	Yes	
32	DSM/VLTE/NR + 2.4 GHz WLAN MMIO	Yes	Yes	Yes	Yes	
33	DSM/VLTE/NR + 5 GHz WLAN SSID	Yes	Yes	Yes	Yes	
34	DSM/VLTE/NR + 5 GHz WLAN MMIO	Yes	Yes	Yes	Yes	
35	DSM/VLTE/NR + 6 GHz WLAN SSID	Yes	Yes	Yes	Yes	
36	DSM/VLTE/NR + 2.4 GHz WLAN MMIO + 5 GHz WLAN SSID	Yes	Yes	Yes	Yes	
37	DSM/VLTE/NR + 2.4 GHz WLAN MMIO + 6 GHz WLAN SSID	Yes	Yes	Yes	Yes	
38	DSM/VLTE/NR + 2.4 GHz WLAN MMIO + 6 GHz WLAN MMIO	Yes	Yes	Yes	Yes	
39	DSM/VLTE/NR + 2.4 GHz WLAN MMIO + 5 GHz WLAN SSID	Yes	Yes	Yes	Yes	
40	DSM/VLTE/NR + 2.4 GHz WLAN MMIO + 6 GHz WLAN MMIO	Yes	Yes	Yes	Yes	
41	DSM/VLTE/NR + 5 GHz WLAN SSID + 6 GHz WLAN SSID	Yes	Yes	Yes	Yes	
42	DSM/VLTE/NR + 2.4 GHz WLAN SSID + 5 GHz WLAN MMIO	Yes	Yes	Yes	Yes	
43	DSM/VLTE/NR + 2.4 GHz WLAN SSID + 6 GHz WLAN MMIO	Yes	Yes	Yes	Yes	
44	DSM/VLTE/NR + 2.4 GHz WLAN SSID + 5 GHz WLAN MMIO	Yes	Yes	Yes	Yes	
45	DSM/VLTE/NR + 2.4 GHz Bluetooth SSID + 5 GHz WLAN SSID	Yes*	Yes	Yes*	Yes	* Bluetooth tethering is considered
46	DSM/VLTE/NR + 2.4 GHz Bluetooth SSID + 5 GHz WLAN MMIO	Yes*	Yes	Yes*	Yes	* Bluetooth tethering is considered
47	DSM/VLTE/NR + 2.4 GHz Bluetooth SSID + 6 GHz WLAN SSID	Yes*	Yes	Yes*	Yes	* Bluetooth tethering is considered
48	DSM/VLTE/NR + 2.4 GHz Bluetooth SSID + 6 GHz WLAN MMIO	Yes*	Yes	Yes*	Yes	* Bluetooth tethering is considered
49	DSM/VLTE/NR + 2.4 GHz Bluetooth MMIO + 5 GHz WLAN SSID	Yes*	Yes	Yes*	Yes	* Bluetooth tethering is considered
50	DSM/VLTE/NR + 2.4 GHz Bluetooth MMIO + 5 GHz WLAN MMIO	Yes*	Yes	Yes*	Yes	* Bluetooth tethering is considered
51	DSM/VLTE/NR + 2.4 GHz Bluetooth MMIO + 6 GHz WLAN SSID	Yes*	Yes	Yes*	Yes	* Bluetooth tethering is considered
52	DSM/VLTE/NR + 2.4 GHz Bluetooth MMIO + 6 GHz WLAN MMIO	Yes*	Yes	Yes*	Yes	* Bluetooth tethering is considered
53	DSM/VLTE/NR + 2.4 GHz Bluetooth Ant H + 2.4 GHz WLAN Ant I + 5 GHz WLAN SSID	Yes*	Yes	Yes*	Yes	* Bluetooth tethering is considered
54	DSM/VLTE/NR + 2.4 GHz Bluetooth Ant H + 2.4 GHz WLAN Ant I + 5 GHz WLAN MMIO	Yes*	Yes	Yes*	Yes	* Bluetooth tethering is considered
55	DSM/VLTE/NR + 2.4 GHz Bluetooth Ant H + 2.4 GHz WLAN Ant I + 6 GHz WLAN SSID	Yes*	Yes	Yes*	Yes	* Bluetooth tethering is considered
56	DSM/VLTE/NR + 2.4 GHz Bluetooth Ant H + 2.4 GHz WLAN Ant I + 6 GHz WLAN MMIO	Yes*	Yes	Yes*	Yes	* Bluetooth tethering is considered
57	LTE + NR	Yes	Yes	N/A	Yes	
58	LTE + NR + 2.4 GHz Bluetooth SSID	Yes*	Yes	Yes*	Yes	* Bluetooth tethering is considered
59	LTE + NR + 2.4 GHz Bluetooth MMIO	Yes*	Yes	Yes*	Yes	* Bluetooth tethering is considered
60	LTE + NR + 2.4 GHz WLAN SSID	Yes	Yes	Yes	Yes	
61	LTE + NR + 2.4 GHz WLAN MMIO	Yes	Yes	Yes	Yes	
62	LTE + NR + 5 GHz WLAN SSID	Yes	Yes	Yes	Yes	
63	LTE + NR + 5 GHz WLAN MMIO	Yes	Yes	Yes	Yes	
64	LTE + NR + 6 GHz WLAN SSID	Yes	Yes	Yes	Yes	
65	LTE + NR + 6 GHz WLAN MMIO	Yes	Yes	Yes	Yes	
66	LTE + NR + 2.4 GHz WLAN MMIO + 5 GHz WLAN SSID	Yes	Yes	N/A	Yes	
67	LTE + NR + 2.4 GHz WLAN MMIO + 6 GHz WLAN SSID	Yes	Yes	N/A	Yes	
68	LTE + NR + 2.4 GHz WLAN MMIO + 6 GHz WLAN MMIO	Yes	Yes	Yes	Yes	
69	LTE + NR + 2.4 GHz WLAN SSID + 5 GHz WLAN MMIO	Yes	Yes	Yes	Yes	
70	LTE + NR + 2.4 GHz WLAN SSID + 6 GHz WLAN MMIO	Yes	Yes	Yes	Yes	
71	LTE + NR + 2.4 GHz WLAN SSID + 5 GHz WLAN SSID	Yes	Yes	N/A	Yes	
72	LTE + NR + 2.4 GHz WLAN SSID + 6 GHz WLAN SSID	Yes	Yes	Yes	Yes	
73	LTE + NR + 2.4 GHz WLAN SSID + 6 GHz WLAN MMIO	Yes	Yes	Yes	Yes	
74	LTE + NR + 2.4 GHz WLAN SSID + 5 GHz WLAN MMIO	Yes*	Yes	Yes*	Yes	* Bluetooth tethering is considered
75	LTE + NR + 2.4 GHz Bluetooth SSID + 5 GHz WLAN MMIO	Yes*	Yes	Yes*	Yes	* Bluetooth tethering is considered
76	LTE + NR + 2.4 GHz Bluetooth SSID + 6 GHz WLAN SSID	Yes*	Yes	Yes*	Yes	* Bluetooth tethering is considered
77	LTE + NR + 2.4 GHz Bluetooth SSID + 6 GHz WLAN MMIO	Yes*	Yes	Yes*	Yes	* Bluetooth tethering is considered
78	LTE + NR + 2.4 GHz Bluetooth MMIO + 5 GHz WLAN SSID	Yes*	Yes	Yes*	Yes	* Bluetooth tethering is considered
79	LTE + NR + 2.4 GHz Bluetooth MMIO + 5 GHz WLAN MMIO	Yes*	Yes	Yes*	Yes	* Bluetooth tethering is considered
80	LTE + NR + 2.4 GHz Bluetooth MMIO + 6 GHz WLAN SSID	Yes*	Yes	Yes*	Yes	* Bluetooth tethering is considered
81	LTE + NR + 2.4 GHz Bluetooth MMIO + 6 GHz WLAN MMIO	Yes*	Yes	Yes*	Yes	* Bluetooth tethering is considered
82	LTE + NR + 2.4 GHz Bluetooth Ant H + 2.4 GHz WLAN Ant I + 5 GHz WLAN SSID	Yes*	Yes	Yes*	Yes	* Bluetooth tethering is considered
83	LTE + NR + 2.4 GHz Bluetooth Ant H + 2.4 GHz WLAN Ant I + 5 GHz WLAN MMIO	Yes*	Yes	Yes*	Yes	* Bluetooth tethering is considered
84	LTE + NR + 2.4 GHz Bluetooth Ant H + 2.4 GHz WLAN Ant I + 6 GHz WLAN SSID	Yes*	Yes	Yes*	Yes	* Bluetooth tethering is considered
85	LTE + NR + 2.4 GHz Bluetooth Ant H + 2.4 GHz WLAN Ant I + 6 GHz WLAN MMIO	Yes*	Yes	Yes*	Yes	* Bluetooth tethering is considered
86	OPUS/EDSC + 2.4 GHz Bluetooth SSID	N/A	N/A	Yes*	Yes	* Bluetooth tethering is considered
87	OPUS/EDSC + 2.4 GHz Bluetooth MMIO	N/A	N/A	Yes*	Yes	* Bluetooth tethering is considered
88	OPUS/EDSC + 2.4 GHz WLAN SSID	N/A	N/A	Yes	Yes	
89	OPUS/EDSC + 2.4 GHz WLAN MMIO	N/A	N/A	N/A	Yes	
90	OPUS/EDSC + 5 GHz WLAN SSID	N/A	N/A	Yes	Yes	
91	OPUS/EDSC + 5 GHz WLAN MMIO	N/A	N/A	Yes	Yes	
92	OPUS/EDSC + 6 GHz WLAN SSID	N/A	N/A	Yes	Yes	
93	OPUS/EDSC + 6 GHz WLAN MMIO	N/A	N/A	Yes	Yes	
94	OPUS/EDSC + 2.4 GHz WLAN MMIO + 5 GHz WLAN SSID	N/A	N/A	N/A	Yes	
95	OPUS/EDSC + 2.4 GHz WLAN MMIO + 6 GHz WLAN SSID	N/A	N/A	N/A	Yes	
96	OPUS/EDSC + 2.4 GHz WLAN MMIO + 6 GHz WLAN MMIO	N/A	N/A	Yes	Yes	
97	OPUS/EDSC + 2.4 GHz WLAN SSID + 5 GHz WLAN MMIO	N/A	N/A	Yes	Yes	
98	OPUS/EDSC + 2.4 GHz WLAN SSID + 6 GHz WLAN MMIO	N/A	N/A	Yes	Yes	
99	OPUS/EDSC + 2.4 GHz WLAN SSID + 6 GHz WLAN SSID	N/A	N/A	Yes	Yes	
100	OPUS/EDSC + 2.4 GHz WLAN SSID + 6 GHz WLAN MMIO	N/A	N/A	Yes	Yes	
101	OPUS/EDSC + 2.4 GHz Bluetooth SSID + 5 GHz WLAN SSID	N/A	N/A	Yes*	Yes	* Bluetooth tethering is considered
102	OPUS/EDSC + 2.4 GHz Bluetooth SSID + 5 GHz WLAN MMIO	N/A	N/A	Yes*	Yes	* Bluetooth tethering is considered
103	OPUS/EDSC + 2.4 GHz Bluetooth SSID + 6 GHz WLAN SSID	N/A	N/A	Yes*	Yes	* Bluetooth tethering is considered
104	OPUS/EDSC + 2.4 GHz Bluetooth SSID + 6 GHz WLAN MMIO	N/A	N/A	Yes*	Yes	* Bluetooth tethering is considered
105	OPUS/EDSC + 2.4 GHz Bluetooth MMIO + 5 GHz WLAN SSID	N/A	N/A	Yes*	Yes	* Bluetooth tethering is considered
106	OPUS/EDSC + 2.4 GHz Bluetooth MMIO + 5 GHz WLAN MMIO	N/A	N/A	Yes*	Yes	* Bluetooth tethering is considered
107	OPUS/EDSC + 2.4 GHz Bluetooth MMIO + 6 GHz WLAN SSID	N/A	N/A	Yes*	Yes	* Bluetooth tethering is considered
108	OPUS/EDSC + 2.4 GHz Bluetooth MMIO + 6 GHz WLAN MMIO	N/A	N/A	Yes*	Yes	* Bluetooth tethering is considered
109	OPUS/EDSC + 2.4 GHz Bluetooth Ant H + 2.4 GHz WLAN Ant I + 5 GHz WLAN SSID	N/A	N/A	Yes*	Yes	* Bluetooth tethering is considered
110	OPUS/EDSC + 2.4 GHz Bluetooth Ant H + 2.4 GHz WLAN Ant I + 5 GHz WLAN MMIO	N/A	N/A	Yes*	Yes	* Bluetooth tethering is considered
111	OPUS/EDSC + 2.4 GHz Bluetooth Ant H + 2.4 GHz WLAN Ant I + 6 GHz WLAN SSID	N/A	N/A	Yes*	Yes	* Bluetooth tethering is considered
112	OPUS/EDSC + 2.4 GHz Bluetooth Ant H + 2.4 GHz WLAN Ant I + 6 GHz WLAN MMIO	N/A	N/A	Yes*	Yes	* Bluetooth tethering is considered
113	OPUS/EDSC + 2.4 GHz Bluetooth Ant H + 2.4 GHz WLAN Ant I + 6 GHz WLAN SSID	N/A	N/A	Yes*	Yes	* Bluetooth tethering is considered

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1. SISO represents 2.4 GHz WLAN/BT transmission on Ant H or Ant J, and 5/6 GHz transmission on Ant H or Ant E.
2. When the user utilizes multiple services in UMTS 3G mode it uses multi-Radio Access Bearer or multi-RAB. The power control is based on a physical control channel (Dedicated Physical Control Channel [DPCCH]) and power control will be adjusted to meet the needs of both services. Therefore, the UMTS+WLAN scenario also represents the UMTS Voice/DATA + WLAN Hotspot scenario.
3. Per the manufacturer, WIFI Direct is not expected to be used in conjunction with a held-to-ear or body-worn accessory voice call. Therefore, there are no simultaneous transmission scenarios involving WIFI direct beyond that listed in the above table.
4. 5 GHz Wireless Router is only supported for the U-NII-3 by S/W, therefore U-NII-1, U-NII-2A, U-NII-2C, and U-NII-4 were not evaluated for wireless router conditions.
5. 6 GHz Wireless Router is not supported, therefore it was not evaluated for wireless router conditions.
6. This device supports 2x2 MIMO Tx for WLAN 802.11a/b/g/n/ac/ax/be. 802.11a/b/g/n/ac/ax/be supports CDD and STBC and 802.11n/ac/ax/be additionally supports SDM.
7. This device supports VoWIFI.
8. This device supports Bluetooth Tethering on Ant H only.
9. This device supports VoLTE.
10. This device supports VoNR.
11. LTE + 5G NR FR1 Scenarios are limited to EN-DC combinations with anchor bands as shown in the NR FR1 checklist.
12. 5G NR FR2 n258, n260, and n261 cannot transmit simultaneously.
13. LTE + 5G NR FR2 and 5G NR1 + 5G NR FR2 scenarios are limited to combinations with anchor bands as shown in the NR FR2 checklist.
14. UWB and NFC were evaluated for phablet based on expected usage conditions.
15. NB NTN-IoT only transmits only when the device is set to satellite mode and does not transmit with any other radios simultaneously.

2.7 Miscellaneous SAR Test Considerations

(A) WIFI/BT

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

Since Wireless Router operations are not allowed by the chipset firmware using U-NII-1, U-NII-2A, U-NII-2C, U-NII-4 WIFI and 6 GHz, 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/be with the following features:

- a) Up to 320 MHz Bandwidth only for 6GHz
- b) Up to 160 MHz Bandwidth only for 5/6 GHz
- c) Up to 20 MHz Bandwidth only for 2.4 GHz
- d) 2 Tx antenna output
- e) Up to 4KQAM is supported
- f) TDWR and Band gap channels are supported for 5/6 GHz
- g) MU-MIMO UL Operations are not supported

Per FCC KDB Publication 648474 D01v06r03, this device is considered a "phablet" since the display diagonal dimension is greater than 150mm and less than 200mm. Phablet SAR tests are required when wireless router mode does not apply or if wireless router 1g SAR > 1.2 W/kg. Because wireless router operations are not supported for U-NII-1, U-NII-2A, U-NII-2C, U-NII-4 WIFI and 6 GHz, phablet SAR tests were performed. Phablet SAR was not evaluated for 2.4 GHz WLAN, 2.4 GHz Bluetooth, and U-NII-3 WLAN operations since wireless router 1g SAR was < 1.2 W/kg.

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Per April 2019 TCB Workshop Notes and FCC guidance, SAR testing for 802.11ax/be follows initial test configuration procedures of KDB 248227, with 802.11ax/be considered a higher order 802.11 mode.

Per FCC guidance, SAR was performed using 6.5 GHz SAR probe calibration factors for WIFI 6GHz/UWB and 8GHz SAR probe calibration factors for UWB. FCC KDB 648474, FCC KDB 941225 D07 and FCC KDB 248227 were followed for test positions, distances, and modes. Absorbed power density (APD) using a 4cm² averaging area is reported based on SAR measurements. Incident power density is evaluated at 2mm ensuring that the resolution is sufficient such that integrated power density (iPD) between d=2mm and d=λ/5mm is ≥ -1dB per equipment manufacturer guidance. Power density results are scaled up for uncertainty above 30%. Per TCB workshop October 2020 notes, 5 channels were tested for WIFI 6 GHz.

(B) Licensed Transmitter(s)

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

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

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

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

Per FCC KDB Publication 648474 D01v06r03, this device is considered a "phablet" since the display diagonal dimension is greater than 150mm and less than 200mm. Therefore, phablet SAR tests are required when wireless router mode does not apply or if wireless router 1g SAR > 1.2 W/kg.

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

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

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

This device can transmit with antenna switching for bands/modes on antenna A,B,E, and F. SAR tests were performed for each antenna where switching is used per band/mode to ensure compliance. Antennas and indicated band/modes are included in section 2.3.1 of this report .

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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).

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

This device supports 5G NR for Bands n258, n260, and n261. RF Exposure assessment and simultaneous transmission analysis for these bands can be found in the Near Field PD Report (report SN can be found in Section 2.10 – Bibliography).

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

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

Per Qualcomm guidance in 80-W2112-4, when hotspot mode applies, 10-g extremity SAR is required for the surfaces and edges with hotspot mode 1g reported SAR > 1.2 W/kg. For surfaces and edges with hotspot mode 1g SAR < 1.2 W/kg, the 10-g extremity can be excluded when the normalized *SAR_design_target* for extremity DSI is less than or equal to that of hotspot DSI.

$$SAR_design_target_extremity \leq \frac{SAR_design_target_hotspot}{1g\ SAR\ limit} * 10g\ SAR\ limit$$

2.8 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 D01v06r03 (Phablet Procedures)
- October 2013 TCB Workshop Notes (GPRS Testing Considerations)
- May 2017 TCB Workshop Notes (LTE 4x4 Downlink MIMO)
- November 2017, April 2018, October 2018 TCB Workshop Notes (LTE Carrier Aggregation)
- April 2019 TCB Workshop Notes (IEEE 802.11ax, Dynamic Antenna Tuning)
- November 2017, October 2018, April 2019, November 2019, October 2020 TCBC Workshop Notes (6-8 GHz)
- SPEAG DASY6 Application Note (Interim Procedures for Devices Operating at 6-10 GHz) (Nov 2021)
- IEC/IEEE 63195-1:2022
- IEC 62479:2010

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2.9 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 12.

2.10 Bibliography

Report Type	Report Serial Number
PD Part 1 Test Report	1M2408260067-25.A3L
PD Part 0 Test Report	
RF Exposure Part 2 Test Report	1M2408260067-24.A3L
RF Exposure Compliance Summary Report	1M2408260067-26.A3L
RF Exposure Part 0 Test Report	1M2408260067-31.A3L

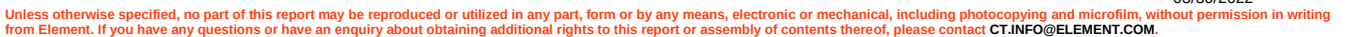
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3 LTE AND NR INFORMATION

LTE Information					
Form Factor	Portable Handset				
Frequency Range of each LTE transmission band	LTE Band 71: 665.5 - 695.5 MHz LTE Band 12: 699.7 - 715.3 MHz LTE Band 13: 779.5 - 784.5 MHz LTE Band 14: 793.5 - 795.5 MHz LTE Band 26: 824.7 - 848.3 MHz LTE Band 5: 824.7 - 848.3 MHz LTE Band 66: 1710.7 - 1779.3 MHz LTE Band 4: 1710.7 - 1754.3 MHz LTE Band 25: 1850.7 - 1914.3 MHz LTE Band 2: 1850.7 - 1909.3 MHz LTE Band 30: 2307.5 - 2312.5 MHz LTE Band 7: 2502.5 - 2567.5 MHz LTE Band 41: 2498.5 - 2687.5 MHz LTE Band 38: 2572.5 - 2617.5 MHz LTE Band 48: 3552.5 - 3597.5 MHz				
Channel Bandwidths	LTE Band 71: 5 MHz, 10 MHz, 15 MHz, 20 MHz LTE Band 12: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz LTE Band 13: 5 MHz, 10 MHz LTE Band 14: 5 MHz, 10 MHz LTE Band 26: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz LTE Band 5: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz LTE Band 66: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz LTE Band 4: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz LTE Band 25: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz LTE Band 2: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz LTE Band 30: 5 MHz, 10 MHz LTE Band 7: 5 MHz, 10 MHz, 15 MHz, 20 MHz LTE Band 41: 5 MHz, 10 MHz, 15 MHz, 20 MHz LTE Band 38: 5 MHz, 10 MHz, 15 MHz, 20 MHz LTE Band 48: 5 MHz, 10 MHz, 15 MHz, 20 MHz				
Channel Numbers and Frequencies (MHz)	Low	Low-Mid	Mid	Mid-High	High
LTE Band 71: 5 MHz	665.5 (133447)	665.5 (133447)	665.5 (133447)	665.5 (133447)	665.5 (133447)
LTE Band 71: 10 MHz	668 (133172)	668.5 (133297)	669 (133422)	669 (133422)	669 (133422)
LTE Band 71: 15 MHz	670.5 (133197)	680.5 (133297)	690.5 (133397)	690.5 (133397)	690.5 (133397)
LTE Band 71: 20 MHz	673 (133222)	680.5 (133297)	688 (133372)	688 (133372)	688 (133372)
LTE Band 12: 1.4 MHz	699.7 (23017)	707.5 (23096)	715.3 (23173)	715.3 (23173)	715.3 (23173)
LTE Band 12: 3 MHz	703.5 (23029)	707.5 (23096)	714.5 (23148)	714.5 (23148)	714.5 (23148)
LTE Band 12: 5 MHz	701.5 (23036)	707.5 (23096)	713.5 (23156)	713.5 (23156)	713.5 (23156)
LTE Band 12: 10 MHz	704 (23060)	707.5 (23096)	711 (23130)	711 (23130)	711 (23130)
LTE Band 13: 5 MHz	779.5 (23205)	782 (23230)	784.5 (23255)	784.5 (23255)	784.5 (23255)
LTE Band 13: 10 MHz	(N/A)	782 (23230)	(N/A)	(N/A)	(N/A)
LTE Band 14: 5 MHz	790.5 (23305)	793 (23330)	795.5 (23360)	795.5 (23360)	795.5 (23360)
LTE Band 14: 10 MHz	(N/A)	793 (23330)	(N/A)	(N/A)	(N/A)
LTE Band 26: 1.4 MHz	814.7 (26697)	831.5 (26865)	848.3 (27033)	848.3 (27033)	848.3 (27033)
LTE Band 26: 3 MHz	815.5 (26705)	831.5 (26865)	847.5 (27025)	847.5 (27025)	847.5 (27025)
LTE Band 26: 5 MHz	816.5 (26715)	831.5 (26865)	846.5 (27015)	846.5 (27015)	846.5 (27015)
LTE Band 26: 10 MHz	819 (26740)	831.5 (26865)	844 (26995)	844 (26995)	844 (26995)
LTE Band 26: 15 MHz	821.5 (26765)	831.5 (26865)	841.5 (26965)	841.5 (26965)	841.5 (26965)
LTE Band 5: 1.4 MHz	824.7 (20407)	836.5 (20525)	848.3 (20643)	848.3 (20643)	848.3 (20643)
LTE Band 5: 3 MHz	825.5 (20415)	836.5 (20525)	847.5 (20635)	847.5 (20635)	847.5 (20635)
LTE Band 5: 5 MHz	826.5 (20425)	836.5 (20525)	846.5 (20625)	846.5 (20625)	846.5 (20625)
LTE Band 5: 10 MHz	829 (20450)	836.5 (20525)	844 (20600)	844 (20600)	844 (20600)
LTE Band 66: 1.4 MHz	1710.7 (131979)	1745 (132322)	1779.3 (132665)	1779.3 (132665)	1779.3 (132665)
LTE Band 66: 3 MHz	1711.5 (131987)	1745 (132322)	1778.5 (132657)	1778.5 (132657)	1778.5 (132657)
LTE Band 66: 5 MHz	1712.5 (131997)	1745 (132322)	1777.5 (132647)	1777.5 (132647)	1777.5 (132647)
LTE Band 66: 10 MHz	1715 (132022)	1745 (132322)	1775 (132622)	1775 (132622)	1775 (132622)
LTE Band 66: 15 MHz	1717.5 (132047)	1745 (132322)	1772.5 (132597)	1772.5 (132597)	1772.5 (132597)
LTE Band 66: 20 MHz	1720 (132072)	1745 (132322)	1770 (132572)	1770 (132572)	1770 (132572)
LTE Band 4: 1.4 MHz	1710.7 (19957)	1732.5 (20175)	1754.3 (20393)	1754.3 (20393)	1754.3 (20393)
LTE Band 4: 3 MHz	1711.5 (19965)	1732.5 (20175)	1753.5 (20385)	1753.5 (20385)	1753.5 (20385)
LTE Band 4: 5 MHz	1712.5 (19975)	1732.5 (20175)	1752.5 (20375)	1752.5 (20375)	1752.5 (20375)
LTE Band 4: 10 MHz	1715 (20000)	1732.5 (20175)	1750 (20350)	1750 (20350)	1750 (20350)
LTE Band 4: 15 MHz	1717.5 (20025)	1732.5 (20175)	1747.5 (20325)	1747.5 (20325)	1747.5 (20325)
LTE Band 4: 20 MHz	1720 (20050)	1732.5 (20175)	1745 (20300)	1745 (20300)	1745 (20300)
LTE Band 25: 1.4 MHz	1850.7 (26047)	1882.5 (26365)	1914.3 (26683)	1914.3 (26683)	1914.3 (26683)
LTE Band 25: 3 MHz	1851.5 (26055)	1882.5 (26365)	1913.5 (26675)	1913.5 (26675)	1913.5 (26675)
LTE Band 25: 5 MHz	1852.5 (26065)	1882.5 (26365)	1912.5 (26665)	1912.5 (26665)	1912.5 (26665)
LTE Band 25: 10 MHz	1855 (26090)	1882.5 (26365)	1910 (26640)	1910 (26640)	1910 (26640)
LTE Band 25: 15 MHz	1857.5 (26115)	1882.5 (26365)	1907.5 (26615)	1907.5 (26615)	1907.5 (26615)
LTE Band 25: 20 MHz	1860 (26140)	1882.5 (26365)	1905 (26590)	1905 (26590)	1905 (26590)
LTE Band 2: 1.4 MHz	1850.7 (18897)	1880 (18900)	1908.3 (19185)	1908.3 (19185)	1908.3 (19185)
LTE Band 2: 3 MHz	1851.5 (18915)	1880 (18900)	1906.5 (19165)	1906.5 (19165)	1906.5 (19165)
LTE Band 2: 5 MHz	1852.5 (18925)	1880 (18900)	1907.5 (19175)	1907.5 (19175)	1907.5 (19175)
LTE Band 2: 10 MHz	1855 (18950)	1880 (18900)	1905 (19150)	1905 (19150)	1905 (19150)
LTE Band 2: 15 MHz	1857.5 (18975)	1880 (18900)	1902.5 (19125)	1902.5 (19125)	1902.5 (19125)
LTE Band 2: 20 MHz	1860 (18900)	1880 (18900)	1900 (19100)	1900 (19100)	1900 (19100)
LTE Band 30: 5 MHz	2307.5 (27685)	2310 (27710)	2312.5 (27735)	2312.5 (27735)	2312.5 (27735)
LTE Band 30: 10 MHz	(N/A)	2310 (27710)	(N/A)	(N/A)	(N/A)
LTE Band 7: 5 MHz	2502.5 (20775)	2535 (21100)	2567.5 (21425)	2567.5 (21425)	2567.5 (21425)
LTE Band 7: 10 MHz	2505 (20800)	2535 (21100)	2565 (21400)	2565 (21400)	2565 (21400)
LTE Band 7: 15 MHz	2507.5 (20825)	2535 (21100)	2562.5 (21375)	2562.5 (21375)	2562.5 (21375)
LTE Band 7: 20 MHz	2510 (20850)	2535 (21100)	2560 (21350)	2560 (21350)	2560 (21350)
LTE Band 41: 5 MHz	2506 (38750)	2549.5 (40185)	2593 (40620)	2636.5 (41055)	2680 (41490)
LTE Band 41: 10 MHz	2506 (38750)	2549.5 (40185)	2593 (40620)	2636.5 (41055)	2680 (41490)
LTE Band 41: 15 MHz	2506 (38750)	2549.5 (40185)	2593 (40620)	2636.5 (41055)	2680 (41490)
LTE Band 41: 20 MHz	2506 (38750)	2549.5 (40185)	2593 (40620)	2636.5 (41055)	2680 (41490)
LTE Band 38: 5 MHz	2572.5 (37775)	2595 (38000)	2617.5 (38225)	2617.5 (38225)	2617.5 (38225)
LTE Band 38: 10 MHz	2575 (37800)	2595 (38000)	2615 (38200)	2615 (38200)	2615 (38200)
LTE Band 38: 15 MHz	2577.5 (37825)	2595 (38000)	2612.5 (38175)	2612.5 (38175)	2612.5 (38175)
LTE Band 38: 20 MHz	2580 (37850)	2595 (38000)	2610 (38150)	2610 (38150)	2610 (38150)
LTE Band 48: 5 MHz	3552.5 (55265)	3600.8 (55748)	(N/A)	3649.2 (56232)	3697.5 (56715)
LTE Band 48: 10 MHz	3555 (55290)	3601.7 (55757)	(N/A)	3648.3 (56223)	3695 (56695)
LTE Band 48: 15 MHz	3557.5 (55315)	3602.5 (55765)	(N/A)	3647.5 (56215)	3692.5 (56665)
LTE Band 48: 20 MHz	3560 (55340)	3603.3 (55773)	(N/A)	3646.7 (56207)	3690 (56640)
UE Category	UE Cat 18, 19, 20, UE Cat 20				
Modulations Supported in UL	QPSK, 16QAM, 64QAM, 256QAM				
LTE MPR Permanently implemented per 3GPP TS 36.101 section 6.2.3-6.2.57 (manufacturer attestation to be provided)	YES				
A-MPR (Additional MPR) disabled for SAR Testing?	YES				
LTE Carrier Aggregation Possible Combinations	The technical description includes all the possible carrier aggregation combinations				
LTE Additional Information	This device does not support full CA features on 3GPP Release 15. It supports carrier aggregation and downlink MIMO features. All uplink communications are identical to the Release 9 Specifications. Uplink communications are done on the PCC. The following LTE Release 17 Features are not supported: Relay, HetNet, Enhanced MIMO, eICIC, eMIMO, Cross-Carrier Scheduling, Enhanced SC-FDMA.				

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Carrier Name	RF Information		Frequency
Frequency Range of each RF transmission band	Frequency		Power
Channel Bandwidth	RF Band #01 5 MHz		RF Band #01 5 MHz
	RF Band #01 10 MHz		RF Band #01 10 MHz
	RF Band #01 15 MHz		RF Band #01 15 MHz
	RF Band #01 20 MHz		RF Band #01 20 MHz
	RF Band #01 25 MHz		RF Band #01 25 MHz
	RF Band #01 30 MHz		RF Band #01 30 MHz
	RF Band #01 35 MHz		RF Band #01 35 MHz
	RF Band #01 40 MHz		RF Band #01 40 MHz
	RF Band #01 45 MHz		RF Band #01 45 MHz
	RF Band #01 50 MHz		RF Band #01 50 MHz
Channel Bandwidth	RF Band #02 5 MHz		RF Band #02 5 MHz
	RF Band #02 10 MHz		RF Band #02 10 MHz
	RF Band #02 15 MHz		RF Band #02 15 MHz
	RF Band #02 20 MHz		RF Band #02 20 MHz
	RF Band #02 25 MHz		RF Band #02 25 MHz
	RF Band #02 30 MHz		RF Band #02 30 MHz
	RF Band #02 35 MHz		RF Band #02 35 MHz
	RF Band #02 40 MHz		RF Band #02 40 MHz
	RF Band #02 45 MHz		RF Band #02 45 MHz
	RF Band #02 50 MHz		RF Band #02 50 MHz
Channel Bandwidth	RF Band #03 5 MHz		RF Band #03 5 MHz
	RF Band #03 10 MHz		RF Band #03 10 MHz
	RF Band #03 15 MHz		RF Band #03 15 MHz
	RF Band #03 20 MHz		RF Band #03 20 MHz
	RF Band #03 25 MHz		RF Band #03 25 MHz
	RF Band #03 30 MHz		RF Band #03 30 MHz
	RF Band #03 35 MHz		RF Band #03 35 MHz
	RF Band #03 40 MHz		RF Band #03 40 MHz
	RF Band #03 45 MHz		RF Band #03 45 MHz
	RF Band #03 50 MHz		RF Band #03 50 MHz
Channel Bandwidth	RF Band #04 5 MHz		RF Band #04 5 MHz
	RF Band #04 10 MHz		RF Band #04 10 MHz
	RF Band #04 15 MHz		RF Band #04 15 MHz
	RF Band #04 20 MHz		RF Band #04 20 MHz
	RF Band #04 25 MHz		RF Band #04 25 MHz
	RF Band #04 30 MHz		RF Band #04 30 MHz
	RF Band #04 35 MHz		RF Band #04 35 MHz
	RF Band #04 40 MHz		RF Band #04 40 MHz
	RF Band #04 45 MHz		RF Band #04 45 MHz
	RF Band #04 50 MHz		RF Band #04 50 MHz
Channel Bandwidth	RF Band #05 5 MHz		RF Band #05 5 MHz
	RF Band #05 10 MHz		RF Band #05 10 MHz
	RF Band #05 15 MHz		RF Band #05 15 MHz
	RF Band #05 20 MHz		RF Band #05 20 MHz
	RF Band #05 25 MHz		RF Band #05 25 MHz
	RF Band #05 30 MHz		RF Band #05 30 MHz
	RF Band #05 35 MHz		RF Band #05 35 MHz
	RF Band #05 40 MHz		RF Band #05 40 MHz
	RF Band #05 45 MHz		RF Band #05 45 MHz
	RF Band #05 50 MHz		RF Band #05 50 MHz
Channel Bandwidth	RF Band #06 5 MHz		RF Band #06 5 MHz
	RF Band #06 10 MHz		RF Band #06 10 MHz
	RF Band #06 15 MHz		RF Band #06 15 MHz
	RF Band #06 20 MHz		RF Band #06 20 MHz
	RF Band #06 25 MHz		RF Band #06 25 MHz
	RF Band #06 30 MHz		RF Band #06 30 MHz
	RF Band #06 35 MHz		RF Band #06 35 MHz
	RF Band #06 40 MHz		RF Band #06 40 MHz
	RF Band #06 45 MHz		RF Band #06 45 MHz
	RF Band #06 50 MHz		RF Band #06 50 MHz
Channel Bandwidth	RF Band #07 5 MHz		RF Band #07 5 MHz
	RF Band #07 10 MHz		RF Band #07 10 MHz
	RF Band #07 15 MHz		RF Band #07 15 MHz
	RF Band #07 20 MHz		RF Band #07 20 MHz
	RF Band #07 25 MHz		RF Band #07 25 MHz
	RF Band #07 30 MHz		RF Band #07 30 MHz
	RF Band #07 35 MHz		RF Band #07 35 MHz
	RF Band #07 40 MHz		RF Band #07 40 MHz

4 INTRODUCTION

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

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

4.1 SAR Definition

Specific Absorption Rate is defined as the time derivative (rate) of the incremental energy (dU) absorbed by (dissipated in) an incremental mass (dm) contained in a volume element (dV) of a given density (ρ). It is also defined as the rate of RF energy absorption per unit mass at a point in an absorbing body (see Equation 4-1).

Equation 4-1
SAR Mathematical Equation

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

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

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

where:

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

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

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5 DOSIMETRIC ASSESSMENT

5.1 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 5-1) 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 5-1) 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 5-1. 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.

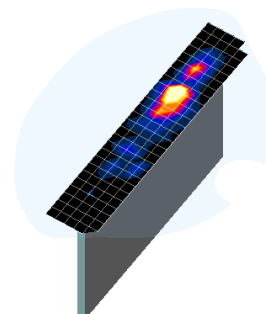


Figure 5-1
Sample SAR Area Scan

Table 5-1
Area and Zoom Scan Resolutions per FCC KDB Publication 865664 D01v01r04*

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

*Also compliant to IEEE 1528-2013 Table 6

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6 DEFINITION OF REFERENCE POINTS

6.1 EAR REFERENCE POINT

Figure 6-2 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 6-1. 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 6-1). 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].

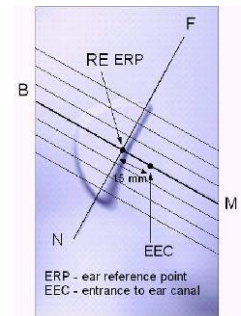


Figure 6-1
Close-Up Side view
of ERP

6.2 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 6-3). 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 6-2
Front, back and side view of SAM Twin Phantom

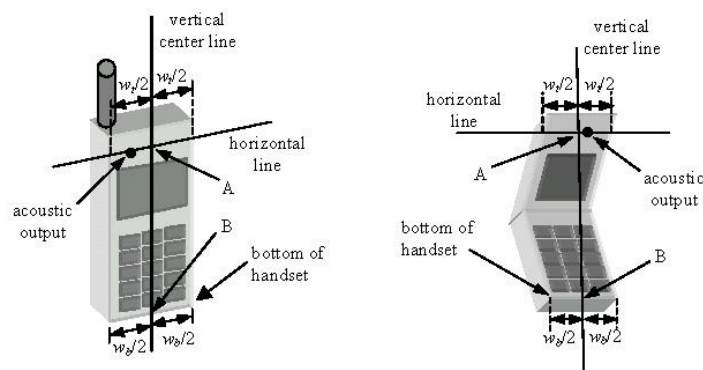


Figure 6-3
Handset Vertical Center & Horizontal Line Reference Points

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7 TEST CONFIGURATION POSITIONS

7.1 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 $\delta = 0.02$.

7.2 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 7-1), 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.

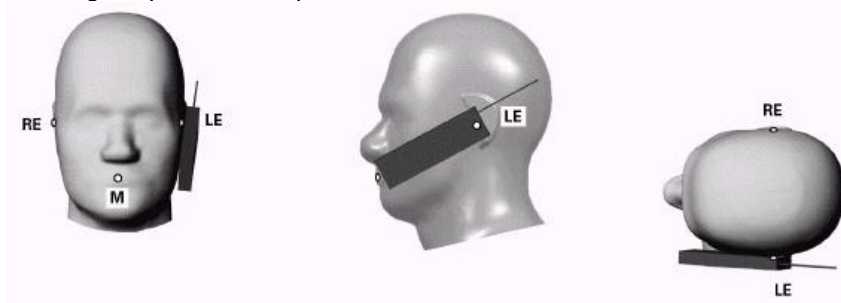


Figure 7-1 Front, Side and Top View of Cheek Position

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 7-2).

7.3 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 7-2).

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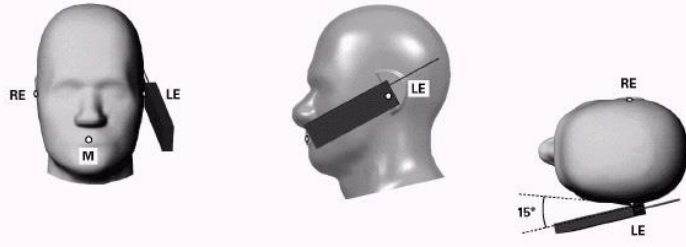


Figure 7-2 Front, Side and Top View of Ear/15° Tilt Position

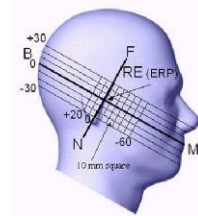


Figure 7-3 Side view w/ relevant markings

7.4 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 D01v06r03. 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.

7.5 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 7-4). Per FCC KDB Publication 648474 D01v06r03, 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.

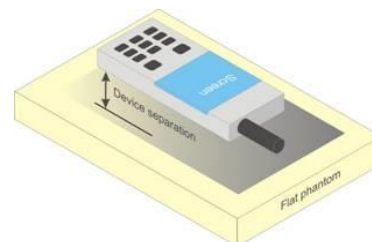


Figure 7-4 Sample Body-Worn Diagram

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

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

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

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

7.6 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.

7.7 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.

7.8 Phablet Configurations

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

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support voice calls next to the ear, the phablets procedures outlined in KDB Publication 648474 D01v06r03 should be applied to evaluate SAR compliance. A device marketed as phablets, regardless of form factors and operating characteristics must be tested as a phablet to determine SAR compliance. In addition to the normally required head and body-worn accessory SAR test procedures required for handsets, the UMPC mini-tablet procedures must also be applied to test the SAR of all surfaces and edges with an antenna ≤ 25 mm from that surface or edge, in direct contact with the phantom, for 10g SAR. The UMPC mini-tablet 1g SAR at 5 mm is not required. When hotspot mode applies, 10g SAR is required only for the surfaces and edges with hotspot mode 1g SAR > 1.2 W/kg.

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8 RF EXPOSURE LIMITS

8.1 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.

8.2 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 8-1
SAR Human Exposure Specified in ANSI/IEEE C95.1-1992 and Health Canada Safety Code 6

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

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

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8.3 RF Exposure Limits for Frequencies above 6 GHz

Per §1.1310 (d)(3), the MPE limits are applied for frequencies above 6 GHz. Power Density is expressed in units of W/m² or mW/cm².

Peak Spatially Averaged Power Density was evaluated over a circular area of 4 cm² per interim FCC Guidance for near-field power density evaluations per October 2018 TCB Workshop notes.

Table 8-2
Human Exposure Limits Specified in FCC 47 CFR §1.1310

Human Exposure to Radiofrequency (RF) Radiation Limits		
Frequency Range [MHz]	Power Density [mW/cm ²]	Average Time [Minutes]
(A) Limits For Occupational / Controlled Environments		
1,500 – 100,000	5.0	6
(B) Limits For General Population / Uncontrolled Environments		
1,500 – 100,000	1.0	30

Note: 1.0 mW/cm² is 10 W/m²

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9 FCC MEASUREMENT PROCEDURES

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

9.1 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.

9.2 3G SAR Test Reduction Procedure

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

9.3 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.

9.4 SAR Measurement Conditions for UMTS

9.4.1 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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9.4.2 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.

9.4.3 Body SAR Measurements

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

9.4.4 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.

9.4.5 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.

9.4.6 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.

9.5 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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9.5.1 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.

9.5.2 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.

9.5.3 A-MPR

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

9.5.4 Required RB Size and RB Offsets for SAR Testing

According to FCC KDB 941225 D05v02r04:

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

9.5.5 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.

9.5.6 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.

9.6 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.

9.6.1 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.

9.6.2 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.

9.6.3 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.

9.6.4 Initial Test Position Procedure

For exposure conditions with multiple test positions, such as handset operating next to the ear, devices with hotspot mode or UMPC mini-tablet, procedures for initial test position can be applied. Using the transmission mode determined by the DSSS procedure or initial test configuration, area scans are measured for all

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positions in an exposure condition. The test position with the highest extrapolated (peak) SAR is used as the initial test position. When reported SAR for the initial test position is ≤ 0.4 W/kg, no additional testing for the remaining test positions is required. Otherwise, SAR is evaluated at the subsequent highest peak SAR positions until the reported SAR result is ≤ 0.8 W/kg or all test positions are measured. When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

9.6.5 2.4 GHz SAR Test Requirements

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

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

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

9.6.6 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 and FCC guidance, 802.11ax/be 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.

9.6.7 Initial Test Configuration Procedure

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

When the reported SAR is ≤ 0.8 W/kg, no additional measurements on other test channels are required. Otherwise, SAR is evaluated using the subsequent highest average RF output channel until the reported SAR result is ≤ 1.2 W/kg or all channels are measured. When there are multiple untested channels having the same subsequent highest average RF output power, the channel with higher frequency from the lowest

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802.11 mode is considered for SAR measurements (See Section 9.6.6). When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

9.6.8 Subsequent Test Configuration Procedures

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

9.6.9 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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10 RF CONDUCTED POWERS

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

10.1 GSM Conducted Powers

Table 10-1
Measured P_{max} for all DSI for GSM 850 Ant A
Measured P_{limit} for DSI = 0 (Body-worn, Hotspot or Phablet) for GSM 1900 Ant A

Maximum Burst-Averaged Output Power										
		Voice	GPRS/EDGE Data (GMSK)				EDGE Data (8-PSK)			
Band	Channel	GSM [dBm] CS (1 Slot)	GPRS [dBm] 1 Tx Slot	GPRS [dBm] 2 Tx Slot	GPRS [dBm] 3 Tx Slot	GPRS [dBm] 4 Tx Slot	EDGE [dBm] 1 Tx Slot	EDGE [dBm] 2 Tx Slot	EDGE [dBm] 3 Tx Slot	EDGE [dBm] 4 Tx Slot
GSM 850	128	32.91	32.91	31.62	29.72	27.73	26.84	25.71	23.58	22.56
	190	33.24	33.24	31.66	29.77	28.06	27.01	25.54	23.50	22.55
	251	33.20	33.20	31.61	29.74	27.61	27.11	25.42	23.61	22.55
GSM 1900	512	27.31	27.31	24.80	23.00	21.75	25.55	24.17	22.01	21.14
	661	27.65	27.65	24.57	22.93	21.62	25.51	24.04	22.10	21.26
	810	27.82	27.82	24.63	22.98	21.52	25.35	23.77	21.99	21.02

Calculated Maximum Frame-Averaged Output Power										
		Voice	GPRS/EDGE Data (GMSK)				EDGE Data (8-PSK)			
Band	Channel	GSM [dBm] CS (1 Slot)	GPRS [dBm] 1 Tx Slot	GPRS [dBm] 2 Tx Slot	GPRS [dBm] 3 Tx Slot	GPRS [dBm] 4 Tx Slot	EDGE [dBm] 1 Tx Slot	EDGE [dBm] 2 Tx Slot	EDGE [dBm] 3 Tx Slot	EDGE [dBm] 4 Tx Slot
GSM 850	128	23.71	23.71	25.43	25.29	24.55	17.64	19.52	19.15	19.38
	190	24.04	24.04	25.47	25.34	24.88	17.81	19.35	19.07	19.37
	251	24.00	24.00	25.42	25.31	24.43	17.91	19.23	19.18	19.37
GSM 1900	512	18.11	18.11	18.61	18.57	18.57	16.35	17.98	17.58	17.96
	661	18.45	18.45	18.38	18.50	18.44	16.31	17.85	17.67	18.08
	810	18.62	18.62	18.44	18.55	18.34	16.15	17.58	17.56	17.84

GSM 850	Frame Avg.Targets:	23.30	23.30	25.31	25.07	24.32	17.80	18.81	18.57	18.82
GSM 1900		18.80	18.80	18.81	18.77	18.82	16.80	17.81	17.57	17.82

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Table 10-2
Measured P_{max} for DSI = 1 (Head) for GSM 1900 Ant A

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	29.39	29.39	28.00	26.22	24.35	25.55	24.17	22.01	21.14
	661	29.35	29.35	27.80	26.15	24.39	25.51	24.04	22.10	21.26
	810	29.70	29.71	27.87	26.17	24.57	25.35	23.77	21.99	21.02

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	20.19	20.19	21.81	21.79	21.17	16.35	17.98	17.58	17.96
	661	20.15	20.15	21.61	21.72	21.21	16.31	17.85	17.67	18.08
	810	20.50	20.51	21.68	21.74	21.39	16.15	17.58	17.56	17.84

GSM 1900	Frame Avg. Targets:	20.30	20.30	21.81	22.07	21.32	16.80	17.81	17.57	17.82
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Table 10-3
Measured P_{max} for DSI = 0 (Body-worn, Hotspot or Phablet) for GSM 850 Ant E

Maximum Burst-Averaged Output Power										
		Voice	GPRS/EDGE Data (GMSK)				EDGE Data (8-PSK)			
Band	Channel	GSM [dBm] CS (1 Slot)	GPRS [dBm] 1 Tx Slot	GPRS [dBm] 2 Tx Slot	GPRS [dBm] 3 Tx Slot	GPRS [dBm] 4 Tx Slot	EDGE [dBm] 1 Tx Slot	EDGE [dBm] 2 Tx Slot	EDGE [dBm] 3 Tx Slot	EDGE [dBm] 4 Tx Slot
GSM 850	128	32.99	33.16	31.95	29.16	27.55	26.69	25.31	23.19	22.57
	190	32.78	33.00	31.99	29.77	27.52	26.76	25.24	23.39	22.40
	251	32.76	32.75	31.98	29.68	27.42	26.63	25.07	23.28	22.54

Calculated Maximum Frame-Averaged Output Power										
		Voice	GPRS/EDGE Data (GMSK)				EDGE Data (8-PSK)			
Band	Channel	GSM [dBm] CS (1 Slot)	GPRS [dBm] 1 Tx Slot	GPRS [dBm] 2 Tx Slot	GPRS [dBm] 3 Tx Slot	GPRS [dBm] 4 Tx Slot	EDGE [dBm] 1 Tx Slot	EDGE [dBm] 2 Tx Slot	EDGE [dBm] 3 Tx Slot	EDGE [dBm] 4 Tx Slot
GSM 850	128	23.79	23.96	25.76	24.73	24.37	17.49	19.12	18.76	19.39
	190	23.58	23.80	25.80	25.34	24.34	17.56	19.05	18.96	19.22
	251	23.56	23.55	25.79	25.25	24.24	17.43	18.88	18.85	19.36

GSM 850	Frame Avg. Targets:	23.30	23.30	25.31	25.07	24.32	17.80	18.81	18.57	18.82
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Table 10-4
Measured P_{limit} for DSI = 1 (Head) for GSM 850 Ant E

Maximum Burst-Averaged Output Power										
		Voice	GPRS/EDGE Data (GMSK)				EDGE Data (8-PSK)			
Band	Channel	GSM [dBm] CS (1 Slot)	GPRS [dBm] 1 Tx Slot	GPRS [dBm] 2 Tx Slot	GPRS [dBm] 3 Tx Slot	GPRS [dBm] 4 Tx Slot	EDGE [dBm] 1 Tx Slot	EDGE [dBm] 2 Tx Slot	EDGE [dBm] 3 Tx Slot	EDGE [dBm] 4 Tx Slot
GSM 850	128	29.04	29.06	26.41	24.74	23.28	26.62	25.22	23.18	22.48
	190	29.38	29.40	26.43	24.69	23.50	26.70	25.23	23.42	22.53
	251	29.43	29.46	26.29	24.63	23.44	26.68	25.12	23.34	22.65

Calculated Maximum Frame-Averaged Output Power										
		Voice	GPRS/EDGE Data (GMSK)				EDGE Data (8-PSK)			
Band	Channel	GSM [dBm] CS (1 Slot)	GPRS [dBm] 1 Tx Slot	GPRS [dBm] 2 Tx Slot	GPRS [dBm] 3 Tx Slot	GPRS [dBm] 4 Tx Slot	EDGE [dBm] 1 Tx Slot	EDGE [dBm] 2 Tx Slot	EDGE [dBm] 3 Tx Slot	EDGE [dBm] 4 Tx Slot
GSM 850	128	19.84	19.86	20.22	20.31	20.10	17.42	19.03	18.75	19.30
	190	20.18	20.20	20.24	20.26	20.32	17.50	19.04	18.99	19.35
	251	20.23	20.26	20.10	20.20	20.26	17.48	18.93	18.91	19.47

GSM 850	Frame Avg. Targets:	20.30	20.30	20.31	20.27	20.32	17.80	18.81	18.57	18.82
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Note:

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

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



Figure 10-1
Power Measurement Setup

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10.2 UMTS Conducted Powers

Table 10-5
Measured P_{max} for all DSI for UMTS 850 Ant A
Measured P_{limit} for DSI = 0 (Body-worn, Hotspot or Phablet) for UMTS 1750 & UMTS 1900 Ant A

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	23.75	23.79	23.73	19.56	19.64	19.69	18.49	18.50	18.52	-
99		12.2 kbps AMR	23.77	23.82	23.77	19.57	19.65	19.69	18.47	18.51	18.56	-
6	HSDPA	Subtest 1	22.91	22.97	22.86	18.14	18.08	18.12	16.86	16.92	16.83	0
6		Subtest 2	22.91	23.00	22.88	18.14	18.12	18.13	16.87	16.93	16.79	0
6		Subtest 3	22.37	22.45	22.37	17.66	17.62	17.63	16.36	16.41	16.30	0.5
6		Subtest 4	22.38	22.47	22.37	17.63	17.62	17.61	16.35	16.42	16.30	0.5
6	HSUPA	Subtest 1	22.87	22.91	22.82	18.17	18.12	18.13	16.94	16.91	16.83	0
6		Subtest 2	20.78	20.86	20.74	16.11	16.11	16.14	14.89	14.95	14.83	2
6		Subtest 3	21.76	21.84	21.75	17.11	17.12	17.14	15.90	15.99	15.87	1
6		Subtest 4	20.71	20.83	20.72	16.11	16.10	16.09	14.95	14.93	14.78	2
6		Subtest 5	22.74	22.80	22.72	18.21	18.17	18.14	16.88	16.90	16.78	0
8	DC-HSDPA	Subtest 1	22.71	22.80	22.72	18.17	18.12	18.16	16.87	16.96	16.88	0
8		Subtest 2	22.73	22.82	22.74	18.18	18.13	18.12	16.91	16.98	16.85	0
8		Subtest 3	22.23	22.29	22.15	17.71	17.64	17.61	16.38	16.50	16.39	0.5
8		Subtest 4	22.21	22.29	22.19	17.65	17.64	17.63	16.39	16.49	16.35	0.5

Table 10-6
Measured P_{max} for DSI = 1 (Head) for UMTS 1750 & UMTS 1900 Ant A

3GPP Release Version	Mode	3GPP 34.121 Subtest	AWS Band [dBm]			PCS Band [dBm]			3GPP MPR [dB]
			1312	1412	1513	9262	9400	9538	
99	WCDMA	12.2 kbps RMC	23.08	23.09	23.27	23.14	23.15	23.19	-
99		12.2 kbps AMR	23.10	23.17	23.23	23.19	23.16	23.22	-
6	HSDPA	Subtest 1	21.74	21.67	21.72	21.65	21.68	21.55	0
6		Subtest 2	21.76	21.70	21.70	21.59	21.67	21.55	0
6		Subtest 3	21.21	21.20	21.24	21.13	21.15	21.02	0.5
6		Subtest 4	21.24	21.18	21.18	21.08	21.15	21.06	0.5
6	HSUPA	Subtest 1	21.84	21.76	21.76	21.60	21.70	21.56	0
6		Subtest 2	19.74	19.74	19.73	19.67	19.68	19.54	2
6		Subtest 3	20.72	20.73	20.74	20.59	20.70	20.65	1
6		Subtest 4	19.80	19.72	19.70	19.56	19.68	19.50	2
6		Subtest 5	21.75	21.73	21.75	21.64	21.68	21.60	0
8	DC-HSDPA	Subtest 1	22.80	22.67	22.69	22.60	22.61	22.55	0
8		Subtest 2	22.76	22.68	22.71	22.60	22.68	22.55	0
8		Subtest 3	22.76	22.69	22.75	22.64	22.70	22.58	0.5
8		Subtest 4	22.75	22.71	22.75	22.63	22.68	22.56	0.5

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Table 10-7
Measured P_{max} for DSI = 0 (Body-worn, Hotspot or Phablet) for UMTS 850 Ant E

3GPP Release Version	Mode	3GPP 34.121 Subtest	Cellular Band [dBm]			3GPP MPR [dB]
			4132	4183	4233	
99	WCDMA	12.2 kbps RMC	24.20	24.32	24.27	-
99		12.2 kbps AMR	24.26	24.32	24.30	-
6	HSDPA	Subtest 1	22.95	23.05	22.96	0
6		Subtest 2	22.97	23.07	22.96	0
6		Subtest 3	22.46	22.53	22.46	0.5
6		Subtest 4	22.41	22.52	22.47	0.5
6	HSUPA	Subtest 1	22.98	23.04	22.96	0
6		Subtest 2	20.94	21.03	20.91	2
6		Subtest 3	21.94	22.01	21.92	1
6		Subtest 4	20.95	21.01	20.92	2
6		Subtest 5	22.95	23.05	22.99	0
8	DC-HSDPA	Subtest 1	22.91	23.02	22.85	0
8		Subtest 2	22.93	23.03	22.99	0
8		Subtest 3	22.45	22.53	22.44	0.5
8		Subtest 4	22.46	22.52	22.42	0.5

Table 10-8
Measured P_{limit} for DSI = 1 (Head) for UMTS 850 Ant E

3GPP Release Version	Mode	3GPP 34.121 Subtest	Cellular Band [dBm]			3GPP MPR [dB]
			4132	4183	4233	
99	WCDMA	12.2 kbps RMC	20.88	20.93	20.86	-
99		12.2 kbps AMR	20.88	20.92	20.86	-
6	HSDPA	Subtest 1	19.70	19.81	19.70	0
6		Subtest 2	19.74	19.82	19.72	0
6		Subtest 3	19.22	19.26	19.20	0.5
6		Subtest 4	19.23	19.30	19.19	0.5
6	HSUPA	Subtest 1	19.74	19.83	19.69	0
6		Subtest 2	17.70	17.83	17.70	2
6		Subtest 3	18.69	18.78	18.72	1
6		Subtest 4	17.70	17.82	17.72	2
6		Subtest 5	19.82	19.84	19.73	0
8	DC-HSDPA	Subtest 1	19.73	19.80	19.69	0
8		Subtest 2	19.74	19.80	19.72	0
8		Subtest 3	19.23	19.29	19.21	0.5
8		Subtest 4	19.20	19.28	19.19	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 10-2
Power Measurement Setup

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10.3 LTE Conducted Powers

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

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

LTE Carrier Aggregation Notes:

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

10.3.1 LTE Band 71

Table 10-9
LTE Band 71 Ant A Measured P_{Max} for all DSI - 20 MHz Bandwidth

LTE Band 71 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			133297 (680.5 MHz) Conducted Power [dBm]		
QPSK	1	0	24.07	0	0
	1	50	24.08		0
	1	99	23.99		0
	50	0	22.91	0-1	1
	50	25	22.89		1
	50	50	22.92		1
16QAM	100	0	22.87	0-1	1
	1	0	23.12		1
	1	50	23.11		1
	1	99	22.89	0-2	1
	50	0	21.96		2
	50	25	21.93		2
64QAM	50	50	21.92	0-2	2
	100	0	21.91		2
	1	0	22.06	0-2	2
	1	50	22.25		2
	1	99	22.01		2
	50	0	20.93	0-3	3
256QAM	50	25	20.87		3
	50	50	20.89		3
	100	0	20.89	0-5	3
	1	0	19.01		5
	1	50	18.98		5
	1	99	18.96		5
	50	0	18.86		5
	50	25	18.86		5
	50	50	18.87		5
	100	0	18.85		5

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Table 10-10
LTE Band 71 Ant E Measured P_{Max} for DSI = 0 (Body-worn, Hotspot or Phablet) - 20 MHz Bandwidth

LTE Band 71 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			133297 (680.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	24.49	0	0
	1	50	24.24		0
	1	99	24.17		0
	50	0	23.13	0-1	1
	50	25	23.09		1
	50	50	23.11		1
	100	0	23.11		1
16QAM	1	0	23.46	0-1	1
	1	50	23.52		1
	1	99	23.39		1
	50	0	22.15	0-2	2
	50	25	22.11		2
	50	50	22.12		2
	100	0	22.10		2
64QAM	1	0	22.32	0-2	2
	1	50	22.32		2
	1	99	22.21		2
	50	0	21.06	0-3	3
	50	25	21.07		3
	50	50	21.03		3
	100	0	21.00		3
256QAM	1	0	19.18	0-5	5
	1	50	19.23		5
	1	99	19.08		5
	50	0	19.04		5
	50	25	19.01		5
	50	50	19.01		5
	100	0	19.02		5

Table 10-11
LTE Band 71 Ant E Measured P_{Limit} for DSI = 1 (Head) - 20 MHz Bandwidth

LTE Band 71 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			133297 (680.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	21.31	0	0
	1	50	21.36		0
	1	99	21.26		0
	50	0	21.26	0-1	0
	50	25	21.23		0
	50	50	21.25		0
	100	0	21.23		0
16QAM	1	0	21.57	0-1	0
	1	50	21.60		0
	1	99	21.52		0
	50	0	21.33	0-2	0
	50	25	21.28		0
	50	50	21.32		0
	100	0	21.26		0
64QAM	1	0	21.52	0-2	0
	1	50	21.52		0
	1	99	21.28		0
	50	0	21.01	0-3	0.5
	50	25	21.01		0.5
	50	50	21.01		0.5
	100	0	20.97		0.5
256QAM	1	0	19.21	0-5	2.5
	1	50	19.29		2.5
	1	99	19.00		2.5
	50	0	19.00		2.5
	50	25	18.96		2.5
	50	50	18.96		2.5
	100	0	18.93		2.5

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10.3.2 LTE Band 12

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

LTE Band 12 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23095 (707.5 MHz) Conducted Power [dBm]		
QPSK	1	0	24.00	0	0
	1	25	24.01		0
	1	49	23.80		0
	25	0	22.83	0-1	1
	25	12	22.94		1
	25	25	22.90		1
	50	0	22.92		1
16QAM	1	0	23.12	0-1	1
	1	25	23.25		1
	1	49	23.07		1
	25	0	21.84	0-2	2
	25	12	21.92		2
	25	25	21.87		2
	50	0	21.92		2
64QAM	1	0	22.09	0-2	2
	1	25	22.20		2
	1	49	22.06		2
	25	0	20.83	0-3	3
	25	12	20.96		3
	25	25	20.92		3
	50	0	20.93		3
256QAM	1	0	18.93	0-5	5
	1	25	18.97		5
	1	49	18.79		5
	25	0	18.80		5
	25	12	18.94		5
	25	25	18.87		5
	50	0	18.88		5

Table 10-13
LTE Band 12 Ant E Measured P_{Max} for DSI = 0 (Body-worn, Hotspot or Phablet) - 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	24.04	0	0
	1	25	24.04		0
	1	49	24.06		0
	25	0	23.00	0-1	1
	25	12	23.09		1
	25	25	23.08		1
	50	0	23.07		1
16QAM	1	0	23.34	0-1	1
	1	25	23.27		1
	1	49	23.31		1
	25	0	22.00	0-2	2
	25	12	22.14		2
	25	25	22.09		2
	50	0	22.07		2
64QAM	1	0	22.37	0-2	2
	1	25	22.37		2
	1	49	22.12		2
	25	0	21.15	0-3	3
	25	12	21.06		3
	25	25	21.06		3
	50	0	21.03		3
256QAM	1	0	19.01	0-5	5
	1	25	19.13		5
	1	49	19.00		5
	25	0	18.94		5
	25	12	19.06		5
	25	25	19.01		5
	50	0	19.03		5

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Table 10-14
LTE Band 12 Ant E Measured P_{Limit} for DSI = 1 (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	21.32	0	0
	1	25	21.34		0
	1	49	21.25		0
	25	0	21.20	0-1	0
	25	12	21.30		0
	25	25	21.29		0
	50	0	21.28		0
16QAM	1	0	21.37	0-1	0
	1	25	21.58		0
	1	49	21.27		0
	25	0	21.26	0-2	0
	25	12	21.29		0
	25	25	21.33		0
	50	0	21.30		0
64QAM	1	0	21.47	0-2	0
	1	25	21.47		0
	1	49	21.36		0
	25	0	21.36	0-3	0.5
	25	12	21.03		0.5
	25	25	21.03		0.5
	50	0	21.02		0.5
256QAM	1	0	19.08	0-5	2.5
	1	25	19.19		2.5
	1	49	19.01		2.5
	25	0	18.90		2.5
	25	12	19.01		2.5
	25	25	19.00		2.5
	50	0	18.98		2.5

10.3.3 LTE Band 13

Table 10-15
LTE Band 13 Ant A Measured P_{Max} for all DSI - 10 MHz Bandwidth

LTE Band 13 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23230 (782.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	23.85	0	0
	1	25	23.78		0
	1	49	23.83		0
	25	0	22.72	0-1	1
	25	12	22.77		1
	25	25	22.83		1
	50	0	22.79		1
16QAM	1	0	23.09	0-1	1
	1	25	23.03		1
	1	49	23.07		1
	25	0	21.77	0-2	2
	25	12	21.78		2
	25	25	21.79		2
	50	0	21.84		2
64QAM	1	0	22.12	0-2	2
	1	25	22.13		2
	1	49	22.02		2
	25	0	20.70	0-3	3
	25	12	20.75		3
	25	25	20.80		3
	50	0	20.84		3
256QAM	1	0	18.79	0-5	5
	1	25	18.95		5
	1	49	18.82		5
	25	0	18.71		5
	25	12	18.72		5
	25	25	18.77		5
	50	0	18.83		5

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Table 10-16
LTE Band 13 Ant E Measured P_{Max} for DSI = 0 (Body-worn, Hotspot or Phablet) - 10 MHz Bandwidth

LTE Band 13 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23230 (782.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	23.91	0	0
	1	25	23.83		0
	1	49	23.94		0
	25	0	22.89	0-1	1
	25	12	22.87		1
	25	25	23.01		1
16QAM	50	0	22.97	0-1	1
	1	0	23.21		1
	1	25	23.21		1
	1	49	23.23	0-2	1
	25	0	21.89		2
	25	12	21.89		2
64QAM	25	25	21.94	0-2	2
	50	0	21.91		2
	1	0	22.10	0-2	2
	1	25	22.19		2
	1	49	22.13	0-3	2
	25	0	20.92		3
256QAM	25	12	20.93		3
	25	25	20.89	0-3	3
	50	0	20.94		3
	1	0	18.96	0-5	5
	1	25	19.19		5
	1	49	19.02		5
256QAM	25	0	18.81	0-5	5
	25	12	18.91		5
	25	25	18.89		5
	50	0	18.98		5

Table 10-17
LTE Band 13 Ant E Measured P_{Limit} for DSI = 1 (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	20.89	0	0
	1	25	20.95		0
	1	49	20.94		0
	25	0	20.91	0-1	0
	25	12	21.03		0
	25	25	20.92		0
16QAM	50	0	20.90	0-1	0
	1	0	20.93		0
	1	25	20.93		0
	1	49	20.94	0-2	0
	25	0	20.96		0
	25	12	20.97		0
64QAM	25	25	20.90	0-2	0
	50	0	20.93		0
	1	0	20.98	0-2	0
	1	25	20.92		0
	1	49	20.93		0
	25	0	20.94	0-3	0.5
256QAM	25	12	20.93		0.5
	25	25	20.97		0.5
	50	0	20.96	0-5	0.5
	1	0	19.00		2.5
	1	25	19.09		2.5
	1	49	18.96		2.5
256QAM	25	0	18.80	0-5	2.5
	25	12	18.86		2.5
	25	25	18.87		2.5
	50	0	18.96		2.5

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10.3.4 LTE Band 14

Table 10-18
LTE Band 14 Ant A Measured P_{Max} for all DSI - 10 MHz Bandwidth

LTE Band 14 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23330 (793.0 MHz) Conducted Power [dBm]		
QPSK	1	0	23.69	0	0
	1	25	23.83		0
	1	49	23.70		0
	25	0	22.81	0-1	1
	25	12	22.86		1
	25	25	22.88		1
	50	0	22.83		1
16QAM	1	0	23.10	0-1	1
	1	25	23.19		1
	1	49	22.97		1
	25	0	21.84	0-2	2
	25	12	21.89		2
	25	25	21.88		2
	50	0	21.84		2
64QAM	1	0	22.00	0-2	2
	1	25	22.12		2
	1	49	22.05		2
	25	0	20.80	0-3	3
	25	12	20.89		3
	25	25	20.90		3
	50	0	20.79		3
256QAM	1	0	18.80	0-5	5
	1	25	18.99		5
	1	49	18.92		5
	25	0	18.75		5
	25	12	18.81		5
	25	25	18.81		5
	50	0	18.77		5

Table 10-19
LTE Band 14 Ant E Measured P_{Max} for DSI = 0 (Body-worn, Hotspot or Phablet) - 10 MHz Bandwidth

LTE Band 14 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23330 (793.0 MHz) Conducted Power [dBm]		
QPSK	1	0	23.85	0	0
	1	25	23.97		0
	1	49	23.85		0
	25	0	22.94	0-1	1
	25	12	23.01		1
	25	25	23.03		1
	50	0	22.96		1
16QAM	1	0	23.18	0-1	1
	1	25	23.33		1
	1	49	23.21		1
	25	0	21.96	0-2	2
	25	12	22.04		2
	25	25	22.03		2
	50	0	21.97		2
64QAM	1	0	22.14	0-2	2
	1	25	22.22		2
	1	49	22.12		2
	25	0	20.94	0-3	3
	25	12	21.00		3
	25	25	21.03		3
	50	0	20.95		3
256QAM	1	0	18.88	0-5	5
	1	25	19.23		5
	1	49	18.96		5
	25	0	18.88		5
	25	12	18.95		5
	25	25	18.97		5
	50	0	18.91		5

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Table 10-20
LTE Band 14 Ant E Measured P_{Limit} for DSI = 1 (Head) - 10 MHz Bandwidth

LTE Band 14 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23330 (793.0 MHz) Conducted Power [dBm]		
QPSK	1	0	21.23	0	0
	1	25	21.34		0
	1	49	21.21		0
	25	0	21.17	0-1	0
	25	12	21.23		0
	25	25	21.26		0
	50	0	21.17		0
16QAM	1	0	21.22	0-1	0
	1	25	21.41		0
	1	49	21.38		0
	25	0	21.23	0-2	0
	25	12	21.27		0
	25	25	21.28		0
	50	0	21.22		0
64QAM	1	0	21.38	0-2	0
	1	25	21.58		0
	1	49	21.37		0
	25	0	20.96	0-3	0.5
	25	12	20.97		0.5
	25	25	21.00		0.5
	50	0	21.00		0.5
256QAM	1	0	18.89	0-5	2.5
	1	25	19.08		2.5
	1	49	18.99		2.5
	25	0	18.92		2.5
	25	12	18.98		2.5
	25	25	19.01		2.5
	50	0	18.92		2.5

10.3.5 LTE Band 26

Table 10-21
LTE Band 26 Ant A Measured P_{Max} for all DSI - 15 MHz Bandwidth

LTE Band 26 (Cell) 15 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26865 (831.5 MHz) Conducted Power [dBm]		
QPSK	1	0	24.34	0	0
	1	36	24.46		0
	1	74	24.17		0
	36	0	23.01	0-1	1
	36	18	23.03		1
	36	37	23.02		1
	75	0	22.99		1
16QAM	1	0	23.10	0-1	1
	1	36	23.21		1
	1	74	23.05		1
	36	0	22.09	0-2	2
	36	18	22.10		2
	36	37	22.06		2
	75	0	22.04		2
64QAM	1	0	22.13	0-2	2
	1	36	22.52		2
	1	74	22.17		2
	36	0	21.08	0-3	3
	36	18	21.09		3
	36	37	21.01		3
	75	0	21.03		3
256QAM	1	0	19.04	0-5	5
	1	36	19.18		5
	1	74	19.00		5
	36	0	19.03		5
	36	18	19.06		5
	36	37	19.01		5
	75	0	18.98		5

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Table 10-22
LTE Band 26 Ant E Measured P_{Max} for DSI = 0 (Body-worn, Hotspot or Phablet) - 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	24.45	0	0
	1	36	24.60		0
	1	74	24.37		0
	36	0	23.21	0-1	1
	36	18	23.17		1
	36	37	23.16		1
	75	0	23.11		1
16QAM	1	0	23.31	0-1	1
	1	36	23.47		1
	1	74	23.33		1
	36	0	22.27	0-2	2
	36	18	22.26		2
	36	37	22.20		2
	75	0	22.19		2
64QAM	1	0	22.31	0-2	2
	1	36	22.54		2
	1	74	22.33		2
	36	0	21.22	0-3	3
	36	18	21.24		3
	36	37	21.19		3
	75	0	21.16		3
256QAM	1	0	19.31	0-5	5
	1	36	19.33		5
	1	74	19.15		5
	36	0	19.19		5
	36	18	19.20		5
	36	37	19.15		5
	75	0	19.13		5

Table 10-23
LTE Band 26 Ant E Measured P_{Limit} for DSI = 1 (Head) - 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	20.78	0	0
	1	36	21.15		0
	1	74	20.78		0
	36	0	20.91	0-1	0
	36	18	21.03		0
	36	37	20.89		0
	75	0	20.94		0
16QAM	1	0	21.15	0-1	0
	1	36	21.21		0
	1	74	21.04		0
	36	0	21.00	0-2	0
	36	18	21.00		0
	36	37	20.97		0
	75	0	20.94		0
64QAM	1	0	21.13	0-2	0
	1	36	21.21		0
	1	74	21.08		0
	36	0	20.98	0-3	0
	36	18	20.99		0
	36	37	20.96		0
	75	0	20.95		0
256QAM	1	0	19.41	0-5	2
	1	36	19.46		2
	1	74	19.29		2
	36	0	19.20		2
	36	18	19.16		2
	36	37	19.15		2
	75	0	19.11		2

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10.3.6 LTE Band 66

Table 10-24
LTE Band 66 (AWS) Ant A Measured P_{Limit} for DSI = 0 (Body-worn, Hotspot or Phablet)
- 20 MHz Bandwidth

LTE Band 66 (AWS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			132072 (1720.0 MHz)	132322 (1745.0 MHz)	132572 (1770.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	18.50	18.75	19.10	0	0
	1	50	18.75	18.96	18.70		0
	1	99	18.41	18.39	18.64		0
	50	0	18.76	18.71	19.03	0-1	0
	50	25	19.00	19.00	18.81		0
	50	50	18.80	18.74	18.80		0
	100	0	19.02	18.73	18.64		0
16QAM	1	0	19.00	19.03	18.67	0-1	0
	1	50	19.02	18.95	18.65		0
	1	99	18.80	18.86	18.64		0
	50	0	18.79	18.74	18.72	0-2	0
	50	25	18.97	18.83	18.72		0
	50	50	18.82	18.79	18.90		0
	100	0	18.75	18.77	18.80		0
64QAM	1	0	19.00	18.96	18.80	0-2	0
	1	50	18.99	18.96	18.72		0
	1	99	18.97	18.77	18.68		0
	50	0	18.74	18.65	18.77	0-3	0
	50	25	18.78	18.72	18.80		0
	50	50	18.77	18.82	18.71		0
	100	0	18.76	18.87	18.72		0
256QAM	1	0	18.45	18.43	18.60	0-5	0.5
	1	50	18.57	18.43	18.57		0.5
	1	99	18.36	18.38	18.38		0.5
	50	0	18.39	18.33	18.39		0.5
	50	25	18.41	18.41	18.32		0.5
	50	50	18.39	18.32	18.34		0.5
	100	0	18.42	18.39	18.30		0.5

Table 10-25
LTE Band 66 (AWS) Ant A Measured P_{Max} for DSI = 1 (Head) - 20 MHz Bandwidth

LTE Band 66 (AWS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			132072 (1720.0 MHz)	132322 (1745.0 MHz)	132572 (1770.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	23.49	23.43	23.49	0	0
	1	50	23.54	23.44	23.38		0
	1	99	23.50	23.34	23.38		0
	50	0	22.50	22.48	22.41	0-1	1
	50	25	22.57	22.49	22.41		1
	50	50	22.50	22.31	22.48		1
	100	0	22.48	22.47	22.32		1
16QAM	1	0	22.57	22.57	22.82	0-1	1
	1	50	22.72	22.57	22.61		1
	1	99	22.57	22.55	22.77		1
	50	0	21.55	21.32	21.47	0-2	2
	50	25	21.60	21.51	21.46		2
	50	50	21.48	21.51	21.39		2
	100	0	21.54	21.45	21.39		2
64QAM	1	0	21.67	21.71	21.46	0-2	2
	1	50	21.72	21.66	21.46		2
	1	99	21.59	21.40	21.59		2
	50	0	20.41	20.53	20.59	0-3	3
	50	25	20.54	20.54	20.37		3
	50	50	20.67	20.50	20.43		3
	100	0	20.49	20.51	20.30		3
256QAM	1	0	18.52	18.50	18.58	0-5	5
	1	50	18.62	18.60	18.66		5
	1	99	18.53	18.46	18.33		5
	50	0	18.41	18.45	18.40		5
	50	25	18.52	18.47	18.36		5
	50	50	18.45	18.45	18.37		5
	100	0	18.51	18.43	18.33		5

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Table 10-26
LTE Band 66 (AWS) Ant F Measured P_{Limit} for DSI = 0 (Body-worn, Hotspot or Phablet)
- 20 MHz Bandwidth

LTE Band 66 (AWS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			132072 (1720.0 MHz)	132322 (1745.0 MHz)	132572 (1770.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	21.00	20.92	21.04	0	0
	1	50	20.95	20.97	21.09		0
	1	99	20.92	20.81	21.04		0
	50	0	20.96	20.97	20.98	0-1	0
	50	25	20.80	21.00	21.02		0
	50	50	20.81	20.84	20.98		0
	100	0	20.87	20.95	21.00		0
16QAM	1	0	21.50	21.23	21.33	0-1	0
	1	50	21.37	21.33	21.33		0
	1	99	21.36	21.29	21.50		0
	50	0	20.91	21.02	21.01	0-2	0
	50	25	20.85	20.98	21.03		0
	50	50	20.84	20.87	21.00		0
	100	0	20.79	20.98	20.99		0
64QAM	1	0	21.00	21.27	21.30	0-2	0
	1	50	21.26	21.27	21.30		0
	1	99	21.21	21.39	21.38		0
	50	0	20.63	20.71	20.74	0-3	0
	50	25	20.62	20.74	20.71		0
	50	50	20.54	20.60	20.71		0
	100	0	20.58	20.70	20.73		0
256QAM	1	0	18.83	18.89	18.79	0-5	2
	1	50	18.80	18.80	18.90		2
	1	99	18.77	18.78	18.76		2
	50	0	18.63	18.67	18.72		2
	50	25	18.56	18.68	18.73		2
	50	50	18.55	18.56	18.68		2
	100	0	18.54	18.66	18.71		2

Table 10-27
LTE Band 66 (AWS) Ant F Measured P_{Limit} for DSI = 1 (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	18.42	18.34	18.57	0	0
	1	50	18.41	18.34	18.50		0
	1	99	18.34	18.28	18.50		0
	50	0	18.40	18.50	18.55	0-1	0
	50	25	18.38	18.52	18.60		0
	50	50	18.32	18.37	18.54		0
	100	0	18.34	18.48	18.51	0	
16QAM	1	0	18.77	18.62	18.74	0-1	0
	1	50	18.71	18.83	18.87		0
	1	99	18.60	18.71	18.76		0
	50	0	18.42	18.50	18.58	0-2	0
	50	25	18.34	18.54	18.57		0
	50	50	18.34	18.41	18.55		0
	100	0	18.35	18.52	18.56	0	
64QAM	1	0	18.82	18.73	18.71	0-2	0
	1	50	18.64	18.99	18.92		0
	1	99	18.68	18.71	18.85		0
	50	0	18.41	18.52	18.59	0-3	0
	50	25	18.39	18.59	18.62		0
	50	50	18.39	18.42	18.59		0
	100	0	18.37	18.53	18.57	0	
256QAM	1	0	18.58	18.74	18.69	0-5	0
	1	50	18.72	18.84	18.87		0
	1	99	18.66	18.50	18.68		0
	50	0	18.47	18.56	18.62		0
	50	25	18.40	18.59	18.64		0
	50	50	18.38	18.45	18.57		0
	100	0	18.36	18.54	18.61		0

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10.3.7 LTE Band 25

Table 10-28
LTE Band 25 (PCS) Ant A Measured P_{Limit} for DSI = 0 (Body-worn, Hotspot or Phablet)
- 20 MHz Bandwidth

LTE Band 25 (PCS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26140 (1860.0 MHz)	26365 (1882.5 MHz)	26590 (1905.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	17.84	17.66	17.56	0	0
	1	50	17.85	17.70	17.80		0
	1	99	17.78	17.64	17.56		0
	50	0	17.68	17.73	17.59	0-1	0
	50	25	17.84	17.71	17.51		0
	50	50	17.72	17.66	17.54		0
	100	0	17.73	17.56	17.55		0
16QAM	1	0	17.82	17.53	17.56	0-1	0
	1	50	17.76	17.54	17.40		0
	1	99	17.75	17.67	17.53		0
	50	0	17.68	17.69	17.58	0-2	0
	50	25	17.75	17.74	17.50		0
	50	50	17.84	17.71	17.50		0
	100	0	17.65	17.55	17.53		0
64QAM	1	0	17.86	17.64	17.56	0-2	0
	1	50	17.97	17.79	17.44		0
	1	99	17.87	17.66	17.49		0
	50	0	17.71	17.68	17.60	0-3	0
	50	25	17.80	17.74	17.54		0
	50	50	17.89	17.63	17.52		0
	100	0	17.81	17.65	17.60		0
256QAM	1	0	17.84	17.80	17.56	0-5	0
	1	50	17.92	17.88	17.72		0
	1	99	17.75	17.78	17.62		0
	50	0	17.68	17.64	17.52		0
	50	25	17.78	17.65	17.55		0
	50	50	17.69	17.69	17.57		0
	100	0	17.77	17.63	17.50		0

Table 10-29
LTE Band 25 (PCS) Ant A Measured P_{Max} for DSI = 1 (Head) - 20 MHz Bandwidth

LTE Band 25 (PCS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26140 (1860.0 MHz)	26365 (1882.5 MHz)	26590 (1905.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	23.49	23.37	23.26	0	0
	1	50	23.51	23.35	23.26		0
	1	99	23.39	23.32	23.13		0
	50	0	22.37	22.32	22.16	0-1	1
	50	25	22.52	22.37	22.16		1
	50	50	22.31	22.32	22.28		1
	100	0	22.39	22.18	22.16		1
16QAM	1	0	22.57	22.39	22.65	0-1	1
	1	50	22.46	22.49	22.72		1
	1	99	22.51	22.47	22.59		1
	50	0	21.40	21.37	21.28	0-2	2
	50	25	21.55	21.29	21.16		2
	50	50	21.45	21.44	21.31		2
	100	0	21.35	21.32	21.19		2
64QAM	1	0	21.58	21.48	21.40	0-2	2
	1	50	21.52	21.57	21.40		2
	1	99	21.53	21.41	21.34		2
	50	0	20.48	20.38	20.34	0-3	3
	50	25	20.47	20.31	20.25		3
	50	50	20.38	20.41	20.25		3
	100	0	20.36	20.39	20.36		3
256QAM	1	0	18.48	18.41	18.18	0-5	5
	1	50	18.52	18.54	18.28		5
	1	99	18.40	18.36	18.19		5
	50	0	18.31	18.30	18.15		5
	50	25	18.44	18.28	18.13		5
	50	50	18.31	18.31	18.19		5
	100	0	18.39	18.27	18.13		5

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Table 10-30
LTE Band 25 (PCS) Ant F Measured P_{Limit} for DSI = 0 (Body-worn, Hotspot or Phablet)
- 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	20.09	20.12	20.16	0	0
	1	50	20.12	20.15	20.14		0
	1	99	20.09	20.17	20.08		0
	50	0	20.05	20.09	20.06	0-1	0
	50	25	20.15	20.12	20.18		0
	50	50	20.12	20.19	20.12		0
	100	0	20.12	20.09	20.16		0
16QAM	1	0	20.25	20.44	20.36	0-1	0
	1	50	20.35	20.37	20.38		0
	1	99	20.31	20.33	20.31		0
	50	0	20.09	20.11	20.09	0-2	0
	50	25	20.18	20.15	20.17		0
	50	50	20.18	20.18	20.15		0
	100	0	20.15	20.12	20.16		0
64QAM	1	0	20.40	20.63	20.40	0-2	0
	1	50	20.40	20.42	20.40		0
	1	99	20.52	20.42	20.30		0
	50	0	20.07	20.10	20.08	0-3	0
	50	25	20.19	20.17	20.19		0
	50	50	20.13	20.21	20.14		0
	100	0	20.13	20.13	20.16		0
256QAM	1	0	18.99	19.02	18.94	0-5	1.5
	1	50	18.98	19.12	19.11		1.5
	1	99	19.03	19.00	19.05		1.5
	50	0	18.75	18.85	18.80		1.5
	50	25	18.86	18.88	18.89		1.5
	50	50	18.82	18.89	18.83		1.5
	100	0	18.82	18.84	18.88		1.5

Table 10-31
LTE Band 25 (PCS) Ant F Measured P_{Limit} for DSI = 1 (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	18.48	18.63	18.68	0	0
	1	50	18.57	18.67	18.60		0
	1	99	18.46	18.63	18.56		0
	50	0	18.58	18.59	18.60	0-1	0
	50	25	18.68	18.63	18.69		0
	50	50	18.65	18.68	18.61		0
	100	0	18.62	18.59	18.65		0
16QAM	1	0	19.10	19.02	18.98	0-1	0
	1	50	19.16	18.93	18.89		0
	1	99	19.10	18.80	18.83		0
	50	0	18.61	18.61	18.65	0-2	0
	50	25	18.71	18.66	18.72		0
	50	50	18.63	18.69	18.66		0
	100	0	18.67	18.61	18.68		0
64QAM	1	0	18.86	18.96	18.93	0-2	0
	1	50	18.87	18.86	18.97		0
	1	99	18.88	18.87	18.87		0
	50	0	18.60	18.67	18.61	0-3	0
	50	25	18.71	18.66	18.76		0
	50	50	18.62	18.72	18.69		0
	100	0	18.65	18.61	18.72		0
256QAM	1	0	18.84	18.74	18.94	0-5	0
	1	50	18.94	18.86	18.93		0
	1	99	18.82	18.87	18.71		0
	50	0	18.60	18.66	18.63		0
	50	25	18.71	18.68	18.73		0
	50	50	18.65	18.71	18.65		0
	100	0	18.62	18.65	18.68		0

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10.3.8 LTE Band 30

Table 10-32

LTE Band 30 Ant A Measured P_{limit} for DSI = 0 (Body-worn, Hotspot or Phablet) - 10 MHz Bandwidth

LTE Band 30 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			27710 (2310.0 MHz) Conducted Power [dBm]		
QPSK	1	0	19.80	0	0
	1	25	19.74		0
	1	49	19.64		0
	25	0	19.84	0-1	0
	25	12	19.81		0
	25	25	19.75		0
16QAM	50	0	19.79	0-1	0
	1	0	20.05		0
	1	25	20.11		0
	1	49	19.88	0-2	0
	25	0	19.83		0
	25	12	19.80		0
64QAM	25	25	19.76	0-2	0
	50	0	19.75		0
	1	0	20.09	0-2	0
	1	25	20.08		0
	1	49	19.82	0-3	0
	25	0	19.80		0
256QAM	25	12	19.51	0-3	0
	25	25	19.37		0
	50	0	19.39	0-5	0
	1	0	17.52		2
	1	25	17.72		2
	1	49	17.38		2
	25	0	17.43		2
	25	12	17.40		2
	25	25	17.39		2
	50	0	17.43		2

Table 10-33

LTE Band 30 Ant A Measured P_{Max} for DSI = 1 (Head) - 10 MHz Bandwidth

LTE Band 30 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			27710 (2310.0 MHz) Conducted Power [dBm]		
QPSK	1	0	22.45	0	0
	1	25	22.08		0
	1	49	21.78		0
	25	0	21.49	0-1	1
	25	12	21.50		1
	25	25	21.46		1
16QAM	50	0	21.49	0-1	1
	1	0	21.70		1
	1	25	21.57		1
	1	49	21.20	0-2	1
	25	0	20.52		2
	25	12	20.54		2
64QAM	25	25	20.47	0-2	2
	50	0	20.49		2
	1	0	20.66	0-2	2
	1	25	20.65		2
	1	49	20.56	0-3	2
	25	0	19.54		3
256QAM	25	12	19.47	0-3	3
	25	25	19.45		3
	50	0	19.51	0-5	3
	1	0	17.66		5
	1	25	17.72		5
	1	49	17.42		5
	25	0	17.47		5
	25	12	17.47		5
	25	25	17.42		5
	50	0	17.42		5

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Table 10-34
LTE Band 30 Ant F Measured P_{Limit} for DSI = 0 (Body-worn, Hotspot or Phablet) - 10 MHz Bandwidth

LTE Band 30 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			27710 (2310.0 MHz) Conducted Power [dBm]		
QPSK	1	0	19.46	0	0
	1	25	19.44		0
	1	49	19.40		0
	25	0	19.48	0-1	0
	25	12	19.47		0
	25	25	19.42		0
	50	0	19.43		0
16QAM	1	0	19.77	0-1	0
	1	25	19.81		0
	1	49	19.68		0
	25	0	19.56	0-2	0
	25	12	19.53		0
	25	25	19.48		0
	50	0	19.50		0
64QAM	1	0	19.61	0-2	0
	1	25	19.80		0
	1	49	19.55		0
	25	0	19.25	0-3	1
	25	12	19.28		1
	25	25	19.21		1
	50	0	19.26		1
256QAM	1	0	17.29	0-5	3
	1	25	17.25		3
	1	49	17.18		3
	25	0	17.26		3
	25	12	17.29		3
	25	25	17.19		3
	50	0	17.23		3

Table 10-35
LTE Band 30 Ant F Measured P_{Limit} for DSI = 1 (Head) - 10 MHz Bandwidth

LTE Band 30 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			27710 (2310.0 MHz) Conducted Power [dBm]		
QPSK	1	0	16.39	0	0
	1	25	16.48		0
	1	49	16.29		0
	25	0	16.50	0-1	0
	25	12	16.51		0
	25	25	16.46		0
	50	0	16.46		0
16QAM	1	0	16.82	0-1	0
	1	25	16.82		0
	1	49	16.67		0
	25	0	16.51	0-2	0
	25	12	16.50		0
	25	25	16.43		0
	50	0	16.44		0
64QAM	1	0	16.53	0-2	0
	1	25	16.64		0
	1	49	16.51		0
	25	0	16.49	0-3	0
	25	12	16.48		0
	25	25	16.45		0
	50	0	16.43		0
256QAM	1	0	16.60	0-5	0
	1	25	16.70		0
	1	49	16.51		0
	25	0	16.56		0
	25	12	16.54		0
	25	25	16.51		0
	50	0	16.47		0

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10.3.9 LTE Band 7

Table 10-36

LTE Band 7 Ant B Measured P_{Limit} for DSI = 0 (Body-worn, Hotspot or Phablet) - 20 MHz Bandwidth

LTE Band 7 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20850 (2510.0 MHz)	21100 (2535.0 MHz)	21350 (2560.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	20.66	20.23	20.44	0	0
	1	50	20.32	20.31	20.51		0
	1	99	20.21	20.32	20.31		0
	50	0	20.47	20.35	20.33	0-1	0
	50	25	20.49	20.43	20.22		0
	50	50	20.45	20.19	20.28		0
	100	0	20.43	20.31	20.26		0
16QAM	1	0	20.61	20.21	20.26	0-1	0
	1	50	20.48	20.44	20.35		0
	1	99	20.25	20.28	20.48		0
	50	0	20.45	20.33	20.24	0-2	0
	50	25	20.53	20.29	20.27		0
	50	50	20.53	20.28	20.37		0
	100	0	20.47	20.36	20.16		0
64QAM	1	0	20.71	20.50	20.54	0-2	0
	1	50	20.63	20.53	20.45		0
	1	99	20.57	20.37	20.42		0
	50	0	20.51	20.38	20.32	0-3	0
	50	25	20.57	20.41	20.16		0
	50	50	20.45	20.23	20.41		0
	100	0	20.49	20.25	20.34		0
256QAM	1	0	19.28	19.11	19.22	0-5	1.5
	1	50	19.27	18.96	19.12		1.5
	1	99	19.07	19.01	18.93		1.5
	50	0	19.06	18.91	18.87		1.5
	50	25	19.06	18.91	18.92		1.5
	50	50	18.98	18.89	18.92		1.5
	100	0	19.10	18.90	18.84		1.5

Table 10-37

LTE Band 7 Ant B Measured P_{Max} for DSI = 1 (Head) - 20 MHz Bandwidth

LTE Band 7 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20850 (2510.0 MHz)	21100 (2535.0 MHz)	21350 (2560.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	23.98	23.92	23.67	0	0
	1	50	23.91	23.66	23.72		0
	1	99	23.92	23.76	23.71		0
	50	0	23.10	22.94	22.91	0-1	1
	50	25	23.18	22.95	22.87		1
	50	50	23.03	23.03	22.95		1
	100	0	23.11	22.90	22.87		1
16QAM	1	0	23.35	23.04	22.86	0-1	1
	1	50	23.25	23.19	23.22		1
	1	99	22.98	23.10	23.30		1
	50	0	22.17	22.03	21.96	0-2	2
	50	25	22.30	22.10	21.93		2
	50	50	22.10	22.05	21.97		2
	100	0	22.10	21.94	21.95		2
64QAM	1	0	22.38	22.27	22.10	0-2	2
	1	50	22.36	22.21	22.30		2
	1	99	22.11	22.20	22.07		2
	50	0	21.23	20.92	21.02	0-3	3
	50	25	21.12	20.88	21.02		3
	50	50	21.09	20.91	20.94		3
	100	0	21.11	20.99	20.90		3
256QAM	1	0	19.18	19.10	18.99	0-5	5
	1	50	19.22	19.19	19.22		5
	1	99	19.05	19.04	19.04		5
	50	0	19.14	18.96	18.89		5
	50	25	19.11	18.97	18.88		5
	50	50	19.03	18.93	18.94		5
	100	0	19.10	18.97	18.84		5

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Table 10-38
LTE Band 7 Ant F Measured P_{Limit} for DSI = 0 (Body-worn, Hotspot or Phablet) - 20 MHz Bandwidth

LTE Band 7 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20850 (2510.0 MHz)	21100 (2535.0 MHz)	21350 (2560.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	19.72	19.68	19.68	0	0
	1	50	19.70	19.63	19.71		0
	1	99	19.64	19.62	19.69		0
	50	0	19.74	19.69	19.75	0-1	0
	50	25	19.80	19.76	19.72		0
	50	50	19.74	19.73	19.77		0
	100	0	19.70	19.68	19.61		0
16QAM	1	0	20.11	19.89	19.89	0-1	0
	1	50	19.97	19.86	19.92		0
	1	99	19.94	19.90	19.90		0
	50	0	19.75	19.71	19.74	0-2	0
	50	25	19.80	19.79	19.87		0
	50	50	19.77	19.75	19.79		0
	100	0	19.79	19.78	19.74		0
64QAM	1	0	19.86	19.95	19.98	0-2	0
	1	50	19.91	20.04	19.95		0
	1	99	19.80	19.94	19.82		0
	50	0	19.81	19.70	19.77	0-3	0
	50	25	19.83	19.81	19.87		0
	50	50	19.78	19.75	19.78		0
	100	0	19.83	19.78	19.75		0
256QAM	1	0	19.22	18.91	19.06	0-5	1
	1	50	19.31	19.20	19.21		1
	1	99	19.09	19.09	19.19		1
	50	0	18.97	18.94	18.98		1
	50	25	19.07	19.05	19.06		1
	50	50	19.02	19.02	19.04		1
	100	0	19.04	19.00	18.95		1

Table 10-39
LTE Band 7 Ant F Measured P_{Limit} for DSI = 1 (Head) - 20 MHz Bandwidth

LTE Band 7 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20850 (2510.0 MHz)	21100 (2535.0 MHz)	21350 (2560.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	16.30	16.17	16.12	0	0
	1	50	16.21	16.15	16.11		0
	1	99	16.17	16.11	16.09		0
	50	0	16.24	16.16	16.17	0-1	0
	50	25	16.27	16.22	16.24		0
	50	50	16.25	16.20	16.22		0
	100	0	16.26	16.22	16.13		0
16QAM	1	0	16.46	16.36	16.39	0-1	0
	1	50	16.48	16.42	16.59		0
	1	99	16.39	16.31	16.48		0
	50	0	16.25	16.19	16.21	0-2	0
	50	25	16.32	16.25	16.25		0
	50	50	16.25	16.23	16.23		0
64QAM	100	0	16.27	16.22	16.17	0	
	1	0	16.43	16.27	16.39	0-2	0
	1	50	16.51	16.43	16.36		0
	1	99	16.30	16.24	16.41		0
	50	0	16.28	16.18	16.21	0-3	0
	50	25	16.27	16.23	16.25		0
	50	50	16.22	16.17	16.24		0
100	0	16.28	16.20	16.16	0		
256QAM	1	0	16.31	16.23	16.26	0-5	0
	1	50	16.33	16.30	16.36		0
	1	99	16.37	16.31	16.46		0
	50	0	16.19	16.13	16.21		0
	50	25	16.26	16.25	16.30		0
	50	50	16.24	16.22	16.26		0
	100	0	16.23	16.20	16.20		0

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10.3.10 LTE Band 41

Table 10-40

LTE Band 41 Ant B Measured P_{Limit} for DSI = 0 (Body-worn, Hotspot or Phablet) - 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	22.63	22.53	22.39	22.45	22.50	0	0
	1	50	22.66	22.51	22.40	22.42	22.43		0
	1	99	22.68	22.54	22.20	22.33	22.29		0
	50	0	22.58	22.46	22.37	22.57	22.53	0-1	0
	50	25	22.57	22.33	22.34	22.38	22.52		0
	50	50	22.62	22.60	22.35	22.48	22.53		0
	100	0	22.53	22.28	22.39	22.52	22.46	0	
16QAM	1	0	22.79	22.46	22.42	22.54	22.61	0-1	0
	1	50	22.64	22.70	22.36	22.48	22.46		0
	1	99	22.56	22.59	22.25	22.40	22.36		0
	50	0	22.40	22.33	22.23	22.19	22.41	0-2	0
	50	25	22.40	22.37	22.27	22.32	22.39		0
	50	50	22.32	22.53	22.32	22.14	22.37		0
	100	0	22.33	22.27	22.19	22.28	22.33	0	
64QAM	1	0	22.34	22.39	22.09	22.33	22.42	0-2	0
	1	50	22.30	22.36	22.11	22.32	22.35		0
	1	99	22.14	22.34	22.07	22.34	22.23		0
	50	0	21.44	21.42	21.41	21.27	21.37	0-3	1
	50	25	21.43	21.30	21.24	21.21	21.53		1
	50	50	21.52	21.29	21.11	21.35	21.44		1
	100	0	21.38	21.26	21.34	21.15	21.20	1	
256QAM	1	0	19.33	19.24	19.23	19.16	19.38	0-5	3
	1	50	19.41	19.31	19.23	19.32	19.42		3
	1	99	19.29	19.27	19.02	19.09	19.27		3
	50	0	19.34	19.24	19.23	19.26	19.40	3	
	50	25	19.44	19.30	19.27	19.25	19.45	3	
	50	50	19.37	19.32	19.19	19.30	19.35	3	
	100	0	19.42	19.25	19.24	19.19	19.32	3	

Table 10-41

LTE Band 41 Ant B Measured P_{Max} for DSI = 1 (Head) - 20 MHz Bandwidth

LTE Band 41 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	24.53	24.24	24.26	24.23	24.43	0	0
	1	50	24.48	24.39	24.23	24.33	24.37		0
	1	99	24.56	24.42	24.04	24.19	24.15		0
	50	0	23.37	23.28	23.24	23.22	23.49	0-1	1
	50	25	23.50	23.36	23.20	23.17	23.46		1
	50	50	23.57	23.41	23.26	23.33	23.43		1
16QAM	100	0	23.44	23.32	23.33	23.36	23.37	0-1	1
	1	0	23.64	23.39	23.22	23.36	23.50		1
	1	50	23.55	23.53	23.08	23.23	23.30		1
	1	99	23.38	23.44	23.04	23.10	23.17	0-2	1
	50	0	22.46	22.38	22.24	22.28	22.52		2
	50	25	22.66	22.33	22.36	22.26	22.59		2
64QAM	50	50	22.32	22.61	22.29	22.40	22.39	0-2	2
	100	0	22.54	22.25	22.29	22.28	22.46		2
	1	0	22.61	22.31	22.23	22.19	22.42		0-3
	1	50	22.44	22.46	22.07	22.33	22.23	2	
	1	99	22.36	22.44	22.10	22.17	22.16	2	
	50	0	21.34	21.39	21.28	21.41	21.50	3	
256QAM	50	25	21.46	21.33	21.29	21.37	21.45	0-3	3
	50	50	21.58	21.31	21.41	21.19	21.44		3
	100	0	21.55	21.18	21.19	21.21	21.51		3
	1	0	19.32	19.23	19.37	19.23	19.37	0-5	5
	1	50	19.35	19.45	19.34	19.29	19.39		5
	1	99	19.30	19.39	19.11	19.04	19.12		5
256QAM	50	0	19.36	19.31	19.28	19.30	19.42	0-5	5
	50	25	19.49	19.35	19.33	19.27	19.44		5
	50	50	19.41	19.40	19.25	19.26	19.40		5
	100	0	19.47	19.28	19.32	19.24	19.33		5

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Table 10-42
LTE Band 41 Ant F Measured P_{Limit} for DSI = 0 (Body-worn, Hotspot or Phablet) - 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	21.86	21.97	21.87	21.75	21.90	0	0
	1	50	21.84	21.84	21.77	21.75	21.83		0
	1	99	21.81	21.77	21.58	21.63	21.75		0
	50	0	21.89	21.95	21.89	21.84	21.93	0-1	0
	50	25	21.94	21.91	21.88	21.79	21.87		0
	50	50	21.94	21.88	21.82	21.75	21.90		0
16QAM	100	0	21.89	21.90	21.86	21.75	21.89	0-1	0
	1	0	21.96	21.85	21.95	21.83	22.02		0
	1	50	22.01	21.98	21.78	21.85	21.88		0
	1	99	21.89	21.75	21.75	21.58	21.74	0-2	0
	50	0	21.88	21.95	21.94	21.83	21.97		0
	50	25	21.99	21.96	21.91	21.79	21.95		0
64QAM	50	50	21.95	21.91	21.79	21.83	21.89	0-2	0
	100	0	21.96	21.93	21.92	21.80	21.92		0
	1	0	21.91	21.93	21.89	21.89	22.03		0-2
	1	50	21.94	22.01	21.82	21.91	21.91	0	
	1	99	21.76	21.96	21.74	21.60	21.80	0-3	
	50	0	21.41	21.44	21.46	21.31	21.45		0.5
256QAM	50	25	21.47	21.46	21.40	21.28	21.38		0-3
	50	50	21.41	21.42	21.30	21.28	21.39	0.5	
	100	0	21.44	21.38	21.38	21.22	21.40	0.5	
	1	0	19.24	19.34	19.30	19.23	19.41	0-5	2.5
	1	50	19.32	19.34	19.34	19.37	19.39		2.5
	1	99	19.21	19.24	19.07	19.17	19.27		2.5
50	0	19.37	19.41	19.44	19.30	19.46	2.5		
50	25	19.46	19.44	19.36	19.26	19.40	2.5		
50	50	19.41	19.38	19.30	19.24	19.40	2.5		
	100	0	19.40	19.40	19.36	19.25	19.40	2.5	

Table 10-43
LTE Band 41 Ant F Measured P_{Limit} for DSI = 1 (Head) - 20 MHz Bandwidth

LTE Band 41 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	18.35	18.42	18.26	18.23	18.32	0	0
	1	50	18.29	18.34	18.18	18.15	18.24		0
	1	99	18.23	18.22	18.00	17.99	18.12		0
	50	0	18.35	18.41	18.31	18.19	18.34	0-1	0
	50	25	18.38	18.40	18.29	18.18	18.28		0
	50	50	18.37	18.33	18.19	18.15	18.26		0
	100	0	18.36	18.39	18.28	18.14	18.26		0
16QAM	1	0	18.49	18.38	18.20	18.15	18.33	0-1	0
	1	50	18.44	18.31	18.16	18.21	18.20		0
	1	99	18.51	18.23	18.07	18.05	18.13		0
	50	0	18.31	18.36	18.33	18.20	18.36	0-2	0
	50	25	18.41	18.41	18.31	18.16	18.31		0
	50	50	18.40	18.34	18.21	18.18	18.31		0
	100	0	18.37	18.34	18.31	18.13	18.30		0
64QAM	1	0	18.28	18.33	18.21	18.13	18.31	0-2	0
	1	50	18.34	18.34	18.33	18.15	18.32		0
	1	99	18.25	18.32	18.04	17.91	18.02		0
	50	0	18.36	18.42	18.37	18.22	18.35	0-3	0
	50	25	18.44	18.42	18.31	18.19	18.34		0
	50	50	18.40	18.34	18.24	18.26	18.30		0
	100	0	18.39	18.38	18.28	18.18	18.30		0
256QAM	1	0	18.41	18.35	18.26	18.17	18.27	0-5	0
	1	50	18.39	18.44	18.19	18.26	18.41		0
	1	99	18.33	18.29	18.08	18.06	18.24		0
	50	0	18.40	18.44	18.38	18.25	18.44		0
	50	25	18.48	18.44	18.30	18.24	18.35		0
	50	50	18.43	18.37	18.27	18.22	18.37		0
	100	0	18.47	18.41	18.32	18.22	18.36		0

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10.3.11 LTE Band 48

Table 10-44

LTE Band 48 Ant F Measured P_{Limit} for DSI = 0 (Body-worn, Hotspot or Phablet) - 20 MHz Bandwidth

LTE Band 48 20 MHz Bandwidth								
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			55340 (3560.0 MHz)	55773 (3603.3 MHz)	56207 (3646.7 MHz)	56640 (3690.0 MHz)		
			Conducted Power [dBm]					
QPSK	1	0	21.48	21.68	21.90	21.76	0	0
	1	50	21.80	21.70	21.80	21.84		0
	1	99	21.64	21.71	21.71	21.86		0
	50	0	20.51	20.74	20.77	20.85	0-1	0.5
	50	25	20.71	20.91	21.04	20.99		0.5
	50	50	20.72	20.85	20.89	20.94		0.5
	100	0	20.66	20.82	20.84	20.94		0.5
16QAM	1	0	20.81	20.88	20.90	20.95	0-1	0.5
	1	50	20.86	20.93	20.97	21.29		0.5
	1	99	20.80	20.91	21.00	21.10		0.5
	50	0	19.52	19.77	19.81	19.83	0-2	1.5
	50	25	19.73	19.88	19.92	20.00		1.5
	50	50	19.69	19.89	19.92	19.95		1.5
	100	0	19.68	19.84	19.91	19.97		1.5
64QAM	1	0	19.86	19.98	19.98	19.94	0-2	1.5
	1	50	19.96	19.97	19.97	19.92		1.5
	1	99	19.94	19.92	19.95	19.95		1.5
	50	0	18.54	18.76	18.76	18.85	0-3	2.5
	50	25	18.66	18.87	18.92	18.97		2.5
	50	50	18.69	18.87	18.91	18.94		2.5
	100	0	18.71	18.89	18.89	18.98		2.5
256QAM	1	0	16.66	16.92	16.75	16.95	0-5	4.5
	1	50	16.61	16.87	16.70	16.89		4.5
	1	99	16.80	16.73	16.94	16.84		4.5
	50	0	16.49	16.77	16.75	16.87		4.5
	50	25	16.66	16.83	16.90	16.94		4.5
	50	50	16.67	16.83	16.95	16.98		4.5
	100	0	16.63	16.83	16.92	16.95		4.5

Table 10-45

LTE Band 48 Ant F Uplink Carrier Aggregation Measured P_{Limit} for DSI = 0 (Body-worn, Hotspot or Phablet) - 20 MHz Bandwidth

LTE Bandwidth																
ination	PCC							SCC							Power	
	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx Power with UL CA Enabled (dBm)	LTE Carrier Tx Power (dBm)
48C	LTE B48	20	56207	3646.7	QPSK	1	0	LTE B48	20	56009	3626.9	QPSK	1	99	21.89	21.90

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Table 10-46
LTE Band 48 Ant F Measured P_{Limit} for DSI = 1 (Head) - 20 MHz Bandwidth

LTE Band 48 20 MHz Bandwidth								
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			55340 (3560.0 MHz)	55773 (3603.3 MHz)	56207 (3646.7 MHz)	56640 (3690.0 MHz)		
			Conducted Power [dBm]					
QPSK	1	0	17.34	17.62	17.62	17.92	0	0
	1	50	17.42	17.43	17.80	17.75		0
	1	99	17.77	17.56	17.79	17.80		0
	50	0	17.52	17.77	17.81	18.00	0-1	0
	50	25	17.91	17.88	17.91	17.99		0
	50	50	17.69	17.87	17.93	17.95		0
	100	0	17.66	17.82	17.86	17.91		0
16QAM	1	0	17.74	17.70	17.70	17.89	0-1	0
	1	50	17.75	17.81	17.81	17.82		0
	1	99	17.76	17.90	17.90	17.93		0
	50	0	17.54	17.78	17.79	17.88	0-2	0
	50	25	17.69	17.90	17.94	17.99		0
	50	50	17.70	17.87	17.95	18.00		0
	100	0	17.71	17.88	17.94	18.01		0
64QAM	1	0	17.79	17.97	17.82	18.07	0-2	0
	1	50	17.69	18.16	17.90	18.11		0
	1	99	18.12	17.86	18.05	18.12		0
	50	0	17.56	17.76	17.79	17.86	0-3	0
	50	25	17.69	17.88	17.95	18.01		0
	50	50	17.71	17.85	17.94	18.01		0
	100	0	17.71	17.87	17.89	18.03		0
256QAM	1	0	16.39	16.65	16.57	16.71	0-5	1
	1	50	16.51	17.09	16.93	17.00		1
	1	99	16.73	17.14	16.75	17.00		1
	50	0	16.56	16.82	16.77	16.90		1
	50	25	16.67	16.90	16.97	17.05		1
	50	50	16.73	16.88	16.90	17.03		1
	100	0	16.69	16.87	16.89	17.03		1

Table 10-47
LTE Band 48 Ant F Uplink Carrier Aggregation Measured P_{Limit} for DSI = 1 (Head) - 20 MHz Bandwidth

LTE Band 48 CA #1 - Splicing Carrier Aggregation measured 7.1mhz for CA #1 (ready) 20 MHz Bandwidth																
Combination	PCC Band	PCC Bandwidth [MHz]	PCC				SCC				Power					
			PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_48C	LTE B48	20	56640	3690.0	QPSK	100	0	LTE B48	20	56442	3670.2	QPSK	100	0	17.99	17.91

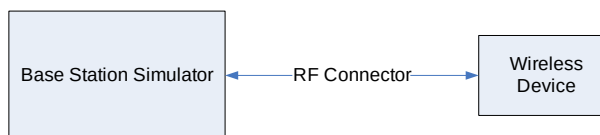


Figure 10-3
Power Measurement Setup

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10.4 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.

10.4.1 NR Band n71

Table 10-48
NR Band n71 Ant A Measured P_{Max} for all DSI - 35 MHz Bandwidth

NR Band n71 35 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			136100 (680.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	23.68	0	0.0
	1	94	24.02		0.0
	1	186	23.75		0.0
	90	0	22.88	0-1	1.0
	90	49	24.11	0	0.0
	90	98	22.98	0-1	1.0
	180	0	22.98		1.0
DFT-s-OFDM 16QAM	1	1	22.65	0-1	1.0
CP-OFDM QPSK	1	1	22.23	0-1.5	1.5

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Table 10-49
NR Band n71 Ant E Measured P_{Max} for DSI = 0 (Body-worn, Hotspot or Phablet) - 35 MHz Bandwidth

NR Band n71 35 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			136100 (680.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	23.97	0	0.0
	1	94	24.39		0.0
	1	186	24.06		0.0
	90	0	23.21	0-1	1.0
	90	49	24.35	0	0.0
	90	98	23.33	0-1	1.0
	180	0	23.28		1.0
DFT-s-OFDM 16QAM	1	1	22.97	0-1	1.0
CP-OFDM QPSK	1	1	22.58	0-1.5	1.5

Table 10-50
NR Band n71 Ant E Measured P_{Limit} for DSI = 1 (Head) - 35 MHz Bandwidth

NR Band n71 35 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			136100 (680.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	21.62	0	0.0
	1	94	21.71		0.0
	1	186	21.56		0.0
	90	0	21.68	0-1	0.0
	90	49	21.71	0	0.0
	90	98	21.49	0-1	0.0
	180	0	21.59		0.0
DFT-s-OFDM 16QAM	1	1	21.49	0-1	0.0
CP-OFDM QPSK	1	1	21.79	0-1.5	0.0

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10.4.2 NR Band n12

Table 10-51
NR Band n12 Ant A Measured P_{Max} for all DSI - 15 MHz Bandwidth

NR Band n12 15 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			141500 (707.5 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	24.11	0	0.0
	1	40	24.12		0.0
	1	77	24.00		0.0
	36	0	22.87	0-1	1.0
	36	22	24.15	0	0.0
	36	43	23.11	0-1	1.0
	75	0	23.03		1.0
DFT-s-OFDM 16QAM	1	1	22.88	0-1	1.0
CP-OFDM QPSK	1	1	22.78	0-1.5	1.5

Table 10-52
NR Band n12 Ant E Measured P_{Max} for DSI = 0 (Body-worn, Hotspot or Phablet) - 15 MHz Bandwidth

NR Band n12 15 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			141500 (707.5 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	24.40	0	0.0
	1	40	24.44		0.0
	1	77	24.26		0.0
	36	0	23.42	0-1	1.0
	36	22	24.44	0	0.0
	36	43	23.40	0-1	1.0
	75	0	23.27		1.0
DFT-s-OFDM 16QAM	1	1	23.27	0-1	1.0
CP-OFDM QPSK	1	1	22.95	0-1.5	1.5

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Table 10-53
NR Band n12 Ant E Measured P_{Limit} for DSI = 1 (Head) - 15 MHz Bandwidth

NR Band n12 15 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			141500 (707.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	21.73	0	0.0
	1	40	21.66		0.0
	1	77	21.67		0.0
	36	0	21.71	0-1	0.0
	36	22	21.70	0	0.0
	36	43	21.65	0-1	0.0
	75	0	21.59		0.0
DFT-s-OFDM 16QAM	1	1	21.57	0-1	0.0
CP-OFDM QPSK	1	1	22.04	0-1.5	0.0

10.4.3 NR Band n14

Table 10-54
NR Band n14 Ant A Measured P_{Max} for all DSI - 10 MHz Bandwidth

NR Band n14 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			158600 (793 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	23.84	0	0.0
	1	26	23.56		0.0
	1	50	23.64		0.0
	25	0	22.85	0-1	1.0
	25	14	23.58	0	0.0
	25	27	22.42	0-1	1.0
	50	0	22.20		1.0
DFT-s-OFDM 16QAM	1	1	22.75	0-1	1.0
CP-OFDM QPSK	1	1	22.35	0-1.5	1.5

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Table 10-55
NR Band n14 Ant E Measured P_{Max} for DSI = 0 (Body-worn, Hotspot or Phablet) - 10 MHz Bandwidth

NR Band n14 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			158600 (793 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	24.07	0	0.0
	1	26	23.91		0.0
	1	50	24.03		0.0
	25	0	23.04	0-1	1.0
	25	14	23.92	0	0.0
	25	27	22.83	0-1	1.0
	50	0	23.11		1.0
DFT-s-OFDM 16QAM	1	1	22.92	0-1	1.0
CP-OFDM QPSK	1	1	22.51	0-1.5	1.5

Table 10-56
NR Band n14 Ant E Measured P_{Limit} for DSI = 1 (Head) - 10 MHz Bandwidth

NR Band n14 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			158600 (793 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	21.34	0	0.0
	1	26	21.40		0.0
	1	50	21.46		0.0
	25	0	21.32	0-1	0.0
	25	14	21.36	0	0.0
	25	27	21.27	0-1	0.0
	50	0	21.20		0.0
DFT-s-OFDM 16QAM	1	1	21.35	0-1	0.0
CP-OFDM QPSK	1	1	21.51	0-1.5	0.0

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10.4.4 NR Band n26

Table 10-57
NR Band n26 Ant A Measured P_{Max} for all DSI - 20 MHz Bandwidth

NR Band n26 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			166300 (831.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	24.07	0	0.0
	1	53	24.22		0.0
	1	104	24.06		0.0
	50	0	23.11	0-1	1.0
	50	28	24.11	0	0.0
	50	56	23.09	0-1	1.0
	100	0	23.19		1.0
DFT-s-OFDM 16QAM	1	1	22.91	0-1	1.0
CP-OFDM QPSK	1	1	22.65	0-1.5	1.5

Table 10-58
NR Band n26 Ant E Measured P_{Max} for DSI = 0 (Body-worn, Hotspot or Phablet) - 20 MHz Bandwidth

NR Band n26 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			166300 (831.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	24.32	0	0.0
	1	53	24.36		0.0
	1	104	24.24		0.0
	50	0	23.35	0-1	1.0
	50	28	24.42	0	0.0
	50	56	23.26	0-1	1.0
	100	0	23.38		1.0
DFT-s-OFDM 16QAM	1	1	23.14	0-1	1.0
CP-OFDM QPSK	1	1	22.83	0-1.5	1.5

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Table 10-59
NR Band n26 Ant E Measured P_{Limit} for DSI = 1 (Head) - 20 MHz Bandwidth

NR Band n26 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			166300 (831.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	21.23	0	0.0
	1	53	21.14		0.0
	1	104	21.00		0.0
	50	0	21.02	0-1	0.0
	50	28	21.06	0	0.0
	50	56	20.99	0-1	0.0
	100	0	21.05		0.0
DFT-s-OFDM 16QAM	1	1	21.06	0-1	0.0
CP-OFDM QPSK	1	1	21.24	0-1.5	0.0

10.4.5 NR Band n70

Table 10-60
NR Band n70 Ant A Measured P_{Limit} for DSI = 0 (Body-worn, Hotspot or Phablet) - 15 MHz Bandwidth

NR Band n70 15 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			340500 (1702.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	18.91	0	0.0
	1	40	18.93		0.0
	1	77	18.88		0.0
	36	0	18.94	0-1	0.0
	36	22	18.88	0	0.0
	36	43	18.82	0-1	0.0
	75	0	18.88		0.0
DFT-s-OFDM 16QAM	1	1	18.95	0-1	0.0
CP-OFDM QPSK	1	1	19.01	0-1.5	0.0

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Table 10-61
NR Band n70 Ant A Measured P_{Max} for DSI = 1 (Head) - 15 MHz Bandwidth

NR Band n70 15 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			340500 (1702.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	23.67	0	0.0
	1	40	23.65		0.0
	1	77	23.47		0.0
	36	0	22.67	0-1	1.0
	36	22	23.66	0	0.0
	36	43	22.68	0-1	1.0
	75	0	22.64		1.0
DFT-s-OFDM 16QAM	1	1	22.45	0-1	1.0
CP-OFDM QPSK	1	1	22.33	0-1.5	1.5

Table 10-62
NR Band n70 Ant F Measured P_{Limit} for DSI = 0 (Body-worn, Hotspot or Phablet) - 15 MHz Bandwidth

NR Band n70 15 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			340500 (1702.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	20.70	0	0.0
	1	40	21.14		0.0
	1	77	21.15		0.0
	36	0	20.91	0-1	0.0
	36	22	21.02	0	0.0
	36	43	21.05	0-1	0.0
	75	0	21.00		0.0
DFT-s-OFDM 16QAM	1	1	20.84	0-1	0.0
CP-OFDM QPSK	1	1	21.14	0-1.5	0.0

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Table 10-63
NR Band n70 Ant F Measured P_{Limit} for DSI = 1 (Head) - 15 MHz Bandwidth

NR Band n70 15 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			340500 (1702.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	18.32	0	0.0
	1	40	18.52		0.0
	1	77	18.82		0.0
	36	0	18.27	0-1	0.0
	36	22	18.47	0	0.0
	36	43	18.52	0-1	0.0
	75	0	18.44		0.0
DFT-s-OFDM 16QAM	1	1	18.16	0-1	0.0
CP-OFDM QPSK	1	1	18.49	0-1.5	0.0

10.4.6 NR Band n66

Table 10-64
NR Band n66 Ant A Measured P_{Limit} for DSI = 0 (Body-worn, Hotspot or Phablet) - 45 MHz Bandwidth

NR Band n66 45 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	19.06	0	0.0
	1	121	19.08		0.0
	1	240	19.20		0.0
	120	0	19.23	0-1	0.0
	120	61	19.12	0	0.0
	120	122	19.10	0-1	0.0
	240	0	19.19		0.0
DFT-s-OFDM 16QAM	1	1	18.98	0-1	0.0
CP-OFDM QPSK	1	1	19.16	0-1.5	0.0

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Table 10-65
NR Band n66 Ant A Measured P_{Max} for DSI = 1 (Head) - 45 MHz Bandwidth

NR Band n66 45 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	23.04	0	0.0
	1	121	23.63		0.0
	1	240	23.51		0.0
	120	0	22.75	0-1	1.0
	120	61	23.74	0	0.0
	120	122	22.79	0-1	1.0
	240	0	22.76		1.0
DFT-s-OFDM 16QAM	1	1	22.01	0-1	1.0
CP-OFDM QPSK	1	1	21.80	0-1.5	1.5

Table 10-66
NR Band n66 Ant F Measured P_{Limit} for DSI = 0 (Body-worn, Hotspot or Phablet) - 45 MHz Bandwidth

NR Band n66 45 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	21.43	0	0.0
	1	121	21.17		0.0
	1	240	21.04		0.0
	120	0	21.19	0-1	0.0
	120	61	21.09	0	0.0
	120	122	21.02	0-1	0.0
	240	0	21.13		0.0
DFT-s-OFDM 16QAM	1	1	21.28	0-1	0.0
CP-OFDM QPSK	1	1	21.31	0-1.5	0.0

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Table 10-67
NR Band n66 Ant F Measured P_{Limit} for DSI = 1 (Head) - 45 MHz Bandwidth

NR Band n66 45 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	18.87	0	0.0
	1	121	18.52		0.0
	1	240	18.52		0.0
	120	0	18.64	0-1	0.0
	120	61	18.53	0	0.0
	120	122	18.54	0-1	0.0
	240	0	18.57		0.0
DFT-s-OFDM 16QAM	1	1	18.76	0-1	0.0
CP-OFDM QPSK	1	1	18.87	0-1.5	0.0

10.4.7 NR Band n25

Table 10-68
NR Band n25 Ant A Measured P_{Limit} for DSI = 0 (Body-worn, Hotspot or Phablet) - 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	17.80	0	0.0
	1	108	17.87		0.0
	1	214	17.86		0.0
	108	0	17.86	0-1	0.0
	108	54	17.83	0	0.0
	108	108	17.85	0-1	0.0
	216	0	17.74		0.0
DFT-s-OFDM 16QAM	1	1	17.65	0-1	0.0
CP-OFDM QPSK	1	1	17.92	0-1.5	0.0

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Table 10-69
NR Band n25 Ant A Measured P_{Max} for DSI = 1 (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	23.50	0	0.0
	1	108	23.61		0.0
	1	214	23.57		0.0
	108	0	22.55	0-1	1.0
	108	54	23.56	0	0.0
	108	108	22.56	0-1	1.0
	216	0	22.65		1.0
DFT-s-OFDM 16QAM	1	1	22.44	0-1	1.0
CP-OFDM QPSK	1	1	22.04	0-1.5	1.5

Table 10-70
NR Band n25 Ant F Measured P_{Limit} for DSI = 0 (Body-worn, Hotspot or Phablet) - 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	20.14	0	0.0
	1	108	20.05		0.0
	1	214	19.98		0.0
	108	0	19.91	0-1	0.0
	108	54	20.00	0	0.0
	108	108	19.91	0-1	0.0
	216	0	19.99		0.0
DFT-s-OFDM 16QAM	1	1	19.99	0-1	0.0
CP-OFDM QPSK	1	1	20.20	0-1.5	0.0

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Table 10-71
NR Band n25 Ant F Measured P_{Limit} for DSI = 1 (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	18.61	0	0.0
	1	108	18.50		0.0
	1	214	18.39		0.0
	108	0	18.46	0-1	0.0
	108	54	18.48	0	0.0
	108	108	18.32	0-1	0.0
	216	0	18.47		0.0
DFT-s-OFDM 16QAM	1	1	18.49	0-1	0.0
CP-OFDM QPSK	1	1	18.73	0-1.5	0.0

10.4.8 NR Band n30

Table 10-72
NR Band n30 Ant A Measured P_{Limit} for DSI = 0 (Body-worn, Hotspot or Phablet) - 10 MHz Bandwidth

NR Band n30 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			462000 (2310 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	19.29	0	0.0
	1	26	19.26		0.0
	1	50	19.10		0.0
	25	0	19.19	0-1	0.0
	25	14	19.26	0	0.0
	25	27	19.25	0-1	0.0
	50	0	19.13		0.0
DFT-s-OFDM 16QAM	1	1	19.23	0-1	0.0
CP-OFDM QPSK	1	1	19.40	0-1.5	0.0

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Table 10-73
NR Band n30 Ant A Measured P_{Max} for DSI = 1 (Head) - 10 MHz Bandwidth

NR Band n30 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			462000 (2310 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	22.19	0	0.0
	1	26	22.06		0.0
	1	50	22.01		0.0
	25	0	21.25	0-1	1.0
	25	14	22.20	0	0.0
	25	27	21.23	0-1	1.0
	50	0	21.23		1.0
DFT-s-OFDM 16QAM	1	1	21.30	0-1	1.0
CP-OFDM QPSK	1	1	20.87	0-1.5	1.5

Table 10-74
NR Band n30 Ant F Measured P_{Limit} for DSI = 0 (Body-worn, Hotspot or Phablet) - 10 MHz Bandwidth

NR Band n30 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			462000 (2310 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	19.03	0	0.0
	1	26	19.20		0.0
	1	50	19.04		0.0
	25	0	19.27	0-1	0.0
	25	14	19.26	0	0.0
	25	27	19.21	0-1	0.0
	50	0	19.19		0.0
DFT-s-OFDM 16QAM	1	1	19.42	0-1	0.0
CP-OFDM QPSK	1	1	19.33	0-1.5	0.0

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Table 10-75
NR Band n30 Ant F Measured P_{Limit} for DSI = 1 (Head) - 10 MHz Bandwidth

NR Band n30 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			462000 (2310 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	16.10	0	0.0
	1	26	16.28		0.0
	1	50	16.01		0.0
	25	0	16.24	0-1	0.0
	25	14	16.41	0	0.0
	25	27	16.25	0-1	0.0
	50	0	16.25		0.0
DFT-s-OFDM 16QAM	1	1	16.49	0-1	0.0
CP-OFDM QPSK	1	1	16.08	0-1.5	0.0

10.4.9 NR Band n7

Table 10-76
NR Band n7 Ant B Measured P_{Limit} for DSI = 0 (Body-worn, Hotspot or Phablet) - 50 MHz Bandwidth

NR Band n7 50 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			507000 (2535 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	20.41	0	0.0
	1	135	20.22		0.0
	1	268	20.16		0.0
	135	0	20.35	0-1	0.0
	135	68	20.28	0	0.0
	135	135	20.13	0-1	0.0
	270	0	20.27		0.0
DFT-s-OFDM 16QAM	1	1	19.99	0-1	0.0
CP-OFDM QPSK	1	1	20.68	0-1.5	0.0

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Table 10-77
NR Band n7 Ant B Measured P_{Max} for DSI = 1 (Head) - 50 MHz Bandwidth

NR Band n7 50 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			507000 (2535 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	23.56	0	0.0
	1	135	23.22		0.0
	1	268	23.29		0.0
	135	0	22.40	0-1	1.0
	135	68	23.28	0	0.0
	135	135	22.15	0-1	1.0
	270	0	22.33		1.0
DFT-s-OFDM 16QAM	1	1	22.38	0-1	1.0
CP-OFDM QPSK	1	1	22.17	0-1.5	1.5

Table 10-78
NR Band n7 Ant F Measured P_{Limit} for DSI = 0 (Body-worn, Hotspot or Phablet) - 50 MHz Bandwidth

NR Band n7 50 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			507000 (2535 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	19.79	0	0.0
	1	135	19.57		0.0
	1	268	19.71		0.0
	135	0	19.63	0-1	0.0
	135	68	19.74	0	0.0
	135	135	19.61	0-1	0.0
	270	0	19.71		0.0
DFT-s-OFDM 16QAM	1	1	19.73	0-1	0.0
CP-OFDM QPSK	1	1	20.07	0-1.5	0.0

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Table 10-79
NR Band n7 Ant F Measured P_{Limit} for DSI = 1 (Head) - 50 MHz Bandwidth

NR Band n7 50 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			507000 (2535 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	16.31	0	0.0
	1	135	16.14		0.0
	1	268	16.21		0.0
	135	0	16.24	0-1	0.0
	135	68	16.21	0	0.0
	135	135	16.08	0-1	0.0
	270	0	16.15		0.0
DFT-s-OFDM 16QAM	1	1	16.15	0-1	0.0
CP-OFDM QPSK	1	1	16.38	0-1.5	0.0

10.4.10 NR Band n41

Table 10-80
NR Band n41 PC2 Antenna F Path 1 Measured P_{Limit} for DSI = 0 (Body-worn, Hotspot or Phablet) - 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	20.22	0	0.0
	1	137	20.27		0.0
	1	271	20.24		0.0
	135	0	20.24	0-1	0.0
	135	69	20.33	0	0.0
	135	138	20.28	0-1	0.0
	270	0	20.26		0.0
DFT-s-OFDM 16QAM	1	1	20.21	0-1	0.0
CP-OFDM QPSK	1	1	20.24	0-1.5	0.0

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Table 10-81
NR Band n41 PC2 Antenna F Path 1 Measured P_{Limit} for DSI = 1 (Head) - 100 MHz Bandwidth

NR Band n41 100 MHz Bandwidth					
			Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	518598 (2592.99 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	17.18	0	0.0
	1	137	17.33		0.0
	1	271	17.22		0.0
	135	0	17.18	0-1	0.0
	135	69	17.29	0	0.0
	135	138	17.23	0-1	0.0
	270	0	17.26		0.0
DFT-s-OFDM 16QAM	1	1	17.12	0-1	0.0
CP-OFDM QPSK	1	1	17.25	0-1.5	0.0

Table 10-82
NR Band n41 PC2 Antenna B, E, D Path 1 Measured P_{Limit} for DSI = 0 (Body-worn, Hotspot or Phablet) - 100 MHz Bandwidth

NR Band n41 100 MHz Bandwidth	
Channel	
Antenna	518598 (2592.99 MHz) Conducted Power [dBm]
SRS #2 Ant B	20.31
SRS #3 Ant E	18.63
SRS #4 Ant D	19.83

Table 10-83
NR Band n41 PC2 Antenna B, E, D Path 1 Measured P_{Limit} for DSI = 1 (Head) - 100 MHz Bandwidth

NR Band n41 100 MHz Bandwidth	
Channel	
Antenna	518598 (2592.99 MHz) Conducted Power [dBm]
SRS #2 Ant B	17.30
SRS #3 Ant E	15.60
SRS #4 Ant D	16.85

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Table 10-84
NR Band n41 PC2 Antenna B Path 2 Measured P_{Limit} for DSI = 0 (Body-worn, Hotspot or Phablet)
- 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	20.93	0	0.0
	1	137	20.96		0.0
	1	271	20.94		0.0
	135	0	20.91	0-1	0.0
	135	69	20.92	0	0.0
	135	138	20.95	0-1	0.0
	270	0	20.93		0.0
DFT-s-OFDM 16QAM	1	1	20.88	0-1	0.0
CP-OFDM QPSK	1	1	20.97	0-1.5	0.0

Table 10-85
NR Band n41 PC2 Antenna B Path 2 Measured P_{Limit} for DSI = 1 (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	21.98	0	0.0
	1	137	21.97		0.0
	1	271	22.00		0.0
	135	0	21.98	0-1	0.0
	135	69	21.93	0	0.0
	135	138	21.93	0-1	0.0
	270	0	21.94		0.0
DFT-s-OFDM 16QAM	1	1	21.91	0-1	0.0
CP-OFDM QPSK	1	1	21.98	0-1.5	0.0

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Table 10-86

NR Band n41 PC2 Antenna F & D Path 2 Measured P_{Limit} for DSI = 0 (Body-worn, Hotspot or Phablet) and NR Band n41 PC2 Antenna E Path 2 Measured P_{Limit} for DSI = 0 (Body-worn, Hotspot or Phablet) and P_{Limit} for DSI = 1 (Head)

NR Band n41 100 MHz Bandwidth	
Channel	
Antenna	518598 (2592.99 MHz)
	Conducted Power [dBm]
SRS #2 Ant F	19.96
SRS #3 Ant D	20.26
SRS #4 Ant E	18.07

Table 10-87

NR Band n41 PC2 Antenna F & D Path 2 Measured P_{Limit} for DSI = 1 (Head) - 100 MHz Bandwidth

NR Band n41 100 MHz Bandwidth	
Channel	
Antenna	518598 (2592.99 MHz)
	Conducted Power [dBm]
SRS #2 Ant F	17.03
SRS #3 Ant D	21.24

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Table 10-88
NR Band n41 PC1.5 UL-MIMO Antenna F Measured P_{Limit} for DSI = 0 (Body-worn, Hotspot or Phablet)
- 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	19.36	0	0.0
	1	137	19.55		0.0
	1	271	19.63		0.0
	135	0	19.59	0-1	0.0
	135	69	19.55	0	0.0
	135	138	19.58	0-1	0.0
	270	0	19.57		0.0
DFT-s-OFDM 16QAM	1	1	19.63	0-1	0.0
CP-OFDM QPSK	1	1	19.75	0-1.5	0.0

Table 10-89
NR Band n41 PC1.5 UL-MIMO Antenna F Measured P_{Limit} for DSI = 1 (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	16.71	0	0.0
	1	137	16.77		0.0
	1	271	16.75		0.0
	135	0	16.67	0-1	0.0
	135	69	16.61	0	0.0
	135	138	16.63	0-1	0.0
	270	0	16.60		0.0
DFT-s-OFDM 16QAM	1	1	16.65	0-1	0.0
CP-OFDM QPSK	1	1	16.68	0-1.5	0.0

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Table 10-90
NR Band n41 PC1.5 UL-MIMO Antenna B Measured P_{Limit} for DSI = 0 (Body-worn, Hotspot or Phablet)
- 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	20.42	0	0.0
	1	137	20.25		0.0
	1	271	20.30		0.0
	135	0	20.21	0-1	0.0
	135	69	20.08	0	0.0
	135	138	20.10	0-1	0.0
	270	0	20.15		0.0
DFT-s-OFDM 16QAM	1	1	20.27	0-1	0.0
CP-OFDM QPSK	1	1	20.28	0-1.5	0.0

Table 10-91
NR Band n41 PC1.5 UL-MIMO Antenna B Measured P_{Limit} for DSI = 1 (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	21.09	0	0.0
	1	137	20.90		0.0
	1	271	21.12		0.0
	135	0	20.90	0-1	0.0
	135	69	20.74	0	0.0
	135	138	20.77	0-1	0.0
	270	0	20.80		0.0
DFT-s-OFDM 16QAM	1	1	20.89	0-1	0.0
CP-OFDM QPSK	1	1	20.93	0-1.5	0.0

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10.4.11 NR Band n48

Table 10-92

NR Band n48 Ant F Measured P_{Limit} for DSI = 0 (Body-worn, Hotspot or Phablet) - 40 MHz Bandwidth

NR Band n48 40 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	638000 (3570 MHz)	641666 (3624.99 MHz)	645332 (3679.98 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM QPSK	1	1	19.87	20.35	20.34	0	0.0
	1	53	20.11	20.26	20.21		0.0
	1	104	20.29	20.27	20.37		0.0
	50	0	20.12	20.37	20.28	0-1	0.0
	50	28	20.16	20.34	20.38	0	0.0
	50	56	20.20	20.27	20.36	0-1	0.0
	100	0	20.14	20.32	20.33		0.0
DFT-s-OFDM 16QAM	1	1	19.89	20.31	20.23	0-1	0.0
CP-OFDM QPSK	1	1	19.88	20.31	20.29	0-1.5	0.0

Table 10-93

NR Band n48 Ant F Measured P_{Limit} for DSI = 1 (Head) - 40 MHz Bandwidth

NR Band n48 40 MHz Bandwidth							
			Channel			MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	638000 (3570 MHz)	641666 (3624.99 MHz)	645332 (3679.98 MHz)		
			Conducted Power [dBm]				
DFT-s-OFDM QPSK	1	1	16.35	16.81	16.79	0	0.0
	1	53	16.59	16.74	16.67		0.0
	1	104	16.75	16.68	16.84		0.0
	50	0	16.56	16.81	16.75	0-1	0.0
	50	28	16.64	16.73	16.83	0	0.0
	50	56	16.77	16.77	16.77	0-1	0.0
	100	0	16.61	16.76	16.77		0.0
DFT-s-OFDM 16QAM	1	1	16.42	16.71	16.72	0-1	0.0
CP-OFDM OPSK	1	1	16.45	16.68	16.79	0-1.5	0.0

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Table 10-94
NR Band n48 Antenna C, I, D Measured P_{Limit} for DSI = 0 (Body-worn, Hotspot or Phablet)
- 40 MHz Bandwidth

NR Band n48 40 MHz Bandwidth			
Channel			
Antenna	638000 (3570 MHz)	641666 (3624.99 MHz)	645332 (3679.98 MHz)
	Conducted Power [dBm]		
SRS #2 Ant C	15.36	15.33	15.16
SRS #3 Ant I	19.45	19.49	19.50
SRS #4 Ant D	14.98	15.07	15.16

Table 10-95
NR Band n48 Antenna C, I, D Measured P_{Limit} for DSI = 1 (Head) - 40 MHz Bandwidth

NR Band n48 40 MHz Bandwidth			
Channel			
Antenna	638000 (3570 MHz)	641666 (3624.99 MHz)	645332 (3679.98 MHz)
	Conducted Power [dBm]		
SRS #2 Ant C	11.84	11.90	11.65
SRS #3 Ant I	15.96	16.01	15.95
SRS #4 Ant D	11.46	11.61	11.62

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10.4.12 NR Band n77

Table 10-96
NR Band n77 DoD Antenna F Measured P_{Limit} for DSI = 0 (Body-worn, Hotspot or Phablet)
- 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	18.81	0	0.0
	1	137	18.58		0.0
	1	271	18.99		0.0
	135	0	18.73	0-1	0.0
	135	69	18.62	0	0.0
	135	138	19.00	0-1	0.0
	270	0	18.80		0.0
DFT-s-OFDM 16QAM	1	1	18.82	0-1	0.0
CP-OFDM QPSK	1	1	18.85	0-1.5	0.0

Table 10-97
NR Band n77 DoD Antenna F Measured P_{Limit} for DSI = 1 (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	16.88	0	0.0
	1	137	16.71		0.0
	1	271	16.99		0.0
	135	0	16.75	0-1	0.0
	135	69	16.64	0	0.0
	135	138	17.00	0-1	0.0
	270	0	16.73		0.0
DFT-s-OFDM 16QAM	1	1	16.84	0-1	0.0
CP-OFDM QPSK	1	1	16.83	0-1.5	0.0

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Table 10-98
NR Band n77 DoD Antenna C, I, D Measured P_{Limit} for DSI = 0 (Body-worn, Hotspot or Phablet)
- 100 MHz Bandwidth

NR Band n77 DoD 100 MHz Bandwidth	
Channel	
Antenna	633334 (3500.01 MHz)
	Conducted Power [dBm]
SRS #2 Ant C	17.95
SRS #3 Ant I	17.90
SRS #4 Ant D	13.65

Table 10-99
NR Band n77 DoD Antenna C, I, D Measured P_{Limit} for DSI = 1 (Head) - 100 MHz Bandwidth

NR Band n77 DoD 100 MHz Bandwidth	
Channel	
Antenna	633334 (3500.01 MHz)
	Conducted Power [dBm]
SRS #2 Ant C	21.40
SRS #3 Ant I	15.54
SRS #4 Ant D	11.19

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Table 10-100
NR Band n77 Antenna F Measured P_{Limit} for DSI = 0 (Body-worn, Hotspot or Phablet)
- 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	18.49	18.94	0	0.0
	1	137	18.43	18.72		0.0
	1	271	18.51	18.93		0.0
	135	0	18.56	18.82	0-1	0.0
	135	69	18.48	18.78	0	0.0
	135	138	18.44	18.90	0-1	0.0
	270	0	18.46	18.85		0.0
DFT-s-OFDM 16QAM	1	1	18.38	18.83	0-1	0.0
CP-OFDM QPSK	1	1	18.49	18.86	0-1.5	0.0

Table 10-101
NR Band n77 Antenna F Measured P_{Limit} for DSI = 1 (Head) - 100 MHz Bandwidth

NR Band n77 100 MHz Bandwidth						
			Channel		MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	650000 (3750 MHz)	662000 (3930 MHz)		
			Conducted Power [dBm]			
DFT-s-OFDM QPSK	1	1	16.46	16.94	0	0.0
	1	137	16.41	16.67		0.0
	1	271	16.52	16.79		0.0
	135	0	16.47	16.73	0-1	0.0
	135	69	16.37	16.73	0	0.0
	135	138	16.30	16.84	0-1	0.0
	270	0	16.37	16.73		0.0
DFT-s-OFDM 16QAM	1	1	16.51	16.83	0-1	0.0
CP-OFDM QPSK	1	1	16.46	16.81	0-1.5	0.0

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Table 10-102
NR Band n77 Antenna C, I, D Measured P_{Limit} for DSI = 0 (Body-worn, Hotspot or Phablet)
- 100 MHz Bandwidth

NR Band n77 100 MHz Bandwidth		
Channel		
Antenna	650000 (3750 MHz)	662000 (3930 MHz)
	Conducted Power [dBm]	
SRS #2 Ant C	16.71	17.00
SRS #3 Ant I	17.70	18.87
SRS #4 Ant D	12.91	13.40

Table 10-103
NR Band n77 Antenna C, I, D Measured P_{Limit} for DSI = 1 (Head) - 100 MHz Bandwidth

NR Band n77 100 MHz Bandwidth		
Channel		
Antenna	650000 (3750 MHz)	662000 (3930 MHz)
	Conducted Power [dBm]	
SRS #2 Ant C	20.05	20.55
SRS #3 Ant I	15.11	16.27
SRS #4 Ant D	10.34	10.85

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Table 10-104
NR Band n77 PC1.5 UL-MIMO Antenna F Measured P_{Limit} for DSI = 0 (Body-worn, Hotspot or Phablet)
- 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	17.86	18.30	0	0.0
	1	137	17.51	18.13		0.0
	1	271	17.66	18.15		0.0
	135	0	17.90	18.23	0-1	0.0
	135	69	17.61	18.14	0	0.0
	135	138	17.61	18.16	0-1	0.0
	270	0	17.75	18.20		0.0
DFT-s-OFDM 16QAM	1	1	17.87	18.23	0-1	0.0
CP-OFDM QPSK	1	1	17.97	18.32	0-1.5	0.0

Table 10-105
NR Band n77 PC1.5 UL-MIMO Antenna F Measured P_{Limit} for DSI = 1 (Head) - 100 MHz Bandwidth

NR Band n77 100 MHz Bandwidth						
			Channel		MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	650000 (3750 MHz)	662000 (3930 MHz)		
			Conducted Power [dBm]			
DFT-s-OFDM QPSK	1	1	16.06	16.23	0	0.0
	1	137	15.69	16.05		0.0
	1	271	15.78	16.06		0.0
	135	0	15.96	16.13	0-1	0.0
	135	69	15.69	16.06	0	0.0
	135	138	15.71	16.16	0-1	0.0
	270	0	15.79	16.14		0.0
DFT-s-OFDM 16QAM	1	1	16.09	16.23	0-1	0.0
CP-OFDM QPSK	1	1	16.06	16.30	0-1.5	0.0

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Table 10-106
NR Band n77 PC1.5 UL-MIMO Antenna C Measured P_{Limit} for DSI = 0 (Body-worn, Hotspot or Phablet)
- 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	17.20	17.52	0	0.0
	1	137	16.95	17.55		0.0
	1	271	17.05	17.67		0.0
	135	0	17.05	17.75	0-1	0.0
	135	69	17.12	17.71	0	0.0
	135	138	17.25	17.85	0-1	0.0
	270	0	17.07	17.65		0.0
DFT-s-OFDM 16QAM	1	1	17.15	17.50	0-1	0.0
CP-OFDM QPSK	1	1	17.25	17.80	0-1.5	0.0

Table 10-107
NR Band n77 PC1.5 UL-MIMO Antenna C Measured P_{Limit} for DSI = 1 (Head) - 100 MHz Bandwidth

NR Band n77 100 MHz Bandwidth						
			Channel		MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	650000 (3750 MHz)	662000 (3930 MHz)		
			Conducted Power [dBm]			
DFT-s-OFDM QPSK	1	1	21.11	21.21	0	0.0
	1	137	20.79	21.21		0.0
	1	271	20.96	21.27		0.0
	135	0	21.08	21.26	0-1	0.0
	135	69	20.88	21.31	0	0.0
	135	138	20.84	21.33	0-1	0.0
	270	0	20.94	21.25		0.0
DFT-s-OFDM 16QAM	1	1	21.06	21.27	0-1	0.0
CP-OFDM QPSK	1	1	21.13	21.52	0-1.5	0.0

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Figure 10-4
Power Measurement Setup – NR FDD

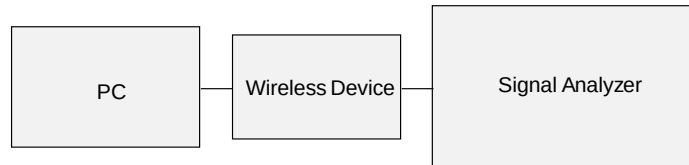


Figure 10-5
Power Measurement Setup – NR TDD

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10.5 NTN Band 255 Conducted Powers

Table 10-108
NTN Band b255 Antenna F Measured P_{Max} for DSI = 0 (Body-worn and Phablet) - 20 MHz Bandwidth

Rx Channel	Tx Channel	Frequency	# Tones	Tone Start	BPSK	QPSK
228737	261505	1626.6	1	0	22.34	22.45
			1	5	22.56	22.76
			1	11	22.07	22.05
			3	0	22.02	21.49
			3	3	22.28	21.52
			3	6	22.04	21.48
			6	0	22.25	21.43
			6	6	22.22	21.38
			12	0	22.19	21.44
228906	261674	1643.5	1	0	22.06	22.01
			1	5	22.53	22.53
			1	11	22	22.03
			3	0	22.01	21.99
			3	3	22.19	22.08
			3	6	22	21.98
			6	0	22.14	21.94
			6	6	22.16	22.06
			12	0	22.16	22.11
229075	261843	1660.4	1	0	22.03	22.03
			1	5	22.53	22.49
			1	11	22.11	22.02
			3	0	22.15	20.78
			3	3	22.05	20.80
			3	6	22.12	20.75
			6	0	22.19	20.76
			6	6	22.27	20.78
			12	0	22.11	20.74

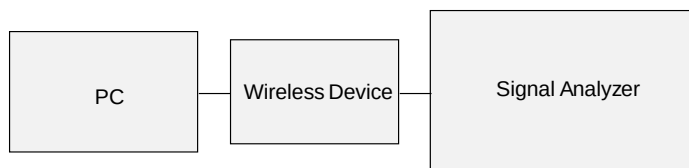


Figure 10-6
Power Measurement Setup – NTN

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10.6 WLAN Conducted Powers

Table 10-109
2.4 GHz WLAN Measured P_{Limit} Average RF Power for DSI = 1 (Head) – Ant H

2.4GHz WIFI (20MHz 802.11b SISO ANT H)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	16.88
2437	6		16.43
2462	11		16.80
2.4GHz WIFI (20MHz 802.11g SISO ANT H)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	16.57
2437	6		16.82
2462	11		16.79
2.4GHz WIFI (20MHz 802.11n SISO ANTH)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	16.62
2437	6		16.54
2462	11		16.79
2.4GHz WIFI (20MHz 802.11ac SISO ANTH)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	16.52
2437	6		16.76
2462	11		16.71

2.4GHz WIFI (20MHz 802.11ax SISO ANTH)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	16.75
2437	6		16.55
2462	11		16.97
2.4GHz WIFI (20MHz 802.11be SISO ANTH)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	16.83
2437	6		16.58
2462	11		16.29

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Table 10-110
2.4 GHz WLAN Measured P_{Limit} Average RF Power for DSI = 1 (Head) – Ant J

2.4GHz WIFI (20MHz 802.11b SISO ANT J)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	16.82
2437	6		16.33
2462	11		16.62
2.4GHz WIFI (20MHz 802.11g SISO ANTJ)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	16.75
2437	6		16.82
2462	11		16.70
2.4GHz WIFI (20MHz 802.11n SISO ANTJ)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	16.73
2437	6		16.73
2462	11		16.62
2.4GHz WIFI (20MHz 802.11ac SISO ANTJ)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	16.83
2437	6		16.67
2462	11		16.67
2.4GHz WIFI (20MHz 802.11ax SISO ANTJ)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	16.79
2437	6		16.83
2462	11		16.65
2.4GHz WIFI (20MHz 802.11be SISO ANTJ)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	16.77
2437	6		16.78
2462	11		16.64

Table 10-111
2.4 GHz WLAN Measured P_{Limit} Average RF Power for DSI = 1 (Head) – MIMO

2.4GHz WIFI (20MHz 802.11g MIMO)					
Freq [MHz]	Channel	Detector	Conducted Power [dBm]		
			ANT1	ANT2	MIMO
2412	1	Average	16.47	16.21	19.35
2437	6		16.12	15.93	19.03
2462	11		16.51	16.01	19.28

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Table 10-112

2.4 GHz WLAN Measured P_{Limit} Average RF Power for DSI = 0 (Body-worn, Hotspot or Phablet) – Ant H

2.4GHz WIFI (20MHz 802.11b SISO ANT H)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	19.73
2437	6		19.51
2462	11		19.97
2.4GHz WIFI (20MHz 802.11g SISO ANT H)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	17.54
2437	6		17.42
2462	11		17.40
2.4GHz WIFI (20MHz 802.11n SISO ANT H)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	17.65
2437	6		17.53
2462	11		17.43
2.4GHz WIFI (20MHz 802.11ac SISO ANT H)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	17.09
2437	6		17.53
2462	11		17.43
2.4GHz WIFI (20MHz 802.11ax SISO ANT H)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	17.49
2437	6		17.41
2462	11		17.90
2.4GHz WIFI (20MHz 802.11be SISO ANT H)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	17.52
2437	6		17.40
2462	11		17.36

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Table 10-113

2.4 GHz WLAN Measured P_{Limit} Average RF Power for DSI = 0 (Body-worn, Hotspot or Phablet) – Ant J

2.4GHz WIFI (20MHz 802.11b SISO ANT J)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	19.55
2437	6		19.45
2462	11		19.53
2.4GHz WIFI (20MHz 802.11g SISO ANT J)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	17.35
2437	6		17.46
2462	11		17.08
2.4GHz WIFI (20MHz 802.11n SISO ANT J)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	17.48
2437	6		17.48
2462	11		17.04
2.4GHz WIFI (20MHz 802.11ac SISO ANT J)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	17.40
2437	6		17.55
2462	11		17.05
2.4GHz WIFI (20MHz 802.11ax SISO ANT J)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	17.36
2437	6		17.34
2462	11		17.46
2.4GHz WIFI (20MHz 802.11be SISO ANT J)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	17.33
2437	6		17.33
2462	11		17.43

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Table 10-114
2.4 GHz WLAN Measured P_{Limit} Average RF Power for DSI = 0 (Body-worn, Hotspot or Phablet) – MIMO

2.4GHz WIFI (20MHz 802.11g MIMO)					
Freq [MHz]	Channel	Detector	Conducted Power [dBm]		
			ANT1	ANT2	MIMO
2412	1	Average	17.96	17.77	20.88
2437	6		17.51	17.73	20.63
2462	11		17.74	17.82	20.79

Table 10-115
5 GHz WLAN Measured P_{Limit} Average RF Power for DSI = 0 (Body-worn, Hotspot or Phablet), DSI = 1 (Head) – Ant H

5GHz WIFI (80MHz 802.11ac SISO ANT H)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	15.53
UNII-2A	5290	58	15.95
UNII-2C	5530	106	13.87
	5610	122	16.00
	5690	138	15.59
UNII-3	5775	155	15.66
UNII-4	5885	171	15.89
5GHz WIFI (80MHz 802.11ax SISO ANTH)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	14.51
UNII-2A	5290	58	14.48
UNII-2C	5530	106	12.51
	5610	122	15.78
	5690	138	15.93
UNII-3	5775	155	15.96
UNII-4	5885	171	15.67
5GHz WIFI (80MHz 802.11be SISO ANTH)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	14.53
UNII-2A	5290	58	14.89
UNII-2C	5530	106	12.53
	5610	122	15.86
	5690	138	15.97
UNII-3	5775	155	15.45
UNII-4	5885	171	15.67

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Table 10-116
5 GHz WLAN Measured P_{Limit} Average RF Power for DSI = 0 (Body-worn, Hotspot or Phablet), DSI = 1 (Head) – Ant E

5GHz WIFI (80MHz 802.11ac SISO ANT E)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	15.79
UNII-2A	5290	58	15.60
UNII-2C	5530	106	14.09
	5610	122	15.65
	5690	138	15.96
UNII-3	5775	155	15.69
UNII-4	5885	171	15.97
5GHz WIFI (80MHz 802.11ax SISO ANTE)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	15.10
UNII-2A	5290	58	15.07
UNII-2C	5530	106	13.20
	5610	122	15.75
	5690	138	15.82
UNII-3	5775	155	15.77
UNII-4	5885	171	15.94
5GHz WIFI (80MHz 802.11be SISO ANTE)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	15.09
UNII-2A	5290	58	15.10
UNII-2C	5530	106	13.25
	5610	122	15.81
	5690	138	15.81
UNII-3	5775	155	15.81
UNII-4	5885	171	15.98

Table 10-117
5 GHz WLAN Measured P_{Limit} Average RF Power for DSI = 0 (Body-worn, Hotspot or Phablet), DSI = 1 (Head) – MIMO

5GHz WIFI (80MHz 802.11ac MIMO)					
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]		
			ANT1	ANT2	MIMO
UNII-1	5210	42	15.56	15.52	18.55
UNII-2A	5290	58	15.98	15.45	18.73
UNII-2C	5530	106	13.70	14.32	17.03
	5610	122	15.99	15.99	19.00
	5690	138	15.60	15.73	18.68
UNII-3	5775	155	15.20	15.61	18.42
UNII-4	5885	171	15.38	15.87	18.64

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Table 10-118
6 GHz WLAN Measured P_{Limit} Average RF Power for DSI = 0 (Body-worn or Phablet) – Ant H

6GHz WIFI (160MHz 802.11ax SISO ANT H)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	6025	15	8.81
	6345	79	8.73
UNII-6	6505	111	8.88
UNII-7	6825	175	8.83
UNII-8	6985	207	8.89
6GHz WIFI (160MHz 802.11be SISO ANT H)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	6025	15	8.43
	6345	79	8.31
UNII-6	6505	111	8.37
UNII-7	6825	175	8.66
UNII-8	6985	207	8.51

Table 10-119
6 GHz WLAN Measured P_{Limit} Average RF Power for DSI = 0 (Body-worn or Phablet) – Ant E

6GHz WIFI (160MHz 802.11ax SISO ANT E)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	6025	15	8.93
	6345	79	8.51
UNII-6	6505	111	8.90
UNII-7	6825	175	8.91
UNII-8	6985	207	8.68
6GHz WIFI (160MHz 802.11be SISO ANT E)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	6025	15	8.79
	6185	47	9.26
	6345	79	9.07
UNII-6	6505	111	9.65
UNII-7	6665	143	9.11
	6825	175	9.72
UNII-8	6985	207	9.96

Table 10-120
6 GHz WLAN Measured P_{Limit} Average RF Power for DSI = 0 (Body-worn or Phablet) – MIMO

6GHz WIFI (160MHz 802.11ax MIMO)					
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]		
			ANT1	ANT2	MIMO
UNII-5	6025	15	8.70	8.56	11.64
	6345	79	8.60	8.59	11.61
UNII-6	6505	111	8.49	8.72	11.62
UNII-7	6825	175	8.02	8.98	11.54
UNII-8	6985	207	8.29	8.81	11.57

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Table 10-121

6 GHz WLAN Measured P_{max} Average RF Power for DSI = 1 (Head) – Ant H

6GHz WIFI (40MHz 802.11ax SISO ANT H)				6GHz WIFI (80MHz 802.11ax SISO ANT H)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]	Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	5965	3	16.99	UNII-6	6465	103	15.89
	6285	67	16.54		7025	215	15.24
UNII-7	6685	147	16.92	6GHz WIFI (80MHz 802.11be SISO ANT H)			
6GHz WIFI (40MHz 802.11be SISO ANT H)				Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]	UNII-6	6465	103	15.66
UNII-5	5965	3	16.56		7025	215	15.26
	6285	67	16.93				
UNII-7	6685	147	16.71				

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Table 10-122

6 GHz WLAN Measured P_{max} Average RF Power for DSI = 1 (Head) – Ant E

6GHz WIFI (40MHz 802.11ax SISO ANT E)				6GHz WIFI (80MHz 802.11ax SISO ANT E)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]	Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	5965	3	16.99	UNII-6	6465	103	15.50
	6285	67	16.98		7025	215	15.00
UNII-7	6685	147	16.89	6GHz WIFI (80MHz 802.11be SISO ANT E)			
6GHz WIFI (40MHz 802.11be SISO ANT E)				Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]	UNII-6	6465	103	15.47
UNII-5	5965	3	16.69		7025	215	15.08
	6285	67	16.83				
UNII-7	6685	147	16.65				

Table 10-123

6 GHz WLAN Measured P_{max} Average RF Power for DSI = 1 (Head) – MIMO

6GHz WIFI (40MHz 802.11ax MIMO)					
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]		
			ANT1	ANT2	MIMO
UNII-5	5965	3	16.86	16.65	19.77
	6285	67	16.59	15.95	19.29
UNII-7	6685	147	16.90	16.60	19.76
6GHz WIFI (80MHz 802.11ax MIMO)					
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]		
			ANT1	ANT2	MIMO
UNII-6	6465	103	15.41	15.79	18.61
UNII-8	7025	215	14.84	15.20	18.03

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.

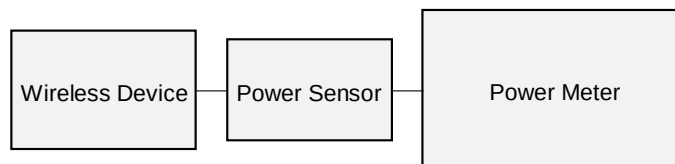


Figure 10-7
Power Measurement Setup

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10.7 Bluetooth Conducted Powers

Table 10-124
Bluetooth Measured P_{max} Average RF Power for all DSI – Ant H

Frequency [MHz]	Data Rate [Mbps]	Mod.	Power Scheme	Channel No.	Avg Conducted Power	
					[dBm]	[mW]
2402	1.0	GFSK	ePA	0	17.10	51.227
2441	1.0	GFSK	ePA	39	18.64	73.182
2480	1.0	GFSK	ePA	78	17.75	59.574
2402	2.0	$\pi/4$ -DQPSK	ePA	0	13.79	23.920
2441	2.0	$\pi/4$ -DQPSK	ePA	39	15.71	37.238
2480	2.0	$\pi/4$ -DQPSK	ePA	78	14.88	30.780
2402	3.0	8DPSK	ePA	0	14.25	26.620
2441	3.0	8DPSK	ePA	39	15.83	38.255
2480	3.0	8DPSK	ePA	78	14.71	29.592

Table 10-125
Bluetooth Measured P_{max} Average RF Power for all DSI – Ant J

Frequency [MHz]	Data Rate [Mbps]	Mod.	Power Scheme	Channel No.	Avg Conducted Power	
					[dBm]	[mW]
2402	1.0	GFSK	ePA	0	18.09	64.408
2441	1.0	GFSK	ePA	39	18.68	73.723
2480	1.0	GFSK	ePA	78	17.74	59.425
2402	2.0	$\pi/4$ -DQPSK	ePA	0	15.06	32.055
2441	2.0	$\pi/4$ -DQPSK	ePA	39	15.58	36.126
2480	2.0	$\pi/4$ -DQPSK	ePA	78	14.46	27.954
2402	3.0	8DPSK	ePA	0	15.14	32.695
2441	3.0	8DPSK	ePA	39	15.55	35.917
2480	3.0	8DPSK	ePA	78	14.54	28.467

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Table 10-126
Bluetooth Measured P_{max} Average RF Power for all DSI – MIMO

Frequency [MHz]	Data Rate [Mbps]	Mod.	Power Scheme	Channel No.	ANT1 Avg Conducted Power		ANT1 Target [dBm]	ANT2 Avg Conducted Power		ANT2 Target [dBm]	Dual Avg Conducted Power	
					[dBm]	[mW]		[dBm]	[mW]		[dBm]	[mW]
2402	1.0	GFSK	iPA	0	13.82	24.099	14.500	13.64	23.121	14.500	16.74	47.220
2441	1.0	GFSK	iPA	39	15.14	32.659	14.500	15.39	34.594	14.500	18.28	67.253
2480	1.0	GFSK	iPA	78	14.77	29.992	14.500	14.82	30.339	14.500	17.81	60.331
2402	2.0	$\pi/4$ -DQPSK	iPA	0	11.21	13.213	11.500	11.49	14.093	11.500	14.36	27.306
2441	2.0	$\pi/4$ -DQPSK	iPA	39	12.35	17.179	11.500	12.37	17.258	11.500	15.37	34.437
2480	2.0	$\pi/4$ -DQPSK	iPA	78	11.48	14.060	11.500	11.53	14.223	11.500	14.52	28.284
2402	3.0	8DPSK	iPA	0	11.28	13.428	11.500	11.31	13.521	11.500	14.31	26.948
2441	3.0	8DPSK	iPA	39	12.42	17.458	11.500	12.41	17.418	11.500	15.43	34.876
2480	3.0	8DPSK	iPA	78	11.82	15.205	11.500	11.55	14.289	11.500	14.70	29.494

Table 10-127
Bluetooth LE Measured P_{max} Average RF Power for all DSI – Ant H

Frequency [MHz]	Data Rate [Mbps]	Channel No.	Bluetooth Mode	Peak Conducted Power	
				[dBm]	[mW]
2402	125 kbps	0	LE	11.28	13.428
2440	125 kbps	19	LE	12.60	18.197
2480	125 kbps	39	LE	11.73	14.894
2402	500 kbps	0	LE	11.32	13.552
2440	500 kbps	19	LE	12.63	18.323
2480	500 kbps	39	LE	11.79	15.101
2402	1 Mbps	0	LE	19.25	84.140
2440	1 Mbps	19	LE	19.94	98.628
2480	1 Mbps	39	LE	19.16	82.414
2402	2 Mbps	0	LE	19.19	82.985
2440	2 Mbps	19	LE	20.08	101.859
2480	2 Mbps	39	LE	19.42	87.498

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Table 10-128
Bluetooth LE Measured P_{max} Average RF Power for all DSI – Ant J

Frequency [MHz]	Data Rate [Mbps]	Channel No.	Bluetooth Mode	Peak Conducted Power	
				[dBm]	[mW]
2402	125 kbps	0	LE	9.75	9.441
2440	125 kbps	19	LE	10.34	10.814
2480	125 kbps	39	LE	9.67	9.268
2402	500 kbps	0	LE	9.88	9.727
2440	500 kbps	19	LE	10.37	10.889
2480	500 kbps	39	LE	9.72	9.376
2402	1 Mbps	0	LE	18.77	75.336
2440	1 Mbps	19	LE	19.37	86.497
2480	1 Mbps	39	LE	18.32	67.920
2402	2 Mbps	0	LE	18.66	73.451
2440	2 Mbps	19	LE	19.27	84.528
2480	2 Mbps	39	LE	18.47	70.307

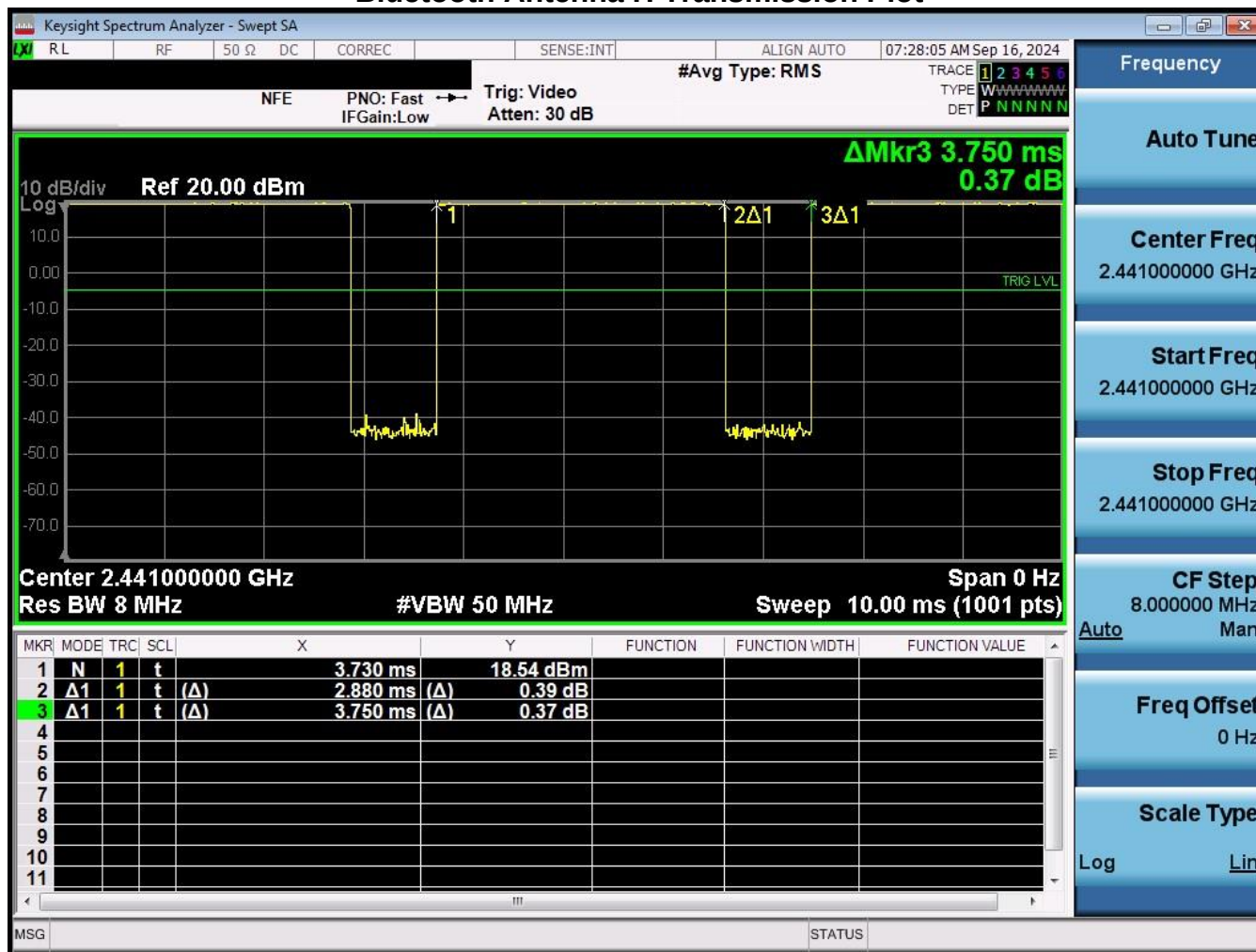
Table 10-129
Bluetooth LE Measured P_{max} Average RF Power for all DSI – MIMO

Frequency [MHz]	Data Rate [Mbps]	Mod.	Power Scheme	Channel No.	Bluetooth Mode	ANT1 Peak Conducted Power		ANT2 Peak Conducted Power		Dual Peak Conducted Power	
						[dBm]	[mW]	[dBm]	[mW]	[dBm]	[mW]
2402	1 Mbps	GFSK	ePA	0	LE	14.35	27.227	13.72	23.550	17.06	50.778
2440	1 Mbps	GFSK	ePA	19	LE	15.44	34.995	13.92	24.660	17.76	59.655
2480	1 Mbps	GFSK	ePA	39	LE	15.39	34.594	13.61	22.961	17.60	57.555
2402	2 Mbps	GFSK	iPA	0	LE	14.46	27.925	13.99	25.061	17.24	52.987
2440	2 Mbps	GFSK	iPA	19	LE	15.43	34.914	14.09	25.645	17.82	60.559
2480	2 Mbps	GFSK	iPA	39	LE	15.48	35.318	14.00	25.119	17.81	60.437

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Figure 10-8
Bluetooth Antenna H Transmission Plot



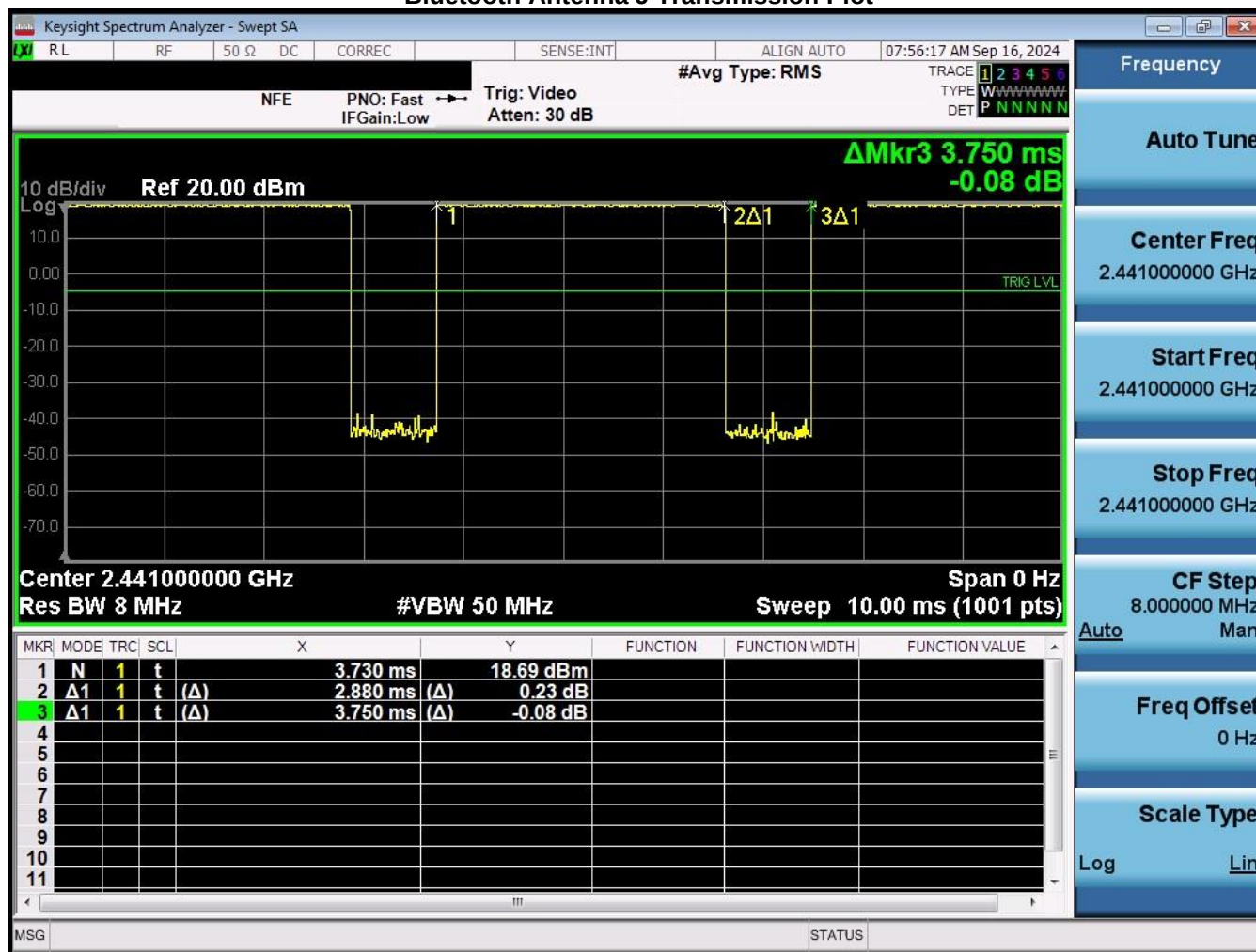
Equation 10-1
Bluetooth Antenna H Duty Cycle Calculation

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

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Figure 10-9
Bluetooth Antenna J Transmission Plot



Equation 10-2

Bluetooth Antenna J Duty Cycle Calculation

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

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Figure 10-10
Bluetooth MIMO Transmission Plot



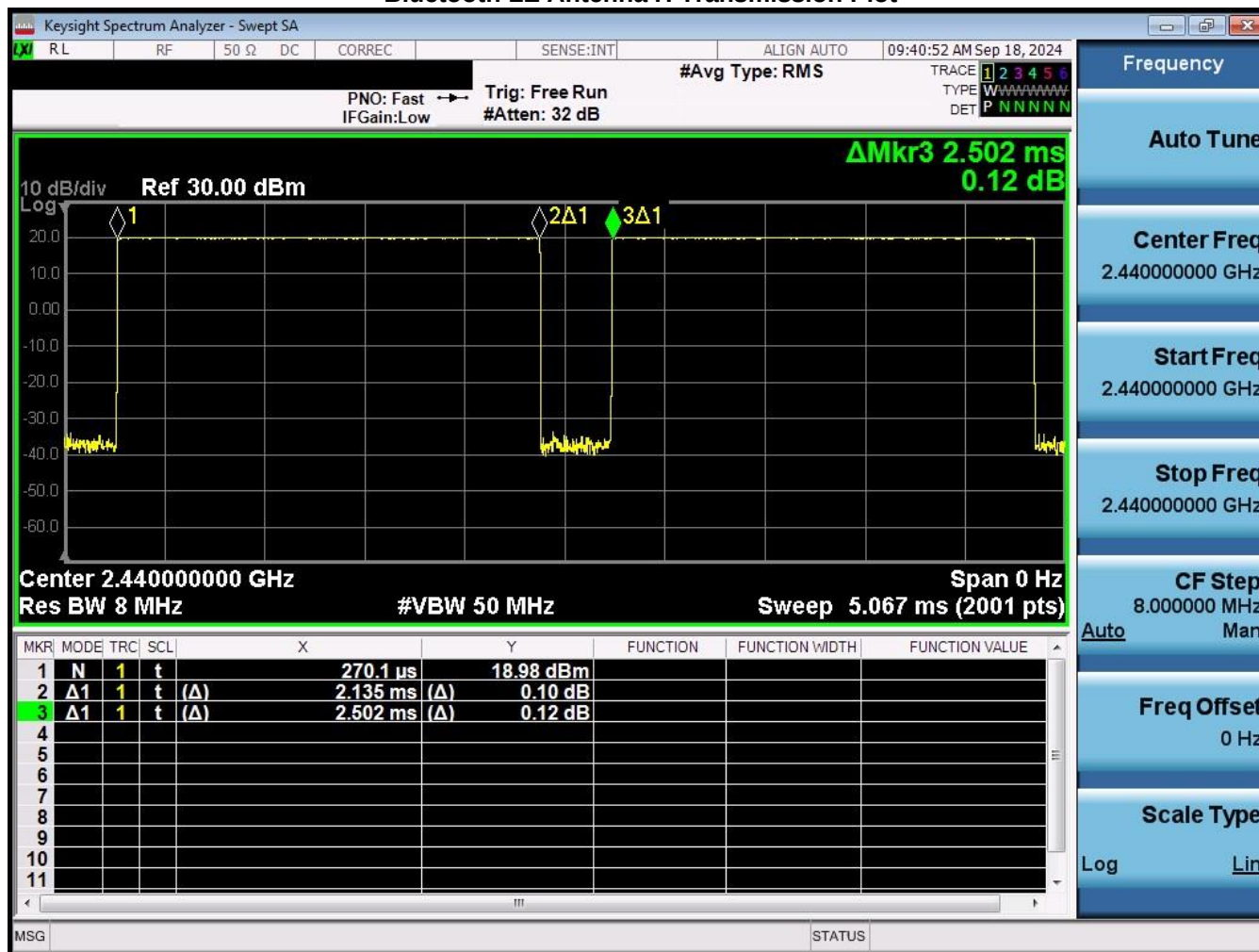
Equation 10-3
Bluetooth MIMO Duty Cycle Calculation

$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.890\text{ms}}{3.750\text{ms}} * 100\% = 77.07\%$$

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Figure 10-11
Bluetooth LE Antenna H Transmission Plot



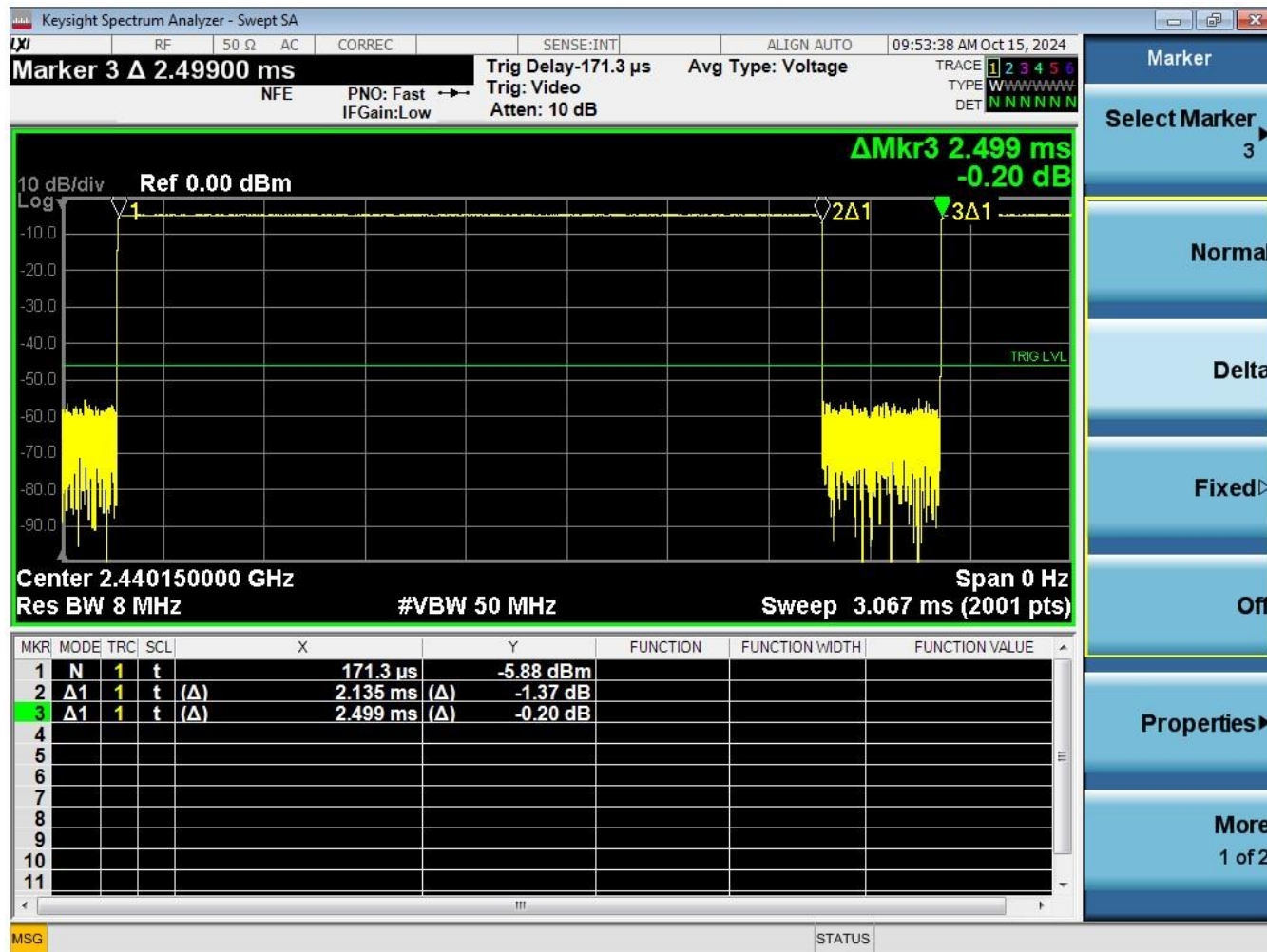
Equation 10-4
Bluetooth LE Antenna H Duty Cycle Calculation

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.135ms}{2.502ms} * 100\% = 85.33\%$$

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Figure 10-12
Bluetooth LE Antenna J Transmission Plot

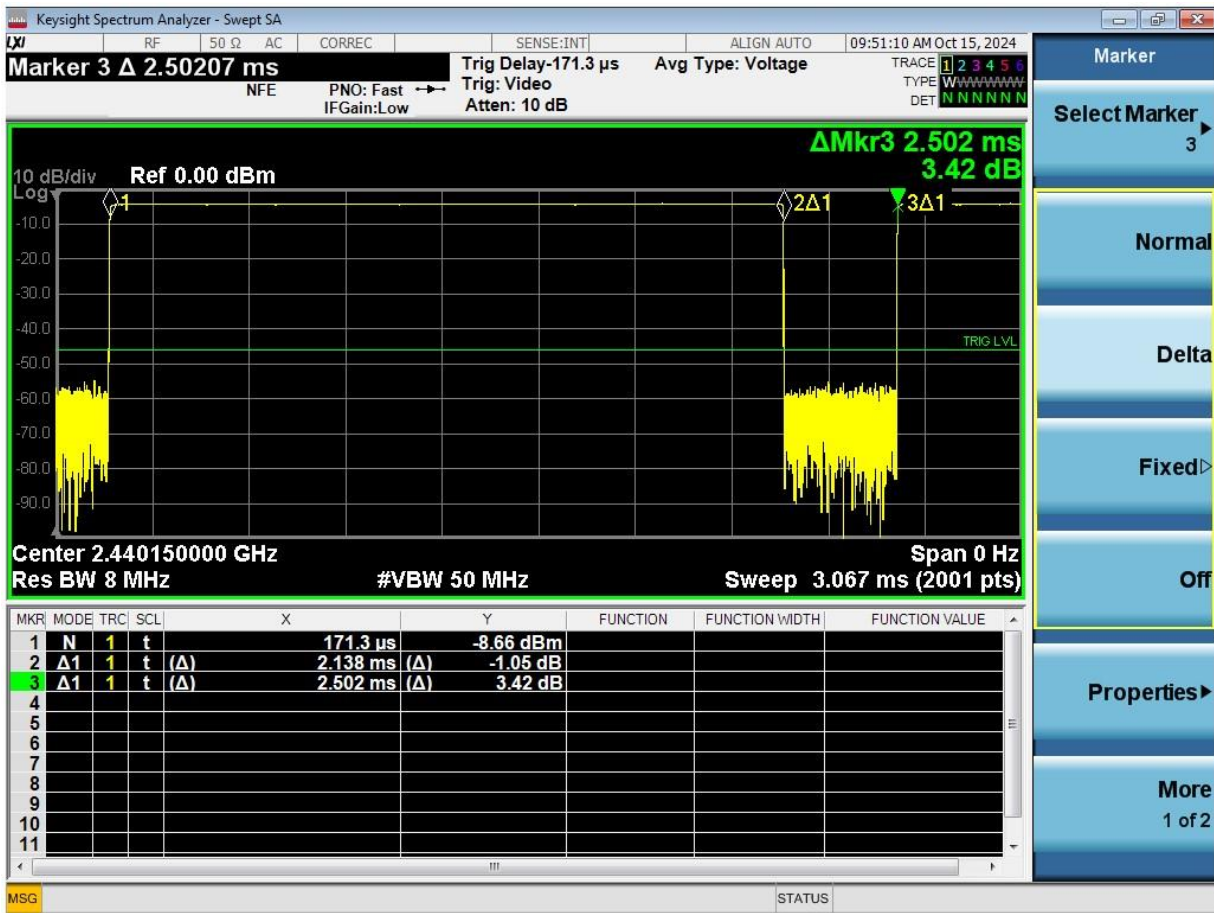


Equation 10-5
Bluetooth LE Antenna J Duty Cycle Calculation

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.135ms}{2.499ms} * 100\% = 85.43\%$$

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Figure 10-13
Bluetooth LE MIMO Transmission Plot



Equation 10-6
Bluetooth LE MIMO Duty Cycle Calculation

$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.138\text{ms}}{2.502\text{ms}} * 100\% = 85.45\%$$

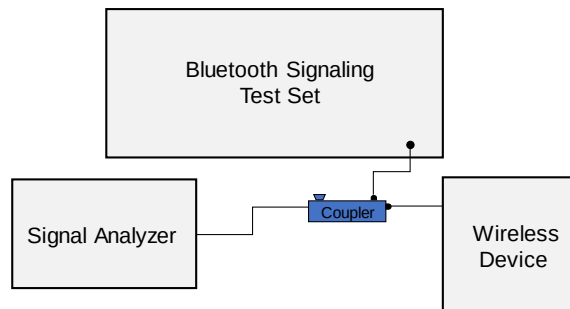


Figure 10-14
Power Measurement Setup

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11 SYSTEM VERIFICATION

11.1 Tissue Verification

Table 11-1
Measured Head Tissue Properties

Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ϵ	% dev σ	% dev ϵ
10/02/2024	30 Head	24.8	4	0.716	57.318	0.750	55.000	-4.53%	4.21%
			6	0.716	55.954	0.750	55.000	-4.53%	1.73%
			12	0.717	53.496	0.750	55.000	-4.40%	-2.79%
			13	0.717	53.354	0.750	55.000	-4.40%	-2.99%
			14	0.717	53.297	0.750	55.000	-4.40%	-3.10%
			30	0.719	52.625	0.750	55.000	-4.13%	-4.32%
			60	0.722	52.049	0.753	54.325	-4.12%	-4.19%
			65	0.723	51.921	0.753	54.213	-3.98%	-4.23%
			150	0.751	50.187	0.760	52.300	-1.18%	-4.04%
			680	0.876	40.503	0.888	42.305	-1.35%	-4.26%
09/18/2024	750 Head	21.6	695	0.882	40.469	0.889	42.227	-0.79%	-4.16%
			700	0.883	40.456	0.889	42.201	-0.67%	-4.13%
			710	0.887	40.430	0.890	42.149	-0.34%	-4.08%
			725	0.892	40.383	0.891	42.071	0.11%	-4.01%
			750	0.900	40.305	0.894	41.942	0.67%	-3.90%
			770	0.907	40.255	0.895	41.838	1.34%	-3.78%
			785	0.912	40.222	0.896	41.760	1.79%	-3.68%
			800	0.917	40.184	0.897	41.682	2.23%	-3.59%
			680	0.876	41.388	0.888	42.305	-1.35%	-2.17%
			695	0.881	41.322	0.889	42.227	-0.90%	-2.14%
09/22/2024	750 Head	22.3	710	0.886	41.294	0.890	42.149	-0.45%	-2.10%
			725	0.892	41.214	0.891	42.071	0.11%	-2.04%
			750	0.901	41.163	0.894	41.942	0.78%	-1.86%
			770	0.908	41.116	0.895	41.838	1.45%	-1.73%
			785	0.913	41.057	0.896	41.760	1.90%	-1.68%
			800	0.918	40.986	0.897	41.682	2.34%	-1.67%
			680	0.870	42.019	0.888	42.305	-2.03%	-0.68%
			695	0.875	41.972	0.889	42.227	-1.57%	-0.60%
			700	0.877	41.959	0.889	42.201	-1.35%	-0.57%
			710	0.880	41.929	0.890	42.149	-1.12%	-0.52%
09/23/2024	750 Head	20.6	725	0.886	41.883	0.891	42.071	-0.56%	-0.45%
			750	0.895	41.804	0.894	41.942	0.11%	-0.33%
			770	0.903	41.746	0.895	41.838	0.89%	-0.22%
			785	0.908	41.702	0.896	41.760	1.34%	-0.14%
			800	0.914	41.653	0.897	41.682	1.90%	-0.07%
			680	0.852	43.772	0.888	42.305	-4.05%	3.47%
			695	0.865	43.572	0.889	42.227	-2.70%	3.19%
			700	0.870	43.507	0.889	42.201	-2.14%	3.09%
			710	0.879	43.379	0.890	42.149	-1.24%	2.92%
			725	0.892	43.177	0.891	42.071	0.11%	2.63%
10/02/2024	750 Head	24.7	750	0.915	42.856	0.894	41.942	2.35%	2.18%
			770	0.933	42.612	0.895	41.838	4.25%	1.85%
			680	0.882	41.072	0.888	42.305	-0.68%	-2.91%
			695	0.887	41.028	0.889	42.227	-0.22%	-2.84%
			710	0.892	40.982	0.890	42.149	0.22%	-2.77%
			725	0.897	40.934	0.891	42.071	0.67%	-2.70%
			750	0.905	40.858	0.894	41.942	1.34%	-2.58%
			770	0.912	40.794	0.895	41.838	1.90%	-2.50%
			785	0.917	40.743	0.896	41.760	2.34%	-2.44%
			800	0.922	40.700	0.897	41.682	2.79%	-2.36%
10/07/2024	750 Head	22.8	680	0.880	40.216	0.888	42.305	-0.86%	-4.94%
			695	0.885	40.163	0.889	42.227	-0.44%	-4.89%
			700	0.887	40.143	0.889	42.201	-0.26%	-4.88%
			710	0.890	40.104	0.890	42.149	0.03%	-4.85%
			725	0.896	40.050	0.891	42.071	0.54%	-4.80%
			750	0.905	39.974	0.894	41.942	1.22%	-4.69%
			770	0.912	39.911	0.895	41.838	1.90%	-4.61%
			785	0.917	39.856	0.896	41.760	2.35%	-4.56%
			800	0.922	39.798	0.897	41.682	2.81%	-4.52%
			680	0.855	40.863	0.888	42.305	-3.72%	-3.41%
09/25/2024	750 Head	22.1	695	0.860	40.814	0.889	42.227	-3.26%	-3.35%
			710	0.866	40.752	0.890	42.149	-2.70%	-3.31%
			725	0.871	40.705	0.891	42.071	-2.24%	-3.25%
			750	0.879	40.636	0.894	41.942	-1.68%	-3.11%
			770	0.887	40.578	0.895	41.838	-0.89%	-3.01%
			785	0.892	40.529	0.896	41.760	-0.45%	-2.95%
			800	0.898	40.480	0.897	41.682	0.11%	-2.91%
			815	0.924	40.144	0.898	41.594	2.90%	-3.49%
			820	0.926	40.129	0.899	41.578	3.00%	-3.49%
			835	0.931	40.085	0.900	41.500	3.44%	-3.41%
10/24/2024	750 Head	19.0	850	0.936	40.037	0.916	41.500	2.18%	-3.53%
			815	0.911	41.774	0.898	41.594	1.45%	0.43%
			820	0.913	41.757	0.899	41.578	1.56%	0.43%
			835	0.918	41.718	0.900	41.500	2.00%	0.53%
			850	0.923	41.668	0.916	41.500	0.76%	0.40%
			815	0.924	40.919	0.898	41.594	2.90%	-1.62%
			820	0.926	40.902	0.899	41.578	3.00%	-1.63%
			835	0.932	40.862	0.900	41.500	3.56%	-1.54%
			850	0.939	40.835	0.916	41.500	2.51%	-1.60%
			815	0.919	41.593	0.898	41.594	2.34%	0.00%
09/18/2024	835 Head	21.6	820	0.921	41.571	0.899	41.578	2.45%	-0.02%
			835	0.927	41.508	0.900	41.500	3.00%	0.02%
			850	0.933	41.461	0.916	41.500	1.86%	-0.09%
			815	0.871	42.808	0.898	41.594	-3.01%	2.91%
			820	0.874	42.789	0.899	41.578	-2.78%	2.91%
			835	0.880	42.680	0.900	41.500	-2.22%	2.84%
			850	0.883	42.614	0.916	41.500	-3.60%	2.68%
			815	0.927	39.745	0.898	41.594	3.24%	-4.45%
			820	0.929	39.732	0.899	41.578	3.31%	-4.44%
			835	0.934	39.700	0.900	41.500	3.79%	-4.34%
09/23/2024	835 Head	20.7	850	0.940	39.665	0.916	41.500	2.59%	-4.42%
			815	0.927	41.593	0.898	41.594	2.34%	0.00%
			820	0.921	41.571	0.899	41.578	2.45%	-0.02%
			835	0.927	41.508	0.900	41.500	3.00%	0.02%
			850	0.933	41.461	0.916	41.500	1.86%	-0.09%
			815	0.871	42.808	0.898	41.594	-3.01%	2.91%
			820	0.874	42.789	0.899	41.578	-2.78%	2.91%
			835	0.880	42.680	0.900	41.500	-2.22%	2.84%
			850	0.883	42.614	0.916	41.500	-3.60%	2.68%
			815	0.927	39.745	0.898	41.594	3.24%	-4.45%
09/25/2024	835 Head	22.1	820	0.929	39.732	0.899	41.578	3.31%	-4.44%
			835	0.934	39.700	0.900	41.500	3.79%	-4.34%
			850	0.940	39.665	0.916	41.500	2.59%	-4.42%
			815	0.927	41.593	0.898	41.594	2.34%	0.00%
			820	0.921	41.571	0.899	41.578	2.45%	-0.02%
			835	0.927	41.508	0.900	41.500	3.00%	0.02%
			850	0.933	41.461	0.916	41.500	1.86%	-0.09%
			815	0.871	42.808	0.898	41.594	-3.01%	2.91%
			820	0.874	42.789	0.899	41.578	-2.78%	2.91%
			835	0.880	42.680	0.900	41.500	-2.22%	2.84%

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Table 11-2
Measured Head Tissue Properties

Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ϵ	% div σ	% div ϵ
10/14/2024	1640 Head	21.8	1610	1.228	40.587	1.290	40.300	-4.81%	0.71%
			1620	1.233	40.570	1.296	40.284	-4.86%	0.71%
			1640	1.244	40.542	1.307	40.253	-4.82%	0.72%
			1650	1.249	40.526	1.313	40.237	-4.87%	0.72%
			1700	1.333	40.502	1.343	40.145	-0.74%	0.89%
09/15/2024	1750 Head	21.8	1705	1.336	40.490	1.345	40.141	-0.67%	0.87%
			1710	1.340	40.479	1.348	40.136	-0.59%	0.85%
			1720	1.342	40.468	1.354	40.126	-0.55%	0.83%
			1745	1.361	40.411	1.368	40.087	-0.51%	0.82%
			1750	1.364	40.401	1.371	40.079	-0.51%	0.80%
09/18/2024	1750 Head	23.0	1770	1.374	40.305	1.383	40.047	-0.65%	0.79%
			1790	1.385	40.282	1.394	40.016	-0.65%	0.60%
			1700	1.318	40.394	1.343	40.145	-1.86%	0.62%
			1705	1.320	40.386	1.345	40.141	-1.86%	0.61%
			1710	1.323	40.378	1.348	40.136	-1.85%	0.60%
09/18/2024	1750 Head	23.0	1720	1.325	40.358	1.354	40.126	-1.85%	0.58%
			1745	1.341	40.318	1.368	40.087	-1.83%	0.58%
			1750	1.346	40.311	1.371	40.079	-1.82%	0.58%
			1770	1.358	40.295	1.383	40.047	-1.81%	0.59%
			1790	1.369	40.258	1.394	40.016	-1.79%	0.60%
09/18/2024	1750 Head	23.0	1700	1.318	40.394	1.343	40.145	-1.86%	0.62%
			1705	1.320	40.386	1.345	40.141	-1.86%	0.61%
			1710	1.323	40.378	1.348	40.136	-1.85%	0.60%
			1720	1.325	40.358	1.354	40.126	-1.85%	0.58%
			1745	1.341	40.318	1.368	40.087	-1.83%	0.58%
09/19/2024	1750 Head	21.0	1750	1.346	40.311	1.371	40.079	-1.82%	0.58%
			1770	1.364	40.285	1.383	40.047	-1.81%	0.59%
			1790	1.369	40.258	1.394	40.016	-1.79%	0.60%
			1700	1.325	40.354	1.345	40.141	-1.48%	0.05%
			1710	1.328	40.347	1.348	40.136	-1.48%	0.04%
09/19/2024	1750 Head	21.0	1720	1.335	40.342	1.354	40.126	-1.42%	0.04%
			1745	1.352	40.321	1.368	40.087	-1.37%	0.03%
			1750	1.355	40.291	1.371	40.079	-1.37%	0.03%
			1770	1.367	40.060	1.383	40.047	-1.36%	0.03%
			1790	1.378	40.025	1.394	40.016	-1.35%	0.02%
09/26/2024	1750 Head	19.1	1700	1.320	40.327	1.343	40.145	-1.71%	0.45%
			1705	1.323	40.319	1.345	40.141	-1.64%	0.44%
			1710	1.325	40.308	1.348	40.136	-1.63%	0.43%
			1720	1.332	40.287	1.354	40.126	-1.62%	0.40%
			1745	1.348	40.244	1.368	40.087	-1.46%	0.39%
09/18/2024	1750 Head	23.2	1750	1.351	40.226	1.371	40.079	-1.46%	0.39%
			1770	1.363	40.193	1.383	40.047	-1.45%	0.38%
			1790	1.376	40.156	1.394	40.016	-1.29%	0.35%
			1700	1.334	38.989	1.343	40.145	-0.67%	-2.88%
			1705	1.336	38.981	1.345	40.141	-0.67%	-2.89%
09/18/2024	1750 Head	23.2	1710	1.338	38.975	1.348	40.136	-0.67%	-2.89%
			1720	1.345	38.961	1.354	40.126	-0.66%	-2.90%
			1745	1.357	38.924	1.368	40.087	-0.80%	-2.90%
			1750	1.360	38.915	1.371	40.079	-0.80%	-2.90%
			1770	1.370	38.867	1.383	40.047	-0.94%	-2.95%
09/20/2024	1750 Head	20.3	1790	1.381	38.822	1.394	40.016	-0.93%	-2.98%
			1700	1.293	39.760	1.343	40.145	-3.72%	-0.96%
			1705	1.296	39.756	1.345	40.141	-3.64%	-0.95%
			1710	1.299	39.752	1.348	40.136	-3.64%	-0.95%
			1720	1.305	39.740	1.354	40.126	-3.62%	-0.96%
09/20/2024	1750 Head	20.3	1745	1.321	39.699	1.368	40.087	-3.44%	-0.97%
			1750	1.324	39.689	1.371	40.079	-3.43%	-0.97%
			1770	1.337	39.656	1.383	40.047	-3.33%	-0.98%
			1790	1.349	39.626	1.394	40.016	-3.23%	-0.97%
09/11/2024	1900 Head	19.0	1850	1.394	39.936	1.400	40.000	-0.43%	-0.16%
			1860	1.400	39.925	1.400	40.000	0.00%	-0.19%
			1880	1.413	39.897	1.400	40.000	0.36%	-0.22%
			1900	1.425	39.862	1.400	40.000	1.78%	-0.30%
			1905	1.428	39.874	1.400	40.000	2.00%	-0.31%
09/13/2024	1900 Head	21.5	1910	1.432	39.867	1.400	40.000	2.29%	-0.33%
			1920	1.438	39.852	1.400	40.000	2.71%	-0.37%
			1950	1.450	40.724	1.400	40.000	0.00%	1.81%
			1860	1.407	40.713	1.400	40.000	0.50%	1.79%
			1880	1.419	40.695	1.400	40.000	1.36%	1.74%
09/13/2024	1900 Head	21.5	1900	1.431	40.674	1.400	40.000	2.21%	1.69%
			1905	1.434	40.668	1.400	40.000	2.43%	1.67%
			1910	1.437	40.662	1.400	40.000	2.64%	1.66%
			1920	1.444	40.648	1.400	40.000	3.14%	1.62%
			1850	1.422	40.236	1.400	40.000	1.57%	0.59%
09/15/2024	1900 Head	21.8	1860	1.427	40.214	1.400	40.000	1.83%	0.52%
			1880	1.438	40.183	1.400	40.000	2.71%	0.68%
			1900	1.448	40.166	1.400	40.000	3.43%	0.41%
			1905	1.451	40.163	1.400	40.000	3.64%	0.41%
			1910	1.454	40.160	1.400	40.000	3.86%	0.40%
09/18/2024	1900 Head	23.2	1920	1.460	40.153	1.400	40.000	4.29%	0.38%
			1850	1.413	38.751	1.400	40.000	0.93%	-3.12%
			1860	1.418	38.735	1.400	40.000	1.29%	-3.16%
			1880	1.429	38.703	1.400	40.000	2.07%	-3.24%
			1900	1.442	38.681	1.400	40.000	3.02%	-3.30%
09/18/2024	1900 Head	23.2	1905	1.445	38.679	1.400	40.000	3.21%	-3.30%
			1910	1.448	38.678	1.400	40.000	3.43%	-3.31%
			1920	1.455	38.677	1.400	40.000	3.93%	-3.31%
			1850	1.414	40.028	1.400	40.000	1.00%	0.09%
			1860	1.420	40.017	1.400	40.000	1.43%	0.04%
09/26/2024	1900 Head	19.1	1880	1.432	39.986	1.400	40.000	2.29%	-0.03%
			1900	1.445	39.959	1.400	40.000	3.21%	-0.10%
			1905	1.448	39.952	1.400	40.000	3.43%	-0.12%
			1910	1.452	39.945	1.400	40.000	3.71%	-0.14%
			1920	1.458	39.929	1.400	40.000	4.14%	-0.18%
09/30/2024	1900 Head	21.3	1850	1.400	39.610	1.400	40.000	0.00%	-0.98%
			1860	1.405	39.591	1.400	40.000	0.36%	-1.02%
			1880	1.417	39.557	1.400	40.000	1.21%	-1.11%
			1900	1.429	39.523	1.400	40.000	2.07%	-1.19%
			1905	1.432	39.516	1.400	40.000	2.29%	-1.21%
10/02/2024	1900 Head	19.3	1910	1.435	39.508	1.400	40.000	2.50%	-1.23%
			1920	1.441	39.492	1.400	40.000	2.93%	-1.27%
			1850	1.414	39.230	1.400	40.000	1.00%	-1.93%
			1860	1.420	39.214	1.400	40.000	1.43%	-1.97%
			1880	1.432	39.186	1.400	40.000	2.29%	-2.04%
09/20/2024	1900 Head	20.3	1900	1.445	39.185	1.400	40.000	3.21%	-2.09%
			1905	1.448	39.180	1.400	40.000	3.43%	-2.10%
			1910	1.451	39.156	1.400	40.000	3.64%	-2.11%
			1920	1.458	39.145	1.400	40.000	4.14%	-2.14%
			1850	1.394	39.598	1.400	40.000	-1.44%	-1.23%
09/20/2024	1900 Head	20.3	1860	1.390	39.485	1.400	40.000	-0.71%	-1.29%
			1880	1.403	39.441	1.400	40.000	0.21%	-1.40%
			1900	1.416	39.409	1.400	40.000	1.14%	-1.48%
			1905	1.419	39.423	1.400	40.000	1.36%	-

Table 11-3
Measured Head Tissue Properties

Cultivated for Tea Performance	Time Type	Tea Type	Flavor Cognition (%)	Max Frequency (Hz)	Measured Conductivity (μS/cm)	Desired Resistance (Ω)	TDS/OT Conductivity (μS/cm)	Observed Conductivity (μS/cm)	% dev α	% dev β
09/11/2024	2450	20.7	2100	1.675	38.21	1.675	1.675	1.675	1.675	-2.00%
			2110	1.675	38.21	1.675	1.675	1.675	-2.22%	
			2120	1.675	38.21	1.675	1.675	1.675	-2.22%	
			2130	1.675	38.21	1.675	1.675	1.675	-2.22%	
			2140	1.675	38.21	1.675	1.675	1.675	-2.22%	
			2150	1.675	38.21	1.675	1.675	1.675	-2.22%	
			2200	1.675	38.21	1.675	1.675	1.675	-2.22%	
			2210	1.675	38.21	1.675	1.675	1.675	-2.22%	
			2220	1.675	38.21	1.675	1.675	1.675	-2.22%	
			2230	1.675	38.21	1.675	1.675	1.675	-2.22%	
			2240	1.675	38.21	1.675	1.675	1.675	-2.22%	
			2250	1.675	38.21	1.675	1.675	1.675	-2.22%	
			2300	1.675	38.21	1.675	1.675	1.675	-2.22%	
			2310	1.675	38.21	1.675	1.675	1.675	-2.22%	
			2320	1.675	38.21	1.675	1.675	1.675	-2.22%	
			2330	1.675	38.21	1.675	1.675	1.675	-2.22%	
09/13/2024	2450	21.3	2100	1.675	38.21	1.680	1.680	1.680	-2.22%	
			2110	1.675	38.21	1.680	1.680	1.680	-2.22%	
			2120	1.675	38.21	1.680	1.680	1.680	-2.22%	
			2130	1.675	38.21	1.680	1.680	1.680	-2.22%	
			2140	1.675	38.21	1.680	1.680	1.680	-2.22%	
			2150	1.675	38.21	1.680	1.680	1.680	-2.22%	
			2200	1.675	38.21	1.680	1.680	1.680	-2.22%	
			2210	1.675	38.21	1.680	1.680	1.680	-2.22%	
			2220	1.675	38.21	1.680	1.680	1.680	-2.22%	
			2230	1.675	38.21	1.680	1.680	1.680	-2.22%	
			2240	1.675	38.21	1.680	1.680	1.680	-2.22%	
			2250	1.675	38.21	1.680	1.680	1.680	-2.22%	
			2300	1.675	38.21	1.680	1.680	1.680	-2.22%	
			2310	1.675	38.21	1.680	1.680	1.680	-2.22%	
			2320	1.675	38.21	1.680	1.680	1.680	-2.22%	
			2330	1.675	38.21	1.680	1.680	1.680	-2.22%	
09/18/2024	2450	21.8	2100	1.675	38.21	1.685	1.685	1.685	-2.22%	
			2110	1.675	38.21	1.685	1.685	1.685	-2.22%	
			2120	1.675	38.21	1.685	1.685	1.685	-2.22%	
			2130	1.675	38.21	1.685	1.685	1.685	-2.22%	
			2140	1.675	38.21	1.685	1.685	1.685	-2.22%	
			2150	1.675	38.21	1.685	1.685	1.685	-2.22%	
			2200	1.675	38.21	1.685	1.685	1.685	-2.22%	
			2210	1.675	38.21	1.685	1.685	1.685	-2.22%	
			2220	1.675	38.21	1.685	1.685	1.685	-2.22%	
			2230	1.675	38.21	1.685	1.685	1.685	-2.22%	
			2240	1.675	38.21	1.685	1.685	1.685	-2.22%	
			2250	1.675	38.21	1.685	1.685	1.685	-2.22%	
			2300	1.675	38.21	1.685	1.685	1.685	-2.22%	
			2310	1.675	38.21	1.685	1.685	1.685	-2.22%	
			2320	1.675	38.21	1.685	1.685	1.685	-2.22%	
			2330	1.675	38.21	1.685	1.685	1.685	-2.22%	
09/19/2024	2450	21.0	2100	1.675	38.21	1.690	1.690	1.690	-2.22%	
			2110	1.675	38.21	1.690	1.690	1.690	-2.22%	
			2120	1.675	38.21	1.690	1.690	1.690	-2.22%	
			2130	1.675	38.21	1.690	1.690	1.690	-2.22%	
			2140	1.675	38.21	1.690	1.690	1.690	-2.22%	
			2150	1.675	38.21	1.690	1.690	1.690	-2.22%	
			2200	1.675	38.21	1.690	1.690	1.690	-2.22%	
			2210	1.675	38.21	1.690	1.690	1.690	-2.22%	
			2220	1.675	38.21	1.690	1.690	1.690	-2.22%	
			2230	1.675	38.21	1.690	1.690	1.690	-2.22%	
			2240	1.675	38.21	1.690	1.690	1.690	-2.22%	
			2250	1.675	38.21	1.690	1.690	1.690	-2.22%	
			2300	1.675	38.21	1.690	1.690	1.690	-2.22%	
			2310	1.675	38.21	1.690	1.690	1.690	-2.22%	
			2320	1.675	38.21	1.690	1.690	1.690	-2.22%	
			2330	1.675	38.21	1.690	1.690	1.690	-2.22%	
09/23/2024	2450	20.7	2100	1.675	38.21	1.695	1.695	1.695	-2.22%	
			2110	1.675	38.21	1.695	1.695	1.695	-2.22%	
			2120	1.675	38.21	1.695	1.695	1.695	-2.22%	
			2130	1.675	38.21	1.695	1.695	1.695	-2.22%	
			2140	1.675	38.21	1.695	1.695	1.695	-2.22%	
			2150	1.675	38.21	1.695	1.695	1.695	-2.22%	
			2200	1.675	38.21	1.695	1.695	1.695	-2.22%	
			2210	1.675	38.21	1.695	1.695	1.695	-2.22%	
			2220	1.675	38.21	1.695	1.695	1.695	-2.22%	
			2230	1.675	38.21	1.695	1.695	1.695	-2.22%	
			2240	1.675	38.21	1.695	1.695	1.695	-2.22%	
			2250	1.675	38.21	1.695	1.695	1.695	-2.22%	
			2300	1.675	38.21	1.695	1.695	1.695	-2.22%	
			2310	1.675	38.21	1.695	1.695	1.695	-2.22%	
			2320	1.675	38.21	1.695	1.695	1.695	-2.22%	
			2330	1.675	38.21	1.695	1.695	1.695	-2.22%	
09/25/2024	2450	21.6	2100	1.675	38.21	1.700	1.700	1.700	-2.22%	
			2110	1.675	38.21	1.700	1.700	1.700	-2.22%	
			2120	1.675	38.21	1.700	1.700	1.700	-2.22%	
			2130	1.675	38.21	1.700	1.700	1.700	-2.22%	
			2140	1.675	38.21	1.700	1.700	1.700	-2.22%	
			2150	1.675	38.21	1.700	1.700	1.700	-2.22%	
			2200	1.675	38.21	1.700	1.700	1.700	-2.22%	
			2210	1.675	38.21	1.700	1.700	1.700	-2.22%	
			2220	1.675	38.21	1.700	1.700	1.700	-2.22%	
			2230	1.675	38.21	1.700	1.700	1.700	-2.22%	
			2240	1.675	38.21	1.700	1.700	1.700	-2.22%	
			2250	1.675	38.21	1.700	1.700	1.700	-2.22%	
			2300	1.675	38.21	1.700	1.700	1.700	-2.22%	
			2310	1.675	38.21	1.700	1.700	1.700	-2.22%	
			2320	1.675	38.21	1.700	1.700	1.700	-2.22%	
			2330	1.675	38.21	1.700	1.700	1.700	-2.22%	
09/30/2024	2450	21.5	2100	1.675	38.21	1.705	1.705	1.705	-2.22%	
			2110	1.675	38.21	1.705	1.705	1.705	-2.22%	
			2120	1.675	38.21	1.705	1.705	1.705	-2.22%	
			2130	1.675	38.21	1.705	1.705	1.705	-2.22%	
			2140	1.675	38.21	1.705	1.705	1.705	-2.22%	
			2150	1.675	38.21	1.705	1.705	1.705	-2.22%	
			2200	1.675	38.21	1.705	1.705	1.705	-2.22%	
			2210	1.675	38.21	1.705	1.705	1.705	-2.22%	
			2220	1.675	38.21	1.705	1.705	1.705	-2.22%	
			2230	1.675	38.21	1.705	1.705	1.705	-2.22%	
			2240	1.675	38.21	1.705	1.705	1.705	-2.22%	
			2250	1.675	38.21	1.705	1.705	1.705	-2.22%	
			2300	1.675	38.21	1.705	1.705	1.705	-2.22%	
			2310	1.675	38.21	1.705	1.705	1.705	-2.22%	
			2320	1.675	38.21	1.705	1.705	1.705	-2.22%	
			2330	1.675	38.21	1.705	1.705	1.705	-2.22%	
10/03/2024	2450	21.8	2100	1.675	38.21	1.710	1.710	1.710	-2.22%	
			2110	1.675	38.21	1.710	1.710	1.710	-2.22%	
			2120	1.675	38.21	1.710	1.710	1.710	-2.22%	
			2130	1.675	38.21	1.710	1.710	1.710	-2.22%	
			2140	1.675	38.21	1.710	1.710	1.710	-2.22%	
			2150	1.675	38.21	1.710	1.710	1.710	-2.22%	
			2200	1.675	38.21	1.710	1.710	1.710	-2.22%	
			2210	1.675	38.21	1.710	1.710	1.710	-2.22%	
			2220	1.675	38.21	1.710	1.710	1.710	-2.22%	
			2230	1.675	38.21	1.710	1.710	1.710	-2.22%	
			2240	1.675	38.21	1.710	1.710	1.710	-2.22%	
			2250	1.675	38.21	1.710	1.710	1.710	-2.22%	
			2300	1.675	38.21	1.710	1.710	1.710	-2.22%	
			2310	1.675	38.21	1.710	1.710	1.710	-2.22%	
			2320	1.675	38.21	1.710	1.710	1.710	-2.22%	
			2330	1.675	38.21	1.710	1.710	1.710	-2.22%	
10/14/2024	2450	21.0	2100	1.675	38.21	1.715	1.715	1.715	-2.22%	
			2110	1.675	38.21	1.715	1.715	1.715	-2.22%	
			2120	1.675	38.21	1.715	1.715	1.715	-2.22%	
			2130	1.675	38.21	1.715	1.715	1.715	-2.22%	
			2140	1.675	38.21	1.715	1.715	1.715	-2.22%	
			2150	1.675	38.21	1.715	1.715	1.715	-2.22%	
			2200	1.675	38.21	1.715	1.715	1.715	-2.22%	
			2210	1.675	38.21	1.715	1.715	1.715	-2.22%	
			2220	1.675	38.21	1.715	1.715	1.715	-2.22%	
			2230	1.675	38.21	1.715	1.715	1.715	-2.22%	
			2240	1.675	38.21	1.715	1.715	1.715	-2.22%	
			2250	1.675	38.21	1.715	1.715	1.715	-2.22%	
			2300	1.675	38.21	1.715	1.715	1.715	-2.22%	
			2310	1.675	38.21	1.715	1.715	1.715	-2.22%	
			2320	1.675	38.21	1.715	1.715	1.715	-2.22%	
			2330	1.675	38.21	1.715	1.715	1.715	-2.22%	

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Table 11-4
Measured Head Tissue Properties

Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ϵ	% dev σ	% dev ϵ
09/16/2024	3600 Head	19.3	3300	2.589	38.361	2.708	38.157	-4.39%	0.53%
			3350	2.631	38.313	2.759	38.100	-4.64%	0.56%
			3450	2.725	38.119	2.861	37.986	-4.72%	0.35%
			3500	2.768	38.008	2.913	37.929	-4.98%	0.21%
			3550	2.817	37.924	2.964	37.871	-4.96%	0.14%
			3600	2.869	37.835	3.015	37.814	-4.84%	0.06%
			3650	2.915	37.760	3.066	37.757	-4.92%	0.01%
			3690	2.955	37.678	3.107	37.711	-4.89%	-0.09%
			3700	2.965	37.663	3.117	37.700	-4.88%	-0.10%
			3750	3.015	37.604	3.169	37.643	-4.86%	-0.10%
			3900	3.164	37.303	3.323	37.471	-4.78%	-0.45%
			3930	3.197	37.260	3.353	37.437	-4.65%	-0.47%
			4100	3.366	36.965	3.528	37.243	-4.59%	-0.75%
			4150	3.429	36.901	3.579	37.186	-4.19%	-0.77%
			3300	2.601	38.859	2.708	38.157	-3.95%	1.84%
			3350	2.645	38.763	2.759	38.100	-4.13%	1.74%
09/18/2024	3600 Head	19.3	3450	2.740	38.586	2.861	37.986	-4.23%	1.58%
			3500	2.780	38.483	2.913	37.929	-4.57%	1.46%
			3550	2.833	38.410	2.964	37.871	-4.42%	1.42%
			3560	2.842	38.398	2.974	37.860	-4.44%	1.42%
			3600	2.877	38.312	3.015	37.814	-4.58%	1.32%
			3650	2.926	38.231	3.066	37.757	-4.57%	1.26%
			3690	2.962	38.173	3.107	37.711	-4.67%	1.23%
			3700	2.970	38.149	3.117	37.700	-4.72%	1.19%
			3750	3.022	38.077	3.169	37.643	-4.64%	1.15%
			3900	3.172	37.833	3.323	37.471	-4.54%	0.97%
			3930	3.199	37.779	3.353	37.437	-4.59%	0.91%
			4100	3.383	37.504	3.528	37.243	-4.11%	0.70%
			4150	3.435	37.401	3.579	37.186	-4.02%	0.58%
			3300	2.635	38.791	2.708	38.157	-2.70%	1.66%
			3350	2.685	38.697	2.759	38.100	-2.68%	1.57%
			3450	2.775	38.488	2.861	37.986	-3.01%	1.32%
09/18/2024	3600 Head	19.6	3500	2.819	38.417	2.913	37.929	-3.23%	1.29%
			3550	2.871	38.319	2.964	37.871	-3.14%	1.18%
			3560	2.879	38.294	2.974	37.860	-3.19%	1.15%
			3600	2.918	38.240	3.015	37.814	-3.22%	1.13%
			3650	2.966	38.126	3.066	37.757	-3.26%	0.98%
			3690	3.001	38.086	3.107	37.711	-3.41%	0.99%
			3700	3.011	38.054	3.117	37.700	-3.40%	0.94%
			3750	3.056	37.958	3.169	37.643	-3.57%	0.84%
			3900	3.211	37.690	3.323	37.471	-3.37%	0.58%
			3930	3.245	37.644	3.353	37.437	-3.22%	0.55%
			4100	3.418	37.349	3.528	37.243	-3.12%	0.28%
			4150	3.476	37.258	3.579	37.186	-2.88%	0.19%
			3300	2.614	38.897	2.708	38.157	-3.47%	1.94%
			3350	2.659	38.818	2.759	38.100	-3.62%	1.88%
			3450	2.751	38.657	2.861	37.986	-3.84%	1.77%
			3500	2.797	38.554	2.913	37.929	-3.98%	1.65%
09/23/2024	3600 Head	19.1	3550	2.841	38.468	2.964	37.871	-4.15%	1.58%
			3560	2.847	38.453	2.974	37.860	-4.27%	1.57%
			3600	2.892	38.373	3.015	37.814	-4.08%	1.48%
			3650	2.940	38.275	3.066	37.757	-4.11%	1.37%
			3690	2.979	38.222	3.107	37.711	-4.12%	1.36%
			3700	2.991	38.205	3.117	37.700	-4.04%	1.34%
			3750	3.043	38.140	3.169	37.643	-3.98%	1.32%
			3900	3.201	37.938	3.323	37.471	-3.67%	1.25%
			3930	3.230	37.850	3.353	37.437	-3.67%	1.10%
			4100	3.413	37.544	3.528	37.243	-3.26%	0.81%
			4150	3.478	37.461	3.579	37.186	-2.82%	0.74%
			3300	2.606	38.043	2.708	38.157	-3.77%	-0.30%
			3350	2.654	37.943	2.759	38.100	-3.81%	-0.41%
			3450	2.746	37.755	2.861	37.986	-4.02%	-0.61%
			3500	2.788	37.647	2.913	37.929	-4.29%	-0.74%
			3550	2.838	37.559	2.964	37.871	-4.25%	-0.82%
10/16/2024	3600 Head	19.1	3560	2.845	37.534	2.974	37.860	-4.34%	-0.86%
			3600	2.881	37.457	3.015	37.814	-4.44%	-0.94%
			3650	2.930	37.383	3.066	37.757	-4.44%	-0.99%
			3690	2.970	37.299	3.107	37.711	-4.41%	-1.09%
			3700	2.973	37.291	3.117	37.700	-4.62%	-1.08%
			3750	3.024	37.216	3.169	37.643	-4.58%	-1.13%
			3900	3.170	36.951	3.323	37.471	-4.60%	-1.39%
			3930	3.200	36.921	3.353	37.437	-4.56%	-1.38%
			4100	3.384	36.578	3.528	37.243	-4.08%	-1.79%
			4150	3.427	36.508	3.579	37.186	-4.25%	-1.82%

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Table 11-5
Measured Head Tissue Properties

Calibrated for Tests Performed on:	Tissue Type	Times Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity σ (B/m)	Measured Dielectric Constant ϵ' (B/m)	TARGET Conductivity σ (B/m)	TARGET Dielectric Constant ϵ' (B/m)	% dev σ	% dev ϵ'
06/23/2024	D00-5800 Head	20.2	51320	4.933	50.183	49.925	1.1336	-2.8094	
			51400	4.937	50.189	49.940	1.1336	-2.8274	
			51480	4.941	50.194	49.955	1.1336	-2.8454	
			51560	4.945	50.200	49.970	1.1336	-2.8634	
			51640	4.949	50.206	49.985	1.1336	-2.8814	
			51720	4.953	50.211	49.999	1.1336	-2.9000	
			51800	4.957	50.217	50.014	1.1336	-2.9180	
			51880	4.961	50.222	50.029	1.1336	-2.9360	
			51960	4.965	50.228	50.043	1.1336	-2.9540	
			52040	4.969	50.233	50.058	1.1336	-2.9720	
			52120	4.973	50.239	50.072	1.1336	-2.9900	
			52200	4.977	50.244	50.087	1.1336	-3.0080	
			52280	4.981	50.250	50.101	1.1336	-3.0260	
			52360	4.985	50.255	50.116	1.1336	-3.0440	
			52440	4.989	50.261	50.130	1.1336	-3.0620	
			52520	4.993	50.266	50.145	1.1336	-3.0800	
			52600	4.997	50.272	50.159	1.1336	-3.0980	
			52680	5.001	50.277	50.174	1.1336	-3.1160	
			52760	5.005	50.283	50.188	1.1336	-3.1340	
			52840	5.009	50.288	50.203	1.1336	-3.1520	
			52920	5.013	50.294	50.217	1.1336	-3.1700	
			53000	5.017	50.299	50.232	1.1336	-3.1880	
			53080	5.021	50.304	50.246	1.1336	-3.2060	
			53160	5.025	50.310	50.261	1.1336	-3.2240	
			53240	5.029	50.315	50.275	1.1336	-3.2420	
			53320	5.033	50.321	50.290	1.1336	-3.2600	
			53400	5.037	50.326	50.304	1.1336	-3.2780	
			53480	5.041	50.332	50.319	1.1336	-3.2960	
			53560	5.045	50.337	50.333	1.1336	-3.3140	
			53640	5.049	50.343	50.348	1.1336	-3.3320	
			53720	5.053	50.348	50.362	1.1336	-3.3500	
			53800	5.057	50.354	50.377	1.1336	-3.3680	
			53880	5.061	50.359	50.391	1.1336	-3.3860	
			53960	5.065	50.365	50.406	1.1336	-3.4040	
			54040	5.069	50.370	50.420	1.1336	-3.4220	
			54120	5.073	50.376	50.435	1.1336	-3.4400	
			54200	5.077	50.381	50.449	1.1336	-3.4580	
			54280	5.081	50.387	50.464	1.1336	-3.4760	
			54360	5.085	50.392	50.478	1.1336	-3.4940	
			54440	5.089	50.398	50.493	1.1336	-3.5120	
			54520	5.093	50.403	50.507	1.1336	-3.5300	
			54600	5.097	50.409	50.522	1.1336	-3.5480	
			54680	5.101	50.414	50.536	1.1336	-3.5660	
			54760	5.105	50.420	50.551	1.1336	-3.5840	
			54840	5.109	50.425	50.565	1.1336	-3.6020	
			54920	5.113	50.431	50.580	1.1336	-3.6200	
			55000	5.117	50.436	50.594	1.1336	-3.6380	
			55080	5.121	50.442	50.609	1.1336	-3.6560	
			55160	5.125	50.447	50.623	1.1336	-3.6740	
			55240	5.129	50.453	50.638	1.1336	-3.6920	
			55320	5.133	50.458	50.652	1.1336	-3.7100	
			55400	5.137	50.464	50.667	1.1336	-3.7280	
			55480	5.141	50.469	50.681	1.1336	-3.7460	
			55560	5.145	50.475	50.696	1.1336	-3.7640	
			55640	5.149	50.480	50.710	1.1336	-3.7820	
			55720	5.153	50.486	50.725	1.1336	-3.8000	
			55800	5.157	50.491	50.739	1.1336	-3.8180	
			55880	5.161	50.497	50.754	1.1336	-3.8360	
			55960	5.165	50.502	50.768	1.1336	-3.8540	
			56040	5.169	50.508	50.783	1.1336	-3.8720	
			56120	5.173	50.513	50.797	1.1336	-3.8900	
			56200	5.177	50.519	50.812	1.1336	-3.9080	
			56280	5.181	50.524	50.826	1.1336	-3.9260	
			56360	5.185	50.530	50.841	1.1336	-3.9440	
			56440	5.189	50.535	50.855	1.1336	-3.9620	
			56520	5.193	50.541	50.870	1.1336	-3.9800	
			56600	5.197	50.546	50.884	1.1336	-3.9980	
			56680	5.201	50.552	50.899	1.1336	-4.0160	
			56760	5.205	50.557	50.913	1.1336	-4.0340	
			56840	5.209	50.563	50.928	1.1336	-4.0520	
			56920	5.213	50.568	50.942	1.1336	-4.0700	
			57000	5.217	50.573	50.957	1.1336	-4.0880	
			57080	5.221	50.579	50.971	1.1336	-4.1060	
			57160	5.225	50.584	50.986	1.1336	-4.1240	
			57240	5.229	50.590	51.000	1.1336	-4.1420	
			57320	5.233	50.595	51.015	1.1336	-4.1600	
			57400	5.237	50.601	51.029	1.1336	-4.1780	
			57480	5.241	50.606	51.044	1.1336	-4.1960	
			57560	5.245	50.612	51.058	1.1336	-4.2140	
			57640	5.249	50.617	51.073	1.1336	-4.2320	
			57720	5.253	50.623	51.087	1.1336	-4.2500	
			57800	5.257	50.628	51.102	1.1336	-4.2680	
			57880	5.261	50.634	51.116	1.1336	-4.2860	
			57960	5.265	50.639	51.131	1.1336	-4.3040	
			58040	5.269	50.645	51.145	1.1336	-4.3220	
			58120	5.273	50.650	51.160	1.1336	-4.3400	
			58200	5.277	50.656	51.174	1.1336	-4.3580	
			58280	5.281	50.661	51.189	1.1336	-4.3760	
			58360	5.285	50.667	51.203	1.1336	-4.3940	
			58440	5.289	50.672	51.218	1.1336	-4.4120	
			58520	5.293	50.678	51.232	1.1336	-4.4300	
			58600	5.297	50.683	51.247	1.1336	-4.4480	
			58680	5.301	50.689	51.261	1.1336	-4.4660	
			58760	5.305	50.694	51.276	1.1336	-4.4840	
			58840	5.309	50.700	51.290	1.1336	-4.5020	
			58920	5.313	50.705	51.305	1.1336	-4.5200	
			59000	5.317	50.711	51.319	1.1336	-4.5380	
			59080	5.321	50.716	51.334	1.1336	-4.5560	
			59160	5.325	50.722	51.348	1.1336	-4.5740	
			59240	5.329	50.727	51.363	1.1336	-4.5920	
			59320	5.333	50.733	51.377	1.1336	-4.6100	
			59400	5.337	50.738	51.392	1.1336	-4.6280	
			59480	5.341	50.744	51.406	1.1336	-4.6460	
			59560	5.345	50.749	51.421	1.1336	-4.6640	
			59640	5.349	50.755	51.435	1.1336	-4.6820	
			59720	5.353	50.760	51.450	1.1336	-4.7000	
			59800	5.357	50.766	51.464	1.1336	-4.7180	
			59880	5.361	50.771	51.479	1.1336	-4.7360	
			59960	5.365	50.777	51.493	1.1336	-4.7540	
			60040	5.369	50.782	51.508	1.1336	-4.7720	
			60120	5.373	50.788	51.522	1.1336	-4.7900	
			60200	5.377	50.793	51.537	1.1336	-4.8080	
			60280	5.381	50.799	51.551	1.1336	-4.8260	
			60360	5.385	50.804	51.566	1.1336	-4.8440	
			60440	5.389	50.810	51.580	1.1336	-4.8620	
			60520	5.393	50.815	51.595	1.1336	-4.8800	
			60600	5.397	50.821	51.609	1.1336	-4.8980	
			60680	5.401	50.826	51.624	1.1336	-4.9160	
			60760	5.405	50.832	51.638	1.1336	-4.9340	
			60840	5.409	50.837	51.653	1.1336	-4.9520	
			60920	5.413	50.843	51.667	1.1336	-4.9700	
			61000	5.417	50.848	51.682	1.1336	-4.9880	
			61080	5.421	50.854	51.696	1.1336	-5.0060	
			61160	5.425	50.859	51.711	1.1336	-5.0240	
			61240	5.429	50.865	51.725	1.1336	-5.0420	
			61320	5.433	50.870	51.740	1.1336	-5.0600	
61400	5.437	50.876	51.754	1.1336	-5.0780				
61480	5.441	50.881	51.769	1.1336	-5.0960				
61560	5.445	50.887	51.783	1.1336	-5.1140				
61640	5.449	50.892	51.798	1.1336	-5.1320				
61720	5.453	50.898	51.812	1.1336	-5.1500				
61800	5.457	50.903	51.827	1.1336	-5.1680				
61880	5.461	50.909	51.841	1.1336	-5.1860				
61960	5.465	50.914	51.856	1.1336	-5.2040				
62040	5.469	50.920	51.870	1.1336	-5.2220				
62120	5.473	50.925	51.885	1.1336	-5.2400				
62200	5.477	50.931	51.899	1.1336	-5.2580				
62280	5.481	50.936	51.914	1.1336	-5.2760				
62360	5.485	50.942	51.928	1.1336	-5.2940				
62440	5.489	50.947	51.943	1.1336	-5.3120				
62520	5.493	50.953	51.957	1.1336	-5.3300				
62600	5.497	50.958	51.972	1.1336	-5.3480				
62680	5.501	50.964	51.986	1.1336	-5.3660				
62760	5.505	50.969	52.001	1.1336	-5.3840				
62840	5.509	50.975	52.015	1.1336	-5.4020				
62920	5.513	50.980	52.030	1.1336	-5.4200				
63000	5.517	50.986	52.044	1.1336	-5.4380				
63080	5.521	50.991	52.059	1.1336	-5.4560				
63160	5.525	50.997	52.073	1.1336	-5.4740				
63240	5.529	51.002	52.088	1.1336	-5.4920				
63320	5.533	51.008	52.102	1.1336	-5.5100				
63400	5.537	51.013	52.117	1.1336	-5.5280				
63480	5.541	51.019	52.131	1.1336	-5.5460				
63560	5.545	51.024	52.146	1.1336	-5.5640				
63640	5.549	51.030	52.160	1.1336	-5.5820				
63720	5.553	51.035	52.175	1.1336	-5.6000				
63800	5.557	51.041	52.189	1.1336	-5.6180				
63880	5.561	51.046	52.204	1.1336	-5.6360				
63960	5.565	51.052	52.218	1.1336	-5.6540				
64040	5.569	51.057	52.233	1.1336	-5.6720				
64120	5.573	51.063	52.247	1.1336	-5.6900				
64200	5.577	51.068	52.262	1.1336	-5.7080				
64280	5.581	51.074	52.276	1.1336	-5.7260				
64360	5.585	51.079	52.291	1.1336	-5.7440				
64440	5.589	51.085	52.305	1.1336	-5.7620				
64520	5.593	51.090	52.320	1.1336	-5.7800				
64600	5.597	51.096	52.334	1.1336	-5.7980				
64680	5.601	51.101	52.349	1.1336	-5.8160				
64760	5.605	51.107	52.363	1.1336	-5.8340				
64840	5.609								

11.2 SAR 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 11-6
System Verification Results – Head

System Verification TARGET & MEASURED																					
SAR System	Tissue Frequency (MHz)	Tissue Type	Date	Amb. Temp. (°C)	Liquid Temp. (°C)	Input Power (W)	Source SN	Probe SN	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 (%)	Measured 4cm² APD (W/m²)	1W Target 4cm² APD (W/m²)	1W Normalized 4cm² APD (W/m²)	Deviation 4cm² (%)
AM14	13	HEAD	10/02/2024	21.5	23.0	1.00	1004	7308	534	0.54	0.58	0.54	-6.23%	0.53	0.36	0.33	-6.18%	N/A	N/A	N/A	N/A
AM4	750	HEAD	10/02/2024	21.5	23.0	1.00	1007	7357	1582	1.73	8.27	8.55	-4.09%	1.05	5.38	5.80	-7.81%	N/A	N/A	N/A	N/A
J	750	HEAD	09/22/2024	21.9	22.3	0.20	1161	7406	1677	1.64	8.44	8.30	-2.84%	1.08	5.51	5.40	-2.00%	N/A	N/A	N/A	N/A
AM4	750	HEAD	09/24/2024	22.2	20.6	0.20	1097	7357	1582	1.74	8.27	8.70	-5.20%	1.05	5.38	5.80	-7.81%	N/A	N/A	N/A	N/A
I	750	HEAD	09/25/2024	24.0	23.9	0.20	1161	7406	1677	1.67	8.44	8.35	-1.07%	1.09	5.51	5.45	-1.09%	N/A	N/A	N/A	N/A
AM1	750	HEAD	10/02/2024	21.5	23.0	0.20	1097	7416	701	1.71	8.27	8.55	-3.39%	1.13	5.38	5.65	-5.02%	N/A	N/A	N/A	N/A
I	750	HEAD	10/07/2024	25.7	25.5	0.20	1054	7660	1677	1.73	8.52	8.65	-1.53%	1.13	5.40	5.65	-6.89%	N/A	N/A	N/A	N/A
I	750	HEAD	10/24/2024	18.8	18.0	0.20	1054	7660	1678	1.81	8.52	9.05	-6.22%	1.23	5.60	6.05	-8.04%	N/A	N/A	N/A	N/A
AM4	835	HEAD	09/18/2024	22.0	21.0	0.20	46108	7357	1582	2.03	9.80	10.15	-3.57%	1.39	6.34	6.70	-5.68%	N/A	N/A	N/A	N/A
AM4	835	HEAD	09/20/2024	21.9	20.9	0.20	46108	7357	1582	2.03	9.80	9.75	0.51%	1.39	6.34	6.55	-3.31%	N/A	N/A	N/A	N/A
J	835	HEAD	09/22/2024	21.9	22.3	0.20	46047	7406	1677	2.03	9.65	10.15	-5.18%	1.33	6.31	6.45	-3.99%	N/A	N/A	N/A	N/A
AM4	835	HEAD	09/23/2024	22.2	20.6	0.20	46108	7357	1582	2.04	9.80	10.20	-4.08%	1.39	6.34	6.70	-5.68%	N/A	N/A	N/A	N/A
K3	835	HEAD	09/23/2024	21.8	20.5	0.20	46119	7401	1512	2.02	9.96	10.10	-1.41%	1.39	6.48	6.70	-3.40%	N/A	N/A	N/A	N/A
J	835	HEAD	09/25/2024	24.0	23.9	0.20	46047	7406	1677	1.84	9.65	9.30	-4.46%	1.20	6.31	6.00	-4.91%	N/A	N/A	N/A	N/A
E	840	HEAD	09/25/2024	22.6	22.6	0.20	821	7570	1530	1.28	34.50	34.80	-0.87%	1.40	18.50	18.10	2.22%	N/A	N/A	N/A	N/A
C	1750	HEAD	09/26/2024	22.6	21.8	0.10	1150	7659	1407	1.83	36.50	38.30	-3.70%	2.05	19.40	20.50	-5.67%	N/A	N/A	N/A	N/A
J	1750	HEAD	09/18/2024	21.0	23.0	0.10	1150	7803	1583	3.79	38.50	37.90	2.71%	2.05	19.40	20.50	-5.67%	N/A	N/A	N/A	N/A
E	1750	HEAD	09/18/2024	24.3	23.2	0.10	1148	7409	1334	3.87	37.20	38.70	-4.03%	2.05	19.40	20.50	-5.67%	N/A	N/A	N/A	N/A
K4	1750	HEAD	09/19/2024	23.0	21.0	0.10	1051	7560	1466	5.49	37.00	34.90	-5.68%	1.86	19.50	18.60	-4.62%	N/A	N/A	N/A	N/A
D	1750	HEAD	09/20/2024	21.5	20.3	0.10	1148	3914	728	3.87	37.20	38.70	-4.03%	2.07	19.40	20.70	-6.30%	N/A	N/A	N/A	N/A
K4	1750	HEAD	09/20/2024	21.9	19.1	0.10	1051	7560	1466	5.85	37.00	38.50	-4.05%	2.05	19.50	20.50	-5.13%	N/A	N/A	N/A	N/A
K4	1900	HEAD	09/11/2024	19.2	19.0	0.10	56142	7560	1466	4.15	40.30	41.50	-2.98%	2.24	21.00	21.40	-1.90%	N/A	N/A	N/A	N/A
C	1900	HEAD	09/14/2024	22.6	21.8	0.10	56145	7659	1407	4.18	40.10	41.80	-2.24%	2.15	21.00	21.60	-2.86%	N/A	N/A	N/A	N/A
E	1900	HEAD	09/18/2024	24.3	23.2	0.10	54980	7409	1334	4.30	39.60	43.00	-8.59%	2.23	20.70	22.30	-7.73%	N/A	N/A	N/A	N/A
S	1900	HEAD	09/18/2024	21.0	23.0	0.10	56145	7660	1583	4.17	40.10	41.70	-3.99%	2.10	21.00	21.90	-4.29%	N/A	N/A	N/A	N/A
G	1900	HEAD	09/20/2024	21.5	20.3	0.10	54980	3914	728	4.23	39.60	42.30	-6.82%	2.19	20.70	21.90	-5.80%	N/A	N/A	N/A	N/A
K4	1900	HEAD	09/26/2024	21.0	19.1	0.10	56141	7560	1466	4.14	40.30	41.40	-2.73%	2.14	21.00	21.40	-1.90%	N/A	N/A	N/A	N/A
K4	1900	HEAD	09/30/2024	21.9	21.3	0.10	56141	7560	1466	4.10	40.30	41.00	-1.74%	2.12	21.00	21.20	-0.95%	N/A	N/A	N/A	N/A
K4	1900	HEAD	10/02/2024	20.0	19.1	0.10	54026	7560	1466	4.14	39.80	41.40	-4.02%	2.14	20.70	21.40	-3.38%	N/A	N/A	N/A	N/A
AM8	2100	HEAD	09/18/2024	21.6	21.6	0.10	1064	7427	1657	4.85	49.30	49.50	-0.41%	2.32	23.80	23.10	-2.93%	N/A	N/A	N/A	N/A
AM13	2100	HEAD	09/25/2024	20.7	22.6	0.10	1018	7662	1683	4.66	49.10	46.60	-5.09%	2.27	23.70	22.20	-6.31%	N/A	N/A	N/A	N/A
AM13	2100	HEAD	09/30/2024	21.5	22.6	0.10	1064	7662	1683	4.66	49.10	46.60	-5.48%	2.27	23.80	22.20	-6.72%	N/A	N/A	N/A	N/A
AM13	2100	HEAD	10/02/2024	21.6	21.6	0.10	1064	7662	1683	4.85	49.30	49.50	-0.41%	2.31	23.80	23.10	-2.94%	N/A	N/A	N/A	N/A
K2	2450	HEAD	09/11/2024	20.0	20.7	0.10	945	7637	1652	5.30	53.40	53.00	-0.75%	2.47	25.10	24.70	-1.59%	N/A	N/A	N/A	N/A
K2	2450	HEAD	09/13/2024	21.5	21.3	0.10	945	7637	1652	5.71	53.40	57.10	-6.03%	2.46	25.10	26.00	-5.58%	N/A	N/A	N/A	N/A
AM8	2450	HEAD	09/18/2024	21.9	21.9	0.10	750	7427	1657	5.26	52.60	52.60	0.00%	2.37	24.50	23.70	-3.27%	N/A	N/A	N/A	N/A
K2	2450	HEAD	09/23/2024	20.7	20.8	0.10	945	7637	1652	5.14	53.40	51.40	-3.75%	2.39	25.10	23.90	-4.78%	N/A	N/A	N/A	N/A
AM13	2450	HEAD	09/25/2024	21.1	21.3	0.10	945	7640	1645	5.14	52.40	51.40	-2.62%	2.35	25.10	25.50	-1.58%	N/A	N/A	N/A	N/A
K2	2450	HEAD	10/09/2024	20.5	21.0	0.10	882	7558	1364	5.40	53.00	54.00	-1.89%	2.53	24.90	25.30	-1.61%	N/A	N/A	N/A	N/A
AM8	2600	HEAD	09/18/2024	21.9	21.9	0.10	10402	7417	1657	5.75	55.80	52.90	-5.20%	2.30	24.90	23.00	-7.63%	N/A	N/A	N/A	N/A
K3	2600	HEAD	09/19/2024	20.9	21.0	0.10	1009	7637	1652	5.60	56.60	56.00	-1.06%	2.52	25.50	25.20	-1.18%	N/A	N/A	N/A	N/A
K2	2600	HEAD	09/23/2024	20.7	20.8	0.10	1009	7637	1652	5.30	56.60	53.00	-6.36%	2.38	25.50	23.80	-6.67%	N/A	N/A	N/A	N/A
AM13	2600	HEAD	09/24/2024	19.9	21.3	0.10	10411	7662	1683	5.66	56.90	56.60	-0.18%	2.47	25.40	24.70	-2.75%	N/A	N/A	N/A	N/A
K2	2600	HEAD	09/25/2024	21.3	21.3	0.10	1009	7660	1645	5.44	56.60	55.40	-2.12%	2.49	25.50	24.90	-2.35%	N/A	N/A	N/A	N/A
AM13	2600	HEAD	09/30/2024	21.3	22.6	0.10	1042	7662	1683	5.44	55.80	56.40	-1.08%	2.48	24.90	24.80	-0.40%	N/A	N/A	N/A	N/A
AM13	2600	HEAD	10/02/2024	21.6	21.6	0.10	1042	7662	1683	5.66	55.80	55.80	0.00%	2.49	24.90	24.80	-0.40%	N/A	N/A	N/A	N/A
H	3000	HEAD	09/16/2024	21.9	20.8	0.10	1097	7488	1415	6.75	65.40	67.50	-3.21%	2.58	24.70	25.80	-4.40%	N/A	N/A	N/A	N/A
L	3000	HEAD	09/18/2024	20.7	20.5	0.10	1097	7660	1678	6.82	65.40	69.10	-5.81%	2.60	24.70	26.40	-6.88%	N/A	N/A	N/A	N/A
H	3000	HEAD	09/18/2024	22.7	21.3	0.10	1097	7488	1415	6.41	65.40	64.10	-1.99%	2.47	24.70	24.70	0.00%	N/A	N/A	N/A	N/A
K4	3000	HEAD	09/23/2024	22.0	19.1	0.10	1068	7560	1466	6.03	65.30	69.10	-7.95%	2.33	24.70	23.10	-6.48%	N/A	N/A	N/A	N/A
H	3000	HEAD	10/16/2024	21.5	20.5	0.10	1097	7488	1415	6.47	65.40	64.70	-1.07%	2.50	24.70	25.00	-1.21%	N/A	N/A	N/A	N/A
H	3700	HEAD	09/16/2024	21.9	20.8	0.10	1067	7488	1415	6.86	66.90	68.60	-2.54%	2.55	24.30	25.50	-4.94%	N/A	N/A	N/A	N/A
L	3700	HEAD	09/18/2024	20.7	20.5	0.10	1067	7660	1678	6.80	66.90	66.00	-0.45%	2.47	24.30	24.70	-1.65%	N/A	N/A	N/A	N/A
H	3700	HEAD	09/23/2024	22.7	21.3	0.10	1067	7488	1415	6.90	66.90	69.00	-3.14%	2.57	24.30	25.70	-5.38%	N/A	N/A	N/A	N/A
K4	3700	HEAD	09/23/2024	22.0	19.1	0.10	1029	7560	1466	6.31	67.50	63.10	-6.24%	2.34	24.50	23.40	-4.49%	N/A	N/A	N/A	N/A
H	3900	HEAD	09/16/2024	20.7	20.5	0.10	1056	7488	1415	8.60	68.20	68.90	-1.03%	2.62	24.80	24.80	0.00%	N/A	N/A	N/A	N/A
H	3900	HEAD	09/18/2024	22.7	21.3	0.10	1073	7488	1415	7.05	68.50	70.50	-1.44%	2.49	24.30	24.90	-2.47%	N/A	N/A	N/A	N/A
K5	5250	HEAD	09/23/2024	21.5	20.2	0.05	1237	7402	1502	3.71	89.10	74.20	-17.37%	1.06	22.90	21.20	-7.42%	N/A	N/A	N/A	N/A
K5	5400	HEAD	09/23/2024	21.5	20.2	0.05	1237	7402	1502	4.01	82.00	80.20	-2.20%	1.14	23.30	21.80	-6.41%	N/A	N/A	N/A	N/A
K5	5750	HEAD	09/23/2024	21.5	20.2	0.05	1217	7402	1500	3.88.8</											

11.3 Power Density Test System Verification

The system was verified to be within ± 0.66 dB of the power density targets on the calibration certificate according to the test system specification in the user's manual and calibration facility recommendation. The 0.66 dB deviation threshold represents the expanded uncertainty for system performance checks using SPEAG's mmWave verification sources. The same spatial resolution and measurement region used in the source calibration was applied during the system check.

The measured power density distribution of verification source was also confirmed through visual inspection to have no noticeable differences, both spatially (shape) and numerically (level) from the distribution provided by the manufacturer, per November 2017 TCBC Workshop Notes.

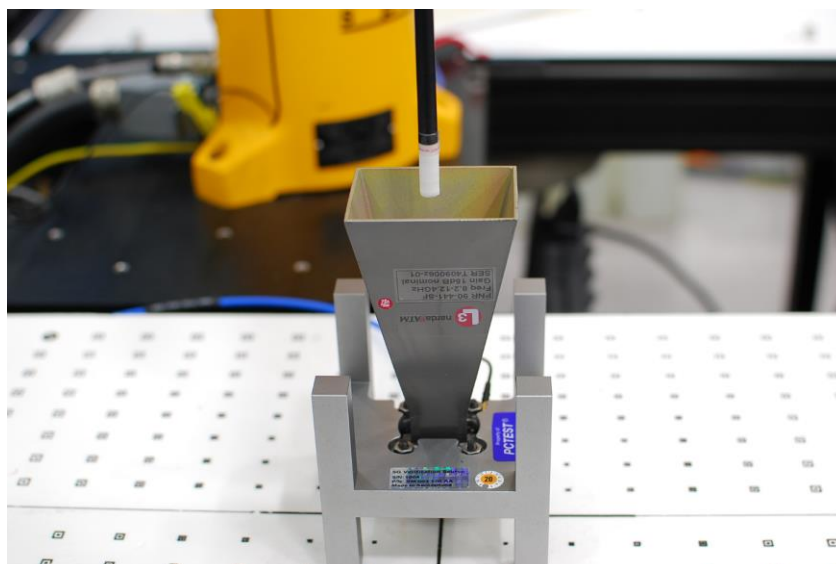


Figure 11-3
System Verification Setup Photo

Table 11-7
10 GHz Verifications

System Verification											
System	Frequency (GHz)	Date	Source S/N	Probe S/N	Prad (mW)	Normal psPD (W/m ² over 4 cm ²)		Deviation (dB)	Total psPD (W/m ² over 4 cm ²)		Deviation (dB)
						Measured	Target		Measured	Target	
Q	10	10/04/2023	1002	9622	93.3	59.90	54.60	0.40	60.30	54.90	0.41
R	10	10/14/2024	1002	9421	93.3	47.20	54.60	-0.63	47.40	54.90	-0.64

Note: A **10 mm distance spacing** was used from the reference horn antenna aperture to the probe element.

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12 SAR DATA SUMMARY

12.1 GSM 850 Standalone SAR

Table 12-1

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Head	GSM 850	GSM	A	0015M	1:8.3	0.07	836.60	190	33.5	33.24	Right Cheek	0	0.058	1.062	0.062	0.223	0.202		36.4		
Head	GSM 850	GSM	A	0015M	1:8.3	-0.02	836.60	190	33.5	33.24	Right Tilt	0	0.034	1.062	0.036	0.189	0.118		35.7	31.5	
Head	GSM 850	GSM	A	0015M	1:8.3	0.02	836.60	190	33.5	33.24	Left Cheek	0	0.067	1.062	0.071	0.373	0.233		35.7		
Head	GSM 850	GSM	A	0015M	1:8.3	-0.03	836.60	190	33.5	33.24	Left Tilt	0	0.040	1.062	0.042	0.223	0.139		38.0		
ANSI/IEEE CS95.1 1992 - SAFETY LIMIT																					
Spatial Peak											Head										
Uncontrolled Exposure/General Population											1.6 W/kg (mW/g) averaged over 1 gram										

Table 12-2

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Head	GSM 850	GSM	E	0015M	1:8.3	0.02	848.80	251	30.5	29.43	Right Cheek	0	0.507	1.279	0.648	0.648	0.405		23.1		
Head	GSM 850	GSM	E	0015M	1:8.3	-0.03	848.80	251	30.5	29.43	Right Tilt	0	0.442	1.279	0.565	0.565	0.353		23.7	22.3	20.3
Head	GSM 850	GSM	E	0015M	1:8.3	0.03	848.80	251	30.5	29.43	Left Cheek	0	0.614	1.279	0.785	0.785	0.491		22.3		
Head	GSM 850	GSM	E	0015M	1:8.3	0.03	848.80	251	30.5	29.43	Left Tilt	0	0.616	1.279	0.788	0.788	0.493	A1	22.3		
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 12-3

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Body-Worn/Hotspot	GPRS 850	GPRS 3 Tx Slots	A	0015M	1:2.76	0.05	836.60	190	30.5	29.77	Back	10	0.214	1.183	0.253	0.580	0.363		32.0	32.0	29.7
Hotspot	GPRS 850	GPRS 3 Tx Slots	A	0015M	1:2.76	0.00	836.60	190	30.5	29.77	Front	10	0.104	1.183	0.123	0.282	0.176	35.1			
Hotspot	GPRS 850	GPRS 3 Tx Slots	A	0015M	1:2.76	0.02	836.60	190	30.5	29.77	Bottom	10	0.045	1.183	0.053	0.122	0.076	38.8			
Hotspot	GPRS 850	GPRS 3 Tx Slots	A	0015M	1:2.76	-0.02	836.60	190	30.5	29.77	Right	10	0.079	1.183	0.093	0.214	0.134	36.3			
Hotspot	GPRS 850	GPRS 3 Tx Slots	A	0015M	1:2.76	-0.04	836.60	190	30.5	29.77	Left	10	0.081	1.183	0.096	0.220	0.138	36.2			
ANSI/IEEE CS95.1 1992 - SAFETY LIMIT												Body									
Spatial Peak												1.6 W/kg (mW/g)									
Uncontrolled Exposure/General Population												averaged over 1 gram									

Table 12-4

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift (dB)	Frequency (MHz)	Channel #	Max Allowed Power (dBm)	Conducted Power (dBm)	Test Position	Spacing (mm)	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit (dBm)	Overall Plimit (dBm)	EFS Plimit (dBm)
Body-Worn/Hotspot	GPRS 850	GPRS 3 Tx Slots	E	0015M	1:2.76	-0.02	836.60	190	30.5	29.77	Back	10	0.277	1.183	0.328	0.474	0.296	A2	30.9	29.0	27.7
Hotspot	GPRS 850	GPRS 3 Tx Slots	E	0015M	1:2.76	-0.02	836.60	190	30.5	29.77	Front	10	0.361	1.183	0.427	0.617	0.386		29.7		
Hotspot	GPRS 850	GPRS 3 Tx Slots	E	0015M	1:2.76	-0.20	836.60	190	30.5	29.77	Top	10	0.428	1.183	0.508	0.734	0.459	A3	29.0		
Hotspot	GPRS 850	GPRS 3 Tx Slots	E	0015M	1:2.76	-0.03	836.60	190	30.5	29.77	Right	10	0.239	1.183	0.283	0.405	0.256		31.5		
ANSI/IEEE CS95.1 1992 - SAFETY LIMIT																					
Spatial Peak												Body									
Uncontrolled Exposure/General Population												1.6 W/kg (mW/g) averaged over 1 gram									

12.2 GSM 1900 Standalone SAR

Table 12-5

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift (dB)	Frequency (MHz)	Channel #	Max Allowed Power (dBm)	Conducted Power (dBm)	Test Position	Spacing (mm)	Measured 1g SAR (W/kg)	Power Scaling Factor	Reported 1g SAR (W/kg)	Adjusted 1g SAR (W/kg)	Exposure Ratio (1g SAR)	Plot #	Plimit (dBm)	Overall Plimit (dBm)	EFS Plimit (dBm)
Head	GSM 1900	GSM	A	0015M	1:8.3	0.01	1909.80	810	30.5	29.70	Right Cheek	0	0.058	1.202	0.070	0.392	0.245	A4	32.8		
Head	GSM 1900	GSM	A	0015M	1:8.3	0.05	1909.80	810	30.5	29.70	Right Tilt	0	0.021	1.202	0.025	0.142	0.089		37.2	32.8	28.8
Head	GSM 1900	GSM	A	0015M	1:8.3	-0.07	1909.80	810	30.5	29.70	Left Cheek	0	0.038	1.202	0.046	0.257	0.161		34.7		
Head	GSM 1900	GSM	A	0015M	1:8.3	-0.13	1909.80	810	30.5	29.70	Left Tilt	0	0.037	1.202	0.044	0.250	0.156		34.8		
ANSI/IEEE CS95.1 1992 - SAFETY LIMIT												Head									
Spatial Peak												1.6 W/kg (mW/g)									
Uncontrolled Exposure/General Population												averaged over 1 gram									

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Table 12-6

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Body-worn/Hotspot	GPRS 1900	GPRS 4 Tx Slots	A	0015M	1:2.076	-0.06	1850.20	512	23.0	21.75	Back	10	0.286	1.334	0.382	0.382	0.239	A5	24.0	21.7	18.8
Hotspot	GPRS 1900	GPRS 4 Tx Slots	A	0015M	1:2.076	-0.06	1850.20	512	23.0	21.75	Front	10	0.245	1.334	0.327	0.327	0.204		24.6		
Hotspot	GPRS 1900	GPRS 4 Tx Slots	A	0015M	1:2.076	0.01	1850.20	512	23.0	21.75	Bottom	10	0.482	1.334	0.643	0.643	0.402	A6	21.7		
Hotspot	GPRS 1900	GPRS 4 Tx Slots	A	0015M	1:2.076	-0.04	1850.20	512	23.0	21.75	Right	10	0.033	1.334	0.044	0.044	0.028		33.3		
Hotspot	GPRS 1900	GPRS 4 Tx Slots	A	0015M	1:2.076	0.01	1850.20	512	23.0	21.75	Left	10	0.035	1.334	0.047	0.047	0.029		33.1		
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population												Body 1.6 W/kg (mW/g) averaged over 1 gram									

12.3 UMTS 850 Standalone SAR

Table 12-7

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]	
Head	UMTS 850	RMC	A	0015M	1:1	-0.06	836.60	4183	25.0	23.79	Right Cheek	0	63	0.096	1.321	0.127	0.319	0.199		33.9			
Head	UMTS 850	RMC	A	0015M	1:1	0.00	836.60	4183	25.0	23.79	Right Tilt	0	63	0.056	1.321	0.074	0.186	0.116		36.3	33.4	29.0	
Head	UMTS 850	RMC	A	0015M	1:1	0.02	836.60	4183	25.0	23.79	Left Cheek	0	63	0.109	1.321	0.144	0.362	0.226		33.4			
Head	UMTS 850	RMC	A	0015M	1:1	0.02	836.60	4183	25.0	23.79	Left Tilt	0	63	0.054	1.321	0.071	0.179	0.112		36.4			
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																							
Spatial Peak												Head											
Uncontrolled Exposure/General Population												1.6 W/kg (mW/g) averaged over 1 gram											

Table 12-8

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift (dB)	Frequency [MHz]	Channel #	Max Allowed Power [W/kg]	Conducted Power (dBm)	Test Position	Spacing (mm)	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Head	UMTS 850	RMC	E	0015M	1:1	0.03	836.60	4183	21.5	20.93	Right Cheek	0	0.593	1.140	0.676	0.676	0.423		23.1		
Head	UMTS 850	RMC	E	0015M	1:1	0.05	836.60	4183	21.5	20.93	Right Tilt	0	0.548	1.140	0.625	0.625	0.391		23.5		
Head	UMTS 850	RMC	E	0015M	1:1	0.01	826.40	4132	21.5	20.88	Left Cheek	0	0.868	1.153	1.001	1.001	0.626		21.4		
Head	UMTS 850	RMC	E	0015M	1:1	0.01	836.60	4183	21.5	20.93	Left Cheek	0	0.895	1.140	1.020	1.020	0.638	A7	21.4	21.4	20.5
Head	UMTS 850	RMC	E	0015M	1:1	0.01	836.60	4183	21.5	20.93	Left Cheek	0	0.846	1.140	1.012	1.012	0.633		21.4		
Head	UMTS 850	RMC	E	0015M	1:1	0.02	846.60	4233	21.5	20.86	Left Cheek	0	0.846	1.159	0.981	0.981	0.613		21.5		
Head	UMTS 850	RMC	E	0015M	1:1	0.03	836.60	4183	21.5	20.93	Left Tilt	0	0.675	1.140	0.770	0.770	0.481		22.6		
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: Blue entry represents variability measurement																					

Note: Blue entry represents variability measurement

Table 12-9

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Body-worn/Hotspot	UMTS 850	RMC	A	0015M	1:1	0.01	836.60	4183	25.0	23.79	Back	10	133	0.206	1.321	0.272	0.335	0.209		30.6		
Hotspot	UMTS 850	RMC	A	0015M	1:1	-0.05	836.60	4183	25.0	23.79	Front	10	63	0.145	1.321	0.192	0.236	0.148		32.1		
Hotspot	UMTS 850	RMC	A	0015M	1:1	0.00	836.60	4183	25.0	23.79	Bottom	10	133	0.063	1.321	0.083	0.102	0.064		35.7	30.6	25.9
Hotspot	UMTS 850	RMC	A	0015M	1:1	0.05	836.60	4183	25.0	23.79	Right	10	133	0.111	1.321	0.147	0.180	0.113		33.3		
Hotspot	UMTS 850	RMC	A	0015M	1:1	0.09	836.60	4183	25.0	23.79	Left	10	63	0.111	1.321	0.147	0.180	0.113		33.3		
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																						
Spatial Peak																						
Uncontrolled Exposure/General Population												Body 1.6 W/kg (mW/g) averaged over 1 gram										

Table 12-10

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift (dB)	Frequency (MHz)	Channel #	Max Allowed Power (dBm)	Conducted Power (dBm)	Test Position	Spacing (mm)	Measured 1g SAR (W/kg)	Power Scaling Factor	Reported 1g SAR (W/kg)	Adjusted 1g SAR (W/kg)	Exposure Ratio (1g SAR)	Plot #	Plimit (dBm)	Overall Plimit (dBm)	EFS Plimit (dBm)
Body-worn/Hotspot	UMTS 850	RMC	E	0015M	1:1	0.02	836.60	4183	25.0	24.32	Back	10	0.425	1.169	0.497	0.770	0.481	A8	28.0		
Hotspot	UMTS 850	RMC	E	0015M	1:1	0.02	836.60	4183	25.0	24.32	Front	10	0.460	1.169	0.538	0.833	0.521		27.6	27.3	26.9
Hotspot	UMTS 850	RMC	E	0015M	1:1	0.00	836.60	4183	25.0	24.32	Top	10	0.498	1.169	0.582	0.902	0.564	A9	27.3		
Hotspot	UMTS 850	RMC	E	0015M	1:1	-0.05	836.60	4183	25.0	24.32	Right	10	0.296	1.169	0.346	0.536	0.335		29.6		
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																					
Spatial Peak												Body									
Uncontrolled Exposure/General Population												1.6 W/kg (mW/g) averaged over 1 gram									

12.4 UMTS 1750 Standalone SAR

Table 12-11

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift (dB)	Frequency (MHz)	Channel #	Max Allowed Power (dBm)	Conducted Power (dBm)	Test Position	Spacing (mm)	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit (dBm)	Overall Plimit (dBm)	EFS Plimit (dBm)
Head	UMTS 1750	RMC	A	0015M	1:1	0.06	1752.60	1513	24.0	23.27	Right Cheek	0	99	0.098	1.183	0.116	0.402	0.251	A10	33.3		
Head	UMTS 1750	RMC	A	0015M	1:1	-0.15	1752.60	1513	24.0	23.27	Right Tilt	0	99	0.053	1.183	0.063	0.217	0.136		36.0	33.3	29.4
Head	UMTS 1750	RMC	A	0015M	1:1	0.01	1752.60	1513	24.0	23.27	Left Cheek	0	99	0.064	1.183	0.076	0.263	0.164		35.2		
Head	UMTS 1750	RMC	A	0015M	1:1	-0.03	1752.60	1513	24.0	23.27	Left Tilt	0	99	0.047	1.183	0.056	0.193	0.121		36.5		
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																						
Spatial Peak														Head								
Uncontrolled Exposure/General Population														1.6 W/kg (mW/g) averaged over 1 gram								

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Table 12-12

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Pilot #	Pilmit [dBm]	Overall Pilmit [dBm]	EF5 Pilmit [dBm]		
Body-worn/Hotspot	UMTS 1750	RMC	A	0015M	1:1	0.01	1752.60	1513	20.0	19.69	Back	10	99	0.599	1.074	0.643	0.643	0.402	A11	21.9	19.9	19.0		
Hotspot	UMTS 1750	RMC	A	0015M	1:1	-0.01	1752.60	1513	20.0	19.69	Front	10	99	0.422	1.074	0.453	0.453	0.283		23.4				
Hotspot	UMTS 1750	RMC	A	0015M	1:1	-0.01	1712.40	1312	20.0	19.56	Bottom	10	107	0.852	1.107	0.943	0.943	0.589		20.2				
Hotspot	UMTS 1750	RMC	A	0015M	1:1	0.01	1752.40	1412	20.0	19.64	Bottom	10	101	0.822	1.086	0.893	0.893	0.558		20.4				
Hotspot	UMTS 1750	RMC	A	0015M	1:1	0.00	1752.60	1513	20.0	19.69	Bottom	10	99	0.938	1.074	1.007	1.007	0.629	A12	19.9				
Hotspot	UMTS 1750	RMC	A	0015M	1:1	-0.01	1752.60	1513	20.0	19.69	Right	10	99	0.083	1.074	0.089	0.089	0.056		30.4				
Hotspot	UMTS 1750	RMC	A	0015M	1:1	0.03	1752.60	1513	20.0	19.69	Left	10	99	0.062	1.074	0.067	0.067	0.042		31.7				
ANS/IEEE C63.1.1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population												Body 1.6 W/kg (mW/g) averaged over 1 gram												

12.5 UMTS 1900 Standalone SAR

Table 12-13

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Pilot #	Pilmit [dBm]	Overall Pilmit [dBm]	EF5 Pilmit [dBm]
Head	UMTS 1900	RMC	A	0015M	1:1	-0.02	1907.60	9538	24.0	23.19	Right Cheek	0	115	0.095	1.205	0.114	0.362	0.226	A13	33.4	33.4	29.0
Head	UMTS 1900	RMC	A	0015M	1:1	0.05	1907.60	9538	24.0	23.19	Right Tilt	0	115	0.034	1.205	0.041	0.130	0.081		37.8		
Head	UMTS 1900	RMC	A	0015M	1:1	-0.03	1907.60	9538	24.0	23.19	Left Cheek	0	115	0.080	1.205	0.096	0.305	0.191		34.1		
Head	UMTS 1900	RMC	A	0015M	1:1	0.01	1907.60	9538	24.0	23.19	Left Tilt	0	115	0.065	1.205	0.078	0.248	0.155		35.0		
ANSI/IEEE C63.1.1992 - SAFETY LIMIT																						
Spatial Peak																						
Uncontrolled Exposure/General Population																						
Head												1.6 W/kg (mW/g) averaged over 1 gram										

Table 12-14

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Pilot #	Pilmit [dBm]	Overall Pilmit [dBm]	EF5 Pilmit [dBm]
Body-worn/Hotspot	UMTS 1900	RMC	A	0015M	1:1	-0.02	1907.60	9538	19.0	18.52	Back	10	112	0.496	1.117	0.554	0.554	0.346	A14	21.5	18.7	18.0
Hotspot	UMTS 1900	RMC	A	0015M	1:1	0.01	1907.60	9538	19.0	18.52	Front	10	112	0.380	1.117	0.424	0.424	0.265		22.7		
Hotspot	UMTS 1900	RMC	A	0015M	1:1	0.01	1852.40	9262	19.0	18.49	Bottom	10	99	0.897	1.125	1.009	1.009	0.631		18.9		
Hotspot	UMTS 1900	RMC	A	0015M	1:1	-0.02	1880.00	9400	19.0	18.50	Bottom	10	46	0.889	1.122	0.997	0.997	0.623		19.0		
Hotspot	UMTS 1900	RMC	A	0015M	1:1	-0.02	1907.60	9538	19.0	18.52	Bottom	10	49	0.943	1.117	1.053	1.053	0.658	A15	18.7		
Hotspot	UMTS 1900	RMC	A	0015M	1:1	0.05	1907.60	9538	19.0	18.52	Bottom	10	49	0.951	1.117	1.051	1.051	0.657		18.7		
Hotspot	UMTS 1900	RMC	A	0015M	1:1	-0.04	1907.60	9538	19.0	18.52	Right	10	52	0.036	1.117	0.040	0.040	0.025		32.9	32.2	29.0
Hotspot	UMTS 1900	RMC	A	0015M	1:1	-0.03	1907.60	9538	19.0	18.52	Left	10	115	0.042	1.117	0.047	0.047	0.029		32.2		
ANS/IEEE C63.1.1992 - SAFETY LIMIT																						
Spatial Peak																						
Uncontrolled Exposure/General Population																						
Body																						
1.6 W/kg (mW/g)																						
averaged over 1 gram																						

Note: Blue entry represents variability measurement

12.6 LTE Band 71 Standalone SAR

Table 12-15

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Pilot #	Pilmit [dBm]	Overall Pilmit [dBm]	EF5 Pilmit [dBm]
Head	LTE Band 71	20	QPSK	A	0129M	1:1	0.04	680.50	133297	0.0	25.0	21.08	1	50	Right Cheek	0	28	0.128	1.236	0.158	0.362	0.226		33.0	33.0	28.6
Head	LTE Band 71	20	QPSK	A	0129M	1:1	0.08	680.50	133297	0.0	24.0	21.92	50	50	Right Cheek	0	137	0.085	1.282	0.122	0.351	0.219		33.1		
Head	LTE Band 71	20	QPSK	A	0056M	1:1	0.19	680.50	133297	0.0	25.0	21.08	1	50	Right Tilt	0	28	0.049	1.236	0.061	0.339	0.087		37.3		
Head	LTE Band 71	20	QPSK	A	0056M	1:1	0.01	680.50	133297	1.0	24.0	21.92	50	50	Right Tilt	0	28	0.056	1.282	0.054	0.348	0.093		36.6		
Head	LTE Band 71	20	QPSK	A	0129M	1:1	0.05	680.50	133297	0.0	25.0	21.08	1	50	Left Cheek	0	28	0.148	1.236	0.158	0.362	0.226		33.0		
Head	LTE Band 71	20	QPSK	A	0129M	1:1	0.06	680.50	133297	0.0	24.0	21.92	50	50	Left Cheek	0	28	0.085	1.282	0.109	0.314	0.126		33.6		
Head	LTE Band 71	20	QPSK	A	0016M	1:1	0.07	680.50	133297	0.0	25.0	21.08	1	50	Left Tilt	0	28	0.049	1.236	0.061	0.339	0.087		37.3		
Head	LTE Band 71	20	QPSK	A	0016M	1:1	0.09	680.50	133297	1.0	24.0	21.92	50	50	Left Tilt	0	28	0.059	1.282	0.046	0.313	0.083		37.3		
ANS/IEEE C63.1.1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																										
																		Head 1.6 W/kg (mW/g) averaged over 1 gram								

Table 12-16

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Pilot #	Pilmit [dBm]	Overall Pilmit [dBm]	EF5 Pilmit [dBm]	
Head	LTE Band 71	20	QPSK	E	0095M	1:1	-0.04	680.50	133297	0.0	22.5	21.36	1	50	Right Cheek	0	0.407	1.300	0.555	0.555	0.347		25.0	22.7	21.5	
Head	LTE Band 71	20	QPSK	E	0095M	1:1	-0.06	680.50	133297	0.0	22.5	21.26	50	0	Right Cheek	0	0.404	1.300	0.551	0.551	0.344		25.0			
Head	LTE Band 71	20	QPSK	E	0095M	1:1	-0.01	680.50	133297	0.0	22.5	21.36	1	50	Right Tilt	0	0.426	1.300	0.554	0.554	0.346		25.0			
Head	LTE Band 71	20	QPSK	E	0095M	1:1	-0.01	680.50	133297	0.0	22.5	21.26	50	0	Right Tilt	0	0.422	1.300	0.561	0.561	0.351		25.0			
Head	LTE Band 71	20	QPSK	E	0129M	1:1	0.04	680.50	133297	0.0	22.5	21.38	1	50	Left Cheek	0	0.706	1.300	0.944	0.944	0.590	A16	22.7			
Head	LTE Band 71	20	QPSK	E	0129M	1:1	0.08	680.50	133297	0.0	22.5	21.26	50	0	Left Cheek	0	0.701	1.300	0.932	0.932	0.583		22.8			
Head	LTE Band 71	20	QPSK	E	0129M	1:1	0.10	680.50	133297	0.0	22.5	21.23	100	0	Left Cheek	0	0.683	1.340	0.915	0.915	0.572		22.8			
Head	LTE Band 71	20	QPSK	E	0129M	1:1	0.07	680.50	133297	0.0	22.5	21.26	1	50	Left Tilt	0	0.470	1.300	0.873	0.873	0.544		23.0			
Head	LTE Band 71	20	QPSK	E	0129M	1:1	0.13	680.50	133297	0.0	22.5	21.26	50	0	Left Tilt	0	0.685	1.300	0.884	0.884	0.553		23.0			
Head	LTE Band 71	20	QPSK	E	0129M	1:1	0.13	680.50	133297	0.0	22.5	21.23	100	0	Left Tilt	0	0.633	1.340	0.848	0.848	0.530		23.2			
ANS/IEEE C63.1.1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																										
Head 1.6 W/kg (mW/g) averaged over 1 gram																										

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Table 12-17

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio [1g SAR]	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]
Body-worn/Hotspot	LTE Band 71	20	QPSK	A	0129M	1:1	-0.06	680.50	133297	0.0	25.0	24.08	1	50	Back	10	137	0.129	1.236	0.283	0.470	0.294		30.4		
Body-worn/Hotspot	LTE Band 71	20	QPSK	A	0129M	1:1	-0.02	680.50	133297	0.0	25.0	22.92	50	50	Back	10	137	0.178	1.282	0.228	0.477	0.298		30.4		
Hotspot	LTE Band 71	20	QPSK	A	0095M	1:1	-0.05	680.50	133297	0.0	25.0	24.08	1	50	Front	10	137	0.129	1.236	0.199	0.265	0.166		32.9		
Hotspot	LTE Band 71	20	QPSK	A	0095M	1:1	-0.09	680.50	133297	1.0	24.0	22.92	50	50	Front	10	137	0.082	1.282	0.105	0.220	0.138		33.7		
Hotspot	LTE Band 71	20	QPSK	A	0095M	1:1	0.13	680.50	133297	0.0	25.0	24.08	1	50	Bottom	10	137	0.085	1.236	0.043	0.072	0.045		38.6		
Hotspot	LTE Band 71	20	QPSK	A	0095M	1:1	-0.02	680.50	133297	1.0	24.0	22.92	50	50	Bottom	10	137	0.028	1.282	0.036	0.075	0.047		38.4		
Hotspot	LTE Band 71	20	QPSK	A	0129M	1:1	-0.06	680.50	133297	0.0	25.0	24.08	1	50	Right	10	137	0.208	1.236	0.282	0.468	0.293		30.3		
Hotspot	LTE Band 71	20	QPSK	A	0129M	1:1	-0.01	680.50	133297	1.0	24.0	22.92	50	50	Right	10	137	0.168	1.282	0.215	0.450	0.281		30.6		
Hotspot	LTE Band 71	20	QPSK	A	0129M	1:1	-0.03	680.50	133297	0.0	25.0	24.08	1	50	Left	10	27	0.171	1.236	0.211	0.351	0.229		31.7		
Hotspot	LTE Band 71	20	QPSK	A	0129M	1:1	-0.09	680.50	133297	1.0	24.0	22.92	50	50	Left	10	27	0.134	1.282	0.172	0.359	0.224		31.6		
ANS/IEEE C95.1 D902 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																								Body 1.6 W/kg (mW/g) averaged over 1 gram		

Table 12-18

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio [1g SAR]	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]
Body-worn/Hotspot	LTE Band 71	20	QPSK	E	0095M	1:1	-0.01	680.50	133297	0.0	25.0	24.49	1	0	Back	10	124	0.427	1.125	0.480	0.761	0.476	A17	28.1		
Body-worn/Hotspot	LTE Band 71	20	QPSK	E	0095M	1:1	0.01	680.50	133297	1.0	24.0	22.94	35	12	Right Cheek	0	124	0.406	1.222	0.447	0.802	0.558		27.4		
Hotspot	LTE Band 71	20	QPSK	E	0129M	1:1	0.10	680.50	133297	0.0	25.0	24.49	1	0	Front	10	124	0.333	1.125	0.375	0.993	0.371		29.2		
Hotspot	LTE Band 71	20	QPSK	E	0129M	1:1	0.04	680.50	133297	1.0	24.0	23.13	50	0	Front	10	124	0.287	1.222	0.351	0.700	0.438		28.5		
Hotspot	LTE Band 71	20	QPSK	E	0129M	1:1	-0.08	680.50	133297	0.0	25.0	24.49	1	0	Top	10	124	0.437	1.125	0.413	0.654	0.409		28.8		
Hotspot	LTE Band 71	20	QPSK	E	0129M	1:1	-0.02	680.50	133297	1.0	24.0	23.13	50	0	Top	10	124	0.321	1.222	0.392	0.783	0.489		28.0		
Hotspot	LTE Band 71	20	QPSK	E	0129M	1:1	-0.02	680.50	133297	0.0	25.0	24.49	1	0	Right	10	124	0.312	1.125	0.351	0.556	0.348		29.5		
Hotspot	LTE Band 71	20	QPSK	E	0129M	1:1	-0.04	680.50	133297	1.0	24.0	23.13	50	0	Right	10	124	0.267	1.222	0.326	0.651	0.407		28.8		
ANS/IEEE C95.1 D902 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																								Body 1.6 W/kg (mW/g) averaged over 1 gram		

12.7 LTE Band 12 Standalone SAR

Table 12-19

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio [1g SAR]	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]
Head	LTE Band 12	10	QPSK	A	0129M	1:1	0.01	707.50	23095	0.0	25.0	24.01	1	25	Right Cheek	0	124	0.139	1.256	0.175	0.391	0.244		32.5		
Head	LTE Band 12	10	QPSK	A	0129M	1:1	-0.04	707.50	23095	1.0	24.0	22.94	35	12	Right Cheek	0	124	0.101	1.376	0.124	0.278	0.236		32.2		
Head	LTE Band 12	10	QPSK	A	0095M	1:1	-0.06	707.50	23095	0.0	25.0	24.01	1	25	Right Tilt	0	124	0.063	1.256	0.079	0.177	0.111		36.0		
Head	LTE Band 12	10	QPSK	A	0095M	1:1	0.08	707.50	23095	1.0	24.0	22.94	25	12	Right Tilt	0	124	0.060	1.276	0.054	0.180	0.113		32.8		
Head	LTE Band 12	10	QPSK	A	0129M	1:1	-0.08	707.50	23095	0.0	25.0	24.01	1	25	Left Cheek	0	124	0.110	1.222	0.166	0.371	0.332		32.8		
Head	LTE Band 12	10	QPSK	A	0129M	1:1	0.07	707.50	23095	1.0	24.0	22.94	25	12	Left Cheek	0	124	0.101	1.276	0.129	0.303	0.227		32.5		
Head	LTE Band 12	10	QPSK	A	0095M	1:1	-0.05	707.50	23095	0.0	25.0	24.01	1	25	Left Tilt	0	124	0.060	1.256	0.075	0.169	0.106		36.2		
Head	LTE Band 12	10	QPSK	A	0095M	1:1	-0.11	707.50	23095	1.0	24.0	22.94	25	12	Left Tilt	0	124	0.046	1.276	0.061	0.173	0.108		36.1		
ANS/IEEE C95.1 D902 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																								Head 1.6 W/kg (mW/g) averaged over 1 gram		

Table 12-20

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio [1g SAR]	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]
Head	LTE Band 12	10	QPSK	E	0095M	1:1	-0.01	707.50	23095	0.0	22.5	21.34	1	25	Right Cheek	0	124	0.460	1.306	0.601	0.601	0.376		24.7		
Head	LTE Band 12	10	QPSK	E	0095M	1:1	-0.01	707.50	23095	0.0	22.5	21.34	25	12	Right Cheek	0	124	0.460	1.318	0.605	0.605	0.378		24.6		
Head	LTE Band 12	10	QPSK	E	0095M	1:1	0.01	707.50	23095	0.0	22.5	21.34	1	25	Right Tilt	0	124	0.448	1.306	0.585	0.585	0.366		24.8		
Head	LTE Band 12	10	QPSK	E	0095M	1:1	0.02	707.50	23095	0.0	22.5	21.34	25	12	Right Tilt	0	124	0.420	1.318	0.593	0.593	0.371		24.7		
Head	LTE Band 12	10	QPSK	E	0129M	1:1	-0.01	707.50	23095	0.0	22.5	21.34	1	25	Left Cheek	0	124	0.467	1.306	0.606	0.606	0.366		24.7		
Head	LTE Band 12	10	QPSK	E	0129M	1:1	0.11	707.50	23095	0.0	22.5	21.34	25	12	Left Cheek	0	124	0.401	1.338	1.054	1.054	0.659	A18	22.2		
Head	LTE Band 12	10	QPSK	E	0129M	1:1	0.08	707.50	23095	0.0	22.5	21.34	50	0	Left Cheek	0	124	0.390	1.324	1.046	1.046	0.654		22.3		
Head	LTE Band 12	10	QPSK	E	0129M	1:1	0.17	707.50	23095	0.0	22.5	21.34	1	25	Left Tilt	0	124	0.394	1.306	0.946	0.946	0.591		22.8		
Head	LTE Band 12	10	QPSK	E	0129M	1:1	-0.06	707.50	23095	0.0	22.5	21.34	25	12	Left Tilt	0	124	0.376	1.329	0.934	0.934	0.578		22.8		
Head	LTE Band 12	10	QPSK	E	0129M	1:1	0.13	707.50	23095	0.0	22.5	21.34	50	0	Left Tilt	0	124	0.368	1.324	0.924	0.924	0.570		22.8		
ANS/IEEE C95.1 D902 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																								Head 1.6 W/kg (mW/g) averaged over 1 gram		

Table 12-21

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio [1g SAR]	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]	
Body-worn/Hotspot	LTE Band 12	10	QPSK	A	0129M	1:1	-0.02	707.50	23095	0.0	25.0	24.01	1	25	Back	10	124	0.235	1.256	0.295	0.468	0.293		30.3			
Body-worn/Hotspot	LTE Band 12	10	QPSK	A	0129M	1:1	0.01	707.50	23095	1.0	24.0	22.94	25	12	Back	10	124	0.183	1.276	0.234	0.466	0.291		30.3			
Hotspot	LTE Band 12	10	QPSK	A	0095M	1:1	-0.02	707.50	23095	0.0	25.0	24.01	1	25	Front	10	124	0.124	1.256	0.156	0.247	0.154		33.0			
Hotspot	LTE Band 12	10	QPSK	A	0095M	1:1	-0.02	707.50	23095	1.0	24.0	22.94	25	12	Front	10	124	0.098	1.276	0.125	0.250	0.156		33.0			
Hotspot	LTE Band 12	10	QPSK	A	0095M	1:1	0.09	707.50	23095	0.0	25.0	24.01	1	25	Bottom	10	124	0.041	1.256	0.031	0.082	0.051		37.8			
Hotspot	LTE Band 12	10	QPSK	A	0095M	1:1	-0.20	707.50	23095	1.0	24.0	22.94	25	12	Bottom	10	124	0.030	1.276	0.038	0.076	0.048		38.1			
Hotspot	LTE Band 12	10	QPSK	A	0129M	1:1	-0.03	707.50	23095	0.0	25.0	24.01	1	25	Right	10	124	0.203	1.256	0.256	0.404	0.243		30.9			
Hotspot	LTE Band 12	10	QPSK	A	0129M	1:1	-0.06	707.50	23095	1.0	24.0	22.94	25	12	Right	10	124	0.133	1.276	0.196	0.395	0.247		31.0			
Hotspot	LTE Band 12	10	QPSK	A	0129M	1:1	-0.19	707.50	23095	1.0	24.0	22.94	25	12	Left	10	124	0.183	1.276	0.234	0.466	0.291		30.3			
Hotspot	LTE Band 12	10	QPSK	A	0129M	1:1	-0.08	707.50	23095	1.0	24.0	22.94	25	12	Left	10	124	0.138	1.276	0.177	0.334	0.221		31.5			
ANSI/IEEE C63.1 1992 - Safety Limit																		Body									
Uncontrolled Exposure/General Population																		1.6 W/kg (mW/g)									
																		averaged over 1 gram									



12.8 LTE Band 13 Standalone SAR

Table 12-23

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio [1g SAR]	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]
Head	LTE Band 13	10	QPSK	A	0129M	1:1	-0.05	782.00	23230	0.0	25.0	23.85	1	0	Right Cheek	0	0	0.905	1.303	0.137	0.275	0.171		33.0		
Head	LTE Band 13	10	QPSK	A	0129M	1:1	0.08	782.00	23230	1.0	24.0	22.83	25	25	Right Cheek	0	0	0.085	1.309	0.111	0.280	0.175		33.5		
Head	LTE Band 13	10	QPSK	A	0095M	1:1	-0.15	782.00	23230	0.0	25.0	23.85	1	0	Right Tilt	0	0	0.090	1.303	0.036	0.052	0.053		42.8		
Head	LTE Band 13	10	QPSK	A	0095M	1:1	-0.11	782.00	23230	1.0	24.0	22.83	25	25	Right Tilt	0	0	0.058	1.309	0.050	0.125	0.078		37.0		
Head	LTE Band 13	10	QPSK	A	0129M	1:1	0.04	782.00	23230	0.0	25.0	23.85	1	0	Left Cheek	0	0	0.132	1.303	0.172	0.343	0.214		32.6		
Head	LTE Band 13	10	QPSK	A	0129M	1:1	0.06	782.00	23230	1.0	24.0	22.83	25	25	Left Cheek	0	0	0.111	1.309	0.146	0.385	0.238		32.3		
Head	LTE Band 13	10	QPSK	A	0095M	1:1	-0.01	782.00	23230	0.0	25.0	23.85	1	0	Left Tilt	0	0	0.062	1.303	0.081	0.161	0.101		35.5		
Head	LTE Band 13	10	QPSK	A	0095M	1:1	-0.02	782.00	23230	1.0	24.0	22.83	25	25	Left Tilt	0	0	0.083	1.309	0.056	0.141	0.088		36.4		
ANSI/IEEE CS1.1-1987 - SAFETY LIMIT										Spatial Peak										1.6 W/kg (mW/g)						
Uncontrolled Exposure/General Population										Body										averaged over 1 gram						

Table 12-24

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio [1g SAR]	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]
Head	LTE Band 13	10	QPSK	E	0095M	1:1	-0.01	782.00	23230	0.0	22.5	20.95	1	25	Right Cheek	0	0	0.500	1.429	0.786	0.786	0.493		23.5		
Head	LTE Band 13	10	QPSK	E	0095M	1:1	-0.01	782.00	23230	0.0	22.5	21.03	25	12	Right Cheek	0	0	0.643	1.403	0.902	0.902	0.564		22.9		
Head	LTE Band 13	10	QPSK	E	0095M	1:1	0.02	782.00	23230	0.0	22.5	20.96	50	0	Right Cheek	0	0	0.545	1.445	0.788	0.788	0.493		23.5		
Head	LTE Band 13	10	QPSK	E	0095M	1:1	0.07	782.00	23230	0.0	22.5	20.95	1	25	Right Tilt	0	0	0.509	1.429	0.799	0.799	0.499		23.4		
Head	LTE Band 13	10	QPSK	E	0095M	1:1	-0.02	782.00	23230	0.0	22.5	21.03	25	12	Right Tilt	0	0	0.562	1.403	0.788	0.788	0.493		23.5		
Head	LTE Band 13	10	QPSK	E	0129M	1:1	-0.11	782.00	23230	0.0	22.5	20.95	1	25	Left Cheek	0	0	0.842	1.429	1.203	1.203	0.752		21.6		
Head	LTE Band 13	10	QPSK	E	0129M	1:1	-0.09	782.00	23230	0.0	22.5	21.03	25	12	Left Cheek	0	0	0.676	1.403	1.172	1.172	0.733		21.8		
Head	LTE Band 13	10	QPSK	E	0129M	1:1	0.09	782.00	23230	0.0	22.5	20.96	50	0	Left Cheek	0	0	0.845	1.445	1.221	1.221	0.763		21.6		
Head	LTE Band 13	10	QPSK	E	0129M	1:1	0.14	782.00	23230	0.0	22.5	20.95	1	25	Left Tilt	0	0	0.847	1.429	1.210	1.210	0.756		21.6		
Head	LTE Band 13	10	QPSK	E	0129M	1:1	0.14	782.00	23230	0.0	22.5	21.03	25	12	Left Tilt	0	0	0.848	1.403	1.210	1.210	0.756		21.7		
Head	LTE Band 13	10	QPSK	E	0129M	1:1	0.13	782.00	23230	0.0	22.5	20.96	50	0	Left Tilt	0	0	0.870	1.445	1.257	1.257	0.786	A20	21.5		
Head	LTE Band 13	10	QPSK	E	0129M	1:1	0.14	782.00	23230	0.0	22.5	20.96	50	0	Left Tilt	0	0	0.825	1.445	1.192	1.192	0.745		21.7		
ANSI/IEEE CS1.1-1987 - SAFETY LIMIT										Spatial Peak										1.6 W/kg (mW/g)						
Uncontrolled Exposure/General Population										Body										averaged over 1 gram						

Note: Blue entry represents variability measurement

Table 12-25

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio [1g SAR]	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]
Body-worn/Hotspot	LTE Band 13	10	QPSK	A	0129M	1:1	0.00	782.00	23230	0.0	25.0	23.85	1	0	Back	10	0	0.289	1.303	0.377	0.597	0.373		29.2		
Body-worn/Hotspot	LTE Band 13	10	QPSK	A	0129M	1:1	0.00	782.00	23230	1.0	24.0	22.83	25	25	Back	10	0	0.610	1.309	0.308	0.788	0.379		29.3		
Hotspot	LTE Band 13	10	QPSK	A	0129M	1:1	-0.04	782.00	23230	0.0	25.0	23.85	1	0	Front	10	0	0.173	1.303	0.223	0.353	0.221		31.5		
Hotspot	LTE Band 13	10	QPSK	A	0129M	1:1	-0.06	782.00	23230	1.0	24.0	22.83	25	25	Front	10	0	0.130	1.309	0.170	0.340	0.213		31.6		
Hotspot	LTE Band 13	10	QPSK	A	0129M	1:1	-0.01	782.00	23230	0.0	25.0	23.85	1	0	Bottom	10	117	0.090	1.303	0.120	0.190	0.119		34.2		
Hotspot	LTE Band 13	10	QPSK	A	0129M	1:1	-0.01	782.00	23230	1.0	24.0	22.83	25	25	Bottom	10	117	0.069	1.309	0.090	0.180	0.113		34.3		
Hotspot	LTE Band 13	10	QPSK	A	0129M	1:1	-0.06	782.00	23230	0.0	25.0	23.85	1	0	Right	10	0	0.140	1.303	0.182	0.289	0.181		32.4		
Hotspot	LTE Band 13	10	QPSK	A	0129M	1:1	-0.08	782.00	23230	1.0	24.0	22.83	25	25	Right	10	0	0.102	1.309	0.134	0.266	0.166		32.7		
Hotspot	LTE Band 13	10	QPSK	A	0129M	1:1	-0.02	782.00	23230	0.0	25.0	23.85	1	0	Left	10	117	0.189	1.303	0.246	0.390	0.244		31.0		
Hotspot	LTE Band 13	10	QPSK	A	0129M	1:1	-0.03	782.00	23230	1.0	24.0	22.83	25	25	Left	10	117	0.157	1.309	0.206	0.410	0.256		30.8		
ANSI/IEEE CS1.1-1987 - SAFETY LIMIT										Spatial Peak										1.6 W/kg (mW/g)						
Uncontrolled Exposure/General Population										Body										averaged over 1 gram						

Table 12-26

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio [1g SAR]	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]
Body-worn/Hotspot	LTE Band 13	10	QPSK	E	0040M	1:1	-0.11	782.00	23230	0.0	25.0	23.94	1	49	Back	10	0	0.485	1.276	0.619	0.761	0.476	A21	27.0		
Body-worn/Hotspot	LTE Band 13	10	QPSK	E	0040M	1:1	0.01	782.00	23230	1.0	24.0	23.01	25	25	Back	10	0	0.391	1.256	0.491	0.760	0.475		27.0		
Hotspot	LTE Band 13	10	QPSK	E	0129M	1:1	-0.09	782.00	23230	0.0	25.0	23.94	1	49	Front	10	0	0.416	1.276	0.662	0.816	0.509		26.7		
Hotspot	LTE Band 13	10	QPSK	E	0129M	1:1	0.00	782.00	23230	1.0	24.0	23.01	25	25	Front	10	0	0.408	1.256	0.514	0.796	0.488		26.8		
Hotspot	LTE Band 13	10	QPSK	E	0129M	1:1	0.04	782.00	23230	0.0	25.0	23.94	1	49	Top	10	0	0.623	1.276	0.795	0.978	0.611	A22	25.9		
Hotspot	LTE Band 13	10	QPSK	E	0129M	1:1	-0.00	782.00	23230	1.0	24.0	23.01	25	25	Top	10	0	0.494	1.256	0.620	0.961	0.601		26.0		
Hotspot	LTE Band 13	10	QPSK	E	0129M	1:1	0.02	782.00	23230	0.0	25.0	23.94	1	49	Right	10	0	0.512	1.276	0.653	0.804	0.503		26.8		
Hotspot	LTE Band 13	10	QPSK	E	0129M	1:1	0.00	782.00	23230	1.0	24.0	23.01	25	25	Right	10	0	0.417	1.256	0.524	0.811	0.507		26.8		
ANSI/IEEE CS1.1-1987 - SAFETY LIMIT										Spatial Peak										1.6 W/kg (mW/g)						
Uncontrolled Exposure/General Population										Body										averaged over 1 gram						

12.9 LTE Band 14 Standalone SAR

Table 12-27

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio [1g SAR]	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]	
Head	LTE Band 14	10	QPSK	A	0129M	1:1	0.02	793.00	23330	0.0	25.0	23.83	1	25	Right Check	0	137	0.091	1.309	0.119	0.255	0.159	34.2				
Head	LTE Band 14	10	QPSK	A	0129M	1:1	0.01	793.00	23330	1.0	24.0	23.83	1	25	Right Check	0	137	0.072	1.284	0.101	0.251	0.157	34.1				
Head	LTE Band 14	10	QPSK	A	0096M	1:1	-0.11	793.00	23330	0.0	25.0	23.83	1	25	Right YH	0	137	0.055	1.309	0.030	0.042	0.026	42.0				
Head	LTE Band 14	10	QPSK	A	0096M	1:1	0.09	793.00	23330	1.0	24.0	22.88	25	25	Right YH	0	137	0.017	1.294	0.022	0.009	0.007	40.5				
Head	LTE Band 14	10	QPSK	A	0129M	1:1	0.05	793.00	23330	0.0	25.0	23.83	1	25	Left Check	0	137	0.055	1.309	0.119	0.255	0.159	34.2	32.6	28.1		
Head	LTE Band 14	10	QPSK	A	0129M	1:1	0.07	793.00	23330	1.0	24.0	22.88	25	25	Left Check	0	137	0.030	1.294	0.129	0.348	0.218	32.1				
Head	LTE Band 14	10	QPSK	A	0096M	1:1	-0.01	793.00	23330	0.0	25.0	23.83	1	25	Left YH	0	137	0.008	1.309	0.076	0.162	0.101	36.1				
Head	LTE Band 14	10	QPSK	A	0096M	1:1	0.09	793.00	23330	1.0	24.0	22.88	25	25	Left YH	0	137	0.043	1.284	0.056	0.102	0.064	35.5				
AND/OR CRS 1.1202 - SAFETY LIMIT																		Head									
Spatial Peak																		1.6 W/kg (mW/g)									
Uncontrolled exposure / General Population																		Controlled exposure / General Population									

Table 12-28

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio [1g SAR]	Plot #	PLimit [dBm]	Overall PLimit [dBm]	EPS PLimit [dBm]
Head	LTE Band 14	10	QPSK	E	0095M	1:1	-0.02	793.00	23330	0.0	22.5	21.34	1	25	Right Cheek	0	0.600	1.306	0.784	0.784	0.490		23.5		21.5
Head	LTE Band 14	10	QPSK	E	0095M	1:1	-0.03	793.00	23330	0.0	22.5	21.26	25	25	Right Cheek	0	0.583	1.330	0.775	0.775	0.484		23.6		
Head	LTE Band 14	10	QPSK	E	0095M	1:1	-0.03	793.00	23330	0.0	22.5	21.34	1	25	Right Tilt	0	0.529	1.306	0.691	0.691	0.432		24.1		
Head	LTE Band 14	10	QPSK	E	0095M	1:1	-0.02	793.00	23330	0.0	22.5	21.26	25	25	Right Tilt	0	0.506	1.330	0.672	0.672	0.420		24.2		
Head	LTE Band 14	10	QPSK	E	0129M	1:1	0.07	793.00	23330	0.0	22.5	21.34	1	25	Left Cheek	0	0.798	1.306	0.964	0.964	0.603		22.6		
Head	LTE Band 14	10	QPSK	E	0129M	1:1	0.06	793.00	23330	0.0	22.5	21.26	25	25	Left Cheek	0	0.761	1.330	0.932	0.932	0.583		22.8		
Head	LTE Band 14	10	QPSK	E	0129M	1:1	0.06	793.00	23330	0.0	22.5	21.17	50	0	Left Cheek	0	0.721	1.358	0.993	0.993	0.621		22.5		
Head	LTE Band 14	10	QPSK	E	0129M	1:1	-0.16	793.00	23330	0.0	22.5	21.34	1	25	Left Tilt	0	0.582	1.306	0.666	0.666	0.404	A23	22.6		
Head	LTE Band 14	10	QPSK	E	0129M	1:1	0.14	793.00	23330	0.0	22.5	21.26	25	25	Left Tilt	0	0.744	1.330	0.950	0.950	0.594		22.7		
Head	LTE Band 14	10	QPSK	E	0129M	1:1	0.12	793.00	23330	0.0	22.5	21.17	50	0	Left Tilt	0	0.729	1.358	0.990	0.990	0.629		22.5		
ANSI/IEEE C63.1-1997 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Head 1.6 W/kg (mW/g) averaged over 1 gram								

Table 12-29

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio [1g SAR]	Plot #	PLimit [dBm]	Overall PLimit [dBm]	EPS PLimit [dBm]
Body worn/Hotspot	LTE Band 14	10	QPSK	A	0129M	1:1	-0.05	793.00	23330	0.0	25.0	23.63	1	25	Back	10	117	0.291	1.309	0.381	0.363	0.352		29.1		
Body worn/Hotspot	LTE Band 14	10	QPSK	A	0129M	1:1	0.02	793.00	23330	1.0	24.0	22.88	25	25	Back	10	117	0.248	1.294	0.321	0.308	0.314		28.9		
Hotspot	LTE Band 14	10	QPSK	A	0129M	1:1	-0.16	793.00	23330	0.0	25.0	23.83	1	25	Front	10	117	0.344	1.309	0.188	0.279	0.174		32.1		
Hotspot	LTE Band 14	10	QPSK	A	0129M	1:1	-0.07	793.00	23330	1.0	24.0	22.88	25	25	Front	10	117	0.130	1.294	0.142	0.205	0.166		32.6		
Hotspot	LTE Band 14	10	QPSK	A	4129M	1:1	-0.03	793.00	23330	0.0	25.0	23.83	1	25	Bottom	10	117	0.205	1.309	0.112	0.196	0.121		31.7		
Hotspot	LTE Band 14	10	QPSK	A	4129M	1:1	-0.04	793.00	23330	1.0	24.0	22.88	25	25	Bottom	10	117	0.074	1.294	0.096	0.178	0.111		34.1		
Hotspot	LTE Band 14	10	QPSK	A	0129M	1:1	0.30	793.00	23330	0.0	25.0	23.63	1	25	Right	10	117	0.111	1.309	0.149	0.215	0.134		33.3		
Hotspot	LTE Band 14	10	QPSK	A	0129M	1:1	-0.05	793.00	23330	1.0	24.0	22.88	25	25	Right	10	117	0.078	1.294	0.101	0.188	0.118		33.9		
Hotspot	LTE Band 14	10	QPSK	A	0129M	1:1	-0.04	793.00	23330	0.0	25.0	23.83	1	25	Left	10	117	0.346	1.309	0.247	0.366	0.229		25.0		
Hotspot	LTE Band 14	10	QPSK	A	0129M	1:1	-0.05	793.00	23330	1.0	24.0	22.88	25	25	Left	10	117	0.148	1.294	0.152	0.257	0.223		31.3		
ANSI/IEEE C63.1-1997 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Body 1.6 W/kg (mW/g) averaged over 1 gram									

Table 12-30

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio [1g SAR]	Plot #	PLimit [dBm]	Overall PLimit [dBm]	EPS PLimit [dBm]
Body worn/hotspot	LTE Band 14	10	QPSK	E	0045M	1:1	0.18	793.00	23330	0.0	25.0	23.97	1	25	Back	10	0.464	1.268	0.588	0.775	0.484	A24	27.3		
Body worn/hotspot	LTE Band 14	10	QPSK	E	0045M	1:1	0.05	793.00	23330	1.0	24.0	23.03	25	25	Back	10	0.365	1.250	0.456	0.757	0.473		27.6		
Hotspot	LTE Band 14	10	QPSK	E	0129M	1:1	0.07	793.00	23330	0.0	25.0	23.97	1	25	Front	10	0.452	1.268	0.573	0.755	0.472		27.6		
Hotspot	LTE Band 14	10	QPSK	E	0129M	1:1	-0.05	793.00	23330	1.0	24.0	23.03	25	25	Front	10	0.349	1.250	0.438	0.724	0.453		27.6		
Hotspot	LTE Band 14	10	QPSK	E	0129M	1:1	0.00	793.00	23330	0.0	25.0	23.97	1	25	Top	10	0.593	1.268	0.752	0.991	0.619	A25	26.2	26.2	
Hotspot	LTE Band 14	10	QPSK	E	0129M	1:1	0.02	793.00	23330	1.0	24.0	23.03	25	25	Top	10	0.460	1.250	0.575	0.955	0.597		26.4		
Hotspot	LTE Band 14	10	QPSK	E	0129M	1:1	-0.01	793.00	23330	1.0	24.0	23.97	1	25	Right	10	0.413	1.268	0.524	0.680	0.431		27.8		
Hotspot	LTE Band 14	10	QPSK	E	0129M	1:1	0.03	793.00	23330	1.0	24.0	23.03	25	25	Right	10	0.409	1.250	0.511	0.849	0.531		26.9		
ANSI/IEEE C63.1-1997 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Body 1.6 W/kg (mW/g) averaged over 1 gram								

12.10 LTE Band 26 (Cell) Standalone SAR

Table 12-31

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio [1g SAR]	Plot #	PLimit [dBm]	Overall PLimit [dBm]	EPS PLimit [dBm]
Head	LTE Band 26	15	QPSK	A	0129M	1:1	0.09	831.50	26865	0.0	25.0	24.46	1	36	Right Cheek	0	63	0.098	1.132	0.111	0.299	0.187		34.5		
Head	LTE Band 26	15	QPSK	A	0129M	1:1	0.07	831.50	26865	1.0	24.0	23.03	36	18	Right Cheek	0	63	0.078	1.250	0.098	0.130	0.206		34.1		
Head	LTE Band 26	15	QPSK	A	0129M	1:1	0.07	831.50	26865	0.0	25.0	24.46	1	36	Right Tilt	0	63	0.086	1.132	0.097	0.262	0.164		35.1		
Head	LTE Band 26	15	QPSK	A	0129M	1:1	0.02	831.50	26865	1.0	24.0	23.03	36	18	Right Tilt	0	63	0.066	1.250	0.083	0.280	0.175		34.8		
Head	LTE Band 26	15	QPSK	A	0129M	1:1	-0.08	831.50	26865	0.0	25.0	24.46	1	36	Left Cheek	0	63	0.145	1.132	0.230	0.261	0.219		33.8	33.6	29.3
Head	LTE Band 26	15	QPSK	A	0129M	1:1	0.06	831.50	26865	1.0	24.0	23.03	36	18	Left Cheek	0	63	0.086	1.250	0.108	0.364	0.228		33.6		
Head	LTE Band 26	15	QPSK	A	0129M	1:1	0.08	831.50	26865	0.0	25.0	24.46	1	36	Left Tilt	0	63	0.078	1.132	0.088	0.238	0.149		35.5		
Head	LTE Band 26	15	QPSK	A	0129M	1:1	-0.19	831.50	26865	1.0	24.0	23.03	36	18	Left Tilt	0	63	0.057	1.250	0.071	0.241	0.151		35.4		
ANSI/IEEE C63.1-1997 - SAFETY LIMIT																	Head									
Spatial Peak																	1.6 W/kg (mW/g)									
Uncontrolled Exposure/General Population																	Exposure over 1 gram									

Table 12-32

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio [1g SAR]	Plot #	PLimit [dBm]	Overall PLimit [dBm]	EPS PLimit [dBm]
Head	LTE Band 26	15	QPSK	E	0129M	1:1	-0.07	831.50	26865	0.0	22.0	21.15	1	36	Right Cheek	0	0.652	1.216	0.793	0.793	0.496		23.0		
Head	LTE Band 26	15	QPSK	E	0129M	1:1	-0.11	831.50	26865	0.0	22.0	21.03	36	18	Right Cheek	0	0.426	1.250	0.686	0.786	0.491		23.0		
Head	LTE Band 26	15	QPSK	E	0129M	1:1	-0.15	831.50	26865	0.0	22.0	21.15	1	36	Right Tilt	0	0.605	1.216	0.736	0.736	0.480		23.3		
Head	LTE Band 26	15	QPSK	E	0129M	1:1	-0.08	831.50	26865	0.0	22.0	21.03	36	18	Right Tilt	0	0.582	1.250	0.728	0.728	0.455		23.3		
Head	LTE Band 26	15	QPSK	E	0129M	1:1	0.08	831.50	26865	0.0	22.0	21.15	1	36	Left Cheek	0	0.891	1.216	1.081	1.081	0.677		21.6		
Head	LTE Band 26	15	QPSK	E	0129M	1:1	0.08	831.50	26865	0.0	22.0	21.03	36	18	Left Cheek	0	0.890	1.250	1.116	1.116	0.688	A26	21.6		
Head	LTE Band 26	15	QPSK	E	0129M	1:1	0.04	831.50	26865	0.0	22.0	20.94	75	0	Left Cheek	0	0.861	1.276	1.104	1.104	0.690		21.5		
Head	LTE Band 26	15	QPSK	E	0129M	1:1	0.06	831.50	26865	0.0	22.0	21.15	1	36	Left Tilt	0	0.842	1.250	1.024	1.024	0.640		21.8		
Head	LTE Band 26	15	QPSK	E	0129M	1:1	0.06	831.50	26865	0.0	22.0	21.03	36	18	Left Tilt	0	0.841	1.276	1.028	1.028	0.641		21.8		
Head	LTE Band 26	15	QPSK	E	0129M	1:1	0.14	831.50	26865	0.0	22.0	20.94	75	0	Left Tilt	0	0.829	1.276	1.058	1.058	0.661		21.7		
ANSI/IEEE C95.1-1992 - SAFETY LIMIT																									
Spatial Peak																		Head							
Uncontrolled Exposure/General Population																		1.6 W/kg (mW/g)							
																		averaged over 1 gram							

Table 12-33

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]
Body-worn/Hotspot	LTE Band 26	15	QPSK	A	0129M	1:1	-0.05	831.50	26865	0.0	25.0	24.46	1	36	Back	10	63	0.243	1.132	0.275	0.446	0.279		30.6		
Body-worn/Hotspot	LTE Band 26	15	QPSK	A	0129M	1:1	0.07	831.50	26865	1.0	24.0	23.03	36	18	Back	10	63	0.250	1.250	0.263	0.536	0.335		29.8		
Hotspot	LTE Band 26	15	QPSK	A	0129M	1:1	-0.20	831.50	26865	0.0	25.0	24.46	1	36	Front	10	63	0.239	1.132	0.180	0.180	0.292		32.4		
Hotspot	LTE Band 26	15	QPSK	A	0129M	1:1	-0.07	831.50	26865	1.0	24.0	23.03	36	18	Front	10	63	0.242	1.250	0.323	0.311	0.394		32.1		
Hotspot	LTE Band 26	15	QPSK	A	0129M	1:1	-0.17	831.50	26865	0.0	25.0	24.46	1	36	Bottom	10	63	0.077	1.132	0.087	0.141	0.085		35.5		
Hotspot	LTE Band 26	15	QPSK	A	0129M	1:1	-0.19	831.50	26865	1.0	24.0	23.03	36	18	Bottom	10	63	0.058	1.250	0.073	0.148	0.093		35.3		
Hotspot	LTE Band 26	15	QPSK	A	0129M	1:1	-0.15	831.50	26865	0.0	25.0	24.46	1	36	Right	10	63	0.087	1.132	0.096	0.160	0.100		35.0		
Hotspot	LTE Band 26	15	QPSK	A	0129M	1:1	-0.13	831.50	26865	1.0	24.0	23.03	36	18	Right	10	63	0.065	1.250	0.081	0.166	0.104		34.9		
Hotspot	LTE Band 26	15	QPSK	A	0129M	1:1	-0.15	831.50	26865	0.0	25.0	24.46	1	36	Left	10	63	0.124	1.132	0.140	0.228	0.143		33.5		
Hotspot	LTE Band 26	15	QPSK	A	0129M	1:1	-0.11	831.50	26865	1.0	24.0	23.03	36	18	Left	10	63	0.086	1.250	0.124	0.233	0.158		33.0		
ANSI/IEEE C63.1.1992 - SAFETY LIMIT																		Spatial Peak		Body						
Uncontrolled Exposure/General Population																				1.6 W/kg (mW/g)				averaged over 1 gram		

Table 12-34

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]
Body-worn/Hotspot	LTE Band 26	15	QPSK	E	0129M	1:1	0.12	831.50	26865	0.0	25.0	24.60	1	36	Back	10	63	0.404	1.096	0.541	0.748	0.408	A27	27.8		
Body-worn/Hotspot	LTE Band 26	15	QPSK	E	0129M	1:1	0.07	831.50	26865	1.0	24.0	23.21	36	0	Back	10	63	0.389	1.199	0.442	0.769	0.481		27.5		
Hotspot	LTE Band 26	15	QPSK	E	0129M	1:1	0.10	831.50	26865	0.0	25.0	24.60	1	36	Front	10	63	0.476	1.096	0.515	0.712	0.445		27.8		
Hotspot	LTE Band 26	15	QPSK	E	0129M	1:1	0.08	831.50	26865	1.0	24.0	23.21	36	0	Front	10	63	0.352	1.199	0.422	0.734	0.459		27.7		
Hotspot	LTE Band 26	15	QPSK	E	0129M	1:1	-0.02	831.50	26865	0.0	25.0	24.60	1	36	Top	10	63	0.403	1.096	0.461	0.711	0.511	A28	28.1		
Hotspot	LTE Band 26	15	QPSK	E	0129M	1:1	0.00	831.50	26865	1.0	24.0	23.21	36	0	Top	10	63	0.446	1.199	0.535	0.929	0.581		26.7		
Hotspot	LTE Band 26	15	QPSK	E	0129M	1:1	-0.03	831.50	26865	0.0	25.0	24.60	1	36	Right	10	63	0.472	1.096	0.517	0.713	0.447		27.8		
Hotspot	LTE Band 26	15	QPSK	E	0129M	1:1	-0.02	831.50	26865	1.0	24.0	23.21	36	0	Right	10	63	0.383	1.199	0.433	0.752	0.470		27.6		
ANSI/IEEE C63.1.1992 - SAFETY LIMIT																		Spatial Peak		Body						
Uncontrolled Exposure/General Population																				1.6 W/kg (mW/g)				averaged over 1 gram		

12.11 LTE Band 66 (AWS) Standalone SAR

Table 12-35

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]
Head	LTE Band 66	20	QPSK	A	0068M	1:1	0.05	1720.00	132572	0.0	24.5	23.54	1	50	Right Cheek	0	99	0.112	1.247	0.141	0.207	0.248		23.0		
Head	LTE Band 66	20	QPSK	A	0068M	1:1	0.10	1720.00	132572	1.0	23.5	22.57	50	25	Right Cheek	0	99	0.078	1.239	0.097	0.343	0.214		33.6		
Head	LTE Band 66	20	QPSK	A	0068M	1:1	0.08	1720.00	132572	0.0	24.5	23.54	1	50	Right Titl	0	99	0.069	1.247	0.086	0.243	0.152		35.1		
Head	LTE Band 66	20	QPSK	A	0068M	1:1	-0.15	1720.00	132572	1.0	23.5	22.57	50	25	Right Titl	0	99	0.063	1.239	0.073	0.255	0.159		34.3		
Head	LTE Band 66	20	QPSK	A	0068M	1:1	0.08	1720.00	132572	0.0	24.5	23.54	1	50	Left Cheek	0	0	0.058	1.247	0.072	0.204	0.128		35.9		
Head	LTE Band 66	20	QPSK	A	0068M	1:1	0.00	1720.00	132572	1.0	23.5	22.57	50	25	Left Cheek	0	0	0.044	1.239	0.095	0.193	0.121		36.1		
Head	LTE Band 66	20	QPSK	A	0068M	1:1	0.16	1720.00	132572	0.0	24.5	23.54	1	50	Left Titl	0	0	0.045	1.247	0.096	0.158	0.099		37.0		
Head	LTE Band 66	20	QPSK	A	0068M	1:1	-0.10	1720.00	132572	1.0	23.5	22.57	50	25	Left Titl	0	0	0.056	1.239	0.045	0.158	0.099		37.0		
ANSI/IEEE C63.1.1992 - SAFETY LIMIT																		Spatial Peak		Head						
Uncontrolled Exposure/General Population																				1.6 W/kg (mW/g)				averaged over 1 gram		

Table 12-36

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]
Head	LTE Band 66	20	QPSK	F	0067M	1:1	0.07	1770.00	132572	0.0	19.5	18.57	1	0	Right Cheek	0	99	0.565	1.239	0.700	0.700	0.438		21.0		
Head	LTE Band 66	20	QPSK	F	0067M	1:1	0.04	1770.00	132572	0.0	19.5	18.60	50	25	Right Cheek	0	0	0.548	1.230	0.674	0.674	0.421		21.2		
Head	LTE Band 66	20	QPSK	F	0067M	1:1	0.03	1770.00	132572	0.0	19.5	18.57	1	0	Right Titl	0	99	0.625	1.239	0.774	0.774	0.484	A29	20.6		
Head	LTE Band 66	20	QPSK	F	0067M	1:1	0.05	1770.00	132572	0.0	19.5	18.60	50	25	Right Titl	0	99	0.602	1.230	0.740	0.740	0.463		20.8		
Head	LTE Band 66	20	QPSK	F	0067M	1:1	0.01	1770.00	132572	0.0	19.5	18.57	1	0	Left Cheek	0	0	0.383	1.239	0.475	0.475	0.297		22.7		
Head	LTE Band 66	20	QPSK	F	0067M	1:1	0.03	1770.00	132572	0.0	19.5	18.60	50	25	Left Cheek	0	0	0.384	1.230	0.472	0.472	0.295		22.7		
Head	LTE Band 66	20	QPSK	F	0067M	1:1	-0.03	1770.00	132572	0.0	19.5	18.57	1	0	Left Titl	0	0	0.478	1.239	0.590	0.590	0.369		21.7		
Head	LTE Band 66	20	QPSK	F	0067M	1:1	0.05	1770.00	132572	0.0	19.5	18.60	50	25	Left Titl	0	0	0.469	1.230	0.577	0.577	0.361		21.8		
ANSI/IEEE C63.1.1992 - SAFETY LIMIT																		Spatial Peak		Head						
Uncontrolled Exposure/General Population																				1.6 W/kg (mW/g)				averaged over 1 gram		

Table 12-37

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]	
Body-worn/Hotspot	LTE Band 66	20	QPSK	A	0068M	1:1	-0.16	1770.00	132572	0.0	20.0	19.10	1	0	Back	10	99	0.515	1.230	0.633	0.633	0.396	A30	21.9			
Body-worn/Hotspot	LTE Band 66	20	QPSK	A	0068M	1:1	-0.17	1770.00	132572	0.0	20.0	19.03	50	0	Back	10	99	0.488	1.250	0.623	0.623	0.389		22.0			
Hotspot	LTE Band 66	20	QPSK	A	0068M	1:1	0.17	1770.00	132572	0.0	20.0	19.03	1	0	Front	10	0	0.286	1.230	0.392	0.352	0.220		24.5			
Hotspot	LTE Band 66	20	QPSK	A	0068M	1:1	-0.16	1770.00	132572	0.0	20.0	19.03	50	0	Front	10	0	0.280	1.250	0.356	0.356	0.223		24.4			
Hotspot	LTE Band 66	20	QPSK	A	0068M	1:1	0.01	1720.00	132072	0.0	20.0	19.10	1	50	Bottom	10	99	0.616	1.134	1.169	1.169	0.731		19.3			
Hotspot	LTE Band 66	20	QPSK	A	0068M	1:1	-0.03	1740.00	132320	0.0	20.0	19.06	10	50	Bottom	10	99	0.603	1.136	1.171	1.160	0.725		19.4			
Hotspot	LTE Band 66	20	QPSK	A	0068M	1:1	-0.02	1770.00	132572	0.0	20.0	19.03	50	0	Bottom	10	99	0.674	1.250	1.172	1.172	0.733	A31	19.3			
Hotspot	LTE Band 66	20	QPSK	A	0068M	1:1	-0.05	1720.00	132072	0.0	20.0	19.00	50	25	Bottom	10	99	0.678	1.259	1.105	1.105	0.691		19.5		19.0	
Hotspot	LTE Band 66	20	QPSK	A	0068M	1:1	-0.04	1745.00	132322	0.0	20.0	19.00	50	25	Bottom	10	99	0.801	1.259	1.122	1.122	0.701		19.5			
Hotspot	LTE Band 66	20	QPSK	A	0068M	1:1	0.04	1770.00	132571	0.0	20.0	19.03	50	0	Bottom	10	99	0.642	1.250	1.178	1.178	0.736		19.2			
Hotspot	LTE Band 66	20	QPSK	A	0068M	1:1	0.02	1720.00	132072	0.0	20.0	19.02	100	0	Bottom	10	99	0.696	1.253	1.123	1.123	0.702		19.4			
Hotspot	LTE Band 66	20	QPSK	A	0068M	1:1	-0.10	1770.00	132572	0.0	20.0	19.10	1	0	Right	10	0	0.039	1.230	0.048	0.048	0.030		33.1			
Hotspot	LTE Band 66	20	QPSK	A	0068M	1:1	0.07	1770.00	132572	0.0	20.0	19.03	50	0	Left	10	0	0.040	1.250	0.056	0.056	0.035		32.4			
Hotspot	LTE Band 66	20	QPSK	A	0068M	1:1	0.05	1770.00	132572	0.0	20.0	19.03	1	0	Left	10	0	0.035	1.230	0.041	0.041	0.030		32.7			
Hotspot	LTE Band 66	20	QPSK	A	0068M	1:1	0.06	1770.00	132572	0.0	20.0	19.00	50	0	Left	10	0	0.035	1.250	0.054	0.054	0.028		33.5			
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																		Body 1.6W/kg (10W/kg) averaged over 12gm									
Uncontrolled Exposure/General Population																											



Table 12-38

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Overall Limit [dBm]	EPS Limit [dBm]
Body-worn/Hotspot	LTE Band 66	20	QPSK	F	0087M	1:1	-0.02	1770.00	132572	0.0	21.5	21.09	1	50	Back	10	0.182	1.099	0.200	0.200	0.125		28.4	
Body-worn/Hotspot	LTE Band 66	20	QPSK	F	0087M	1:1	0.03	1770.00	132572	0.0	21.5	21.02	50	25	Back	10	0.177	1.117	0.198	0.198	0.134		28.5	
Hotspot	LTE Band 66	20	QPSK	F	0078M	1:1	0.02	1770.00	132572	0.0	21.5	21.09	1	50	Front	10	0.163	1.099	0.179	0.179	0.112		28.9	
Hotspot	LTE Band 66	20	QPSK	F	0078M	1:1	-0.01	1770.00	132572	0.0	21.5	21.02	50	25	Front	10	0.158	1.117	0.176	0.176	0.120		29.0	
Hotspot	LTE Band 66	20	QPSK	F	0087M	1:1	0.02	1770.00	132572	0.0	21.5	21.09	1	50	Top	10	0.485	1.099	0.478	0.478	0.299		24.7	
Hotspot	LTE Band 66	20	QPSK	F	0087M	1:1	-0.03	1770.00	132572	0.0	21.5	21.09	50	25	Top	10	0.425	1.117	0.475	0.475	0.297		24.7	
Hotspot	LTE Band 66	20	QPSK	F	0087M	1:1	0.03	1770.00	132572	0.0	21.5	21.09	1	50	Left	10	0.099	1.099	0.109	0.109	0.068		31.1	
Hotspot	LTE Band 66	20	QPSK	F	0087M	1:1	0.04	1770.00	132572	0.0	21.5	21.02	50	25	Left	10	0.095	1.117	0.113	0.113	0.071		30.9	
ANSI/IEEE C95.1.1982 - SAFETY LIMIT																	Body							
Spatial Peak																	1.6 W/kg (mW/g)							
Uncontrolled Exposure/General Population																	averaged over 1 gram							

12.12 LTE Band 25 (PCS) Standalone SAR

Table 12-39

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Limit [dBm]	Overall Limit [dBm]	EPS Limit [dBm]
Head	LTE Band 25	20	QPSK	A	0068M	1:1	-0.18	1860.00	26140	0.0	24.5	23.51	1	50	Right Cheek	0	109	0.129	1.256	0.162	0.407	0.224		32.4		
Head	LTE Band 25	20	QPSK	A	0068M	1:1	0.01	1860.00	26140	1.0	23.5	22.32	50	25	Right Cheek	0	109	0.100	1.253	0.125	0.396	0.248		32.5		
Head	LTE Band 25	20	QPSK	A	0068M	1:1	-0.11	1860.00	26140	0.0	24.5	23.51	1	50	Right Tilt	0	112	0.098	1.256	0.141	0.397	0.250		32.6		
Head	LTE Band 25	20	QPSK	A	0068M	1:1	0.06	1860.00	26140	1.0	23.5	22.32	50	25	Right Tilt	0	112	0.028	1.253	0.035	0.111	0.069		38.0	32.4	28.5
Head	LTE Band 25	20	QPSK	A	0068M	1:1	0.05	1860.00	26140	0.0	24.5	23.51	1	50	Left Cheek	0	0	0.064	1.246	0.080	0.202	0.126		35.4		
Head	LTE Band 25	20	QPSK	A	0068M	1:1	0.05	1860.00	26140	1.0	23.5	22.32	50	25	Left Cheek	0	0	0.048	1.253	0.061	0.184	0.121		35.6		
Head	LTE Band 25	20	QPSK	A	0063M	1:1	0.08	1860.00	26140	0.0	24.5	23.51	1	50	Left Tilt	0	0	0.056	1.256	0.070	0.177	0.111		36.0		
Head	LTE Band 25	20	QPSK	A	0063M	1:1	-0.07	1860.00	26140	1.0	23.5	22.32	50	25	Left Tilt	0	0	0.050	1.253	0.063	0.158	0.124		35.5		
ANSI/IEEE C95.1.1982 - SAFETY LIMIT																		Head								
Spatial Peak																		1.6 W/kg (mW/g)								
Uncontrolled Exposure/General Population																		averaged over 1 gram								

Table 12-40

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Limit [dBm]	Overall Limit [dBm]	EPS Limit [dBm]
Head	LTE Band 25	20	QPSK	F	0087M	1:1	0.06	1905.00	26590	0.0	19.5	18.68	1	0	Right Cheek	0	0.025	1.208	0.731	0.731	0.457		20.8		
Head	LTE Band 25	20	QPSK	F	0087M	1:1	0.10	1905.00	26590	0.0	19.5	18.69	50	25	Right Cheek	0	0.028	1.205	0.745	0.745	0.466		20.7		
Head	LTE Band 25	20	QPSK	F	0087M	1:1	0.03	1860.00	26140	0.0	19.5	18.57	1	50	Right Tilt	0	0.047	1.239	0.802	0.802	0.501		20.4		
Head	LTE Band 25	20	QPSK	F	0087M	1:1	0.01	1882.50	26365	0.0	19.5	18.67	1	50	Right Tilt	0	0.086	1.211	0.831	0.831	0.528		20.3		
Head	LTE Band 25	20	QPSK	F	0087M	1:1	0.03	1905.00	26590	0.0	19.5	18.68	1	0	Right Tilt	0	0.738	1.208	0.867	0.867	0.542		20.1		
Head	LTE Band 25	20	QPSK	F	0087M	1:1	0.04	1860.00	26140	0.0	19.5	18.68	50	25	Right Tilt	0	0.646	1.208	0.780	0.780	0.488		20.5		
Head	LTE Band 25	20	QPSK	F	0087M	1:1	0.04	1882.50	26365	0.0	19.5	18.68	50	50	Right Tilt	0	0.684	1.208	0.838	0.838	0.524		20.2		
Head	LTE Band 25	20	QPSK	F	0087M	1:1	0.03	1905.00	26590	0.0	19.5	18.69	50	25	Right Tilt	0	0.745	1.205	0.898	0.898	0.561	A32	19.9		
Head	LTE Band 25	20	QPSK	F	0087M	1:1	0.03	1905.00	26590	0.0	19.5	18.65	100	0	Right Tilt	0	0.731	1.216	0.891	0.891	0.557		19.9		
Head	LTE Band 25	20	QPSK	F	0087M	1:1	0.00	1905.00	26590	0.0	19.5	18.68	1	0	Left Cheek	0	0.465	1.208	0.562	0.562	0.351		22.0		
Head	LTE Band 25	20	QPSK	F	0087M	1:1	0.05	1905.00	26590	0.0	19.5	18.69	50	25	Left Cheek	0	0.485	1.205	0.584	0.584	0.365		21.8		
Head	LTE Band 25	20	QPSK	F	0087M	1:1	0.02	1905.00	26590	0.0	19.5	18.68	1	0	Left Tilt	0	0.555	1.208	0.670	0.670	0.429		21.2		
Head	LTE Band 25	20	QPSK	F	0087M	1:1	0.02	1905.00	26590	0.0	19.5	18.69	50	25	Left Tilt	0	0.589	1.205	0.710	0.710	0.444		20.9		
ANSI/IEEE C95.1.1982 - SAFETY LIMIT																		Head							
Uncontrolled Exposure/General Population																		Spatial Peak							
																		1.6 W/kg (mW/g)							
																		averaged over 1 gram							

Table 12-41

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Limit [dBm]	Overall Limit [dBm]	EPS Limit [dBm]
Body-worn/Hotspot	LTE Band 25	20	QPSK	A	0068M	1:1	0.17	1860.00	26140	0.0	19.0	17.85	1	50	Back	10	109	0.416	1.303	0.542	0.542	0.339	A13	21.6		
Body-worn/Hotspot	LTE Band 25	20	QPSK	A	0068M	1:1	-0.20	1860.00	26140	0.0	19.0	17.84	50	25	Back	10	109	0.416	1.306	0.543	0.543	0.339		21.6		
Hotspot	LTE Band 25	20	QPSK	A	0068M	1:1	0.06	1860.00	26140	0.0	19.0	17.85	1	50	Front	10	0	0.256	1.303	0.334	0.334	0.209		23.7		
Hotspot	LTE Band 25	20	QPSK	A	0068M	1:1	0.20	1860.00	26140	0.0	19.0	17.84	50	25	Front	10	0	0.261	1.306	0.341	0.341	0.213		23.6		
Hotspot	LTE Band 25	20	QPSK	A	0068M	1:1	0.04	1860.00	26140	0.0	19.0	17.85	1	50	Bottom	10	112	0.869	1.303	1.132	1.132	0.708		18.4		
Hotspot	LTE Band 25	20	QPSK	A	0068M	1:1	0.01	1882.50	26365	0.0	19.0	17.70	1	50	Bottom	10	112	0.885	1.349	1.195	1.194	0.746		18.2		
Hotspot	LTE Band 25	20	QPSK	A	0068M	1:1	0.01	1905.00	26590	0.0	19.0	17.80	1	50	Bottom	10	112	0.888	1.319	1.170	1.170	0.731	A34	18.3		
Hotspot	LTE Band 25	20	QPSK	A	0068M	1:1	-0.02	1860.00	26140	0.0	19.0	17.84	50	25	Bottom	10	112	0.862	1.356	1.126	1.126	0.704		18.4	18.2	18.0
Hotspot	LTE Band 25	20	QPSK	A	0068M	1:1	0.00	1882.50	26365	0.0	19.0	17.71	50	0	Bottom	10	112	0.884	1.340	1.131	1.131	0.707		18.4		
Hotspot	LTE Band 25	20	QPSK	A	0068M	1:1	0.04	1905.00	26590	0.0	19.0	17.59	50	0	Bottom	10	112	0.839	1.384	1.161	1.161	0.726		18.3		
Hotspot	LTE Band 25	20	QPSK	A	0068M	1:1	-0.03	1860.00	26140	0.0	19.0	17.73	100	0	Bottom	10	112	0.769	1.340	1.090	1.090	0.644		18.8		
Hotspot	LTE Band 25	20	QPSK	A	0068M	1:1	0.03	1860.00	26140	0.0	19.0	17.85	1	50	Right	10	0	0.032	1.303	0.042	0.042	0.026		32.7		
Hotspot	LTE Band 25	20	QPSK	A	0068M	1:1	-0.06	1860.00	26140	0.0	19.0	17.84	50	25	Right	10	0	0.031	1.306	0.041	0.041	0.027		32.6		
Hotspot	LTE Band 25	20	QPSK	A	0068M	1:1	0.17	1860.00	26140	0.0	19.0	17.85	1	50	Left	10	0	0.009	1.303	0.009	0.009	0.004		33.0		
Hotspot	LTE Band 25	20	QPSK	A	0068M	1:1	0.04	1860.00	26140	0.0	19.0	17.84	50	25	Left	10	0	0.000	1.306	0.009	0.009	0.004		33.0		
ANSI/IEEE C95.1.1992 - SAFETY LIMIT																		Body 1.6 W/kg (W/kg) at averaged over 1 gram								
Uncontrolled Exposure/General Population																										



12.13 LTE Band 30 Standalone SAR

Table 12-43

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio [1g SAR]	Plot #	Plimit [dBm]	Overall Plimit [dBm]	USF Plimit [dBm]
Head	LTE Band 30	10	QPSK	A	0079M	1:1	0.05	2310.00	27710	0.0	23.5	22.45	1	0	Right Cheek	0	0.020	1.274	0.025	0.299	0.187		38.4		
Head	LTE Band 30	10	QPSK	A	0079M	1:1	0.12	2310.00	27710	1.0	22.5	21.50	25	12	Right Cheek	0	0.018	1.259	0.023	0.335	0.209		38.9		
Head	LTE Band 30	10	QPSK	A	0079M	1:1	0.09	2310.00	27710	0.0	23.5	22.45	1	0	Right Tilt	0	0.003	1.274	0.015	0.150	0.094		42.4		
Head	LTE Band 30	10	QPSK	A	0079M	1:1	0.07	2310.00	27710	1.0	22.5	21.50	25	12	Right Tilt	0	0.009	1.259	0.011	0.168	0.105		41.9		
Head	LTE Band 30	10	QPSK	A	0042M	1:1	0.09	2310.00	27710	0.0	23.5	22.45	1	0	Left Cheek	0	0.014	1.274	0.018	0.209	0.131		40.9		
Head	LTE Band 30	10	QPSK	A	0042M	1:1	0.03	2310.00	27710	1.0	22.5	21.50	25	12	Left Cheek	0	0.003	1.259	0.005	0.172	0.101		38.4		
Head	LTE Band 30	10	QPSK	A	0042M	1:1	0.03	2310.00	27710	0.0	23.5	22.45	1	0	Left Tilt	0	0.006	1.274	0.008	0.090	0.056		44.6		
Head	LTE Band 30	10	QPSK	A	0042M	1:1	0.02	2310.00	27710	1.0	22.5	21.50	25	12	Left Tilt	0	0.012	1.259	0.015	0.223	0.139		40.7		
ANSI/IEEE C63.1-1997 - SAFETY LIMIT																		Head							
Spatial Peak																		1.6 W/kg (mW/g)							
Uncontrolled Exposure/General Population																		averaged over 1 gram							

Table 12-44

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio [1g SAR]	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]
Head	LTE Band 30	10	QPSK	F	0042M	1:1	-0.20	2310.00	27710	0.0	18.0	16.48	1	25	Right Cheek	0	0.767	1.419	1.088	1.088	0.880		17.6		
Head	LTE Band 30	10	QPSK	F	0042M	1:1	-0.03	2310.00	27710	0.0	18.0	16.51	25	12	Right Cheek	0	0.981	1.409	0.960	0.960	0.800		18.1		
Head	LTE Band 30	10	QPSK	F	0042M	1:1	-0.03	2310.00	27710	0.0	18.0	16.46	50	0	Right Cheek	0	0.781	1.426	1.114	1.114	0.886	A35	17.5		
Head	LTE Band 30	10	QPSK	F	0042M	1:1	-0.01	2310.00	27710	0.0	18.0	16.48	1	25	Right Tilt	0	0.741	1.419	1.051	1.051	0.857		17.7		
Head	LTE Band 30	10	QPSK	F	0042M	1:1	-0.02	2310.00	27710	0.0	18.0	16.51	25	12	Right Tilt	0	0.703	1.409	0.991	0.991	0.829		18.0		
Head	LTE Band 30	10	QPSK	F	0042M	1:1	-0.01	2310.00	27710	0.0	18.0	16.46	50	0	Right Tilt	0	0.755	1.426	1.048	1.048	0.855		17.7		
Head	LTE Band 30	10	QPSK	F	0042M	1:1	0.20	2310.00	27710	0.0	18.0	16.48	1	25	Left Cheek	0	0.787	1.419	0.949	0.949	0.343		20.6		
Head	LTE Band 30	10	QPSK	F	0042M	1:1	0.03	2310.00	27710	0.0	18.0	16.51	25	12	Left Cheek	0	0.780	1.409	0.935	0.935	0.334		20.7		
Head	LTE Band 30	10	QPSK	F	0042M	1:1	-0.19	2310.00	27710	0.0	18.0	16.48	1	25	Left Tilt	0	0.602	1.429	0.940	0.940	0.325		18.7		
Head	LTE Band 30	10	QPSK	F	0042M	1:1	-0.02	2310.00	27710	0.0	18.0	16.51	25	12	Left Tilt	0	0.574	1.409	0.909	0.909	0.306		18.9		
ANSI/IEEE C63.1-1997 - SAFETY LIMIT																		Head							
Spatial Peak																		1.6 W/kg (mW/g)							
Uncontrolled Exposure/General Population																		averaged over 1 gram							

Table 12-45

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio [1g SAR]	Pict #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]
Body-worn/Hotspot	LTE Band 30	10	QPSK	A	0055M	1:1	0.18	2310.00	27710	0.0	20.5	19.80	1	0	Back	10	0.301	1.175	0.354	0.354	0.221		25.0		
Body-worn/Hotspot	LTE Band 30	10	QPSK	A	0055M	1:1	0.09	2310.00	27710	0.0	20.5	19.84	25	0	Back	10	0.180	1.164	0.361	0.361	0.206	A36	24.9		
Hotspot	LTE Band 30	10	QPSK	A	0055M	1:1	0.09	2310.00	27710	0.0	20.5	19.80	1	0	Front	10	0.276	1.175	0.324	0.324	0.203		25.3		
Hotspot	LTE Band 30	10	QPSK	A	0055M	1:1	0.02	2310.00	27710	0.0	20.5	19.84	25	0	Front	10	0.281	1.164	0.327	0.327	0.204		25.3		
Hotspot	LTE Band 30	10	QPSK	A	0055M	1:1	-0.16	2310.00	27710	0.0	20.5	19.80	1	0	Bottom	10	0.668	1.175	0.793	0.793	0.489		21.5		
Hotspot	LTE Band 30	10	QPSK	A	0055M	1:1	-0.02	2310.00	27710	0.0	20.5	19.84	25	0	Bottom	10	0.681	1.164	0.796	0.796	0.490	A37	21.5		
Hotspot	LTE Band 30	10	QPSK	A	0055M	1:1	-0.10	2310.00	27710	0.0	20.5	19.80	1	0	Right	10	0.074	1.175	0.087	0.087	0.054		31.1		
Hotspot	LTE Band 30	10	QPSK	A	0055M	1:1	-0.10	2310.00	27710	0.0	20.5	19.84	25	0	Right	10	0.073	1.164	0.085	0.085	0.053		31.2		
Hotspot	LTE Band 30	10	QPSK	A	0055M	1:1	-0.16	2310.00	27710	0.0	20.5	19.80	1	0	Left	10	0.060	1.175	0.071	0.071	0.044		32.0		
Hotspot	LTE Band 30	10	QPSK	A	0055M	1:1	0.07	2310.00	27710	0.0	20.5	19.84	25	0	Left	10	0.060	1.164	0.070	0.070	0.044		32.0		
ANSI/IEEE C63.1-1997 - SAFETY LIMIT																		Body							
Spatial Peak																		1.6 W/kg (mW/g)							
Uncontrolled Exposure/General Population																		averaged over 1 gram							

Table 12-46

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio [1g SAR]	Pict #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]
Body-worn/Hotspot	LTE Band 30	10	QPSK	F	0055M	1:1	-0.21	2310.00	27710	0.0	21.0	19.46	1	0	Back	10	0.247	1.426	0.352	0.352	0.220		25.5		
Body-worn/Hotspot	LTE Band 30	10	QPSK	F	0055M	1:1	0.01	2310.00	27710	0.0	21.0	19.48	25	0	Back	10	0.247	1.419	0.350	0.350	0.219		25.5		
Hotspot	LTE Band 30	10	QPSK	F	0055M	1:1	-0.11	2310.00	27710	0.0	21.0	19.46	1	0	Front	10	0.113	1.426	0.304	0.304	0.190		26.1		
Hotspot	LTE Band 30	10	QPSK	F	0055M	1:1	0.02	2310.00	27710	0.0	21.0	19.48	25	0	Front	10	0.120	1.419	0.326	0.326	0.204		25.8		
Hotspot	LTE Band 30	10	QPSK	F	0055M	1:1	0.01	2310.00	27710	0.0	21.0	19.46	1	0	Top	10	0.405	1.426	0.649	0.649	0.406		22.8		
Hotspot	LTE Band 30	10	QPSK	F	0055M	1:1	-0.02	2310.00	27710	0.0	21.0	19.48	25	0	Top	10	0.464	1.419	0.658	0.658	0.411		22.8		
Hotspot	LTE Band 30	10	QPSK	F	0055M	1:1	-0.17	2310.00	27710	0.0	21.0	19.46	1	0	Left	10	0.079	1.426	0.113	0.113	0.071		30.4		
Hotspot	LTE Band 30	10	QPSK	F	0055M	1:1	-0.05	2310.00	27710	0.0	21.0	19.48	25	0	Left	10	0.079	1.419	0.112	0.112	0.070		30.5		
ANSI/IEEE C63.1-1997 - SAFETY LIMIT																		Body							
Spatial Peak																		1.6 W/kg (mW/g)							
Uncontrolled Exposure/General Population																		averaged over 1 gram							

12.14 LTE Band 7 Standalone SAR

Table 12-47

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio [SAR]	Pict #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]
Head	LTE Band 7	20	QPSK	B	0042M	1:1	-0.20	2510.00	20850	0.0	24.5	23.38	1	0	Right Cheek	0	0.120	1.127	0.135	0.135	0.249		33.1		
Head	LTE Band 7	20	QPSK	B	0042M	1:1	0.02	2510.00	20850	1.0	23.5	22.38	50	25	Right Cheek	0	0.029	1.076	0.10	0.108	0.204		33.1		
Head	LTE Band 7	20	QPSK	B	0042M	1:1	-0.13	2510.00	20850	0.0	24.5	23.08	1	0	Right Th	0	0.061	1.127	0.069	0.203	0.127		36.1		
Head	LTE Band 7	20	QPSK	B	0042M	1:1	0.03	2510.00	20850	1.0	23.5	23.38	50	25	Right ThR	0	0.050	1.076	0.054	0.200	0.125		36.1		
Head	LTE Band 7	20	QPSK	B	0042M	1:1	0.07	2510.00	20850	0.0	24.5	23.38	1	0	Left Cheek	0	0.051	1.127	0.057	0.120	0.130		36.0		
Head	LTE Band 7	20	QPSK	B	0042M	1:1	-0.16	2510.00	20850	1.0	23.5	23.38	50	25	Left Cheek	0	0.039	1.076	0.042	0.156	0.098		37.2		
Head	LTE Band 7	20	QPSK	B	0042M	1:1	0.09	2510.00	20850	0.0	24.5	23.38	1	0	Left Th	0	0.089	1.127	0.077	0.226	0.141		35.6		
Head	LTE Band 7	20	QPSK	B	0042M	1:1	1.19	2510.00	20850	1.0	23.5	23.38	50	25	Right Th	0	0.052	1.076	0.056	0.208	0.130		36.0		
UNCLASSIFIED CRL 11992 - SAFETY LIMIT																	Head								
Spatial Peak																	1.6 W/kg (mW/g)								
Announced Exposure / General Population																	averaged over 16mm								

Table 12-48

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio [1g SAR]	Pilot #	PLimit [dBm]	Overall PLimit [dBm]	EPS PLimit [dBm]
Head	LTE Band 7	20	QPSK	F	0042M	1:1	-0.02	2510.00	20850	0.0	17.0	16.30	1	0	Right Cheek	0	0.666	1.175	0.763	0.763	0.489		18.0		
Head	LTE Band 7	20	QPSK	F	0042M	1:1	-0.01	2510.00	20850	0.0	17.0	16.27	50	25	Right Cheek	0	0.646	1.183	0.764	0.764	0.478		18.1		
Head	LTE Band 7	20	QPSK	F	0042M	1:1	0.08	2510.00	20850	0.0	17.0	16.30	1	0	Right Tilt	0	0.723	1.175	0.850	0.850	0.531		12.7		
Head	LTE Band 7	20	QPSK	F	0042M	1:1	0.02	2535.00	21350	0.0	17.0	16.27	1	0	Right Tilt	0	0.647	1.211	0.784	0.784	0.480		18.0		
Head	LTE Band 7	20	QPSK	F	0042M	1:1	0.00	2560.00	21350	0.0	17.0	16.12	1	0	Right Tilt	0	0.608	1.225	0.745	0.745	0.466		18.2		
Head	LTE Band 7	20	QPSK	F	0042M	1:1	-0.02	2510.00	20850	0.0	17.0	16.27	50	25	Right Tilt	0	0.693	1.183	0.820	0.820	0.513		17.8		
Head	LTE Band 7	20	QPSK	F	0042M	1:1	-0.03	2535.00	21350	0.0	17.0	16.22	50	25	Right Tilt	0	0.693	1.197	0.758	0.758	0.474		18.2		
Head	LTE Band 7	20	QPSK	F	0042M	1:1	0.00	2560.00	21350	0.0	17.0	16.24	50	25	Right Tilt	0	0.603	1.193	0.717	0.717	0.468		18.4		
Head	LTE Band 7	20	QPSK	F	0042M	1:1	0.00	2510.00	20850	0.0	17.0	16.26	300	0	Right Tilt	0	0.793	1.186	0.869	0.869	0.543	A38	17.6		
Head	LTE Band 7	20	QPSK	F	0042M	1:1	0.10	2510.00	20850	0.0	17.0	16.30	1	0	Left Cheek	0	0.328	1.175	0.385	0.385	0.241		21.1		
Head	LTE Band 7	20	QPSK	F	0042M	1:1	0.10	2510.00	20850	0.0	17.0	16.27	50	25	Left Cheek	0	0.356	1.183	0.374	0.374	0.234		21.2		
Head	LTE Band 7	20	QPSK	F	0042M	1:1	-0.05	2510.00	20850	0.0	17.0	16.50	1	0	Left Tilt	0	0.347	1.175	0.408	0.408	0.255		20.8		
Head	LTE Band 7	20	QPSK	F	0042M	1:1	0.06	2510.00	20850	0.0	17.0	16.27	50	25	Left Tilt	0	0.338	1.183	0.400	0.400	0.250		20.9		
ANSI/IEEE C63.1 1992 - SAFETY LIMIT																	Head								
Spatial Peak																	1.6 W/kg (mW/g)								
Uncontrolled Exposure/General Population																	averaged over 1 gram								

Table 12-49

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio [1g SAR]	Pilot #	PLimit [dBm]	Overall PLimit [dBm]	EPS PLimit [dBm]
Body-worn/Hotspot	LTE Band 7	20	QPSK	B	0055M	1:1	0.07	2510.00	20850	0.0	21.0	20.66	1	0	Back	10	0.348	1.081	0.377	0.377	0.236		25.2		
Body-worn/Hotspot	LTE Band 7	20	QPSK	B	0055M	1:1	-0.10	2510.00	20850	0.0	21.0	20.49	50	25	Back	10	0.359	1.125	0.404	0.404	0.253	A39	24.9		
Hotspot	LTE Band 7	20	QPSK	B	0055M	1:1	-0.11	2510.00	20850	0.0	21.0	20.66	1	0	Front	10	0.256	1.081	0.277	0.277	0.173		26.5		
Hotspot	LTE Band 7	20	QPSK	B	0055M	1:1	-0.02	2510.00	20850	0.0	21.0	20.49	50	25	Front	10	0.268	1.125	0.302	0.302	0.189		26.2		
Hotspot	LTE Band 7	20	QPSK	B	0055M	1:1	0.05	2510.00	20850	0.0	21.0	20.66	1	0	Bottom	10	0.315	1.081	0.341	0.341	0.213		25.6		
Hotspot	LTE Band 7	20	QPSK	B	0055M	1:1	-0.03	2510.00	20850	0.0	21.0	20.49	50	25	Bottom	10	0.340	1.125	0.383	0.383	0.239		25.1		
Hotspot	LTE Band 7	20	QPSK	B	0055M	1:1	-0.05	2510.00	20850	0.0	21.0	20.66	1	0	Right	10	0.352	1.081	0.384	0.384	0.240		25.1		
Hotspot	LTE Band 7	20	QPSK	B	0055M	1:1	-0.07	2510.00	20850	0.0	21.0	20.49	50	25	Right	10	0.348	1.125	0.392	0.392	0.245		25.0		
ANSI/IEEE C63.1 1992 - SAFETY LIMIT																	Body								
Spatial Peak																	1.6 W/kg (mW/g)								
Uncontrolled Exposure/General Population																	averaged over 1 gram								

Table 12-50

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio [1g SAR]	Pilot #	PLimit [dBm]	Overall PLimit [dBm]	EPS PLimit [dBm]
Body-worn/Hotspot	LTE Band 7	20	QPSK	F	0055M	1:1	0.01	2510.00	20850	0.0	20.5	19.72	1	0	Back	10	0.200	1.197	0.359	0.359	0.224		24.9		
Body-worn/Hotspot	LTE Band 7	20	QPSK	F	0055M	1:1	0.07	2510.00	20850	0.0	20.5	19.80	50	25	Back	10	0.245	1.175	0.345	0.345	0.205		25.1		
Hotspot	LTE Band 7	20	QPSK	F	0055M	1:1	0.08	2510.00	20850	0.0	20.5	19.72	1	0	Front	10	0.247	1.197	0.296	0.296	0.185		25.7		
Hotspot	LTE Band 7	20	QPSK	F	0055M	1:1	0.03	2510.00	20850	0.0	20.5	19.80	50	25	Front	10	0.239	1.175	0.281	0.281	0.176		26.0		
Hotspot	LTE Band 7	20	QPSK	F	0055M	1:1	-0.03	2510.00	20850	0.0	20.5	19.72	1	0	Top	10	0.286	1.197	0.464	0.464	0.290	A40	23.8		
Hotspot	LTE Band 7	20	QPSK	F	0055M	1:1	-0.06	2510.00	20850	0.0	20.5	19.80	50	25	Top	10	0.303	1.175	0.450	0.450	0.281		23.9		
Hotspot	LTE Band 7	20	QPSK	F	0055M	1:1	0.08	2510.00	20850	0.0	20.5	19.72	1	0	Left	10	0.043	1.197	0.050	0.050	0.031		33.4		
Hotspot	LTE Band 7	20	QPSK	F	0055M	1:1	0.05	2510.00	20850	0.0	20.5	19.80	50	25	Left	10	0.089	1.175	0.058	0.058	0.036		32.8		
ANSI/IEEE C63.1 1992 - SAFETY LIMIT																	Body								
Spatial Peak																	1.6 W/kg (mW/g)								
Uncontrolled Exposure/General Population																	averaged over 1 gram								

12.15 LTE Band 41 Standalone SAR

Table 12-51

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio [1g SAR]	Pilot #	PLimit [dBm]	Overall PLimit [dBm]	EPS PLimit [dBm]
Head	LTE Band 41	20	QPSK	B	0088M	1:1.58	-0.06	2506.00	39750	0.0	19.0	18.26	1	99	Right Cheek	0	0.071	1.107	0.079	0.079	0.052		34.0		
Head	LTE Band 41	20	QPSK	B	0088M	1:1.58	0.00	2506.00	39750	0.0	19.0	18.27	50	50	Right Cheek	0	0.057	1.104	0.063	0.063	0.054		34.0		
Head	LTE Band 41	20	QPSK	B	0088M	1:1.58	0.04	2506.00	39750	0.0	19.0	18.26	1	99	Right Tilt	0	0.032	1.107	0.035	0.035	0.014		37.5		
Head	LTE Band 41	20	QPSK	B	0088M	1:1.58	-0.01	2510.00	39750	0.0	19.0	18.27	50	50	Right Tilt	0	0.034	1.107	0.036	0.036	0.017		37.5		
Head	LTE Band 41	20	QPSK	B	0088M	1:1.58	-0.15	2506.00	39750	0.0	19.0	18.26	1	99	Left Cheek	0	0.033	1.107	0.037	0.037	0.017		37.5		
Head	LTE Band 41	20	QPSK	B	0088M	1:1.58	-0.13	2506.00	39750	0.0	19.0	18.27	50	50	Left Cheek	0	0.023	1.104	0.025	0.025	0.013		37.5		
Head	LTE Band 41	20	QPSK	B	0088M	1:1.58	0.05	2506.00	39750	0.0	19.0	18.26	1	99	Left Tilt	0	0.054	1.107	0.038	0.038	0.021		37.2		
Head	LTE Band 41	20	QPSK	B	0088M	1:1.58	-0.16	2506.00	39750	0.0	19.0	18.27	50	50	Left Tilt	0	0.025	1.104	0.028	0.028	0.011		37.6		
ANSI/IEEE C63.1 1992 - SAFETY LIMIT																	Head								
Spatial Peak																	1.6 W/kg (mW/g)								
Uncontrolled Exposure/General Population																	averaged over 1 gram								

Table 12-52

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB
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Table 12-54

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio [1g SAR]	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]
Body-worn/Hotspot	LTE Band 41	20	QPSK	F	0088M	1:1.58	-0.03	2548.50	40185	0.0	22.5	21.97	1	0	Back	10	0.151	1.130	0.171	0.171	0.107		28.1		
Body-worn/Hotspot	LTE Band 41	20	QPSK	F	0088M	1:1.58	-0.03	2548.50	40185	0.0	22.5	21.95	50	0	Back	10	0.147	1.135	0.167	0.167	0.104		28.2		
Hotspot	LTE Band 41	20	QPSK	F	0088M	1:1.58	-0.04	2548.50	40185	0.0	22.5	21.97	1	0	Front	10	0.150	1.130	0.181	0.181	0.113		27.9		
Hotspot	LTE Band 41	20	QPSK	F	0088M	1:1.58	-0.05	2548.50	40185	0.0	22.5	21.95	50	0	Front	10	0.137	1.135	0.180	0.180	0.113		27.9		
Hotspot	LTE Band 41	20	QPSK	F	0088M	1:1.58	-0.10	2548.50	40185	0.0	22.5	21.97	1	0	Top	10	0.200	1.130	0.226	0.226	0.141		26.9		19.5
Hotspot	LTE Band 41	20	QPSK	F	0088M	1:1.58	-0.17	2548.50	40185	0.0	22.5	21.95	50	0	Top	10	0.103	1.135	0.230	0.230	0.144		26.9		
Hotspot	LTE Band 41	20	QPSK	F	0088M	1:1.58	-0.06	2548.50	40185	0.0	22.5	21.97	1	0	Left	10	0.036	1.130	0.041	0.041	0.020		34.4		
Hotspot	LTE Band 41	20	QPSK	F	0088M	1:1.58	0.03	2549.50	40185	0.0	22.5	21.95	50	0	Left	10	0.033	1.135	0.037	0.037	0.023		34.7		
ANSI/IEEE C63.1-1997 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Body 1.6 W/kg (mW/g) averaged over 1 gram								

12.16 LTE Band 48 Standalone SAR

Table 12-55

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio [1g SAR]	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]
Head	LTE Band 48	20	QPSK	F	0078M	1:1.58	-0.06	3540.00	55340	0.0	39.0	17.77	1	99	Right Cheek	0	N/A	0.768	1.327	1.019	1.019	0.637		16.9		
Head	LTE Band 48	20	QPSK	F	0078M	1:1.58	-0.01	3503.00	55773	0.0	39.0	17.62	1	0	Right Cheek	0	N/A	0.756	1.374	1.066	1.066	0.666		16.7		
Head	LTE Band 48	20	QPSK	F	0078M	1:1.58	0.01	3546.70	56207	0.0	39.0	17.80	1	0	Right Cheek	0	N/A	0.788	1.318	1.039	1.039	0.649		16.8		
Head	LTE Band 48	20	QPSK	F	0078M	1:1.58	0.01	3509.00	56640	0.0	39.0	17.92	1	0	Right Cheek	0	N/A	0.795	1.292	1.014	1.014	0.634		16.9		
Head	LTE Band 48	20	QPSK	F	0078M	1:1.58	-0.02	3560.00	55340	0.0	39.0	17.91	50	25	Right Cheek	0	N/A	0.729	1.295	0.937	0.937	0.586		17.2		
Head	LTE Band 48	20	QPSK	F	0078M	1:1.58	0.01	3503.00	55773	0.0	39.0	17.88	50	25	Right Cheek	0	N/A	0.680	1.294	0.880	0.880	0.550		17.5		
Head	LTE Band 48	20	QPSK	F	0078M	1:1.58	-0.01	3546.70	56207	0.0	39.0	17.93	50	50	Right Cheek	0	N/A	0.717	1.279	0.937	0.937	0.573		17.3		
Head	LTE Band 48	20	QPSK	F	0078M	1:1.58	-0.05	3509.00	56640	0.0	39.0	18.00	50	0	Right Cheek	0	N/A	0.671	1.255	1.034	1.034	0.646		16.8		
Head	LTE Band 48	20	QPSK	F	0078M	1:1.58	-0.02	3560.00	56640	0.0	39.0	17.91	100	0	Right Cheek	0	N/A	0.634	1.285	1.072	1.072	0.670		16.7		
Head	LTE Band 48	20	QPSK	F	0078M	1:1.58	0.01	3540.00	55340	0.0	39.0	17.77	1	99	Right Tilt	0	N/A	0.889	1.327	1.153	1.153	0.721		16.3		
Head	LTE Band 48	20	QPSK	F	0078M	1:1.58	-0.01	3503.00	55773	0.0	39.0	17.62	1	0	Right Tilt	0	N/A	0.845	1.374	1.241	1.241	0.755		16.3		
Head	LTE Band 48	20	QPSK	F	0078M	1:1.58	0.01	3546.70	56207	0.0	39.0	17.80	1	0	Right Tilt	0	N/A	0.879	1.318	1.159	1.159	0.724		16.3		
Head	LTE Band 48	20	QPSK	F	0078M	1:1.58	0.07	3509.00	56640	0.0	39.0	17.92	1	0	Right Tilt	0	N/A	0.921	1.282	1.181	1.181	0.738		16.2		
Head	LTE Band 48	20	QPSK	F	0078M	1:1.58	-0.01	3560.00	55340	0.0	39.0	17.96	50	25	Right Tilt	0	N/A	0.910	1.285	1.169	1.169	0.731		16.3		
Head	LTE Band 48	20	QPSK	F	0078M	1:1.58	-0.03	3503.00	55773	0.0	39.0	17.88	50	25	Right Tilt	0	N/A	0.870	1.294	1.126	1.126	0.704		16.5		
Head	LTE Band 48	20	QPSK	F	0078M	1:1.58	0.06	3546.70	56207	0.0	39.0	17.93	50	50	Right Tilt	0	N/A	0.907	1.279	1.160	1.160	0.725		16.3		
Head	LTE Band 48	20	QPSK	F	0078M	1:1.58	-0.01	3509.00	56640	0.0	39.0	18.00	50	0	Right Tilt	0	N/A	0.949	1.229	1.193	1.193	0.739	A41	16.2		
Head	LTE Band 48	20	QPSK	F	0078M	1:1.58	-0.01	3509.00	56640	0.0	39.0	17.91	100	0	Right Tilt	0	N/A	0.915	1.285	1.205	1.205	0.751		16.1		
Head	LTE Band 48	20	QPSK	F	0078M	1:1.58	0.01	3509.00	56640	0.0	39.0	17.92	1	0	Left Cheek	0	N/A	0.862	1.282	0.464	0.464	0.290		20.3		
Head	LTE Band 48	20	QPSK	F	0078M	1:1.58	-0.04	3509.00	56640	0.0	39.0	18.00	50	0	Left Cheek	0	N/A	0.918	1.259	0.451	0.451	0.282		20.4		
Head	LTE Band 48	20	QPSK	F	0078M	1:1.58	0.01	3509.00	56640	0.0	39.0	17.92	1	0	Left Tilt	0	N/A	0.880	1.282	0.487	0.487	0.304		20.1		
Head	LTE Band 48	20	QPSK	F	0078M	1:1.58	-0.02	3560.00	56640	0.0	39.0	18.00	50	0	Left Tilt	0	N/A	0.914	1.259	0.471	0.471	0.294		20.2		
Head	LTE Band 48	20	QPSK	F	0078M	1:1.58	-0.01	3509.00	56640	0.0	39.0	17.99	100	0	Right Tilt	0	LUCA 4BC	0.935	1.262	1.180	1.180	0.738		16.2		
ANSI/IEEE C63.1-1997 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Head 1.6 W/kg (mW/g) averaged over 1 gram									

Table 12-56

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio [1g SAR]	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]
Body-worn/Hotspot	LTE Band 48	20	QPSK	F	0078M	1:1.58	-0.02	3546.70	56207	0.0	22.5	21.94	1	0	Back	10	N/A	0.318	1.148	0.365	0.365	0.228	A44	24.8		
Body-worn/Hotspot	LTE Band 48	20	QPSK	F	0078M	1:1.58	-0.01	3546.70	56207	0.5	22.0	21.04	50	25	Back	10	N/A	0.364	1.247	0.329	0.329	0.205		24.8		
Hotspot	LTE Band 48	20	QPSK	F	0078M	1:1.58	-0.01	3546.70	56207	0.5	22.5	21.04	50	25	Front	10	N/A	0.340	1.148	0.380	0.380	0.245		24.8		
Hotspot	LTE Band 48	20	QPSK	F	0078M	1:1.58	-0.05	3546.70	56207	0.5	22.0	21.04	50	25	Front	10	N/A	0.343	1.247	0.376	0.376	0.210		27.5		
Hotspot	LTE Band 48	20	QPSK	F	0078M	1:1.58	0.01	3546.70	56207	0.5	22.5	21.90	1	0	Top	10	N/A	0.315	1.148	0.591	0.591	0.389	A45	22.7		19.5
Hotspot	LTE Band 48	20	QPSK	F	0078M	1:1.58	-0.01	3546.70	56207	0.5	22.0	21.04	50	25	Top	10	N/A	0.318	1.247	0.331	0.331	0.213		27.2		
Hotspot	LTE Band 48	20	QPSK	F	0078M	1:1.58	0.06	3546.70	56207	0.5	22.5	21.90	1	0	Left	10	N/A	0.375	1.148	0.686	0.686	0.354		31.1		
Hotspot	LTE Band 48	20	QPSK	F	0078M	1:1.58	0.08	3546.70	56207	0.5	22.0	21.04	50	25	Left	10	N/A	0.372	1.247	0.690	0.690	0.356		30.4		
Hotspot	LTE Band 48	20	QPSK	F	0078M	1:1.58	-0.02	3546.70	56207	0.0	22.5	21.89	1	99	Top	10	LUCA 4BC	0.471	1.151	0.542	0.542	0.339		23.1		
ANSI/IEEE C63.1-1997 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Body 1.6 W/kg (mW/g) averaged over 1 gram									

12.17 NR Band n71 Standalone SAR

Table 12-57

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio [1g SAR]	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]
Head	NR Band n71	35	QPSK	A	0078M	1:1	0.02	680.50	136100	OFDM + OFDM	0.0	25.0	24.02	1	94	Right Cheek	0	137	0.100	1.253	0.125	0.125	0.221		34.0		
Head	NR Band n71	35	QPSK	A	0078M	1:1	0.01	680.50	136100	OFDM + OFDM	0.0	25.0	24.11	99	49	Right Cheek	0	137	0.109	1.227	0.124	0.124	0.219		34.0		
Head	NR Band n71	35	QPSK	A	0078M	1:1	0.09	680.50	136100	CP-OFDM	1.5	23.5	22.25	1	1	Right Cheek	0	64	0.071	1.340	0.096	0.096	0.243		33.5		
Head	NR Band n71	35	QPSK	A	0078M	1:1	0.03	680.50	136100	OFDM + OFDM	0.0	25.0	24.02	1	94	Right Tilt	0	137	0.022	1.253	0.026	0.026	0.040		40.5		
Head	NR Band n71	35	QPSK	A	0078M	1:1	0.15	680.50	136100	OFDM + OFDM	0.0	25.0	24.11	99	49	Right Tilt	0	137	0.029	1.227	0.029	0.029	0.046		40.8		
Head	NR Band n71	35	QPSK	A	0078M	1:1	0.09	680.50	136100	OFDM + OFDM	0.0	25.0	24.02	1	94	Left Cheek	0	64	0.070	1.253	0.071	0.071	0.216		34.1		
Head	NR Band n71	35	QPSK	A	0078M	1:1	0.04	680.50	136100	OFDM + OFDM	0.0	25.0	24.11	99	49	Left Cheek	0	64	0.090	1.227	0.123	0.123	0.246		42.1		
Head	NR Band n71	35	QPSK	A	0078M	1:1	0.11	680.50	136100	OFDM + OFDM	0.0	25.0	24.07	1	94	Left Tilt	0	27	0.013	1.253	0.016	0.016	0.029		40.8		
Head	NR Band n71	35	QPSK	A	0078M	1:1	0.04	680.50	136100	OFDM + OFDM	0.0	25.0	24.11	99	49	Left Tilt	0	64	0.018	1.227	0.018	0.018	0.042		41.3		
ANSI/IEEE C63.19-2 - SAFETY LIMIT																				1.6 W/kg (mW/g)							
Spatial Peak																				averaged over 1 gram							
Uncensored Exposure General Population																											



Table 12-59

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Dens. [dBm]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RF Size	RF Offset	Target Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio	Plot #	PLM (dBm)	Overall PLM (dBm)	SFS PLM (dBm)
Body-worn/Hotspot	NR Band-n71	35	CPSK	A	0008M	1:1	0.35	680.50	136200	DTF+C-OFDM	0.0	25.0	24.02	1	94	Back	10	64	0.3977	1.253	0.247	0.341	0.213	31.0			
Body-worn/Hotspot	NR Band-n71	35	CPSK	A	0008M	1:1	0.05	680.50	136200	DTF+C-OFDM	0.0	25.0	24.02	1	94	Back	10	64	0.1227	0.232	0.026	0.330	0.203	31.1			
Hotspot	NR Band-n71	35	CPSK	A	0008M	1:1	0.01	680.50	136300	DTF+C-OFDM	0.0	25.0	24.01	1	94	Front	10	64	0.056	1.253	0.205	0.284	0.178	31.8			
Hotspot	NR Band-n71	35	CPSK	A	0008M	1:1	0.01	680.50	136200	DTF+C-OFDM	0.0	25.0	24.11	90	49	Front	10	64	0.363	1.227	0.200	0.276	0.173	31.9			
Hotspot	NR Band-n71	35	CPSK	A	0008M	1:1	0.05	680.50	136200	DTF+C-OFDM	0.0	25.0	24.02	1	94	Bottom	10	64	0.125	1.253	0.053	0.073	0.046	31.7			
Hotspot	NR Band-n71	35	CPSK	A	0008M	1:1	0.32	680.50	136300	DTF+C-OFDM	0.0	25.0	24.11	1	94	Bottom	10	64	0.090	1.227	0.055	0.076	0.048	37.5			30.4
Hotspot	NR Band-n71	35	CPSK	A	0008M	1:1	0.30	680.50	136200	DTF+C-OFDM	0.0	25.0	24.02	1	94	Right	10	64	0.392	1.253	0.244	0.332	0.208	31.5			
Hotspot	NR Band-n71	35	CPSK	A	0008M	1:1	0.05	680.50	136200	DTF+C-OFDM	0.0	25.0	24.11	90	49	Right	10	64	0.363	1.227	0.200	0.276	0.173	31.9			
Hotspot	NR Band-n71	35	CPSK	A	0008M	1:1	0.01	680.50	136300	CP-OFDM	1.5	23.5	22.23	1	1	Right	10	64	0.142	1.340	0.204	0.397	0.248	30.7			
Hotspot	NR Band-n71	35	CPSK	A	0008M	1:1	0.30	680.50	136200	DTF+C-OFDM	0.0	25.0	24.02	1	94	Left	10	137	0.456	1.253	0.182	0.251	0.157	32.4			
Hotspot	NR Band-n71	35	CPSK	A	0008M	1:1	0.05	680.50	136300	DTF+C-OFDM	0.0	25.0	24.11	90	49	Left	10	137	0.351	1.227	0.083	0.266	0.166	32.1			
ANALYSIS CHS1.000 - SAFETYLIMIT																											
Spatial Peak																											
1.6 W/kg (mW/g)																											
Compliance with FCC Part 15.247 and FCC Part 15.249																											

Table 12-60

TABLE 12-68																										
Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power DnH [dB]	Frequency [MHz]	Channel #	Waveform	MRR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RIS Size	RIS Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Rate [W/kg]	P10t	P10m	Overall P10m	SFR P10m [dBm]
Body-worn/hotspot	NR Band n75	35	QPSK	E	0078M	1:1	-0.01	680.50	136100	DP-T-S-OFDM	0.0	25.0	24.39	1	94	Back	0	0.321	1.151	0.437	0.777	0.406			28.6	
Body-worn/hotspot	NR Band n75	35	QPSK	E	0078M	1:1	0.05	680.50	136100	DP-T-S-OFDM	0.0	25.0	24.35	90	40	Back	0	0.373	1.161	0.433	0.768	0.409	A47	28.6		
Hotspot	NR Band n75	35	QPSK	E	0080M	1:1	0.01	680.50	136100	DP-T-S-OFDM	0.0	25.0	24.39	1	94	Front	0	0.331	1.151	0.381	0.609	0.433		28.1		
Hotspot	NR Band n75	35	QPSK	E	0080M	1:1	0.03	680.50	136100	DP-T-S-OFDM	0.0	25.0	24.35	90	40	Front	0	0.377	1.161	0.380	0.601	0.432		28.2		
Hotspot	NR Band n75	35	QPSK	E	0078M	1:1	-0.13	680.50	136100	DP-T-S-OFDM	0.0	25.0	24.39	1	94	Top	0	0.362	1.151	0.440	0.800	0.500	A48	28.5	27.4	
Hotspot	NR Band n75	35	QPSK	E	0078M	1:1	0.00	680.50	136100	DP-T-S-OFDM	0.0	25.0	24.35	90	49	Top	0	0.375	1.163	0.435	0.792	0.405		28.6		
Hotspot	NR Band n75	35	QPSK	E	0080M	1:1	-0.13	680.50	136100	DP-T-S-OFDM	0.0	25.0	24.35	90	49	Top	0	0.371	1.163	0.436	0.787	0.404		28.1		
Hotspot	NR Band n75	35	QPSK	E	0080M	1:1	0.00	680.50	136100	DP-T-S-OFDM	0.0	25.0	24.39	1	94	Right	0	0.295	1.151	0.328	0.597	0.373		29.6		
Hotspot	NR Band n75	35	QPSK	E	0080M	1:1	0.01	680.50	136100	DP-T-S-OFDM	0.0	25.0	24.35	90	49	Right	0	0.295	1.163	0.342	0.623	0.389		29.6		
Spatial Peak												ANSI/IEEE C63.19-2019 - SAFETY LIMIT											Body			
Spatial Peak												1.6 W/kg (mW/g)											1.6 W/kg (mW/g)			
Maximum Permissible Exposure (MPE) for General Population																										

12.18 NR Band n12 Standalone SAR

Table 12-61

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power DfB (dBm)	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power (dBm)	Conducted Power (dBm)	RIS Size	RIS Offset	Test Position	Spacing [mm]	Tune status	Measured IIS SAR [W/kg]	Power Scaling Factor	Reported IIS SAR [W/kg]	Adjusted IIS SAR [W/kg]	Exposure Ratio (IIS SAR)	Pilot #	Film# (dcm)	Cover# Film# (dcm)	EFS Film# (dcm)	
Head	NIR Band#12	15	CPSK	A	0078M	1:1	-0.07	707.50	141500	EPT-s+OFDM	0.0	25.0	24.12	1	40	Right Cheek	0	224	0.111	1.225	0.168	0.140	0.211	32.1				
Head	NIR Band#12	15	CPSK	A	0089M	1:1	-0.06	707.50	141500	EPT-s+OFDM	0.0	25.0	24.12	35	22	Left Thigh	0	224	0.198	1.225	0.261	0.230	0.345	51.8				
Head	NIR Band#12	15	CPSK	A	0095M	1:1	-0.07	707.50	141500	EPT-s+OFDM	0.0	25.0	24.12	1	40	Right Thr	0	27	0.020	1.225	0.031	0.004	0.040	40.1				
Head	NIR Band#12	15	CPSK	A	0096M	1:1	-0.06	707.50	141500	EPT-s+OFDM	0.0	25.0	24.12	35	22	Left Thigh	0	27	0.020	1.216	0.031	0.004	0.040	40.1				
Head	NIR Band#12	15	CPSK	A	0078M	1:1	-0.04	707.50	141500	EPT-s+OFDM	0.0	25.0	24.12	1	40	Left Thigh	0	27	0.443	1.225	0.175	0.166	0.229	32.5	32.5	28.0		
Head	NIR Band#12	15	CPSK	A	0078M	1:1	-0.06	707.50	141500	EPT-s+OFDM	0.0	25.0	24.12	35	22	Left Thigh	0	27	0.442	1.216	0.172	0.163	0.226	32.1				
Head	NIR Band#12	15	CPSK	A	0078M	1:1	-0.07	707.50	141500	CP-OFDM	0.0	25.0	24.12	1	40	Left Thigh	0	27	0.089	1.216	0.089	0.089	0.116	11.6				
Head	NIR Band#12	15	CPSK	A	0095M	1:1	-0.18	707.50	141500	EPT-s+OFDM	0.0	25.0	24.12	1	40	Left Thr	0	27	0.046	1.225	0.032	0.007	0.042	39.9				
Head	NIR Band#12	15	CPSK	A	0095M	1:1	-0.02	707.50	141500	EPT-s+OFDM	0.0	25.0	24.15	35	22	Left Thr	0	27	0.008	1.216	0.002	0.006	0.01	40.0				
ANALYZED CH# 1 SPOT - Left Eye Antenna																				Head						Overall Peak		
Unexposed Control - Right Eye Antenna																				Head						Overall Peak		
Unexposed Control - Left Eye Antenna																				Head						Overall Peak		
Unexposed Control - Right Eye Antenna																				Head						Overall Peak		

Table 12-62

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Act.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot	Field [dBm]	Overall [dBm]	RFS [dBm]
Head	NR Band n12	15	QPSK	E	0080A	1:1	-0.03	707.50	141500	DF-TS-OFDM	0.0	22.5	21.73	1	1	Right Cheek	0	0.506	1.194	0.604	0.604	0.378	24.6			
Head	NR Band n12	15	QPSK	E	0080B	1:1	0.00	707.50	141500	DF-TS-OFDM	0.0	22.5	21.73	36	0	Right Cheek	0	0.528	1.199	0.633	0.633	0.396	24.6			
Head	NR Band n12	15	QPSK	E	0080C	1:1	0.01	707.50	141500	DF-TS-OFDM	0.0	22.5	21.73	1	1	Right Tilt	0	0.408	1.194	0.485	0.485	0.303	25.6			
Head	NR Band n12	15	QPSK	E	0080B	1:1	0.02	707.50	141500	DF-TS-OFDM	0.0	22.5	21.73	36	0	Right Tilt	0	0.407	1.199	0.488	0.488	0.305	25.6			
Head	NR Band n12	15	QPSK	E	0078B	1:1	0.07	707.50	141500	DF-TS-OFDM	0.0	22.5	21.73	1	1	Left Cheek	0	0.681	1.194	0.813	0.813	0.508	23.3			
Head	NR Band n12	15	QPSK	E	0078B	1:1	-0.03	707.50	141500	DF-TS-OFDM	0.0	22.5	21.73	36	0	Left Cheek	0	0.598	1.199	0.590	0.590	0.372	23.3		22.9	
Head	NR Band n12	15	QPSK	E	0078B	1:1	0.03	707.50	141500	DF-TS-OFDM	0.0	22.5	21.99	75	0	Left Cheek	0	0.730	1.233	0.900	0.900	0.563	22.3	4.49	22.9	
Head	NR Band n12	15	QPSK	E	0078B	1:1	0.05	707.50	141500	CP-OFDM	0.0	22.5	22.04	1	1	Left Cheek	0	0.717	1.112	0.797	0.797	0.498	23.4			
Head	NR Band n12	15	QPSK	E	0078B	1:1	0.12	707.50	141500	DF-TS-OFDM	0.0	22.5	21.79	1	1	Left Tilt	0	0.569	1.194	0.679	0.679	0.424	24.1			
Head	NR Band n12	15	QPSK	E	0078A	1:1	0.03	707.50	141500	DF-TS-OFDM	0.0	22.5	21.73	36	0	Left Tilt	0	0.597	1.199	0.716	0.716	0.468	23.9			
ANSI/IEEE C63.1982-1 SAFETY LIMIT																		Head								
Spatial Peak																		1.6 W/kg (mW/g)								
Uncontrolled (Unintentional) General Population																										

Table 12-63

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RF Size	RB Offset	Test Position	Spacing [mm]	Tune state	Measured Iq SAR [W/kg]	Power Scaling Factor	Reported Iq SAR [W/kg]	Adjusted Iq SAR [W/kg]	Exposure Rate [G/Sq]	Plot #	Pinlet [dBm]	Overall Pinlet [dBm]	RFs Pinlet [dBm]
Body worn/Hotspot	NR Band=n12	15	QPSK	A	0089BM	1:1	0.12	707.50	141500	DFT-s-OFDM	0.0	25.0	24.12	1	40	Back	10	63	0.214	1.225	0.262	0.345	0.216	30.8			
Body worn/Hotspot	NR Band=n12	15	QPSK	A	0089BM	1:1	0.21	707.50	141500	DFT-s-OFDM	0.0	25.0	24.12	1	36	22	Front	10	63	0.751	1.216	0.351	0.345	0.346	31.8		
Body worn/Hotspot	NR Band=n12	15	QPSK	A	0089BM	1:1	0.03	707.50	141500	CP-OFDM	1.5	23.5	22.78	1	1	Back	10	63	0.132	1.180	0.148	0.275	0.127	31.8			
Hotspot	NR Band=n12	15	QPSK	A	0089BM	1:1	0.00	707.50	141500	DFT-s-OFDM	0.0	25.0	24.12	1	40	Front	10	63	0.158	1.225	0.194	0.255	0.139	32.1			
Hotspot	NR Band=n12	15	QPSK	A	0089BM	1:1	0.00	707.50	141500	DFT-s-OFDM	0.0	25.0	24.12	1	36	22	Front	10	63	0.561	1.216	0.308	0.265	0.350	32.1		
Hotspot	NR Band=n12	15	QPSK	A	0089BM	1:1	0.08	707.50	141500	DFT-s-OFDM	0.0	25.0	24.12	1	40	Bottom	10	63	0.051	1.225	0.062	0.082	0.051	37.0	30.8		26.1
Hotspot	NR Band=n12	15	QPSK	A	0089BM	1:1	0.08	707.50	141500	DFT-s-OFDM	0.0	25.0	24.15	36	22	Bottom	10	63	0.051	1.216	0.062	0.082	0.051	37.0			
Hotspot	NR Band=n12	15	QPSK	A	0089BM	1:1	0.00	707.50	141500	DFT-s-OFDM	0.0	25.0	24.12	1	40	Right	10	63	0.132	1.216	0.148	0.275	0.127	31.8			
Hotspot	NR Band=n12	15	QPSK	A	0089BM	1:1	0.01	707.50	141500	DFT-s-OFDM	0.0	25.0	24.15	36	22	Right	10	63	0.304	1.216	0.248	0.327	0.200	31.0			
Hotspot	NR Band=n12	15	QPSK	A	0089BM	1:1	0.11	707.50	141500	DFT-s-OFDM	0.0	25.0	24.12	1	40	Left	10	63	0.158	1.225	0.187	0.247	0.154	32.2			
Hotspot	NR Band=n12	15	QPSK	A	0089BM	1:1	0.08	707.50	141500	DFT-s-OFDM	0.0	25.0	24.15	36	22	Left	10	63	0.599	1.216	0.193	0.255	0.159	32.1			
ANSI C61.1 1002 - SAFETY LIMIT																				Body						1.6 W/kg [mW/kg]	
Spatial Peak																				Spatial Peak						1.6 W/kg [mW/kg]	
Maximum Permissible Exposure - General Population																				Maximum Permissible Exposure - General Population						1.6 W/kg [mW/kg]	

Table 12-64

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power DUT [dB]	Frequency [MHz]	Channel #	Waveform	MRR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RIS Size	RIS Offset	Test Position	Spacing [mm]	Measured I _{RF} [mW/kg]	Power Factor	Reported I _{RF} [mW/kg]	Adjusted I _{RF} [mW/kg]	Exposure Rate [μW/kg]	Pilot #	Pilot [dBm]	Overall Pilot [dBm]	RFS Pilot [dBm]
Body_worn/Hotspot	NIR Band n12	15	GPSSK	E	0708M	1:1	-0.03	707.50	141500	DFT-S-OFDMA	0.0	25.0	24.44	1	40	Back	10	0.308	1.138	0.398	0.633	0.404		28.9		
Body_worn/Hotspot	NIR Band n12	15	GPSSK	E	0708M	1:1	0.03	707.50	141500	DFT-S-OFDMA	0.0	25.0	24.44	36	22	Right	10	0.363	1.138	0.411	0.651	0.427	A50	28.8		
Hotspot	NIR Band n12	15	GPSSK	E	0080M	1:1	-0.02	707.50	141500	DFT-S-OFDMA	0.0	25.0	24.44	1	40	Front	10	0.317	1.138	0.363	0.572	0.358		29.4		
Hotspot	NIR Band n12	15	GPSSK	E	0080M	1:1	0.00	707.50	141500	DFT-S-OFDMA	0.0	25.0	24.44	36	22	Front	10	0.330	1.138	0.364	0.577	0.361		29.3		
Hotspot	NIR Band n12	15	GPSSK	E	0708M	1:1	-0.02	707.50	141500	DFT-S-OFDMA	0.0	25.0	24.44	1	40	Top	10	0.372	1.138	0.423	0.671	0.419		28.7		
Hotspot	NIR Band n12	15	GPSSK	E	0708M	1:1	-0.03	707.50	141500	DFT-S-OFDMA	0.0	25.0	24.44	36	22	Top	10	0.385	1.138	0.434	0.687	0.429	A51	28.6		
Hotspot	NIR Band n12	15	GPSSK	E	0080M	1:1	-0.03	707.50	141500	DFT-S-OFDMA	0.0	25.0	24.44	1	40	Right	10	0.361	1.138	0.404	0.649	0.425		28.7		
Hotspot	NIR Band n12	15	GPSSK	E	0080M	1:1	0.04	707.50	141500	DFT-S-OFDMA	0.0	25.0	24.44	1	40	Top	10	0.377	1.138	0.429	0.680	0.426		28.6		
Hotspot	NIR Band n12	15	GPSSK	E	0080M	1:1	0.10	707.50	141500	DFT-S-OFDMA	0.0	25.0	24.44	36	22	Right	10	0.381	1.138	0.434	0.687	0.429		28.6		
ANALYZER CELL 1 (RIS - SAFETY LIMIT)																		Body		1.6 W/kg (mW/g)						
Spatial Peak																		Body		1.6 W/kg (mW/g)						

FCC ID: A3LSMS938U	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
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12.19 NR Band n14 Standalone SAR

Table 12-65

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Dcft [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio [1g SAR]	Plot #	Pinnt [dBm]	Overall Pinnt [dBm]	EPS Pinnt [dBm]
Head	NR Band n14	10	QPSK	A	0078M	1:1	0.07	793.00	158600	DFT-s-OFDM	0.0	25.0	23.84	1	1	Right Cheek	0	117	0.096	1.306	0.125	0.138	0.711	34.0			
Head	NR Band n14	10	QPSK	A	0078M	1:1	-0.01	793.00	158600	DFT-s-OFDM	0.0	25.0	23.58	25	14	Right Cheek	0	117	0.086	1.387	0.119	0.121	0.301	34.2			
Head	NR Band n14	10	QPSK	A	0095M	1:1	0.00	793.00	158600	DFT-s-OFDM	0.0	25.0	23.84	1	0	Right Tilt	0	0	0.020	1.306	0.026	0.070	0.044	40.8			
Head	NR Band n14	10	QPSK	A	0095M	1:1	0.09	793.00	158600	DFT-s-OFDM	0.0	25.0	23.58	25	14	Right Tilt	0	0	0.020	1.387	0.026	0.070	0.044	40.7			
Head	NR Band n14	10	QPSK	A	0078M	1:1	-0.14	783.00	158600	DFT-s-OFDM	0.0	25.0	23.84	1	1	Left Cheek	0	117	0.103	1.306	0.133	0.109	0.226	33.7			
Head	NR Band n14	10	QPSK	A	0078M	1:1	0.04	793.00	158600	DFT-s-OFDM	0.0	25.0	23.58	25	14	Left Cheek	0	117	0.092	1.387	0.128	0.143	0.214	33.9			
Head	NR Band n14	10	QPSK	A	0078M	1:1	0.01	793.00	158600	CP-OFDM	1.5	23.5	22.35	1	1	Left Cheek	0	117	0.079	1.303	0.095	0.162	0.228	33.7			
Head	NR Band n14	10	QPSK	A	0095M	1:1	0.04	793.00	158600	DFT-s-OFDM	0.0	25.0	23.84	1	1	Left Tilt	0	63	0.022	1.306	0.029	0.077	0.048	40.4			
Head	NR Band n14	10	QPSK	A	0095M	1:1	0.07	793.00	158600	DFT-s-OFDM	0.0	25.0	23.58	25	14	Left Tilt	0	63	0.022	1.387	0.031	0.082	0.051	40.1			
ANSI/IEEE C63.1992, SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																			Head 1.6 W/kg (mW/g) averaged over 1 gram								

Table 12-66

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Dcft [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio [1g SAR]	Plot #	Pinch [dBm]	Overall Pinch [dBm]	RFSP Pinch [dBm]		
Head	NR Band n14	10	QPSK	E	0085M	1:1	0.02	793.00	158600	DFT-s-OFDM	0.0	22.5	21.46	1	50	Right Cheek	0	0.462	1.271	0.839	0.839	0.118	23.3					
Head	NR Band n14	10	QPSK	E	0085M	1:1	0.00	793.00	158600	DFT-s-OFDM	0.0	22.5	21.36	25	14	Right Cheek	0	0.428	1.300	0.806	0.806	0.104	23.4					
Head	NR Band n14	10	QPSK	E	0085M	1:1	0.01	793.00	158600	DFT-s-OFDM	0.0	22.5	21.20	50	0	Right Cheek	0	0.410	1.349	0.823	0.823	0.114	23.3					
Head	NR Band n14	10	QPSK	E	0091M	1:1	0.02	793.00	158600	DFT-s-OFDM	0.0	22.5	21.46	1	50	Right Tilt	0	0.403	1.271	0.839	0.839	0.103	24.1					
Head	NR Band n14	10	QPSK	E	0085M	1:1	-0.03	793.00	158600	DFT-s-OFDM	0.0	22.5	21.36	25	14	Right Tilt	0	0.443	1.300	0.706	0.706	0.441	24.0					
Head	NR Band n14	10	QPSK	E	0078M	1:1	0.01	793.00	158600	DFT-s-OFDM	0.0	22.5	21.46	1	50	Left Cheek	0	0.587	1.271	0.746	0.746	0.468	23.7	23.2	21.5			
Head	NR Band n14	10	QPSK	E	0078M	1:1	0.04	793.00	158600	DFT-s-OFDM	0.0	22.5	21.36	25	14	Left Cheek	0	0.421	1.300	0.807	0.807	0.104	23.4					
Head	NR Band n14	10	QPSK	E	0078M	1:1	-0.01	793.00	158600	DFT-s-OFDM	0.0	22.5	21.20	50	0	Left Cheek	0	0.610	1.349	0.835	0.835	0.122	23.2					
Head	NR Band n14	10	QPSK	E	0078M	1:1	-0.04	793.00	158600	CP-OFDM	0.0	22.5	21.31	1	1	Left Cheek	0	0.673	1.256	0.845	0.845	0.128	23.2	452	23.2			
Head	NR Band n14	10	QPSK	E	0078M	1:1	0.04	793.00	158600	DFT-s-OFDM	0.0	22.5	21.46	1	50	Left Tilt	0	0.488	1.271	0.748	0.748	0.468	23.1					
Head	NR Band n14	10	QPSK	E	0078M	1:1	0.11	793.00	158600	DFT-s-OFDM	0.0	22.5	21.36	25	14	Left Tilt	0	0.621	1.300	0.807	0.807	0.104	23.4					
ANSI/IEEE C63.1992 - SAFETY LIMIT																			Head									
Spatial Peak																			1.6 W/kg (mW/g)									
Uncontrolled Exposure/General Population																			averaged over 1 gram									

Table 12-67

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Dcft [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio [1g SAR]	Plot #	Pinnt [dBm]	Overall Pinnt [dBm]	EPS Pinnt [dBm]
Body worn/Hotspot	NR Band n14	10	QPSK	A	0078M	1:1	0.00	793.00	158600	DFT-s-OFDM	0.0	25.0	23.84	1	1	Back	10	117	0.286	1.306	0.347	0.534	0.321	29.5			
Body worn/Hotspot	NR Band n14	10	QPSK	A	0078M	1:1	0.00	793.00	158600	DFT-s-OFDM	0.0	25.0	23.58	25	14	Back	10	117	0.281	1.387	0.380	0.576	0.380	29.0			
Body worn/Hotspot	NR Band n14	10	QPSK	A	0078M	1:1	-0.05	793.00	158600	CP-OFDM	1.5	23.5	22.35	1	1	Back	10	117	0.388	1.303	0.245	0.512	0.320	29.6			
Hotspot	NR Band n14	10	QPSK	A	0078M	1:1	0.00	793.00	158600	DFT-s-OFDM	0.0	25.0	23.84	1	1	Front	10	117	0.277	1.306	0.357	0.534	0.311	29.7			
Hotspot	NR Band n14	10	QPSK	A	0078M	1:1	0.06	793.00	158600	DFT-s-OFDM	0.0	25.0	23.58	25	14	Front	10	117	0.175	1.387	0.234	0.389	0.224	31.1			
Hotspot	NR Band n14	10	QPSK	A	0078M	1:1	0.00	793.00	158600	DFT-s-OFDM	0.0	25.0	23.84	1	1	Bottom	10	117	0.072	1.306	0.094	0.139	0.087	35.2	29.0	26.7	
Hotspot	NR Band n14	10	QPSK	A	0078M	1:1	0.00	793.00	158600	DFT-s-OFDM	0.0	25.0	23.58	25	14	Bottom	10	117	0.087	1.387	0.093	0.117	0.096	35.3			
Hotspot	NR Band n14	10	QPSK	A	0078M	1:1	-0.19	793.00	158600	DFT-s-OFDM	0.0	25.0	23.84	1	1	Right	10	117	0.098	1.306	0.128	0.185	0.119	33.9			
Hotspot	NR Band n14	10	QPSK	A	0078M	1:1	0.07	793.00	158600	DFT-s-OFDM	0.0	25.0	23.58	25	14	Right	10	117	0.083	1.387	0.115	0.170	0.106	34.3			
Hotspot	NR Band n14	10	QPSK	A	0078M	1:1	-0.08	793.00	158600	DFT-s-OFDM	0.0	25.0	23.84	1	1	Left	10	117	0.101	1.306	0.200	0.256	0.149	31.9			
Hotspot	NR Band n14	10	QPSK	A	0078M	1:1	-0.17	793.00	158600	DFT-s-OFDM	0.0	25.0	23.58	25	14	Left	10	117	0.108	1.387	0.219	0.324	0.203	31.5			
Spatial Peak Uncontrolled Exposure/General Population																			Body 1.6 W/kg (mW/g) averaged over 1 gram								

Table 12-68

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Dcft [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio [1g SAR]	Plot #	Pinnt [dBm]	Overall Pinnt [dBm]	EPS Pinnt [dBm]	
Body worn/Hotspot	NR Band n14	10	QPSK	E	0078M	1:1	-0.04	793.00	158600	DFT-s-OFDM	0.0	25.0	24.07	1	1	Back	10	0.417	1.239	0.517	0.800	0.500	A53	27.8			
Body worn/Hotspot	NR Band n14	10	QPSK	E	0078M	1:1	-0.11	793.00	158600	DFT-s-OFDM	0.0	25.0	23.82	25	14	Back	10	0.414	1.282	0.531	0.822	0.514	27.7				
Hotspot	NR Band n14	10	QPSK	E	0085M	1:1	0.00	793.00	158600	DFT-s-OFDM	0.0	25.0	24.07	1	1	Front	10	0.408	1.239	0.567	0.879	0.549	27.4				
Hotspot	NR Band n14	10	QPSK	E	0085M	1:1	0.00	793.00	158600	DFT-s-OFDM	0.0	25.0	23.82	25	14	Front	10	0.461	1.282	0.591	0.916	0.573	27.2				
Hotspot	NR Band n14	10	QPSK	E	0078M	1:1	0.00	793.00	158600	DFT-s-OFDM	0.0	25.0	24.07	1	1	Top	10	0.485	1.239	0.605	0.926	0.565	27.1				
Hotspot	NR Band n14	10	QPSK	E	0078M	1:1	0.00	793.00	158600	DFT-s-OFDM	0.0	25.0	23.82	25	14	Top	10	0.483	1.282	0.619	0.959	0.589	27.0				
Hotspot	NR Band n14	10	QPSK	E	0085M	1:1	-0.01	793.00	158600	DFT-s-OFDM	0.0	25.0	24.07	1	1	Right	10	0.596	1.239	0.627	0.971	0.607	A54	27.0			
Hotspot	NR Band n14	10	QPSK	E	0085M	1:1	-0.05	793.00	158600	DFT-s-OFDM	0.0	25.0	23.82	25	14	Right	10	0.464	1.282	0.623	0.961	0.613	26.5				
Hotspot	NR Band n14	10	QPSK	E	0085M	1:1	0.00	793.00	158600	CP-OFDM	1.5	23.5	22.31	1	1	Right	10	0.504	1.256	0.445	0.973	0.608	27.0				
ANU/IEEE C95.1-2022 - SAFETY LIMIT																			Body								
Spatial Peak																			1.6 W/kg (mW/g)								
Uncontrolled Exposure/General Population																			averaged over 1 gram								

12.20 NR Band n26 Standalone SAR

Table 12-69

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Dcft [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dbm]	Conducted Power [dbm]	RB Size	RB Offset	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Pinnt [dbm]	Overall Pinnt [dbm]	EPS Pinnt [dbm]
Head	NR Band n26	20	QPSK	A	0078M	1:1	0.07	831.50	166300	DFT-s-OFDM	0.0	25.0	24.22	1	53	Right Cheek	0	63	0.077	1.197	0.092	0.105	0.193	35.3			
Head	NR Band n26	20	QPSK	A	0078M	1:1	-0.05	831.50	166300	DFT-s-OFDM	0.0	25.0	24.11	50	28	Right Cheek	0	63	0.058	1.227	0.096	0.117	0.188	35.1			
Head	NR Band n26	20	QPSK	A	0095M	1:1	-0.15	831.50	166300	DFT-s-OFDM	0.0	25.0	24.22	1	53	Right Leg	0	63	0.056	1.197	0.059	0.059	0.059	34.7			
Head	NR Band n26	20	QPSK	A	0095M	1:1	-0.09	831.50	166300	DFT-s-OFDM	0.0	25.0	24.11	50	28	Right Leg	0	63	0.057	1.227	0.057	0.083	0.086	34.6			
Head	NR Band n26	20	QPSK	A	0078M	1:1	0.03	831.50	166300	DFT-s-OFDM	0.0	25.0	24.22	1	53	Left Cheek	0	63	0.068	1.197	0.105	0.140	0.218	34.4			
Head	NR Band n26	20	QPSK	A	0078M	1:1	-0.11	831.50	166300	DFT-s-OFDM	0.0	25.0	24.11	50	28	Left Cheek	0	63	0.056	1.227	0.056	0.078	0.080	34.3			
Head	NR Band n26	20	QPSK	A	0095M	1:1	0.02	831.50	166300	CP-OFDM	1.5	23.5	22.65	1	1	Left Cheek	0	63	0.050	1.216	0.061	0.284	0.176	35.0			
Head	NR Band n26	20	QPSK	A	0095M	1:1	-0.14	831.50	166300	DFT-s-OFDM	0.0	25.0	24.22	1	53	Left Leg	0	63	0.054	1.197	0.029	0.059	0.059	34.6			
Head	NR Band n26	20	QPSK	A	0095M	1:1	0.06	831.50	166300	DFT-s-OFDM	0.0	25.0	24.11	50	28	Left Leg	0	63	0.051	1.227	0.028	0.033	0.033	34.4			
UNCLASSIFIED 3.0.1992 - SAFETY LIMIT																											
Special Population																											
Uncontrolled Exposure: General Population																											
1.6 W/kg (mW/g) averaged over 9 gram																											



Table 12-70

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio [1g SAR]	Plot #	Plimt [dBm]	Overall Plimt [dBm]	EPS Plimt [dBm]
Head	NR Band n70	20	QPSK	E	0080M	1:1	-0.03	831.50	166300	DFT-s-OFDM	0.0	22.0	21.23	1	1	Right Cheek	0	0.638	1.194	0.763	0.763	0.477		23.1		
Head	NR Band n70	20	QPSK	E	0080M	1:1	-0.01	831.50	166300	DFT-s-OFDM	0.0	22.0	21.06	50	28	Right Cheek	0	0.635	1.242	0.809	0.809	0.506		22.9		
Head	NR Band n70	20	QPSK	E	0080M	1:1	-0.04	831.50	166300	DFT-s-OFDM	0.0	22.0	21.06	500	0	Right Cheek	0	0.629	1.245	0.783	0.783	0.489		23.0		
Head	NR Band n70	20	QPSK	E	0080M	1:1	-0.05	831.50	166300	DFT-s-OFDM	0.0	22.0	21.23	1	1	Right Tilt	0	0.482	1.194	0.576	0.576	0.380		24.3		
Head	NR Band n70	20	QPSK	E	0078M	1:1	0.01	831.50	166300	DFT-s-OFDM	0.0	22.0	21.05	50	28	Right Tilt	0	0.535	1.242	0.660	0.660	0.413		23.8		
Head	NR Band n70	20	QPSK	E	0078M	1:1	0.05	831.50	166300	DFT-s-OFDM	0.0	22.0	21.23	1	1	Left Cheek	0	0.755	1.194	0.901	0.901	0.583		22.4		
Head	NR Band n70	20	QPSK	E	0078M	1:1	-0.03	831.50	166300	DFT-s-OFDM	0.0	22.0	21.06	50	28	Left Cheek	0	0.777	1.242	0.865	0.865	0.603	A55	23.1		
Head	NR Band n70	20	QPSK	E	0078M	1:1	-0.03	831.50	166300	DFT-s-OFDM	0.0	22.0	21.05	500	0	Left Cheek	0	0.759	1.245	0.945	0.945	0.591		22.2		
Head	NR Band n70	20	QPSK	E	0078M	1:1	0.08	831.50	166300	CP-OFDM	0.0	22.0	21.24	1	1	Left Cheek	0	0.749	1.191	0.885	0.885	0.553		22.5		
Head	NR Band n70	20	QPSK	E	0078M	1:1	0.09	831.50	166300	DFT-s-OFDM	0.0	22.0	21.23	1	13	Left Tilt	0	0.686	1.194	0.795	0.795	0.487		22.8		
Head	NR Band n70	20	QPSK	E	0078M	1:1	0.07	831.50	166300	DFT-s-OFDM	0.0	22.0	21.06	50	28	Left Tilt	0	0.734	1.242	0.887	0.887	0.554		22.5		
Head	NR Band n70	20	QPSK	E	0078M	1:1	0.07	831.50	166300	DFT-s-OFDM	0.0	22.0	21.05	500	0	Left Tilt	0	0.679	1.245	0.845	0.845	0.528		22.7		
ANSI/IEEE C63.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		Head 1.6 W/kg (mW/g) averaged over 1 gram								

Table 12-71

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio [1g SAR]	Plot #	Plimt [dBm]	Overall Plimt [dBm]	EPS Plimt [dBm]
Body worn/Hotspot	NR Band n70	20	QPSK	A	0078M	1:1	-0.06	831.50	166300	DFT-s-OFDM	0.0	25.0	24.22	1	53	Back	10	63	0.234	1.197	0.380	0.572	0.308		30.5		
Body worn/Hotspot	NR Band n70	20	QPSK	A	0078M	1:1	-0.05	831.50	166300	DFT-s-OFDM	0.0	25.0	24.13	50	28	Back	10	63	0.234	1.127	0.397	0.586	0.304		30.4		
Body worn/Hotspot	NR Band n70	20	QPSK	A	0078M	1:1	0.00	831.50	166300	CP-OFDM	1.5	23.5	22.65	1	1	Back	10	63	0.149	1.216	0.181	0.523	0.127		30.9		
Hotspot	NR Band n70	20	QPSK	A	0078M	1:1	-0.07	831.50	166300	DFT-s-OFDM	0.0	25.0	24.22	1	53	Front	10	63	0.189	1.197	0.189	0.589	0.241		32.3		
Hotspot	NR Band n70	20	QPSK	A	0078M	1:1	-0.05	831.50	166300	DFT-s-OFDM	0.0	25.0	24.15	50	28	Front	10	63	0.180	1.127	0.195	0.403	0.251		32.0		
Hotspot	NR Band n70	20	QPSK	A	0078M	1:1	0.02	831.50	166300	DFT-s-OFDM	0.0	25.0	24.22	1	53	Bottom	10	63	0.062	1.197	0.074	0.151	0.084		36.2	30.4	28.1
Hotspot	NR Band n70	20	QPSK	A	0078M	1:1	-0.05	831.50	166300	DFT-s-OFDM	0.0	25.0	24.13	50	28	Bottom	10	63	0.068	1.127	0.077	0.158	0.099		36.1		
Hotspot	NR Band n70	20	QPSK	A	0078M	1:1	-0.14	831.50	166300	DFT-s-OFDM	0.0	25.0	24.22	1	53	Right	10	63	0.078	1.197	0.093	0.195	0.119		35.2		
Hotspot	NR Band n70	20	QPSK	A	0078M	1:1	-0.20	831.50	166300	DFT-s-OFDM	0.0	25.0	24.11	50	28	Right	10	63	0.080	1.227	0.098	0.200	0.125		35.0		
Hotspot	NR Band n70	20	QPSK	A	0078M	1:1	0.02	831.50	166300	DFT-s-OFDM	0.0	25.0	24.22	1	53	Left	10	63	0.140	1.197	0.156	0.318	0.209		33.9		
Hotspot	NR Band n70	20	QPSK	A	0078M	1:1	-0.04	831.50	166300	DFT-s-OFDM	0.0	25.0	24.11	50	28	Left	10	63	0.127	1.227	0.156	0.318	0.209		33.0		
ANSI/IEEE C63.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		Body 1.6 W/kg (mW/g) averaged over 1 gram									

Table 12-72

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio [1g SAR]	Plot #	Plimt [dBm]	Overall Plimt [dBm]	EPS Plimt [dBm]
Body worn/Hotspot	NR Band n26	20	QPSK	E	0078M	1:1	-0.01	831.50	166300	DFT-s-OFDM	0.0	25.0	24.36	1	53	Back	10	0.411	1.159	0.476	0.809	0.506		28.2		
Body worn/Hotspot	NR Band n26	20	QPSK	E	0078M	1:1	-0.05	831.50	166300	DFT-s-OFDM	0.0	25.0	24.42	50	28	Back	10	0.422	1.143	0.482	0.819	0.512	A56	28.1		
Hotspot	NR Band n26	20	QPSK	E	0080M	1:1	-0.02	831.50	166300	DFT-s-OFDM	0.0	25.0	24.36	1	53	Front	10	0.564	1.159	0.410	0.897	0.486		28.1		
Hotspot	NR Band n26	20	QPSK	E	0080M	1:1	0.04	831.50	166300	DFT-s-OFDM	0.0	25.0	24.42	50	28	Front	10	0.417	1.143	0.477	0.809	0.506		28.2		
Hotspot	NR Band n26	20	QPSK	E	0078M	1:1	-0.02	831.50	166300	DFT-s-OFDM	0.0	25.0	24.22	1	53	Top	10	0.455	1.159	0.551	0.905	0.564		27.5		
Hotspot	NR Band n26	20	QPSK	E	0078M	1:1	-0.04	831.50	166300	DFT-s-OFDM	0.0	25.0	24.42	50	28	Top	10	0.483	1.143	0.522	0.918	0.585	A57	27.7		27.3
Hotspot	NR Band n26	20	QPSK	E	0080M	1:1	-0.06	831.50	166300	CP-OFDM	1.5	23.5	22.83	1	1	Top	10	0.386	1.167	0.334	0.801	0.501		28.2		
Hotspot	NR Band n26	20	QPSK	E	0080M	1:1	-0.06	831.50	166300	DFT-s-OFDM	0.0	25.0	24.36	1	53	Right	10	0.294	1.159	0.341	0.579	0.362		29.6		
Hotspot	NR Band n26	20	QPSK	E	0081M	1:1	0.03	831.50	166300	DFT-s-OFDM	0.0	25.0	24.42	50	28	Right	10	0.307	1.143	0.331	0.596	0.373		29.5		
ANSI/IEEE C63.1 1992 - SAFETY LIMIT																		Body								
Spatial Peak																		1.6 W/kg (mW/g)								
Uncontrolled Exposure/General Population																		averaged over 1 gram								

12.21 NR Band n70 Standalone SAR

Table 12-73

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimt [dBm]	Overall Plimt [dBm]	EPS Plimt [dBm]		
Head	NR Band n70	15	QPSK	A	0080M	1:1	-0.17	1702.50	340500	DFT-s-OFDM	0.0	24.5	23.67	1	1	Right Cheek	0	100	0.088	1.211	0.119	0.119	0.104	0.209		33.7			
Head	NR Band n70	15	QPSK	A	0080M	1:1	0.13	1702.50	340500	DFT-s-OFDM	0.0	24.5	23.66	36	22	Right Cheek	0	100	0.108	1.213	0.143	0.404	0.253		32.0				
Head	NR Band n70	15	QPSK	A	0080M	1:1	0.09	1702.50	340500	CP-OFDM	1.5	23.0	22.33	1	1	Right Cheek	0	100	0.087	1.167	0.102	0.404	0.253		32.8				
Head	NR Band n70	15	QPSK	A	0080M	1:1	0.08	1702.50	340500	DFT-s-OFDM	0.0	24.5	23.87	1	1	Right Tilt	0	100	0.081	1.211	0.106	0.115	0.114		35.8				
Head	NR Band n70	15	QPSK	A	0080M	1:1	0.04	1702.50	340500	DFT-s-OFDM	0.0	24.5	23.66	36	22	Right Tilt	0	100	0.060	1.213	0.073	0.205	0.128		35.8	32.9			
Head	NR Band n70	15	QPSK	A	0080M	1:1	-0.04	1702.50	340500	DFT-s-OFDM	0.0	24.5	23.67	1	1	Left Cheek	0	100	0.066	1.211	0.080	0.225	0.141		35.4				
Head	NR Band n70	15	QPSK	A	0080M	1:1	-0.06	1702.50	340500	DFT-s-OFDM	0.0	24.5	23.66	36	22	Left Cheek	0	100	0.077	1.213	0.093	0.263	0.164		34.7				
Head	NR Band n70	15	QPSK	A	0080M	1:1	0.03	1702.50	340500	DFT-s-OFDM	0.0	24.5	23.67	1	1	Left Tilt	0	100	0.058	1.211	0.068	0.191	0.119		36.1				
Head	NR Band n70	15	QPSK	A	0080M	1:1	0.02	1702.50	340500	DFT-s-OFDM	0.0	24.5	23.66	36	22	Left Tilt	0	100	0.062	1.213	0.075	0.212	0.133		35.7				
ANSI/IEEE C63.1 1992 - SAFETY LIMIT																				Head									
Spatial Peak																				1.6 W/kg (mW/g)					repeated over 1 gram				
Uncontrolled Exposure/General Population																													

Table 12-74

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio [1g SAR]	Plot #	Plimt [dBm]	Overall Plimt [dBm]	EPS Plimt [dBm]	
Head	NR Band n70	15	QPSK	F	0080M	1:1	0.05	1702.50	340500	DFT-s-OFDM	0.0	19.5	18.82	1	77	Right Cheek	0	0.724	1.169	0.846	0.846	0.528		20.2			
Head	NR Band n70	15	QPSK	F	0080M	1:1	0.05	1702.50	340500	DFT-s-OFDM	0.0	19.5	18.82	1	77	Right Cheek	0	0.789	1.263	0.905	0.905	0.538		20.2			
Head	NR Band n70	15	QPSK	F	0080M	1:1	0.00	1702.50	340500	DFT-s-OFDM	0.0	19.5	18.44	75	0	Right Cheek	0	0.709	1.276	0.905	0.905	0.566		19.7			
Head	NR Band n70	15	QPSK	F	0080M	1:1	0.02	1702.50	340500	DFT-s-OFDM	0.0	19.5	18.82	1	77	Right Tilt	0	0.800	1.169	0.855	0.855	0.584	ASD	19.7			
Head	NR Band n70	15	QPSK	F	0080M	1:1	0.01	1702.50	340500	DFT-s-OFDM	0.0	19.5	18.82	1	77	Right Tilt	0	0.785	1.263	0.905	0.905	0.538		19.5			
Head	NR Band n70	15	QPSK	F	0080M	1:1	0.01	1702.50	340500	DFT-s-OFDM	0.0	19.5	18.44	75	0	Right Tilt	0	0.771	1.276	0.904	0.904	0.615		19.5	10.5	18.5	
Head	NR Band n70	15	QPSK	F	0080M	1:1	0.02	1702.50	340500	CP-OFDM	0.0	19.5	18.49	1	1	Right Tilt	0	0.779	1.262	0.903	0.903	0.614		19.5			
Head	NR Band n70	15	QPSK	F	0080M	1:1	0.02	1702.50	340500	DFT-s-OFDM	0.0	19.5	18.82	1	77	Left Cheek	0	0.785	1.169	0.855	0.855	0.584		20.2			
Head	NR Band n70	15	QPSK	F	0080M	1:1	0.08	1702.50	340500	DFT-s-OFDM	0.0	19.5	18.52	36	43	Left Cheek	0	0.642	1.253	0.579	0.579	0.362		20.1			
Head	NR Band n70	15	QPSK	F	0080M	1:1	0.05	1702.50	340500	DFT-s-OFDM	0.0	19.5	18.82	1	77	Left Tilt	0	0.687	1.169	0.740	0.740	0.444		20.8			
Head	NR Band n70	15	QPSK	F	0080M	1:1	0.08	1702.50	340500	DFT-s-OFDM	0.0	19.5	18.52	36	43	Left Tilt	0	0.688	1.253	0.783	0.783	0.458		20.8			
ANGL/IEEE C95.1 1992 - SAFETY LIMIT																											
Spatial Peak																											
Unmodulated Exposure/General Population																											
																		Head									
																		1.6 W/kg (mW/g)									
																		averaged over 10 min									



Table 12-75

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio [1g SAR]	Plot #	Plimt [dBm]	Overall Plimt [dBm]	EPS Plimt [dBm]
Body-worn/Hotspot	NR Band n70	15	QPSK	A	0085M	1:1	-0.63	1702.50	345000	DF1+CFDM	0.0	20.0	18.93	1	40	Back	10	27	0.467	1.279	0.572	0.572	0.358	22.4			
Body-worn/Hotspot	NR Band n70	15	QPSK	A	0085M	1:1	-0.65	1702.50	345000	DF1+CFDM	0.0	20.0	18.94	36	0	Back	10	27	0.469	1.276	0.598	0.598	0.374	A59	22.2		
Hotspot	NR Band n70	15	QPSK	A	0085M	1:1	-0.67	1702.50	345000	DF1+CFDM	0.0	20.0	18.91	1	40	Front	10	26	0.468	1.276	0.496	0.496	0.320	23.0			
Hotspot	NR Band n70	15	QPSK	A	0085M	1:1	-0.68	1702.50	345000	DF1+CFDM	0.0	20.0	18.94	36	0	Front	10	26	0.467	1.276	0.519	0.519	0.324	22.8			
Hotspot	NR Band n70	15	QPSK	A	0085M	1:1	-0.65	1702.50	345000	DF1+CFDM	0.0	20.0	18.93	1	40	Bottom	10	28	0.466	1.279	1.108	1.108	0.693	19.5			
Hotspot	NR Band n70	15	QPSK	A	0085M	1:1	-0.61	1702.50	345000	DF1+CFDM	0.0	20.0	18.94	36	0	Bottom	10	28	0.465	1.279	1.152	1.152	0.720	19.3			
Hotspot	NR Band n70	15	QPSK	A	0085M	1:1	0.61	1702.50	345000	DF1+CFDM	0.0	20.0	18.86	75	0	Bottom	10	28	0.463	1.284	1.163	1.189	0.743	A60	19.2		
Hotspot	NR Band n70	15	QPSK	A	0085M	1:1	0.12	1702.50	345000	CP-CFDM	0.0	20.0	19.01	1	1	Bottom	10	28	0.469	1.256	1.129	1.129	0.706	19.4			
Hotspot	NR Band n70	15	QPSK	A	0085M	1:1	-0.65	1702.50	345000	DF1+CFDM	0.0	20.0	18.91	1	40	Right	10	9	0.466	1.279	0.077	0.077	0.048	31.1			
Hotspot	NR Band n70	15	QPSK	A	0085M	1:1	0.07	1702.50	345000	DF1+CFDM	0.0	20.0	18.94	36	0	Right	10	9	0.464	1.276	0.062	0.062	0.051	30.8			
Hotspot	NR Band n70	15	QPSK	A	0085M	1:1	0.10	1702.50	345000	DF1+CFDM	0.0	20.0	18.93	1	40	Left	10	9	0.468	1.279	0.061	0.061	0.038	32.1			
Hotspot	NR Band n70	15	QPSK	A	0085M	1:1	-0.59	1702.50	345000	DF1+CFDM	0.0	20.0	18.94	36	9	Left	10	9	0.468	1.276	0.068	0.068	0.041	31.6			
ANSI/IEEE C63.1-1992 - SAFETY LIMIT																				Body							
Spatial Peak																				1.6 W/kg (mW/g)							
Uncontrolled Exposure/General Population																				averaged over 1 gram							

Table 12-76

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio [1g SAR]	Plot #	Plimt [dBm]	Overall Plimt [dBm]	EPS Plimt [dBm]
Body-worn/Hotspot	NR Band n70	15	QPSK	F	0085M	1:1	0.00	1702.50	345000	DF1+CFDM	0.0	22.0	21.15	1	77	Back	10		0.351	1.216	0.427	0.427	0.267	25.6			
Body-worn/Hotspot	NR Band n70	15	QPSK	F	0085M	1:1	0.00	1702.50	345000	DF1+CFDM	0.0	22.0	21.05	36	43	Back	10		0.346	1.245	0.431	0.431	0.309	25.6			
Hotspot	NR Band n70	15	QPSK	F	0085M	1:1	-0.06	1702.50	345000	DF1+CFDM	0.0	22.0	21.15	1	77	Front	10		0.347	1.216	0.227	0.227	0.142	28.4			
Hotspot	NR Band n70	15	QPSK	F	0085M	1:1	0.01	1702.50	345000	DF1+CFDM	0.0	22.0	21.05	36	43	Front	10		0.338	1.245	0.222	0.222	0.133	28.3			
Hotspot	NR Band n70	15	QPSK	F	0085M	1:1	0.04	1702.50	345000	DF1+CFDM	0.0	22.0	21.15	1	77	Top	10		0.327	1.216	0.641	0.641	0.401	23.1			
Hotspot	NR Band n70	15	QPSK	F	0085M	1:1	0.01	1702.50	345000	DF1+CFDM	0.0	22.0	21.05	36	43	Top	10		0.348	1.245	0.732	0.732	0.458	23.3			
Hotspot	NR Band n70	15	QPSK	F	0085M	1:1	0.01	1702.50	345000	DF1+CFDM	0.0	22.0	21.14	1	1	Top	10		0.331	1.216	0.467	0.467	0.404	23.6			
Hotspot	NR Band n70	15	QPSK	F	0085M	1:1	-0.04	1702.50	345000	DF1+CFDM	0.0	22.0	21.15	1	77	Left	10		0.340	1.216	0.195	0.195	0.122	29.1			
Hotspot	NR Band n70	15	QPSK	F	0085M	1:1	0.01	1702.50	345000	DF1+CFDM	0.0	22.0	21.05	36	43	Left	10		0.336	1.245	0.194	0.194	0.121	29.1			
ANSI/IEEE C63.1-1992 - SAFETY LIMIT																				Body							
Spatial Peak																				1.6 W/kg (mW/g)							
Uncontrolled Exposure/General Population																				averaged over 1 gram							

12.22 NR Band n66 Standalone SAR

Table 12-77

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio [1g SAR]	Plot #	Plimt [dBm]	Overall Plimt [dBm]	EPS Plimt [dBm]
Head	NR Band n66	45	QPSK	A	0085M	1:1	0.01	1745.00	349000	DF1+CFDM	0.0	24.5	23.42	1	121	Right Cheek	0	99	0.508	1.522	0.121	0.121	0.340	22.3			
Head	NR Band n66	45	QPSK	A	0085M	1:1	-0.06	1745.00	349000	DF1+CFDM	0.0	24.5	23.74	120	52	Right Cheek	0	99	0.502	1.591	0.121	0.121	0.324	22.6			
Head	NR Band n66	45	QPSK	A	0085M	1:1	0.02	1745.00	349000	CP-CFDM	1.5	23.0	21.80	1	1	Right Cheek	0	99	0.504	1.518	0.098	0.407	0.254	33.1			
Head	NR Band n66	45	QPSK	A	0085M	1:1	0.04	1745.00	349000	DF1+CFDM	0.0	24.5	23.69	1	121	Right Tib	0	99	0.508	1.522	0.083	0.083	0.245	26.3			
Head	NR Band n66	45	QPSK	A	0085M	1:1	-0.01	1745.00	349000	DF1+CFDM	0.0	24.5	23.74	120	61	Right Tib	0	99	0.501	1.591	0.073	0.214	0.134	35.8			
Head	NR Band n66	45	QPSK	A	0085M	1:1	0.02	1745.00	349000	DF1+CFDM	0.0	24.5	23.69	1	121	Left Cheek	0	99	0.508	1.522	0.072	0.214	0.133	35.9			
Head	NR Band n66	45	QPSK	A	0085M	1:1	-0.06	1745.00	349000	DF1+CFDM	0.0	24.5	23.74	120	61	Left Cheek	0	99	0.501	1.591	0.073	0.214	0.134	35.8			
Head	NR Band n66	45	QPSK	A	0085M	1:1	0.06	1745.00	349000	DF1+CFDM	0.0	24.5	23.63	1	121	Left Tib	0	99	0.506	1.522	0.081	0.218	0.149	35.4			
Head	NR Band n66	45	QPSK	A	0085M	1:1	-0.16	1745.00	349000	DF1+CFDM	0.0	24.5	23.74	120	61	Left Tib	0	99	0.510	1.518	0.081	0.246	0.154	35.2			
ANSI/IEEE C63.1-1992 - SAFETY LIMIT																				Head							
Spatial Peak																				1.6 W/kg (mW/g)							
Uncontrolled Exposure/General Population																				averaged over 1 gram							

Table 12-78

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio [1g SAR]	Plot #	Plimt [dBm]	Overall Plimt [dBm]	EPS Plimt [dBm]
Head	NR Band n66	45	QPSK	F	0085M	1:1	0.05	1745.00	349000	DF1+CFDM	0.0	19.5	18.87	1	1	Right Cheek	0	0.684	1.156	0.791	0.791	0.494	20.5			
Head	NR Band n66	45	QPSK	F	0085M	1:1	0.03	1745.00	349000	DF1+CFDM	0.0	19.5	18.64	120	0	Right Cheek	0	0.642	1.219	0.783	0.783	0.489	20.5			
Head	NR Band n66	45	QPSK	F	0085M	1:1	0.06	1745.00	349000	DF1+CFDM	0.0	19.5	18.87	1	1	Right Tib	0	0.749	1.156	0.898	0.898	0.536	20.5			
Head	NR Band n66	45	QPSK	F	0085M	1:1	0.01	1745.00	349000	DF1+CFDM	0.0	19.5	18.64	120	0	Right Tib	0	0.735	1.219	0.872	0.872	0.545	20.5			
Head	NR Band n66	45	QPSK	F	0085M	1:1	0.03	1745.00	349000	DF1+CFDM	0.0	19.5	18.57	240	0	Right Tib	0	0.679	1.239	0.841	0.841	0.526	20.5			
Head	NR Band n66	45	QPSK	F	0085M	1:1	-0.11	1745.00	349000	CP-CFDM	0.0	19.5	18.87	1	1	Right Tib	0	0.762	1.156	0.904	0.904	0.569	A61	19.9		18.5
Head	NR Band n66	45	QPSK	F	0085M	1:1	-0.09	1745.00	349000	DF1+CFDM	0.0	19.5	18.87	1	1	Left Cheek	0	0.463	1.156	0.535	0.535	0.334	22.1			
Head	NR Band n66	45	QPSK	F	0085M	1:1	-0.03	1745.00	349000	DF1+CFDM	0.0	19.5	18.64	120	0	Left Cheek	0	0.428	1.219	0.518	0.518	0.324	22.1			
Head	NR Band n66	45	QPSK	F	0085M	1:1	0.03	1745.00	349000	DF1+CFDM	0.0	19.5	18.64	120	0	Left Tib	0	0.475	1.156	0.568	0.568	0.353	21.3			
Head	NR Band n66	45	QPSK	F	0085M	1:1	0.00	1745.00	349000	DF1+CFDM	0.0	19.5	18.64	120	0	Left Tib	0	0.433	1.219	0.510	0.650	0.406	21.3			
ANSI/IEEE C95.1 1992 - SAFETY LIMIT												Head														
Spatial Peak												1.5 W/kg (mW/g)														
Uncontrolled Exposure (General Population)												*Exposure 0.096														

Table 12-80

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Pict #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]	
Body worn/Hotspot	NR Band n25	45	QPSK	F	0080M	1:1	-0.05	1745.00	349000	DFT-s-OFDM	0.0	21.5	21.43	1	1	Back	10	0.104	1.016	0.139	0.139	0.212		26.1			
Body worn/Hotspot	NR Band n25	45	QPSK	F	0080M	1:1	-0.02	1745.00	349000	DFT-s-OFDM	0.0	21.5	21.19	120	0	Back	10	0.106	1.074	0.129	0.129	0.206		26.3			
Hotspot	NR Band n25	45	QPSK	F	0080M	1:1	-0.05	1745.00	349000	DFT-s-OFDM	0.0	21.5	21.43	1	1	Front	10	0.102	1.016	0.145	0.145	0.193		26.1			
Hotspot	NR Band n25	45	QPSK	F	0080M	1:1	0.01	1745.00	349000	DFT-s-OFDM	0.0	21.5	21.19	120	0	Front	10	0.149	1.074	0.169	0.169	0.190		29.0			
Hotspot	NR Band n25	45	QPSK	F	0080M	1:1	0.00	1745.00	349000	DFT-s-OFDM	0.0	21.5	21.43	1	1	Top	10	0.491	1.016	0.499	0.499	0.512		24.5			
Hotspot	NR Band n25	45	QPSK	F	0080M	1:1	-0.00	1745.00	349000	DFT-s-OFDM	0.0	21.5	21.19	120	0	Top	10	0.497	1.074	0.502	0.502	0.514		24.6			
Hotspot	NR Band n25	45	QPSK	F	0080M	1:1	0.00	1745.00	349000	CP-OFDM	0.0	21.5	21.31	1	1	Top	10	0.502	1.045	0.525	0.525	0.528		24.5			
Hotspot	NR Band n25	45	QPSK	F	0080M	1:1	0.02	1745.00	349000	DFT-s-OFDM	0.0	21.5	21.43	1	1	Left	10	0.109	1.016	0.141	0.141	0.193		26.1			
Hotspot	NR Band n25	45	QPSK	F	0080M	1:1	-0.05	1745.00	349000	DFT-s-OFDM	0.0	21.5	21.19	120	0	Left	10	0.138	1.074	0.137	0.137	0.086		20.1			
ANSI/IEEE C63.1 1992 - SAFETY LIMIT																		Body								24.3	20.5
Uncontrolled Exposure/General Population																		Spatial Peak		1.6 W/kg (mW/g)							

12.23 NR Band n25 Standalone SAR

Table 12-81

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Pict #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]		
Head	NR Band n25	40	QPSK	A	0080M	1:1	-0.02	1882.50	376000	DFT-s-OFDM	0.0	24.5	23.61	1	108	Right Cheek	0	112	0.091	1.227	0.114	0.114	0.329		33.9				
Head	NR Band n25	40	QPSK	A	0080M	1:1	-0.01	1882.50	376000	DFT-s-OFDM	0.0	24.5	23.36	108	54	Right Cheek	0	112	0.101	1.242	0.125	0.125	0.362		33.9				
Head	NR Band n25	40	QPSK	A	0080M	1:1	0.03	1882.50	376000	CP-OFDM	1.5	23.0	22.04	1	1	Right Cheek	0	112	0.090	1.247	0.081	0.081	0.300		33.9				
Head	NR Band n25	40	QPSK	A	0080M	1:1	-0.07	1882.50	376000	DFT-s-OFDM	0.0	24.5	23.61	1	108	Right Tilt	0	112	0.093	1.227	0.064	0.064	0.184		33.6				
Head	NR Band n25	40	QPSK	A	0080M	1:1	-0.11	1882.50	376000	DFT-s-OFDM	0.0	24.5	23.36	108	54	Right Tilt	0	112	0.097	1.242	0.071	0.071	0.204		34.2				
Head	NR Band n25	40	QPSK	A	0080M	1:1	0.03	1882.50	376000	DFT-s-OFDM	0.0	24.5	23.61	1	108	Left Cheek	0	112	0.090	1.227	0.106	0.106	0.304		34.2				
Head	NR Band n25	40	QPSK	A	0080M	1:1	-0.09	1882.50	376000	DFT-s-OFDM	0.0	24.5	23.56	108	54	Left Cheek	0	112	0.097	1.242	0.120	0.120	0.347		33.6				
Head	NR Band n25	40	QPSK	A	0080M	1:1	-0.08	1882.50	376000	DFT-s-OFDM	0.0	24.5	23.61	1	108	Left Tilt	0	112	0.094	1.227	0.115	0.115	0.333		33.8				
Head	NR Band n25	40	QPSK	A	0080M	1:1	0.08	1882.50	376000	DFT-s-OFDM	0.0	24.5	23.56	108	54	Left Tilt	0	112	0.078	1.242	0.097	0.097	0.174		34.6				
ANSI/IEEE C63.1 1992 - SAFETY LIMIT																		Head								33.5	29.1		
Spatial Peak																		1.6 W/kg (mW/g)											
Uncontrolled Exposure/General Population																													

Table 12-82

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Pict #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]			
Head	NR Band n25	40	QPSK	F	0080M	1:1	0.01	1882.50	376000	DFT-s-OFDM	0.0	19.5	18.61	1	1	Right Cheek	0	0.500	1.277	0.616	0.616	0.385		21.6					
Head	NR Band n25	40	QPSK	F	0080M	1:1	-0.02	1882.50	376000	DFT-s-OFDM	0.0	19.5	18.48	108	54	Right Cheek	0	0.615	1.265	0.638	0.638	0.399		21.4					
Head	NR Band n25	40	QPSK	F	0080M	1:1	0.02	1882.50	376000	DFT-s-OFDM	0.0	19.5	17.86	1	1	Right Tilt	0	0.630	1.277	0.773	0.773	0.483		20.6					
Head	NR Band n25	40	QPSK	F	0080M	1:1	0.00	1882.50	376000	DFT-s-OFDM	0.0	19.5	18.48	108	54	Right Tilt	0	0.833	1.265	0.826	0.826	0.516		20.3					
Head	NR Band n25	40	QPSK	F	0080M	1:1	0.00	1882.50	376000	DFT-s-OFDM	0.0	19.5	18.47	216	0	Right Tilt	0	0.805	1.268	0.876	0.876	0.548	A64	20.0					
Head	NR Band n25	40	QPSK	F	0080M	1:1	-0.08	1882.50	376000	DFT-s-OFDM	0.0	19.5	17.86	108	54	Right Tilt	0	0.815	1.300	1.135	1.135	0.709	A66	18.4					
Head	NR Band n25	40	QPSK	F	0080M	1:1	-0.03	1882.50	376000	DFT-s-OFDM	0.0	19.5	18.61	1	1	Left Cheek	0	0.411	1.277	0.504	0.504	0.315		22.4					
Head	NR Band n25	40	QPSK	F	0080M	1:1	-0.05	1882.50	376000	DFT-s-OFDM	0.0	19.5	18.48	108	54	Left Cheek	0	0.418	1.265	0.529	0.529	0.331		22.2					
Head	NR Band n25	40	QPSK	F	0080M	1:1	-0.11	1882.50	376000	DFT-s-OFDM	0.0	19.5	17.86	108	54	Left Tilt	0	0.413	1.277	0.620	0.620	0.393		21.5					
Head	NR Band n25	40	QPSK	F	0080M	1:1	0.03	1882.50	376000	DFT-s-OFDM	0.0	19.5	17.48	108	54	Left Tilt	0	0.544	1.265	0.688	0.688	0.430		21.1					
ANSI/IEEE C63.1 1992 - SAFETY LIMIT																		Head								20.0	18.5		
Spatial Peak																		1.6 W/kg (mW/g)											
Uncontrolled Exposure/General Population																													

Table 12-83

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift[dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]
Body worn/Hotspot	NR Band n25	40	QPSK	A	0080M	1:1	-0.03	1882.50	376000	DFT-s-OFDM	0.0	19.0	17.87	1	108	Back	10	109	0.897	1.297	0.515	0.515	0.322		21.8		
Body worn/Hotspot	NR Band n25	40	QPSK	A	0080M	1:1	-0.06	1882.50	376000	DFT-s-OFDM	0.0	19.0	17.86	108	0	Back	10	109	0.406	1.300	0.528	0.528	0.330	A65	21.7		
Hotspot	NR Band n25	40	QPSK	A	0080M	1:1	-0.09	1882.50	376000	DFT-s-OFDM	0.0	19.0	17.87	1	108	Front	10	109	0.319	1.297	0.414	0.414	0.329		22.8		
Hotspot	NR Band n25	40	QPSK	A	0080M	1:1	-0.09	1882.50	376000	DFT-s-OFDM	0.0	19.0	17.86	108	0	Front	10	109	0.332	1.300	0.432	0.432	0.270		22.6		
Hotspot	NR Band n25	40	QPSK	A	0080M	1:1	0.01	1882.50	376000	DFT-s-OFDM	0.0	19.0	17.87	1	108	Bottom	10	99	0.851	1.297	1.104	1.104	0.690		18.5		
Hotspot	NR Band n25	40	QPSK	A	0080M	1:1	0.00	1882.50	376000	DFT-s-OFDM	0.0	19.0	17.86	108	0	Bottom	10	99	0.873	1.300	1.135	1.135	0.709	A66	18.4		
Hotspot	NR Band n25	40	QPSK	A	0080M	1:1	-0.03	1882.50	376000	DFT-s-OFDM	0.0	19.0	17.74	216	0	Bottom	10	99	0.866	1.317	1.158	1.158	0.724		18.3	18.1	18.0
Hotspot	NR Band n25	40	QPSK	A	0080M	1:1	-0.05	1882.50	376000	CP-OFDM	0.0	19.0	17.92	1	1	Bottom	10	99	0.871	1.262	1.117	1.117	0.696		18.5		
Hotspot	NR Band n25	40	QPSK	A	0058M	1:1	-0.11	1882.50	376000	DFT-s-OFDM	0.0	19.0	17.47	1	108	Right	10	109	0.566	1.297	0.560	0.560	0.358		19.8		
Hotspot	NR Band n25	40	QPSK	A	0058M	1:1	0.03	1882.50	376000	DFT-s-OFDM	0.0	19.0	17.85	108	0	Right	10	109	0.050	1.300	0.065	0.065	0.041		30.7		
Hotspot	NR Band n25	40	QPSK	A	0039M	1:1	0.02	1882.50	376000	DFT-s-OFDM	0.0	19.0	17.87	1	108	Left	10	109	0.041	1.297	0.053	0.053	0.033		31.2		
Hotspot	NR Band n25	40	QPSK	A	0026M	1:1	-0.06	1882.50	376000	DFT-s-OFDM	0.0	19.0	17.86	108	0	Left	10	109	0.063	1.300	0.056	0.056	0.030		31.5		
ANSI C63.1992- SAFETY LIMIT																											
Spatial Peak																											
Uncontrolled Exposure (General Population)																											
1.6 W/kg (avg) averaged over 1 gram																											



12.24 NR Band n30 Standalone SAR

Table 12-85

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Dft [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio [g SAR]	Pict #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]
Head	NR Band n30	10	QPSK	A	0042M	1:1	0.01	2310.00	462000	DFT+OFDM	0.0	23.5	22.19	1	1	Right Cheek	0	0.004	1.352	0.005	0.009	0.007		46.1		
Head	NR Band n30	10	QPSK	A	0042M	1:1	0.01	2310.00	462000	DFT+OFDM	0.0	23.5	22.20	25	14	Right Cheek	0	0.004	1.349	0.005	0.009	0.007		46.1		
Head	NR Band n30	10	QPSK	A	0042M	1:1	0.01	2310.00	462000	DFT+OFDM	0.0	23.5	22.19	1	1	Right Tilt	0	0.004	1.352	0.005	0.009	0.007		46.1		
Head	NR Band n30	10	QPSK	A	0042M	1:1	0.01	2310.00	462000	DFT+OFDM	0.0	23.5	22.20	25	14	Right Tilt	0	0.004	1.349	0.005	0.009	0.007		46.1		
Head	NR Band n30	10	QPSK	A	0042M	1:1	0.01	2310.00	462000	DFT+OFDM	0.0	23.5	22.19	1	1	Left Cheek	0	0.004	1.352	0.005	0.009	0.007		38.2		33.0
Head	NR Band n30	10	QPSK	A	0042M	1:1	0.01	2310.00	462000	DFT+OFDM	0.0	23.5	22.20	25	14	Left Cheek	0	0.004	1.349	0.005	0.009	0.007		38.2		
Head	NR Band n30	10	QPSK	A	0042M	1:1	0.01	2310.00	462000	CP-OFDM	1.5	22.0	20.87	1	1	Left Cheek	0	0.009	1.297	0.011	0.021	0.021		38.8		
Head	NR Band n30	10	QPSK	A	0042M	1:1	0.01	2310.00	462000	DFT+OFDM	0.0	23.5	22.19	1	1	Left Tilt	0	0.004	1.352	0.005	0.009	0.007		41.1		
Head	NR Band n30	10	QPSK	A	0042M	1:1	0.01	2310.00	462000	DFT+OFDM	0.0	23.5	22.20	25	14	Left Tilt	0	0.004	1.349	0.005	0.009	0.007		40.7		
ANSI/IEEE C63.1-1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		Head 1.6 W/kg (mW/g) averaged over 1 gram								

Table 12-86

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Dft [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio [g SAR]	Pict #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]
Head	NR Band n30	10	QPSK	F	0042M	1:1	0.01	2310.00	462000	DFT+OFDM	0.0	18.0	16.28	1	26	Right Cheek	0	0.732	1.486	1.088	1.088	0.680		17.6		
Head	NR Band n30	10	QPSK	F	0042M	1:1	-0.11	2310.00	462000	DFT+OFDM	0.0	18.0	16.41	25	14	Right Cheek	0	0.753	1.442	1.086	1.086	0.679		17.6		
Head	NR Band n30	10	QPSK	F	0042M	1:1	-0.01	2310.00	462000	DFT+OFDM	0.0	18.0	16.25	50	0	Right Cheek	0	0.705	1.496	1.129	1.129	0.706		17.4		
Head	NR Band n30	10	QPSK	F	0042M	1:1	0.07	2310.00	462000	CP-OFDM	0.0	18.0	16.08	1	1	Right Cheek	0	0.763	1.556	1.187	1.187	0.742	A67	17.2		
Head	NR Band n30	10	QPSK	F	0042M	1:1	0.01	2310.00	462000	DFT+OFDM	0.0	18.0	16.39	1	26	Right Tilt	0	0.745	1.468	1.092	1.092	0.688		17.7		
Head	NR Band n30	10	QPSK	F	0042M	1:1	0.01	2310.00	462000	DFT+OFDM	0.0	18.0	16.25	25	14	Right Tilt	0	0.717	1.442	1.034	1.034	0.646		17.4		
Head	NR Band n30	10	QPSK	F	0042M	1:1	0.04	2310.00	462000	DFT+OFDM	0.0	18.0	16.25	50	0	Right Tilt	0	0.780	1.486	1.137	1.137	0.711		17.4		
Head	NR Band n30	10	QPSK	F	0042M	1:1	0.01	2310.00	462000	DFT+OFDM	0.0	18.0	16.39	1	26	Left Cheek	0	0.774	1.466	1.094	1.094	0.646		17.7		
Head	NR Band n30	10	QPSK	F	0042M	1:1	-0.03	2310.00	462000	DFT+OFDM	0.0	18.0	16.41	25	14	Left Cheek	0	0.786	1.442	1.057	1.057	0.748		20.5		17.0
Head	NR Band n30	10	QPSK	F	0042M	1:1	0.00	2310.00	462000	DFT+OFDM	0.0	18.0	16.28	1	26	Left Tilt	0	0.651	1.486	1.019	1.019	0.512		18.8		
Head	NR Band n30	10	QPSK	F	0042M	1:1	0.01	2310.00	462000	DFT+OFDM	0.0	18.0	16.41	25	14	Left Tilt	0	0.549	1.442	0.750	0.750	0.409		19.0		
Head	NR Band n30	10	QPSK	F	0042M	1:1	0.07	2310.00	462000	DFT+OFDM	0.0	18.0	16.25	50	0	Left Tilt	0	0.568	1.486	0.860	0.860	0.531		18.7		
ANSI/IEEE C63.1-1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		Head 1.6 W/kg (mW/g) averaged over 1 gram								

Table 12-87

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Dft [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio [g SAR]	Pict #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]
Body-worn/Hotspot	NR Band n30	10	QPSK	A	0042M	1:1	0.02	2310.00	462000	DFT+OFDM	0.0	20.5	19.29	1	1	Back	10	0.307	1.321	0.406	0.406	0.254		24.4		
Body-worn/Hotspot	NR Band n30	10	QPSK	A	0042M	1:1	0.05	2310.00	462000	DFT+OFDM	0.0	20.5	19.26	25	14	Back	10	0.308	1.300	0.411	0.411	0.257	A68	24.3		
Hotspot	NR Band n30	10	QPSK	A	0042M	1:1	-0.02	2310.00	462000	DFT+OFDM	0.0	20.5	19.20	1	1	Front	10	0.248	1.321	0.328	0.328	0.205		25.3		
Hotspot	NR Band n30	10	QPSK	A	0042M	1:1	0.06	2310.00	462000	DFT+OFDM	0.0	20.5	19.26	25	14	Front	10	0.305	1.330	0.352	0.352	0.220		25.0		
Hotspot	NR Band n30	10	QPSK	A	0042M	1:1	-0.03	2310.00	462000	DFT+OFDM	0.0	20.5	19.29	1	1	Bottom	10	0.779	1.321	1.029	1.029	0.643		20.4		
Hotspot	NR Band n30	10	QPSK	A	0042M	1:1	-0.03	2310.00	462000	DFT+OFDM	0.0	20.5	19.26	25	14	Bottom	10	0.739	1.300	1.009	1.009	0.631		20.4		
Hotspot	NR Band n30	10	QPSK	A	0042M	1:1	0.01	2310.00	462000	DFT+OFDM	0.0	20.5	19.13	50	0	Bottom	10	0.771	1.371	1.058	1.058	0.661		20.1		
Hotspot	NR Band n30	10	QPSK	A	0042M	1:1	0.03	2310.00	462000	CP-OFDM	0.0	20.5	19.40	1	1	Bottom	10	0.781	1.388	1.006	1.006	0.629	A69	20.4		
Hotspot	NR Band n30	10	QPSK	A	0042M	1:1	0.01	2310.00	462000	DFT+OFDM	0.0	20.5	19.29	1	1	Right	10	0.061	1.321	0.067	0.067	0.042		32.2		
Hotspot	NR Band n30	10	QPSK	A	0042M	1:1	0.01	2310.00	462000	DFT+OFDM	0.0	20.5	19.26	25	14	Right	10	0.063	1.330	0.069	0.069	0.043		32.0		
Hotspot	NR Band n30	10	QPSK	A	0042M	1:1	-0.04	2310.00	462000	DFT+OFDM	0.0	20.5	19.29	1	1	Left	10	0.054	1.321	0.071	0.071	0.044		31.9		
Hotspot	NR Band n30	10	QPSK	A	0042M	1:1	0.02	2310.00	462000	DFT+OFDM	0.0	20.5	19.26	25	14	Left	10	0.052	1.330	0.069	0.069	0.043		32.0		
ANSI/IEEE C63.1-1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		Body 1.6 W/kg (mW/g) averaged over 1 gram								

Table 12-88

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Dft [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio [g SAR]	Pict #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]
Body-worn/Hotspot	NR Band n7	50	QPSK	B	0042M	1:1	0.02	2535.00	507000	DFT+OFDM	0.0	24.5	23.56	1	1	Right Cheek	0	0.127	1.242	0.158	0.158	0.091		32.5		
Body-worn/Hotspot	NR Band n7	50	QPSK	B	0042M	1:1	0.06	2535.00	507000	DFT+OFDM	0.0	24.5	23.58	135	68	Right Cheek	0	0.128	1.238	0.159	0.159	0.093		32.4		
Hotspot	NR Band n7	50	QPSK	B	0042M	1:1	0.01	2535.00	507000	CP-OFDM	1.5	23.0	22.17	1	1	Right Cheek	0	0.108	1.211	0.121	0.121	0.061		32.1		
Hotspot	NR Band n7	50	QPSK	B	0042M	1:1	-0.10	2535.00	507000	DFT+OFDM	0.0	24.5	23.56	1	1	Right Tilt	0	0.095	1.242	0.068	0.068	0.050		36.3		
Hotspot	NR Band n7	50	QPSK	B	0042M	1:1	0.01	2535.00	507000	DFT+OFDM	0.0	24.5	23.58	135	68	Right Tilt	0	0.068	1.238	0.077	0.077	0.053		35.6		
Hotspot	NR Band n7	50	QPSK	B	0042M	1:1	0.01	2535.00	507000	DFT+OFDM	0.0	24.5	23.56	1	1	Left Cheek	0	0.055	1.242	0.068	0.068	0.050		36.1		
Hotspot	NR Band n7	50	QPSK	B	0042M	1:1	0.06	2535.00	507000	DFT+OFDM	0.0	24.5	23.58	135	68	Left Cheek	0	0.099	1.238	0.078	0.078	0.054		35.5		
Hotspot	NR Band n7	50	QPSK	B	0042M	1:1	0.01	2535.00	507000	DFT+OFDM	0.0	24.5	23.56	1	1	Left Tilt	0	0.071	1.242	0.089	0.089	0.051		34.9		
Hotspot	NR Band n7	50	QPSK	B	0042M	1:1	0.04	2535.00	507000	DFT+OFDM	0.0	24.5	23.58	135	68	Left Tilt	0	0.089	1.238	0.091	0.091	0.054		34.8		
ANSI/IEEE C63.1-1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		Body 1.6 W/kg (mW/g) averaged over 1 gram								

12.25 NR Band n7 Standalone SAR

Table 12-89

Exposure	Band / Mode	Bandwidth (MHz)	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power DfTx (dB)	Frequency (MHz)	Channel #	Waveform	MPE (dB)	Max Allowed Power (dBm)	Conducted Power (dBm)	RB Size	RB Offset	Test Position	Spacing (mm)	Measured 1g SAR (W/kg)	Power Scaling Factor	Reported 1g SAR (W/kg)	Adjusted 1g SAR (W/kg)	Exposure Ratio (1g SAR)	Pict #	Plimit (dBm)	Overall Plimit (dBm)	EPS Plimit (dBm)
Head	NR Band n7	50	QPSK	B	0042M	1:1	0.02	2535.00	507000	DFT+OFDM	0.0	24.5	23.56	1	1	Right Cheek	0	0.127	1.242	0.158	0.170	0.231		32.5		
Head	NR Band n7	50	QPSK	B	0042M	1:1	0.06	2535.00	507000	DFT+OFDM	0.0	24.5	23.28	135	68	Right Cheek	0	0.124	1.324	0.159	0.373	0.231		32.4		
Head	NR Band n7	50	QPSK	B	0042M	1:1	0.03	2535.00	507000	CP-OFDM	1.5	23.0	22.17	1	1	Right Cheek	0	0.100	1.211	0.121	0.401	0.251		32.1		
Head	NR Band n7	50	QPSK	B	0042M	1:1	-0.15	2535.00	507000	DFT+OFDM	0.0	24.5	23.56	1	1	Right Tilt	0	0.085	1.250	0.096	0.362	0.150		31.0	36.1	
Head	NR Band n7	50	QPSK	B	0042M	1:1	-0.07	2535.00	507000	DFT+OFDM	0.0	24.5	23.28	135	68	Right Tilt	0	0.058	1.324	0.077	0.380	0.113		30.6	32.1	
Head	NR Band n7	50	QPSK	B	0042M	1:1	0.06	2535.00	507000	DFT+OFDM	0.0	24.5	23.28	135	68	Left Cheek	0	0.124	1.324	0.159	0.373	0.231		32.4		
Head	NR Band n7	50	QPSK	B	0042M	1:1	0.06	2535.00	507000	DFT+OFDM	0.0	24.5	23.28	135	68	Left Cheek	0	0.099	1.242	0.078	0.183	0.114		30.5		
Head	NR Band n7	50	QPSK	B	0042M	1:1	0.02	2535.00	507000	DFT+OFDM	0.0	24.5	23.56	1	1	Left Tilt	0	0.072	1.242	0.089	0.210	0.131		34.1		
Head	NR Band n7	50	QPSK	B	0042M	1:1	0.06	2535.00	507000	DFT+OFDM	0.0	24.5	23.28	135	68	Left Tilt	0	0.089	1.324	0.095	0.214	0.134		34.8		
ANSI/IEEE C63.192 - SAFETY LIMIT																										
Spatial Peak																										
Uncontrolled Exposure (General Population)																										
																		Head								
																		1.6 W/kg (mW/g)								
																		averaged over 30 min								



Table 12-90

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio [1g SAR]	Plot #	P1mit [dBm]	Overall P1mit [dBm]	EPS P1mit [dBm]
Head	NR Band n7	50	QPSK	F	0042M	1:1	-0.02	2535.00	507000	DF1+CFDM	0.0	17.0	16.31	1	1	Right Cheek	0	0.726	1.172	0.851	0.851	0.532		17.7		
Head	NR Band n7	50	QPSK	F	0042M	1:1	0.00	2535.00	507000	DF1+CFDM	0.0	17.0	16.24	135	0	Right Cheek	0	0.647	1.193	0.771	0.771	0.482		18.1		
Head	NR Band n7	50	QPSK	F	0042M	1:1	-0.01	2535.00	507000	DF1+CFDM	0.0	17.0	16.15	270	0	Right Cheek	0	0.529	1.216	0.765	0.765	0.478		18.1		
Head	NR Band n7	50	QPSK	F	0042M	1:1	0.00	2535.00	507000	DF1+CFDM	0.0	17.0	16.33	1	1	Right Tilt	0	0.989	1.172	1.066	1.066	0.666		16.1		
Head	NR Band n7	50	QPSK	F	0042M	1:1	-0.01	2535.00	507000	DF1+CFDM	0.0	17.0	16.24	135	0	Right Tilt	0	0.640	1.193	1.000	1.000	0.625		16.9		
Head	NR Band n7	50	QPSK	F	0042M	1:1	0.01	2535.00	507000	DF1+CFDM	0.0	17.0	16.15	270	0	Right Tilt	0	0.750	1.216	0.961	0.961	0.601		17.1		
Head	NR Band n7	50	QPSK	F	0042M	1:1	-0.02	2535.00	507000	CP-OFDM	0.0	22.0	20.68	1	1	Right Tilt	0	0.945	1.159	1.086	1.086	0.675		16.5		
Head	NR Band n7	50	QPSK	F	0042M	1:1	0.01	2535.00	507000	CP-OFDM	0.0	17.0	16.30	1	1	Right Tilt	0	0.966	1.154	1.114	1.114	0.696	A70	16.5		
Head	NR Band n7	50	QPSK	F	0042M	1:1	-0.02	2535.00	507000	DF1+CFDM	0.0	17.0	16.31	1	1	Left Cheek	0	0.347	1.172	0.430	0.430	0.269		20.6		
Head	NR Band n7	50	QPSK	F	0042M	1:1	-0.01	2535.00	507000	DF1+CFDM	0.0	17.0	16.26	135	0	Left Cheek	0	0.124	1.193	0.386	0.386	0.241		21.1		
Head	NR Band n7	50	QPSK	F	0042M	1:1	0.01	2535.00	507000	DF1+CFDM	0.0	17.0	16.31	1	1	Left Tilt	0	0.404	1.172	0.473	0.473	0.296		20.2		
Head	NR Band n7	50	QPSK	F	0042M	1:1	-0.01	2535.00	507000	DF1+CFDM	0.0	17.0	16.24	135	0	Left Tilt	0	0.190	1.193	0.417	0.417	0.261		20.7		
ANSI/IEEE C61.158-2 SAFETY LIMIT																		Head		1.6 W/kg (mW/g)		averaged over 1 gram				
Spatial Peak																		Body		1.6 W/kg (mW/g)		averaged over 1 gram				
Uncontrolled Exposure/General Population																										

Note: Blue entry represents variability measurement

Table 12-91

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio [1g SAR]	Plot #	P1mit [dBm]	Overall P1mit [dBm]	EPS P1mit [dBm]
Body-worn/Hotspot	NR Band n7	50	QPSK	B	0042M	1:1	0.01	2535.00	507000	DF1+CFDM	0.0	21.0	20.41	1	1	Back	10	0.368	1.146	0.423	0.423	0.364		24.7		
Body-worn/Hotspot	NR Band n7	50	QPSK	B	0042M	1:1	-0.01	2535.00	507000	DF1+CFDM	0.0	21.0	20.35	135	0	Back	10	0.179	1.161	0.435	0.435	0.277	A71	24.6		
Hotspot	NR Band n7	50	QPSK	B	0042M	1:1	0.11	2535.00	507000	DF1+CFDM	0.0	21.0	20.43	1	1	Front	10	0.305	1.146	0.235	0.235	0.147		27.2		
Hotspot	NR Band n7	50	QPSK	B	0042M	1:1	0.00	2535.00	507000	DF1+CFDM	0.0	21.0	20.35	135	0	Front	10	0.161	1.178	0.248	0.248	0.149		27.1		
Hotspot	NR Band n7	50	QPSK	B	0042M	1:1	0.01	2535.00	507000	DF1+CFDM	0.0	21.0	20.41	1	1	Bottom	10	0.363	1.146	0.414	0.414	0.259		24.4		
Hotspot	NR Band n7	50	QPSK	B	0042M	1:1	0.02	2535.00	507000	DF1+CFDM	0.0	21.0	20.35	135	0	Bottom	10	0.185	1.161	0.447	0.447	0.279		24.8		
Hotspot	NR Band n7	50	QPSK	B	0042M	1:1	0.02	2535.00	507000	CP-OFDM	0.0	21.0	20.68	1	1	Bottom	10	0.363	1.178	0.429	0.429	0.264		24.7		
Hotspot	NR Band n7	50	QPSK	B	0042M	1:1	-0.01	2535.00	507000	DF1+CFDM	0.0	21.0	20.43	1	1	Right	10	0.302	1.146	0.346	0.346	0.216		25.6		
Hotspot	NR Band n7	50	QPSK	B	0042M	1:1	-0.02	2535.00	507000	DF1+CFDM	0.0	21.0	20.35	135	0	Right	10	0.121	1.161	0.373	0.373	0.233		25.2		
ANSI/IEEE C61.158-2 SAFETY LIMIT																		Head		1.6 W/kg (mW/g)		averaged over 1 gram				
Spatial Peak																		Body		1.6 W/kg (mW/g)		averaged over 1 gram				
Uncontrolled Exposure/General Population																										

Table 12-92

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio [1g SAR]	Plot #	P1mit [dBm]	Overall P1mit [dBm]	EPS P1mit [dBm]
Body-worn/Hotspot	NR Band n7	50	QPSK	F	0042M	1:1	0.03	2535.00	507000	DF1+CFDM	0.0	20.5	19.79	1	1	Back	10	0.138	1.178	0.186	0.186	0.116		27.8		
Hotspot	NR Band n7	50	QPSK	F	0042M	1:1	0.03	2535.00	507000	DF1+CFDM	0.0	20.5	19.74	135	68	Back	10	0.143	1.191	0.170	0.170	0.106		28.1		
Hotspot	NR Band n7	50	QPSK	F	0042M	1:1	0.06	2535.00	507000	DF1+CFDM	0.0	20.5	19.76	1	1	Front	10	0.268	1.178	0.269	0.269	0.168		26.1		
Hotspot	NR Band n7	50	QPSK	F	0042M	1:1	0.07	2535.00	507000	DF1+CFDM	0.0	20.5	19.74	135	68	Front	10	0.208	1.191	0.248	0.248	0.155		26.5		
Hotspot	NR Band n7	50	QPSK	F	0042M	1:1	0.00	2535.00	507000	DF1+CFDM	0.0	20.5	19.79	1	1	Top	10	0.433	1.178	0.498	0.498	0.311		23.1		
Hotspot	NR Band n7	50	QPSK	F	0042M	1:1	0.07	2535.00	507000	DF1+CFDM	0.0	20.5	19.74	135	68	Top	10	0.177	1.191	0.449	0.449	0.281		23.1		
Hotspot	NR Band n7	50	QPSK	F	0042M	1:1	0.04	2535.00	507000	CP-OFDM	0.0	20.5	20.07	1	1	Top	10	0.473	1.194	0.522	0.522	0.326	A72	23.1		
Hotspot	NR Band n7	50	QPSK	F	0042M	1:1	0.05	2535.00	507000	DF1+CFDM	0.0	20.5	19.79	1	1	Left	10	0.054	1.178	0.064	0.064	0.040		32.4		
Hotspot	NR Band n7	50	QPSK	F	0042M	1:1	0.06	2535.00	507000	DF1+CFDM	0.0	20.5	19.74	135	68	Left	10	0.043	1.191	0.050	0.050	0.031		33.1		
ANSI/IEEE C61.158-2 SAFETY LIMIT																		Head		1.6 W/kg (mW/g)		averaged over 1 gram				
Spatial Peak																		Body		1.6 W/kg (mW/g)		averaged over 1 gram				
Uncontrolled Exposure/General Population																										

12.26 NR Band n41 Standalone SAR

Table 12-93

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Path	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio [1g SAR]	Plot #	P1mit [dBm]	Overall P1mit [dBm]	EPS P1mit [dBm]
Head	NR Band n41	100	QPSK	B	2	0044M	1:1	0.19	2502.99	518598	DF1+CFDM	0.0	22.0	21.90	1	271	Right Cheek	0	0.566	1.000	0.046	0.046	0.020		35.3		
Head	NR Band n41	100	QPSK	B	2	0044M	1:1	0.13	2502.99	518598	DF1+CFDM	0.0	22.0	21.98	135	0	Right Cheek	0	0.059	1.005	0.059	0.059	0.037		34.2		
Head	NR Band n41	100	QPSK	B	2	0044M	1:1	0.08	2502.99	518598	CP-OFDM	0.0	22.0	21.98	1	1	Right Cheek	0	0.077	1.005	0.072	0.072	0.045		33.6		
Head	NR Band n41	100	QPSK	B	2	0044M	1:1	0.20	2502.99	518598	DF1+CFDM	0.0	22.0	21.90	1	271	Right Tilt	0	0.560	1.000	0.020	0.020	0.013		38.9		
Head	NR Band n41	100	QPSK	B	2	0044M	1:1	0.07	2502.99	518598	DF1+CFDM	0.0	22.0	21.98	135	0	Right Tilt	0	0.054	1.005	0.054	0.054	0.033		35.7	33.4	21.0
Head	NR Band n41	100	QPSK	B	2	0044M	1:1	0.01	2502.99	518598	DF1+CFDM	0.0	22.0	21.90	1	271	Left Cheek	0	0.054	1.000	0.004	0.004	0.003		45.1		
Head	NR Band n41	100	QPSK	B	2	0044M	1:1	0.03	2502.99	518598	DF1+CFDM	0.0	22.0	21.98	135	0	Left Cheek	0	0.056	1.005	0.006	0.006	0.004		44.1		
Head	NR Band n41	100	QPSK	B	2	0044M	1:1	0.03	2502.99	518598	DF1+CFDM	0.0	22.0	21.98	1	271	Left Tilt	0	0.051	1.000	0.012	0.012	0.009		41.0		
Head	NR Band n41	100	QPSK	B	2	0044M	1:1	0.12	2502.99	518598	DF1+CFDM	0.0	22.0	21.98	135	0	Left Tilt	0	0.051	1.005	0.031	0.031	0.013		38.7		
ANALYZER CRL 11012 - SAFETY LIMIT															HEAD												
Spatial Peak															1.6 W/kg (mW/g)												
Uncontrolled Exposure / General Population															permitted over 10g												

Table 12-95

Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Path	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]
Head	NR Band n41	100	D	2	0044M	1:1	0.05	2592.99	518598	CW/SRS	22.0	21.24	Right Cheek	0	0.001	1.191	0.001	0.001	0.001		61.2		
Head	NR Band n41	100	D	2	0044M	1:1	0.05	2592.99	518598	CW/SRS	22.0	21.24	Right Tilt	0	0.000	1.191	0.000	0.000	0.000		61.2		
Head	NR Band n41	100	D	2	0044M	1:1	0.01	2592.99	518598	CW/SRS	22.0	21.24	Left Cheek	0	0.000	1.191	0.000	0.000	0.000		61.2		
Head	NR Band n41	100	D	2	0044M	1:1	0.07	2592.99	518598	CW/SRS	22.0	21.24	Left Tilt	0	0.000	1.191	0.000	0.000	0.000		61.2		
ANSI/IEEE C95.1 1992 - SAFETY LIMIT												Head										1.6 W/kg (mW/g)	
Spatial Peak												1.6 W/kg (mW/g)										averaged over 1 gram	
Uncontrolled Exposure/General Population																							

Table 12-96

Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Path	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]
Head	NR Band n41	100	E	2	0044M	1:1	-0.10	2592.99	518598	CW/SRS	18.5	18.07	Right Cheek	0	0.278	1.104	0.307	0.307	0.192		25.6		
Head	NR Band n41	100	E	2	0044M	1:1	-0.05	2592.99	518598	CW/SRS	18.5	18.07	Right Tilt	0	0.323	1.104	0.357	0.357	0.223		22.9		
Head	NR Band n41	100	E	2	0044M	1:1	-0.03	2592.99	518598	CW/SRS	18.5	18.07	Left Cheek	0	0.647	1.104	0.714	0.714	0.446		15.9		
Head	NR Band n41	100	E	2	0044M	1:1	-0.11	2592.99	518598	CW/SRS	18.5	18.07	Left Tilt	0	0.965	1.104	0.624	0.624	0.390		20.5		
ANSI/IEEE C95.1 1992 - SAFETY LIMIT												Head										1.6 W/kg (mW/g)	
Spatial Peak												1.6 W/kg (mW/g)										averaged over 1 gram	
Uncontrolled Exposure/General Population																							

Table 12-97

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Path	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MFR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RR Size	RR Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]
Body-worn/Hotspot	NR Band n41	100	QPSK	B	2	0044M	1:1	0.03	2592.99	518598	DTT+OFDM	0.0	21.0	20.96	1	137	Back	10	0.281	1.009	0.284	0.284	0.178		26.4		
Body-worn/Hotspot	NR Band n41	100	QPSK	B	2	0044M	1:1	0.03	2592.99	518598	DTT+OFDM	0.0	21.0	20.95	135	138	Back	10	0.247	1.012	0.250	0.250	0.156		27.0		
Body-worn/Hotspot	NR Band n41	100	QPSK	B	2	0044M	1:1	0.03	2592.99	518598	OFDM	0.0	21.0	20.92	1	1	Back	10	0.264	1.007	0.267	0.267	0.229	A74	25.1		
Hotspot	NR Band n41	100	QPSK	B	2	0044M	1:1	0.01	2592.99	518598	DTT+OFDM	0.0	21.0	20.96	1	137	Front	10	0.238	1.009	0.232	0.232	0.145		27.3		
Hotspot	NR Band n41	100	QPSK	B	2	0044M	1:1	0.03	2592.99	518598	DTT+OFDM	0.0	21.0	20.96	135	138	Front	10	0.227	1.012	0.230	0.230	0.144		27.9		
Hotspot	NR Band n41	100	QPSK	B	2	0044M	1:1	0.05	2592.99	518598	DTT+OFDM	0.0	21.0	20.96	1	137	Bottom	10	0.227	1.009	0.229	0.229	0.143		27.1		
Hotspot	NR Band n41	100	QPSK	B	2	0044M	1:1	0.03	2592.99	518598	DTT+OFDM	0.0	21.0	20.95	135	138	Bottom	10	0.220	1.012	0.223	0.223	0.139		27.5		
Hotspot	NR Band n41	100	QPSK	B	2	0044M	1:1	0.03	2592.99	518598	DTT+OFDM	0.0	21.0	20.96	1	137	Right	10	0.175	1.009	0.177	0.177	0.111		28.1		
Hotspot	NR Band n41	100	QPSK	B	2	0044M	1:1	0.10	2592.99	518598	DTT+OFDM	0.0	21.0	20.95	135	138	Right	10	0.177	1.012	0.179	0.179	0.112		28.4		
ANSI/IEEE C95.1 1992 - SAFETY LIMIT												Body										1.6 W/kg (mW/g)					
Spatial Peak												1.6 W/kg (mW/g)										averaged over 1 gram					
Uncontrolled Exposure/General Population																											

Table 12-98

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Path	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MFR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RR Size	RR Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]
Body-worn/Hotspot	NR Band n41	100	QPSK	F	1	0044M	1:1	0.08	2592.99	518598	DTT+OFDM	0.0	20.5	20.27	1	137	Back	10	0.188	1.054	0.209	0.209	0.111		27.8		
Body-worn/Hotspot	NR Band n41	100	QPSK	F	1	0044M	1:1	0.05	2592.99	518598	DTT+OFDM	0.0	20.5	20.33	135	69	Back	10	0.188	1.040	0.206	0.206	0.109		27.1		
Hotspot	NR Band n41	100	QPSK	F	1	0044M	1:1	0.10	2592.99	518598	DTT+OFDM	0.0	20.5	20.27	1	137	Front	10	0.289	1.054	0.305	0.305	0.193		25.9		
Hotspot	NR Band n41	100	QPSK	F	1	0044M	1:1	0.05	2592.99	518598	DTT+OFDM	0.0	20.5	20.33	135	69	Front	10	0.284	1.040	0.295	0.295	0.184		25.7		
Hotspot	NR Band n41	100	QPSK	F	1	0044M	1:1	0.03	2592.99	518598	DTT+OFDM	0.0	20.5	20.27	1	137	Top	10	0.437	1.054	0.461	0.461	0.288	21.5	23.1		19.5
Hotspot	NR Band n41	100	QPSK	F	1	0044M	1:1	0.05	2592.99	518598	DTT+OFDM	0.0	20.5	20.33	135	69	Top	10	0.436	1.040	0.453	0.453	0.283		23.9		
Hotspot	NR Band n41	100	QPSK	F	1	0044M	1:1	0.05	2592.99	518598	OFDM	0.0	20.5	20.28	1	1	Top	10	0.553	1.062	0.545	0.545	0.345	A75	23.1		
Hotspot	NR Band n41	100	QPSK	F	1	0044M	1:1	0.07	2592.99	518598	DTT+OFDM	0.0	20.5	20.27	1	137	Left	10	0.568	1.054	0.601	0.601	0.358		32.5		
Hotspot	NR Band n41	100	QPSK	F	1	0044M	1:1	0.09	2592.99	518598	DTT+OFDM	0.0	20.5	20.30	135	69	Left	10	0.625	1.040	0.663	0.663	0.400		31.4		
ANSI/IEEE C95.1 1992 - SAFETY LIMIT												Body										1.6 W/kg (mW/g)					
Spatial Peak												1.6 W/kg (mW/g)										averaged over 1 gram					
Uncontrolled Exposure/General Population																											

Table 12-99

Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Path	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]
Body-worn/Hotspot	NR Band n41	100	D	2	0044M	1:1	-0.08	2592.99	518598	CW/SRS	21.0	20.26	Back	10	0.358	1.186	0.425	0.425	0.266		24.7		
Hotspot	NR Band n41	100	D	2	0044M	1:1	0.15	2592.99	518598	CW/SRS	21.0	20.26	Front	10	0.019	1.186	0.021	0.021	0.013		31.7		
Hotspot	NR Band n41	100	D	2	0044M	1:1	0.07	2592.99	518598	CW/SRS	21.0	20.26	Bottom	10	0.057	1.186	0.068	0.068	0.043		36.2		
Hotspot	NR Band n41	100	D	2	0044M	1:1	0.02	2592.99	518598	CW/SRS	21.0	20.26	Left	10	0.025	1.186	0.030	0.030	0.019		32.7		
ANSI/IEEE C95.1 1992 - SAFETY LIMIT												Body										1.6 W/kg (mW/g)	
Spatial Peak												1.6 W/kg (mW/g)										averaged over 1 gram	
Uncontrolled Exposure/General Population																							

Table 12-100

Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Path	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]
Body-worn/Hotspot	NR Band n41	100	E	1	0044M	1:1	-0.04	2592.99	518598	CW/SRS	19.0	18.63	Back	10	0.109	1.089	0.119	0.119	0.074		28.2		



12.27 NR Band n48 Standalone SAR

Table 12-101

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimt [dBm]	Overall Plimt [dBm]	EPS Plimt [dBm]
Head	NR Band n48	40	QPSK	F	0080M	1:1	-0.04	3624.99	638000	DFT-s-OFDM	0.0	17.0	16.75	1	104	Right Cheek	0	0.949	1.059	1.005	1.005	0.628		16.9		
Head	NR Band n48	40	QPSK	F	0080M	1:1	-0.04	3624.99	641666	DFT-s-OFDM	0.0	17.0	16.81	1	1	Right Cheek	0	1.040	1.045	1.005	1.005	0.609		16.7		
Head	NR Band n48	40	QPSK	F	0080M	1:1	0.00	3624.99	645332	DFT-s-OFDM	0.0	17.0	16.84	1	104	Right Cheek	0	1.040	1.038	1.080	1.080	0.675		16.6		
Head	NR Band n48	40	QPSK	F	0080M	1:1	0.00	3624.99	638000	DFT-s-OFDM	0.0	17.0	16.77	50	56	Right Cheek	0	1.010	1.054	1.065	1.065	0.666		16.7		
Head	NR Band n48	40	QPSK	F	0080M	1:1	0.00	3624.99	641666	DFT-s-OFDM	0.0	17.0	16.81	50	0	Right Cheek	0	0.991	1.045	1.036	1.036	0.648		16.8		
Head	NR Band n48	40	QPSK	F	0080M	1:1	0.00	3624.99	645332	DFT-s-OFDM	0.0	17.0	16.83	50	28	Right Cheek	0	1.070	1.040	1.113	1.113	0.696	A76	16.5		
Head	NR Band n48	40	QPSK	F	0080M	1:1	-0.06	3679.98	645332	DFT-s-OFDM	0.0	17.0	16.79	100	28	Right Cheek	0	1.000	1.009	1.006	1.006	0.606		16.7		
Head	NR Band n48	40	QPSK	F	0080M	1:1	0.00	3679.98	645332	DFT-s-OFDM	0.0	17.0	16.77	300	0	Right Cheek	0	1.000	1.004	1.075	1.075	0.972		16.6		
Head	NR Band n48	40	QPSK	F	0080M	1:1	0.00	3679.98	645332	CP-OFDM	0.0	17.0	16.79	1	1	Right Cheek	0	0.999	1.050	1.049	1.049	0.606		16.7		
Head	NR Band n48	40	QPSK	F	0080M	1:1	-0.03	3679.98	638000	DFT-s-OFDM	0.0	17.0	16.79	1	104	Right Tilt	0	0.994	1.009	1.010	1.010	0.611		16.6		
Head	NR Band n48	40	QPSK	F	0080M	1:1	0.00	3624.99	641666	DFT-s-OFDM	0.0	17.0	16.83	1	1	Right Tilt	0	0.971	1.040	1.015	1.015	0.634		16.5		
Head	NR Band n48	40	QPSK	F	0080M	1:1	0.00	3679.98	645332	DFT-s-OFDM	0.0	17.0	16.84	1	104	Right Tilt	0	1.010	1.038	1.048	1.048	0.605		16.7		
Head	NR Band n48	40	QPSK	F	0080M	1:1	-0.03	3679.98	638000	DFT-s-OFDM	0.0	17.0	16.77	50	56	Right Tilt	0	0.942	1.004	1.018	1.018	0.647		16.8		
Head	NR Band n48	40	QPSK	F	0080M	1:1	0.00	3624.99	641666	DFT-s-OFDM	0.0	17.0	16.81	50	0	Right Tilt	0	0.968	1.045	1.013	1.013	0.633		16.5		
Head	NR Band n48	40	QPSK	F	0080M	1:1	0.00	3679.98	645332	DFT-s-OFDM	0.0	17.0	16.83	50	28	Right Tilt	0	1.050	1.040	1.092	1.092	0.683		16.6		
Head	NR Band n48	40	QPSK	F	0080M	1:1	-0.12	3679.98	645332	DFT-s-OFDM	0.0	17.0	16.77	300	0	Right Tilt	0	1.040	1.004	1.096	1.096	0.685		16.5		
Head	NR Band n48	40	QPSK	F	0080M	1:1	0.00	3679.98	645332	DFT-s-OFDM	0.0	17.0	16.84	1	104	Left Cheek	0	0.902	0.938	0.417	0.417	0.261		20.7		
Head	NR Band n48	40	QPSK	F	0080M	1:1	-0.01	3679.98	645332	DFT-s-OFDM	0.0	17.0	16.83	50	28	Left Cheek	0	0.417	1.040	0.434	0.434	0.271		20.6		
Head	NR Band n48	40	QPSK	F	0080M	1:1	0.00	3679.98	645332	DFT-s-OFDM	0.0	17.0	16.84	1	104	Left Tilt	0	0.479	1.038	0.497	0.497	0.311		20.9		
Head	NR Band n48	40	QPSK	F	0080M	1:1	-0.06	3679.98	645332	DFT-s-OFDM	0.0	17.0	16.83	50	28	Left Tilt	0	0.502	1.040	0.522	0.522	0.326		19.8		
ANSI/IEEE CS1.1 1992 - SAFETY LIMIT														Head												
Spatial Peak														1.6 W/kg (mW/g)												
Uncontrolled Exposure/General Population														averaged over 1 gram												

Note: Red entry represents variability measurement

Note: Blue entry represents variability measurement

Table 12-102

Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimt [dBm]	Overall Plimt [dBm]	EPS Plimt [dBm]	
Head	NR Band n48	40	C	0080M	1:1	-0.05	3624.99	641666	CW/SRS	12.0	11.90	Right Cheek	0	0.017	1.023	0.017	0.017	0.011		29.5			
Head	NR Band n48	40	C	0080M	1:1	0.01	3624.99	641666	CW/SRS	12.0	11.90	Right Tilt	0	0.011	1.023	0.011	0.011	0.007		31.4			
Head	NR Band n48	40	C	0080M	1:1	0.03	3624.99	641666	CW/SRS	12.0	11.90	Left Cheek	0	0.008	1.023	0.008	0.008	0.005		32.8			
Head	NR Band n48	40	C	0080M	1:1	0.16	3624.99	641666	CW/SRS	12.0	11.90	Left Tilt	0	0.019	1.023	0.019	0.019	0.012		29.1			
ANSI/IEEE CS1.1 1992 - SAFETY LIMIT														Head									
Spatial Peak														1.6 W/kg (mW/g)									
Uncontrolled Exposure/General Population														averaged over 1 gram									

Table 12-103

posure	Band / Mode	Bandwidth [MHz]	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimt [dBm]	Overall Plimt [dBm]	EPS Plimt [dBm]	
Head	NR Band n48	40	I	0080M	1:1	-0.05	3624.99	641666	CW/SRS	16.5	16.01	Right Cheek	0	0.473	1.119	0.529	0.529	0.331		19.2			
Head	NR Band n48	40	I	0080M	1:1	0.06	3624.99	641666	CW/SRS	16.5	16.01	Right Tilt	0	0.056	1.119	0.063	0.063	0.039		28.5			
Head	NR Band n48	40	I	0080M	1:1	-0.05	3624.99	641666	CW/SRS	16.5	16.01	Left Cheek	0	0.522	1.119	0.584	0.584	0.365		18.8		15.5	
Head	NR Band n48	40	I	0080M	1:1	0.03	3624.99	641666	CW/SRS	16.5	16.01	Left Tilt	0	0.067	1.119	0.075	0.075	0.047		27.7			
ANSI/IEEE CS1.1 1992 - SAFETY LIMIT														Head									
Spatial Peak														1.6 W/kg (mW/g)									
Uncontrolled Exposure/General Population														averaged over 1 gram									

Table 12-104

Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimt [dBm]	Overall Plimt [dBm]	EPS Plimt [dBm]	
Head	NR Band n48	40	D	0080M	1:1	0.04	3679.98	645332	CW/SRS	12.0	11.62	Right Cheek	0	0.001	1.091	0.001	0.001	0.001		41.6			
Head	NR Band n48	40	D	0080M	1:1	0.08	3679.98	645332	CW/SRS	12.0	11.62	Right Tilt	0	0.000	1.091	0.000	0.000	0.000		51.6			
Head	NR Band n48	40	D	0080M	1:1	0.03	3679.98	645332	CW/SRS	12.0	11.62	Left Cheek	0	0.000	1.091	0.000	0.000	0.000		51.6			
Head	NR Band n48	40	D	0080M	1:1	0.09	3679.98	645332	CW/SRS	12.0	11.62	Left Tilt	0	0.000	1.091	0.000	0.000	0.000		51.6			
ANSI/IEEE CS1.1 1992 - SAFETY LIMIT														Head									
Spatial Peak														1.6 W/kg (mW/g)									
Uncontrolled Exposure/General Population														averaged over 1 gram									

Table 12-105

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimt [dBm]	Overall Plimt [dBm]	EPS Plimt [dBm]	
Body worn/Hotspot	NR Band n48	40	QPSK	F	0080M	1:1	-0.04	3679.98	645332	DFT-s-OFDM	0.0	20.5	20.37	1	104	Back	10	0.480	1.030	0.484	0.484	0.309	A77	23.5			
Body worn/Hotspot	NR Band n48	40	QPSK	F	0080M	1:1	0.02	3679.98	645332	DFT-s-OFDM	0.0	20.5	20.38	50	28	Back	10	0.480	1.028	0.482	0.482	0.301		23.6			
Hotspot	NR Band n48	40	QPSK	F	0080M	1:1	-0.06	3679.98	645332	DFT-s-OFDM	0.0	20.5	20.37	1	104	Front	10	0.253	1.030	0.259	0.259	0.162		26.3			
Hotspot	NR Band n48	40	QPSK	F	0080M	1:1	-0.03	3679.98	645332	DFT-s-OFDM	0.0	20.5	20.38	50	28	Front	10	0.257	1.028	0.264	0.264	0.165		26.2			
Hotspot	NR Band n48	40	QPSK	F	0080M	1:1	-0.03	3679.00	645666	DFT-s-OFDM	0.0	20.5	20.37	1	104	Top	10	0.681	1.050	0.681	0.681	0.384		23.5			
Hotspot	NR Band n48	40	QPSK	F	0080M	1:1	0.02	3624.99	645666	DFT-s-OFDM	0.0	20.5	20.35	1	1	Top	10	0.624	1.035	0.646	0.646	0.404		22.3			
Hotspot	NR Band n48	40	QPSK	F	0080M	1:1	-0.03	3679.98	645332	DFT-s-OFDM	0.0	20.5	20.37	1	104	Top	10	0.628	1.030	0.636	0.636	0.391		22.2			
Hotspot	NR Band n48	40	QPSK	F	0080M	1:1	0.07	3720.00	645666	DFT-s-OFDM	0.0	20.5	20.37	50	28	Top	10	0.679	1.040	0.679	0.679	0.424		22.1			
Hotspot	NR Band n48	40	QPSK	F	0080M	1:1	-0.04	3624.99	645666	DFT-s-OFDM	0.0	20.5	20.37	50	0	Top	10	0.629	1.030	0.646	0.646	0.405		22.3			
Hotspot	NR Band n48	40	QPSK	F	0080M	1:1	0.02	3679.98	645332	DFT-s-OFDM	0.0	20.5	20.38	50	28	Top	10	0.627	1.028	0.675	0.675	0.422		22.2			
Hotspot	NR Band n48	40	QPSK	F	0080M	1:1	0.03	3679.98	645332	DFT-s-OFDM	0.0	20.5	20.38	50	0	Top	10	0.628	1.040	0.648	0.648	0.405	A78	23.5			
Hotspot	NR Band n48	40	QPSK	F	0080M	1:1	-0.04	3624.99	645666	CP-OFDM	0.0	20.5	20.35	1	1	Top	10	0.601	1.045	0.628	0.628	0.393		22.5			
Hotspot	NR Band n48	40	QPSK	F	0080M	1:1	0.16	3679.98	645332	DFT-s-OFDM	0.0	20.5	20.37	1	104	Left	10	0.125	1.035	0.129	0.129	0.081		29.4			
Hotspot	NR Band n48	40	QPSK	F	0080M	1:1	0.09	3679.98	645332	DFT-s-OFDM	0.0	20.5	20.38	50	28	Left	10	0.120	1.028	0.123	0.123	0.077		29.5			
ANR/IEEE C95.1.1992 - SAFETY LIMIT																								Body			
Spatial Peak																								1.6 W/kg (mW/g)			
Uncontrolled Environment (General Population)																											

Table 12-106

Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	P101 [dBm]	Overall P101 [dBm]	EPS P101 [dBm]
Body-worn/Hotspot	NR Band n48	40	C	0080M	1:1	-0.17	3570.00	638000	CW/SRS	15.5	15.36	Back	10	0.144	1.033	0.149	0.149	0.093	23.7		
Hotspot	NR Band n48	40	C	0080M	1:1	-0.05	3570.00	638000	CW/SRS	15.5	15.36	Front	10	0.098	1.033	0.101	0.101	0.063	25.4	21.4	14.5
Hotspot	NR Band n48	40	C	0080M	1:1	0.10	3570.00	638000	CW/SRS	15.5	15.36	Bottom	10	0.044	1.033	0.045	0.045	0.028	28.9		
Hotspot	NR Band n48	40	C	0080M	1:1	-0.01	3570.00	638000	CW/SRS	15.5	15.36	Right	10	0.247	1.033	0.255	0.255	0.159	21.4		
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population														Body 1.6 W/kg (mW/g) averaged over 1 gram							

Table 12-107

Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	P101 [dBm]	Overall P101 [dBm]	EPS P101 [dBm]
Body-worn/Hotspot	NR Band n48	40	I	0080M	1:1	-0.09	3679.98	645332	CW/SRS	20.0	19.50	Back	10	0.173	1.122	0.194	0.194	0.121	27.1		
Hotspot	NR Band n48	40	I	0080M	1:1	-0.01	3679.98	645332	CW/SRS	15.5	15.16	Front	10	0.026	1.081	0.028	0.028	0.018	31.0	24.5	19.0
Hotspot	NR Band n48	40	I	0080M	1:1	-0.06	3679.98	645332	CW/SRS	20.0	19.50	Left	10	0.151	1.122	0.169	0.169	0.106	27.7		
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population														Body 1.6 W/kg (mW/g) averaged over 1 gram							

Table 12-108

Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	P101 [dBm]	Overall P101 [dBm]	EPS P101 [dBm]
Body-worn/Hotspot	NR Band n48	40	D	0080M	1:1	-0.03	3679.98	645332	CW/SRS	15.5	15.16	Back	10	0.089	1.081	0.096	0.096	0.060	25.6		
Hotspot	NR Band n48	40	D	0080M	1:1	0.01	3679.98	645332	CW/SRS	15.5	15.16	Front	10	0.008	1.081	0.009	0.009	0.006	36.1	25.6	14.5
Hotspot	NR Band n48	40	D	0080M	1:1	0.02	3679.98	645332	CW/SRS	15.5	15.16	Bottom	10	0.026	1.081	0.028	0.028	0.018	31.0		
Hotspot	NR Band n48	40	D	0080M	1:1	0.02	3679.98	645332	CW/SRS	15.5	15.16	Left	10	0.005	1.081	0.005	0.005	0.003	38.1		
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population														Body 1.6 W/kg (mW/g) averaged over 1 gram							

12.28 NR Band n77 Standalone SAR

Table 12-109

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	P101 [dBm]	P101 [dBm]	Overall P101 [dBm]	EPS P101 [dBm]
Head	NR Band n77	100	QPSK	F	0045M	1:1	0.00	3750.00	650000	DFT-s-OFDM	0.0	17.0	16.52	1	271	Right Cheek	0	0.817	1.117	0.913	0.913	0.571	17.3			
Head	NR Band n77	100	QPSK	F	0045M	1:1	0.11	3930.00	662000	DFT-s-OFDM	0.0	17.0	16.94	1	1	Right Cheek	0	0.864	1.014	0.876	0.876	0.548	17.5			
Head	NR Band n77	100	QPSK	F	0045M	1:1	0.00	3750.00	650000	DFT-s-OFDM	0.0	17.0	16.47	135	0	Right Cheek	0	0.893	1.130	1.009	1.009	0.631	16.9			
Head	NR Band n77	100	QPSK	F	0045M	1:1	0.02	3930.00	662000	DFT-s-OFDM	0.0	17.0	16.84	135	138	Right Cheek	0	0.982	1.038	0.812	0.812	0.508	17.9			
Head	NR Band n77	100	QPSK	F	0045M	1:1	0.00	3930.00	662000	DFT-s-OFDM	0.0	17.0	16.72	270	0	Right Cheek	0	0.797	1.044	0.846	0.846	0.520	17.7			
Head	NR Band n77	100	QPSK	F	0045M	1:1	0.00	3750.00	650000	DFT-s-OFDM	0.0	17.0	16.52	1	271	Right TIR	0	0.866	1.117	0.968	0.968	0.688	16.7			
Head	NR Band n77	100	QPSK	F	0045M	1:1	0.03	3930.00	662000	DFT-s-OFDM	0.0	17.0	16.94	1	1	Right TIR	0	0.916	1.014	0.929	0.929	0.581	17.3			
Head	NR Band n77 DoD	100	QPSK	F	0045M	1:1	0.00	3500.01	633334	CP-OFDM	0.0	17.0	17.00	135	138	Right TIR	0	1.100	1.000	1.100	1.100	0.688	17.0			
Head	NR Band n77 DoD	100	QPSK	F	0045M	1:1	-0.01	3500.01	633334	CP-OFDM	0.0	17.0	16.99	135	138	Right TIR	0	1.000	1.000	1.029	1.029	0.638	16.9			
Head	NR Band n77	100	QPSK	F	0045M	1:1	0.06	3750.00	650000	DFT-s-OFDM	0.0	17.0	16.47	135	0	Right TIR	0	1.030	1.130	1.153	1.153	0.721	16.3			
Head	NR Band n77	100	QPSK	F	0045M	1:1	0.00	3930.00	662000	DFT-s-OFDM	0.0	17.0	16.84	135	138	Right TIR	0	0.843	1.038	0.873	0.873	0.546	17.5			
Head	NR Band n77	100	QPSK	F	0045M	1:1	0.04	3930.00	662000	DFT-s-OFDM	0.0	17.0	16.73	270	0	Right TIR	0	0.869	1.064	0.925	0.925	0.578	17.9			
Head	NR Band n77	100	QPSK	F	0045M	1:1	0.03	3930.00	662000	CP-OFDM	0.0	17.0	16.83	1	1	Right TIR	0	0.969	1.045	1.030	1.030	0.644	16.8			
Head	NR Band n77	100	QPSK	F	0045M	1:1	0.00	3930.00	662000	CP-OFDM	0.0	17.0	16.84	135	138	Right TIR	0	0.982	1.045	0.982	0.982	0.644	16.8			
Head	NR Band n77	100	QPSK	F	0045M	1:1	-0.07	3930.00	662000	DFT-s-OFDM	0.0	17.0	16.94	1	1	Left Cheek	0	0.976	1.014	0.981	0.981	0.688	17.0			
Head	NR Band n77	100	QPSK	F	0045M	1:1	0.04	3930.00	662000	DFT-s-OFDM	0.0	17.0	16.84	135	138	Left Cheek	0	0.919	1.018	0.912	0.912	0.720	21.3			
Head	NR Band n77	100	QPSK	F	0045M	1:1	-0.08	3930.00	662000	DFT-s-OFDM	0.0	17.0	16.94	1	1	Left TIR	0	0.982	1.014	0.987	0.987	0.742	21.1			
Head	NR Band n77	100	QPSK	F	0045M	1:1	0.07	3930.00	662000	DFT-s-OFDM	0.0	17.0	16.84	135	138	Left TIR	0	0.970	1.038	0.984	0.984	0.740	21.1			
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: Blue entry represents variability measurement

Table 12-110

Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	P101 [dBm]	Overall P101 [dBm]	EPS P101 [dBm]
Head	NR Band n77 DoD	100	C	0068M	1:1	0.07	3500.01	633334	CW/SRS	22.0	21.40	Right Cheek	0	0.252	1.148	0.289	0.289	0.181	27.3		
Head	NR Band n77	100	C	0068M	1:1	-0.05	3930.00	662000	CW/SRS	22.0	20.55	Right Cheek	0	0.224	1.396	0.313	0.313	0.196	27.0		
Head	NR Band n77	100	C	0068M	1:1	-0.06	3930.00	662000	CW/SRS	22.0	20.55	Right TIR	0	0.094	1.396	0.121	0.121	0.087	20.8	27.0	21.0
Head	NR Band n77	100	C	0068M	1:1	0.01	3930.00	662000	CW/SRS	22.0	20.55	Left Cheek	0	0.115	1.396	0.161	0.161	0.101	29.9		
Head	NR Band n77	100	C	0068M	1:1	-0.12	3930.00	662000	CW/SRS	22.0	20.55	Left TIR	0	0.140	1.396	0.195	0.195	0.122	29.0		
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population														Body 1.6 W/kg (mW/g) averaged over 1 gram							

Table 12-111

Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	P101 [dBm]	Overall P101 [dBm]	EPS P101 [dBm]
Head	NR Band n77 DoD	100	I	0045	1:1	-0.02	3500.01	633334	CW/SRS	16.5	15.54	Right Cheek	0	0.346	1.247	0.307	0.307	0.192	21.6		
Head	NR Band n77	100	I	0045	1:1	-0.07	3750.00	650000	CW/SRS	16.5	15.51	Right Cheek	0	0.349	1.377	0.481	0.481	0.301	19.6		
Head	NR Band n77	100	I	0045	1:1	-0.07	3930.00	662000	CW/SRS	16.5	16.27	Right Cheek	0	0.410	1.054	0.432	0.432	0.270	20.1		
Head	NR Band n77	100	I	0045	1:1	0.02	3930.00	662000	CW/SRS	16.5	16.27	Right TIR	0	0.097	1.054	0.060	0.060	0.038	28.7		
Head	NR Band n77	100	I	0045	1:1	-0.16	3930.00	662000	CW/SRS	16.5	16.27	Left Cheek	0	0.014	1.054	0.015	0.015	0.009	34.8	19.6	15.5
Head	NR Band n77	100	I	0045	1:1	0.07	3930.00	662000	CW/SRS	16.5	16.27	Left TIR	0	0.024	1.054	0.025	0.025	0.016	32.4		
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 12-112

Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	P10t [dBm]	Overall P10t [dBm]	EF5 P10t [dBm]
Head	NR Band n77 DoD	100	D	0045M	1:1	0.05	3500.01	633334	CW/SRS	11.5	11.19	Right Cheek	0	0.002	1.074	0.002	0.002	0.001		38.1		
Head	NR Band n77	100	D	0045M	1:1	0.06	3930.00	662000	CW/SRS	11.5	10.85	Right Cheek	0	0.000	1.161	0.000	0.000	0.000		50.8		
Head	NR Band n77	100	D	0045M	1:1	0.09	3930.00	662000	CW/SRS	11.5	10.85	Right Tilt	0	0.000	1.161	0.000	0.000	0.000		50.8		
Head	NR Band n77	100	D	0045M	1:1	0.09	3930.00	662000	CW/SRS	11.5	10.85	Left Cheek	0	0.000	1.161	0.000	0.000	0.000		50.8		
Head	NR Band n77	100	D	0045M	1:1	0.04	3930.00	662000	CW/SRS	11.5	10.85	Left Tilt	0	0.000	1.161	0.000	0.000	0.000		50.8		
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 12-113

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	P10t #	P10t [dBm]	Overall P10t [dBm]	EF5 P10t [dBm]
Body-worn/Hotspot	NR Band n77	100	QPSK	F	0045M	1:1	0.01	3750.00	650000	DFT-s-OFDM	0.0	19.0	18.15	1	271	Back	10	0.420	1.119	0.470	0.470	0.294		22.2		
Body-worn/Hotspot	NR Band n77	100	QPSK	F	0045M	1:1	0.01	3930.00	662000	DFT-s-OFDM	0.0	19.0	18.94	1	1	Back	10	0.126	1.004	0.344	0.344	0.246		21.6		
Body-worn/Hotspot	NR Band n77 DoD	100	QPSK	F	0045M	1:1	-0.02	3500.01	633334	DFT-s-OFDM	0.0	19.0	18.95	135	138	Back	10	0.178	1.000	0.276	0.276	0.173		24.5		
Body-worn/Hotspot	NR Band n77	100	QPSK	F	0045M	1:1	0.02	3750.00	650000	DFT-s-OFDM	0.0	19.0	18.16	135	0	Back	10	0.172	1.107	0.412	0.412	0.258		22.8		
Body-worn/Hotspot	NR Band n77	100	QPSK	F	0045M	1:1	0.01	3930.00	662000	DFT-s-OFDM	0.0	19.0	18.95	135	138	Back	10	0.189	1.073	0.603	0.603	0.177		21.1		
Body-worn/Hotspot	NR Band n77	100	QPSK	F	0045M	1:1	0.01	3930.00	662000	DFT-s-OFDM	0.0	19.0	18.95	135	0	Back	10	0.193	1.095	0.612	0.612	0.183	A80	21.1		
Body-worn/Hotspot	NR Band n77	100	QPSK	F	0045M	1:1	0.00	3930.00	662000	CP-OFDM	0.0	19.0	18.86	1	1	Back	10	0.148	1.033	0.566	0.566	0.164		21.4	21.1	18.0
Hotspot	NR Band n77	100	QPSK	F	0045M	1:1	0.10	3930.00	662000	DFT-s-OFDM	0.0	19.0	18.94	1	1	Front	10	0.122	1.014	0.124	0.124	0.078		28.0		
Hotspot	NR Band n77	100	QPSK	F	0045M	1:1	0.04	3930.00	662000	DFT-s-OFDM	0.0	19.0	18.95	135	138	Front	10	0.138	1.031	0.138	0.138	0.086		27.5		
Hotspot	NR Band n77	100	QPSK	F	0045M	1:1	0.02	3930.00	662000	DFT-s-OFDM	0.0	19.0	18.94	1	1	Top	10	0.118	1.014	0.122	0.122	0.201		23.9		
Hotspot	NR Band n77	100	QPSK	F	0045M	1:1	0.00	3930.00	662000	DFT-s-OFDM	0.0	19.0	18.95	135	138	Top	10	0.126	1.073	0.133	0.133	0.208		23.7		
Hotspot	NR Band n77	100	QPSK	F	0045M	1:1	0.08	3930.00	662000	DFT-s-OFDM	0.0	19.0	18.94	1	1	Left	10	0.125	1.014	0.127	0.127	0.079		27.9		
Hotspot	NR Band n77	100	QPSK	F	0045M	1:1	0.00	3930.00	662000	DFT-s-OFDM	0.0	19.0	18.95	135	138	Left	10	0.120	1.023	0.123	0.123	0.077		28.1		
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population														Body 1.6 W/kg (mW/g) averaged over 1 gram												

Table 12-114

Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	P10t [dBm]	Overall P10t [dBm]	EF5 P10t [dBm]
Body-worn/Hotspot	NR Band n77 DoD	100	C	1022M	1:1	0.21	3500.01	633334	CW/SRS	18.0	17.95	Back	10	0.177	1.012	0.179	0.179	0.112		25.4		
Body-worn/Hotspot	NR Band n77	100	C	1022M	1:1	0.02	3930.00	662000	CW/SRS	18.0	17.00	Back	10	0.171	1.259	0.215	0.215	0.134		24.6		
Hotspot	NR Band n77	100	C	1022M	1:1	0.03	3930.00	662000	CW/SRS	18.0	17.00	Front	10	0.158	1.259	0.199	0.199	0.124		25.0		
Hotspot	NR Band n77	100	C	1022M	1:1	0.15	3930.00	662000	CW/SRS	18.0	17.00	Bottom	10	0.137	1.259	0.172	0.172	0.108		25.6		17.0
Hotspot	NR Band n77 DoD	100	C	1022M	1:1	-0.13	3500.01	633334	CW/SRS	18.0	17.95	Right	10	0.311	1.012	0.315	0.315	0.197		23.0		
Hotspot	NR Band n77	100	C	1022M	1:1	-0.01	3750.00	650000	CW/SRS	18.0	16.71	Right	10	0.139	1.346	0.456	0.456	0.285		21.4		
Hotspot	NR Band n77	100	C	1022M	1:1	0.11	3930.00	662000	CW/SRS	18.0	17.00	Right	10	0.421	1.259	0.530	0.530	0.331		20.7		
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 12-115

Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	P10t [dBm]	Overall P10t [dBm]	EF5 P10t [dBm]
Body-worn/Hotspot	NR Band n77 DoD	100	I	0045M	1:1	0.04	3500.01	633334	CW/SRS	19.0	17.90	Back	10	0.128	1.288	0.165	0.165	0.103		26.8		
Body-worn/Hotspot	NR Band n77	100	I	0045M	1:1	0.17	3930.00	662000	CW/SRS	19.0	18.87	Back	10	0.162	1.030	0.167	0.167	0.104		26.7		
Hotspot	NR Band n77	100	I	0045M	1:1	0.08	3930.00	662000	CW/SRS	19.0	18.87	Front	10	0.113	1.030	0.158	0.158	0.099		27.0	26.7	18.0
Hotspot	NR Band n77	100	I	0045M	1:1	-0.03	3930.00	662000	CW/SRS	19.0	18.87	Left	10	0.104	1.030	0.107	0.107	0.067		28.6		
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population														Body 1.6 W/kg (mW/g) averaged over 1 gram								

Table 12-116

Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	P10t #	P10t [dBm]	Overall P10t [dBm]	EF5 P10t [dBm]
Body-worn/Hotspot	NR Band n77 DoD	100	D	0045M	1:1	-0.02	3500.01	633334	CW/SRS	14.0	13.65	Back	10	0.079	1.084	0.086	0.086	0.054		24.6		
Body-worn/Hotspot	NR Band n77	100	D	0045M	1:1	0.00	3930.00	662000	CW/SRS	14.0	13.40	Back	10	0.115	1.148	0.132	0.132	0.083		22.7		
Hotspot	NR Band n77	100	D	0045M	1:1	0.01	3930.00	662000	CW/SRS	14.0	13.40	Front	10	0.004	1.148	0.005	0.005	0.003		37.3	22.7	13.0
Hotspot	NR Band n77	100	D	0045M	1:1	-0.18	3930.00	662000	CW/SRS	14.0	13.40	Bottom	10	0.031	1.148	0.036	0.036	0.023		28.4		
Hotspot	NR Band n77	100	D	0045M	1:1	0.09	3930.00	662000	CW/SRS	14.0	13.40	Left	10	0.000	1.148	0.000	0.000	0.000		53.4		
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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12.29 2.4 GHz WIFI SISO Standalone SAR

Table 12-117

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]
Head	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	H	0205M	98.74	0.00	2412.00	1	1	17.0	16.98	Right Cheek	0	0.763	1.028	1.013	0.784	0.784	0.490	A51	18.0	18.0	16.0
Head	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	H	0205M	98.74	-0.01	2412.00	1	1	17.0	16.98	Right Tilt	0	0.333	1.028	1.013	0.347	0.347	0.217		21.6	18.0	16.0
Head	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	H	0205M	98.74	0.04	2412.00	1	1	17.0	16.98	Left Cheek	0	0.153	1.028	1.013	0.159	0.159	0.099		24.9	18.0	16.0
Head	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	H	0205M	98.74	0.00	2412.00	1	1	17.0	16.98	Left Tilt	0	0.088	1.028	1.013	0.092	0.092	0.058		27.3	18.0	16.0
ANSI/IEEE C63.1 D982 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population													Head 1.6 W/kg (mW/g) averaged over 1 gram											

Table 12-118

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]
Head	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	J	0205M	97.51	0.02	2412.00	1	1	17.0	18.82	Right Cheek	0	0.165	1.043	1.026	0.177	0.177	0.111		24.5	20.6	16.0
Head	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	J	0205M	97.51	-0.11	2412.00	1	1	17.0	18.82	Right Tilt	0	0.013	1.043	1.026	0.025	0.025	0.018		31.0	20.6	16.0
Head	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	J	0205M	97.51	0.05	2412.00	1	1	17.0	18.82	Left Cheek	0	0.403	1.043	1.026	0.431	0.431	0.269		20.6	20.6	16.0
Head	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	J	0205M	97.51	0.06	2412.00	1	1	17.0	18.82	Left Tilt	0	0.037	1.043	1.026	0.040	0.040	0.025		11.0	20.6	16.0
ANSI/IEEE C63.1 D982 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population													Head 1.6 W/kg (mW/g) averaged over 1 gram											

Table 12-119

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]
Body worn/Hotspot	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	H	0205M	98.74	0.01	2462.00	11	1	20.0	19.97	Back	10	0.386	1.007	1.013	0.394	0.394	0.246	A52	24.0	20.9	19.5
Hotspot	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	H	0205M	98.74	-0.03	2462.00	11	1	20.0	19.97	Front	10	0.266	1.007	1.013	0.271	0.271	0.169		25.6	20.9	19.5
Hotspot	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	H	0205M	98.74	0.02	2462.00	11	1	20.0	19.97	Top	10	0.255	1.007	1.013	0.260	0.260	0.163		25.8	20.9	19.5
Hotspot	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	H	0205M	98.74	0.00	2462.00	11	1	20.0	19.97	Left	10	0.779	1.007	1.013	0.796	0.795	0.487	A53	20.9	20.9	19.5
ANSI/IEEE C63.1 D982 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population													Body 1.6 W/kg (mW/g) averaged over 1 gram											

Table 12-120

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]
Body worn/Hotspot	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	J	0205M	97.51	-0.04	2412.00	1	1	20.0	19.55	Back	10	0.062	1.109	1.026	0.071	0.245	0.153		31.5	31.0	25.4
Hotspot	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	J	0205M	97.51	0.10	2412.00	1	1	20.0	19.55	Front	10	0.069	1.109	1.026	0.079	0.272	0.170		31.0	31.0	25.4
Hotspot	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	J	0205M	97.51	0.09	2412.00	1	1	20.0	19.55	Top	10	0.002	1.109	1.026	0.002	0.008	0.005		46.4	31.0	25.4
Hotspot	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	J	0205M	97.51	0.01	2412.00	1	1	20.0	19.55	Right	10	0.024	1.109	1.026	0.027	0.095	0.059		35.6	31.0	25.4
ANSI/IEEE C63.1 D982 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population													Body 1.6 W/kg (mW/g) averaged over 1 gram											

12.30 2.4 GHz WIFI MIMO Standalone SAR

Table 12-121

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Max Allowed Power (2nd ant) [dBm]	Conducted Power (2nd ant) [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]
Head	2.4 GHz WIFI / IEEE 802.11g	20	OFDM	MIMO	0205M	97.64	0.00	2412.00	1	6	18.0	16.47	17.0	16.26	Right Cheek	0	0.517	1.024	1.024	0.635	0.635	0.397		18.9		16.0
Head	2.4 GHz WIFI / IEEE 802.11g	20	OFDM	MIMO	0205M	97.64	-0.04	2412.00	1	6	18.0	16.47	17.0	16.26	Right Tilt	0	0.295	1.024	1.024	0.362	0.362	0.225		21.4		16.0
Head	2.4 GHz WIFI / IEEE 802.11g	20	OFDM	MIMO	0205M	97.64	0.00	2412.00	1	6	18.0	16.47	17.0	16.26	Left Cheek	0	0.056	1.024	1.024	0.147	0.147	0.117		26.1		16.0
Head	2.4 GHz WIFI / IEEE 802.11g	20	OFDM	MIMO	0205M	97.64	0.08	2412.00	1	6	18.0	16.47	17.0	16.26	Left Tilt	0	0.105	1.024	1.024	0.134	0.134	0.084		25.7		16.0
ANSI/IEEE C63.1 D982 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population														Head 1.6 W/kg (mW/g) averaged over 1 gram												

Note: To achieve the 20 dbm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 17 dbm.

Table 12-122

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Max Allowed Power (2nd ant) [dBm]	Conducted Power (2nd ant) [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]
Body worn/Hotspot	2.4 GHz WIFI / IEEE 802.11g	20	OFDM	MIMO	0205M	97.64	-0.02	2412.00	1	6	18.0	17.96	18.0	17.77	Back	10	0.254	1.054	1.024	0.274	0.378	0.298		23.6	21.3	19.4
Hotspot	2.4 GHz WIFI / IEEE 802.11g	20	OFDM	MIMO	0205M	97.64	0.04	2412.00	1	6	18.0	17.96	18.0	17.77	Front	10	0.199	1.054	1.024	0.215	0.296	0.185		24.6	21.3	19.4
Hotspot	2.4 GHz WIFI / IEEE 802.11g	20	OFDM	MIMO	0205M	97.64	0.00	2412.00	1	6	18.0	17.96	18.0	17.77	Top	10	0.196	1.054	1.024	0.147	0.203	0.127		26.1	21.3	19.4
Hotspot	2.4 GHz WIFI / IEEE 802.11g	20	OFDM	MIMO	0205M	97.64	0.12	2412.00	1	6	18.0	17.96	18.0	17.77	Right	10	0.013	1.054	1.024	0.014	0.019	0.012		36.3	21.3	19.4
Hotspot	2.4 GHz WIFI / IEEE 802.11g	20	OFDM	MIMO	0205M	97.64	0.01	2412.00	1	6	18.0	17.96	18.0	17.77	Left	10	0.433	1.054	1.024	0.467	0.645	0.403		21.1	21.3	19.4
ANSI/IEEE C63.1 D982 - SAFETY LIMIT														Body												
Spatial Peak														1.6 W/kg (mW/g)												
Uncontrolled Exposure/General Population														averaged over 1 gram												

Note: To achieve the 21 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 18 dBm.

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12.31 5 GHz WIFI SISO Standalone SAR

Table 12-123

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NI-Band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Pict #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]
Head	5 GHz WiFi / IEEE 802.11ac	80	OFDM	H	0120M	91.35	-0.07	5290.00	58	U-NI-2A	29.3	16.0	15.95	Right Cheek	0	0.468	1.012	1.095	0.519	0.519	0.524			18.8	
Head	5 GHz WiFi / IEEE 802.11ac	80	OFDM	H	0120M	91.35	0.01	5610.00	122	U-NI-2C	29.3	16.0	16.00	Right Cheek	0	0.729	1.000	1.095	0.798	0.798	0.499			16.9	
Head	5 GHz WiFi / IEEE 802.11ac	80	OFDM	H	0120M	91.35	-0.12	5775.00	155	U-NI-3	29.3	16.0	15.96	Right Cheek	0	0.663	1.089	1.095	0.513	0.513	0.521			18.8	
Head	5 GHz WiFi / IEEE 802.11ac	80	OFDM	H	0120M	91.35	0.03	5855.00	171	U-NI-4	29.3	16.0	15.89	Right Cheek	0	0.900	1.025	1.095	0.561	0.561	0.551			18.5	
Head	5 GHz WiFi / IEEE 802.11ac	80	OFDM	H	0120M	91.35	0.03	5290.00	58	U-NI-2A	29.3	16.0	15.95	Right Tilt	0	0.212	1.052	1.095	0.235	0.235	0.147			22.2	
Head	5 GHz WiFi / IEEE 802.11ac	80	OFDM	H	0120M	91.35	-0.21	5610.00	122	U-NI-2C	29.3	16.0	16.00	Right Tilt	0	0.267	1.000	1.095	0.292	0.292	0.183			21.3	
Head	5 GHz WiFi / IEEE 802.11ac	80	OFDM	H	0120M	91.35	-0.20	5775.00	155	U-NI-3	29.3	16.0	15.96	Right Tilt	0	0.183	1.089	1.095	0.217	0.217	0.139			22.6	
Head	5 GHz WiFi / IEEE 802.11ac	80	OFDM	H	0120M	91.35	0.08	5855.00	171	U-NI-4	29.3	16.0	15.89	Right Tilt	0	0.243	1.025	1.095	0.273	0.273	0.171			21.6	
Head	5 GHz WiFi / IEEE 802.11ac	80	OFDM	H	0120M	91.35	-0.02	5290.00	58	U-NI-2A	29.3	16.0	15.95	Left Cheek	0	0.163	1.012	1.095	0.181	0.181	0.113			23.4	16.9
Head	5 GHz WiFi / IEEE 802.11ac	80	OFDM	H	0120M	91.35	0.13	5610.00	122	U-NI-2C	29.3	16.0	16.00	Left Cheek	0	0.109	1.000	1.095	0.119	0.119	0.074			25.2	
Head	5 GHz WiFi / IEEE 802.11ac	80	OFDM	H	0120M	91.35	0.04	5775.00	155	U-NI-3	29.3	16.0	15.96	Left Cheek	0	0.053	1.083	1.095	0.063	0.063	0.039			28.0	
Head	5 GHz WiFi / IEEE 802.11ac	80	OFDM	H	0120M	91.35	0.02	5855.00	171	U-NI-4	29.3	16.0	15.89	Left Cheek	0	0.058	1.025	1.095	0.065	0.065	0.041			27.8	
Head	5 GHz WiFi / IEEE 802.11ac	80	OFDM	H	0120M	91.35	0.02	5290.00	58	U-NI-2A	29.3	16.0	15.95	Left Tilt	0	0.078	1.012	1.095	0.086	0.086	0.054			26.6	
Head	5 GHz WiFi / IEEE 802.11ac	80	OFDM	H	0120M	91.35	-0.06	5610.00	122	U-NI-2C	29.3	16.0	16.00	Left Tilt	0	0.096	1.000	1.095	0.105	0.105	0.066			25.7	
Head	5 GHz WiFi / IEEE 802.11ac	80	OFDM	H	0120M	91.35	0.18	5775.00	155	U-NI-3	29.3	16.0	15.96	Left Tilt	0	0.059	1.089	1.095	0.070	0.070	0.044			27.5	
Head	5 GHz WiFi / IEEE 802.11ac	80	OFDM	H	0120M	91.35	0.05	5855.00	171	U-NI-4	29.3	16.0	15.89	Left Tilt	0	0.071	1.025	1.095	0.080	0.080	0.050			26.9	
ANSI/IEEE C63.1.1992 - SAFETY LIMIT																Spatial Peak			Head 1.6 W/kg (mW/g) averaged over 1 gram						
Uncontrolled Exposure/General Population																									

Table 12-124

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NI-Band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Pict #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]
Head	5 GHz WIFI / IEEE 802.11ac	80	OFDM	E	0120M	96.96	0.03	5290.00	58	U-NI-2A	29.3	16.0	15.60	Right Cheek	0	0.406	1.097	1.031	0.459	0.459	0.287			18.9	15.0
Head	5 GHz WIFI / IEEE 802.11ac	80	OFDM	E	0120M	96.96	0.08	5690.00	138	U-NI-2C	29.3	16.0	15.96	Right Cheek	0	0.302	1.009	1.031	0.306	0.306	0.086			25.7	
Head	5 GHz WIFI / IEEE 802.11ac	80	OFDM	E	0120M	96.96	0.09	5775.00	155	U-NI-3	29.3	16.0	15.89	Right Cheek	0	0.165	1.074	1.031	0.183	0.183	0.114			23.3	
Head	5 GHz WIFI / IEEE 802.11ac	80	OFDM	E	0120M	96.96	0.04	5855.00	171	U-NI-4	29.3	16.0	15.87	Right Cheek	0	0.227	1.007	1.031	0.225	0.225	0.141			22.6	
Head	5 GHz WIFI / IEEE 802.11ac	80	OFDM	E	0120M	96.96	0.16	5290.00	58	U-NI-2A	29.3	16.0	15.95	Right Tilt	0	0.440	1.097	1.031	0.508	0.508	0.158			18.7	
Head	5 GHz WIFI / IEEE 802.11ac	80	OFDM	E	0120M	96.96	0.16	5690.00	138	U-NI-2C	29.3	16.0	15.96	Right Tilt	0	0.139	1.009	1.031	0.145	0.145	0.091			24.3	
Head	5 GHz WIFI / IEEE 802.11ac	80	OFDM	E	0120M	96.96	0.05	5775.00	155	U-NI-3	29.3	16.0	15.89	Right Tilt	0	0.139	1.074	1.031	0.151	0.151	0.082			24.8	
Head	5 GHz WIFI / IEEE 802.11ac	80	OFDM	E	0120M	96.96	0.05	5855.00	171	U-NI-4	29.3	16.0	15.87	Right Tilt	0	0.121	1.007	1.031	0.126	0.126	0.079			25.0	
Head	5 GHz WIFI / IEEE 802.11ac	80	OFDM	E	0120M	96.96	0.02	5290.00	58	U-NI-2A	29.3	16.0	15.95	Left Cheek	0	0.431	1.097	1.031	0.487	0.487	0.304			19.1	18.9
Head	5 GHz WIFI / IEEE 802.11ac	80	OFDM	E	0120M	96.96	0.05	5690.00	138	U-NI-2C	29.3	16.0	15.96	Left Cheek	0	0.266	1.009	1.031	0.281	0.281	0.101			24.2	
Head	5 GHz WIFI / IEEE 802.11ac	80	OFDM	E	0120M	96.96	0.05	5775.00	155	U-NI-3	29.3	16.0	15.89	Left Cheek	0	0.284	1.074	1.031	0.326	0.326	0.204			20.8	
Head	5 GHz WIFI / IEEE 802.11ac	80	OFDM	E	0120M	96.96	-0.10	5855.00	171	U-NI-4	29.3	16.0	15.97	Left Cheek	0	0.132	1.007	1.031	0.145	0.145	0.126			24.3	
Head	5 GHz WIFI / IEEE 802.11ac	80	OFDM	E	0120M	96.96	0.05	5290.00	58	U-NI-2A	29.3	16.0	15.95	Left Tilt	0	0.183	1.097	1.031	0.433	0.433	0.275			19.6	
Head	5 GHz WIFI / IEEE 802.11ac	80	OFDM	E	0120M	96.96	0.12	5690.00	138	U-NI-2C	29.3	16.0	15.96	Left Tilt	0	0.281	1.009	1.031	0.292	0.292	0.183			21.6	
Head	5 GHz WIFI / IEEE 802.11ac	80	OFDM	E	0120M	96.96	0.03	5775.00	155	U-NI-3	29.3	16.0	15.89	Left Tilt	0	0.181	1.074	1.031	0.200	0.200	0.125			22.9	
Head	5 GHz WIFI / IEEE 802.11ac	80	OFDM	E	0120M	96.96	0.05	5855.00	171	U-NI-4	29.3	16.0	15.87	Left Tilt	0	0.171	1.007	1.031	0.178	0.178	0.111			23.5	
ANSI/IEEE C63.1.1992 - SAFETY LIMIT																Spatial Peak			Uncontrolled Exposure/General Population						
																Head			1.6 W/kg (mW/g) averaged over 1 gram						

Table 12-125

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NI band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Pict #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]
Body-worn	5 GHz WIFI / IEEE 802.11ac	80	OFDM	H	0120M	91.35	-0.09	5290.00	58	U-NI-2A	29.3	16.0	15.95	Back	10	0.147	1.012	1.095	0.163	0.163	0.102			23.8	15.0
Body-worn	5 GHz WIFI / IEEE 802.11ac	80	OFDM	H	0120M	91.35	0.02	5610.00	122	U-NI-2C	29.3	16.0	15.82	Back	10	0.203	1.042	1.095	0.232	0.232	0.145			22.3	
Body-worn	5 GHz WIFI / IEEE 802.11ac	80	OFDM	H	0120M	91.35	-0.14	5855.00	171	U-NI-4	29.3	16.0	15.89	Back	10	0.157	1.002	1.095	0.174	0.174	0.126			22.6	
Body-worn/Hotspot	5 GHz WIFI / IEEE 802.11ac	80	OFDM	H	0120M	91.35	0.03	5775.00	155	U-NI-3	29.3	16.0	15.89	Back	10	0.180	1.052	1.095	0.213	0.213	0.153			22.7	
Hotspot	5 GHz WIFI / IEEE 802.11ac	80	OFDM	H	0120M	91.35	0.02	5775.00	155	U-NI-3	29.3	16.0	15.86	Front	10	0.084	1.083	1.095	0.100	0.100	0.063			26.0	
Hotspot	5 GHz WIFI / IEEE 802.11ac	80	OFDM	H	0120M	91.35	0.05	5775.00	155	U-NI-3	29.3	16.0	15.86	Top	10	0.080	1.083	1.095	0.095	0.095	0.059			26.6	
Hotspot	5 GHz WIFI / IEEE 802.11ac	80	OFDM	H	0120M	91.35	-0.19	5775.00	155	U-NI-3	29.3	16.0	15.86	Left	10	0.339	1.083	1.095	0.402	0.402	0.251	AB6		19.9	
ANSI/IEEE C63.1.1992 - SAFETY LIMIT																Body									
Uncontrolled Exposure/General Population																Special-Population									
																Uncontrolled Exposure/General Population									
																Body 1.6 W/kg (mW/g) averaged over 1 gram									

Table 12-126

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NI-Band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Pict #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]
Body-worn	5 GHz WIFI / IEEE 802.11ac	80	OFDM	E	0120M	96.96	0.01	5290.00	58	U-NI-2A	29.3	16.0	15.95	Back	10	0.150	1.097	1.031	0.170	0.170	0.106			23.7	15.0
Body-worn	5 GHz WIFI / IEEE 802.11ac	80	OFDM	E	0120M	96.96	0.02	5690.00	138	U-NI-2C	29.3	16.0	15.96	Back	10	0.264	1.009	1.031	0.275	0.275	0.172			21.6	



Table 12-128

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Dfth [dB]	Frequency [MHz]	Channel #	U-NI band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio [1g SAR]	Plot #	Plot [dBm]	Overall Plot [dBm]	ETS Plot [dBm]
Phablet	5 GHz WiFi / IEEE 802.11ac	80	OFDM	E	0120M	96.96	-0.04	5290.00	58	U-NI-2A	29.3	16.0	15.40	Back	0	0.238	1.097	1.031	0.247	0.247	0.062		26.0		
Phablet	5 GHz WiFi / IEEE 802.11ac	80	OFDM	E	0120M	96.96	-0.04	5690.00	138	U-NI-2C	29.3	16.0	15.96	Back	0	0.308	1.009	1.031	0.320	0.320	0.080		24.9		
Phablet	5 GHz WiFi / IEEE 802.11ac	80	OFDM	E	0120M	96.96	-0.05	5855.00	171	U-NI-4	29.3	16.0	15.97	Back	0	0.309	1.007	1.031	0.303	0.303	0.096		24.1		
Phablet	5 GHz WiFi / IEEE 802.11ac	80	OFDM	E	0120M	96.96	0.00	5290.00	58	U-NI-2A	29.3	16.0	15.40	Front	0	0.304	1.097	1.031	0.231	0.231	0.058		26.3		
Phablet	5 GHz WiFi / IEEE 802.11ac	80	OFDM	E	0120M	96.96	0.01	5690.00	138	U-NI-2C	29.3	16.0	15.96	Front	0	0.240	1.009	1.031	0.250	0.250	0.063		26.0		
Phablet	5 GHz WiFi / IEEE 802.11ac	80	OFDM	E	0120M	96.96	0.19	5855.00	171	U-NI-4	29.3	16.0	15.97	Front	0	0.295	1.007	1.031	0.237	0.237	0.054		26.6		
Phablet	5 GHz WiFi / IEEE 802.11ac	80	OFDM	E	0120M	96.96	0.06	5290.00	58	U-NI-2A	29.3	16.0	15.40	Top	0	0.187	1.097	1.031	0.206	0.206	0.052		26.8		
Phablet	5 GHz WiFi / IEEE 802.11ac	80	OFDM	E	0120M	96.96	0.02	5690.00	138	U-NI-2C	29.3	16.0	15.96	Top	0	0.206	1.009	1.031	0.214	0.214	0.054		26.2		
Phablet	5 GHz WiFi / IEEE 802.11ac	80	OFDM	E	0120M	96.96	0.04	5855.00	171	U-NI-4	29.3	16.0	15.97	Top	0	0.226	1.007	1.031	0.235	0.235	0.059		26.7		
Phablet	5 GHz WiFi / IEEE 802.11ac	80	OFDM	E	0120M	96.96	0.00	5290.00	58	U-NI-2A	29.3	16.0	15.40	Right	0	0.083	1.097	1.031	0.094	0.094	0.024		30.2		
Phablet	5 GHz WiFi / IEEE 802.11ac	80	OFDM	E	0120M	96.96	0.04	5690.00	138	U-NI-2C	29.3	16.0	15.96	Right	0	0.189	1.009	1.031	0.197	0.197	0.049		27.0		
Phablet	5 GHz WiFi / IEEE 802.11ac	80	OFDM	E	0120M	96.96	0.04	5855.00	171	U-NI-4	29.3	16.0	15.97	Right	0	0.147	1.007	1.031	0.153	0.153	0.038		28.1		
ANSI/IEEE C63.19-2 - SAFETY LIMIT																Phablet									
Uncontrolled Exposure/General Population																Spatial Peak									
																4.0 W/kg (mW/g)									
																averaged over 10 grams									

12.32 5 GHz WIFI MIMO Standalone SAR

Table 12-129

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Dfth [dB]	Frequency [MHz]	Channel #	U-NI band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Max Allowed Power (2nd ant) [dBm]	Conducted Power (2nd ant) [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (g SAR)	Plot #	Plot [dBm]	Overall Plot [dBm]	ETS Plot [dBm]
Head	5 GHz WiFi / IEEE 802.11ac	80	OFDM	MIMO	0120M	92.29	-0.13	5290.00	58	U-NI-2A	58.5	16.0	15.98	16.0	15.45	Right Cheek	0	0.148	1.136	1.084	0.676	0.676	0.433		17.7		
Head	5 GHz WiFi / IEEE 802.11ac	80	OFDM	MIMO	0120M	92.29	-0.03	5610.00	122	U-NI-2C	58.5	16.0	15.99	16.0	15.99	Right Cheek	0	0.134	1.002	1.084	0.797	0.797	0.498	204	16.9		
Head	5 GHz WiFi / IEEE 802.11ac	80	OFDM	MIMO	0120M	92.29	0.21	5775.00	155	U-NI-3	58.5	16.0	15.29	16.0	15.61	Right Cheek	0	0.186	1.003	1.084	0.594	0.594	0.371		18.2		
Head	5 GHz WiFi / IEEE 802.11ac	80	OFDM	MIMO	0120M	92.29	-0.20	5855.00	171	U-NI-4	58.5	16.0	15.39	16.0	15.87	Right Cheek	0	0.140	1.153	1.084	0.552	0.552	0.345		18.5		
Head	5 GHz WiFi / IEEE 802.11ac	80	OFDM	MIMO	0120M	92.29	-0.06	5610.00	122	U-NI-2C	58.5	16.0	15.99	16.0	15.99	Right Tib	0	0.142	1.002	1.084	0.620	0.620	0.381		18.7		
Head	5 GHz WiFi / IEEE 802.11ac	80	OFDM	MIMO	0120M	92.29	-0.18	5775.00	155	U-NI-3	58.5	16.0	15.29	16.0	15.61	Right Tib	0	0.187	1.202	1.084	0.244	0.244	0.153		22.1		
Head	5 GHz WiFi / IEEE 802.11ac	80	OFDM	MIMO	0120M	92.29	0.05	5855.00	171	U-NI-4	58.5	16.0	15.39	16.0	15.87	Right Tib	0	0.195	1.153	1.084	0.239	0.239	0.149		22.2		
Head	5 GHz WiFi / IEEE 802.11ac	80	OFDM	MIMO	0120M	92.29	-0.09	5290.00	58	U-NI-2A	58.5	16.0	15.98	16.0	15.45	Left Cheek	0	0.147	1.136	1.084	0.550	0.550	0.344		18.5		
Head	5 GHz WiFi / IEEE 802.11ac	80	OFDM	MIMO	0120M	92.29	-0.03	5610.00	122	U-NI-2C	58.5	16.0	15.99	16.0	15.99	Left Cheek	0	0.140	1.002	1.084	0.400	0.400	0.252		19.9		
Head	5 GHz WiFi / IEEE 802.11ac	80	OFDM	MIMO	0120M	92.29	0.05	5775.00	155	U-NI-3	58.5	16.0	15.29	16.0	15.61	Left Cheek	0	0.188	1.202	1.084	0.243	0.243	0.154		20.6		
Head	5 GHz WiFi / IEEE 802.11ac	80	OFDM	MIMO	0120M	92.29	-0.06	5855.00	171	U-NI-4	58.5	16.0	15.39	16.0	15.87	Left Cheek	0	0.177	1.153	1.084	0.221	0.221	0.138		22.5		
Head	5 GHz WiFi / IEEE 802.11ac	80	OFDM	MIMO	0120M	92.29	0.19	5290.00	58	U-NI-2A	58.5	16.0	15.98	16.0	15.45	Left Tib	0	0.140	1.136	1.084	0.493	0.493	0.308		19.0		
Head	5 GHz WiFi / IEEE 802.11ac	80	OFDM	MIMO	0120M	92.29	-0.13	5610.00	122	U-NI-2C	58.5	16.0	15.99	16.0	15.99	Left Tib	0	0.167	1.002	1.084	0.399	0.399	0.249		19.9		
Head	5 GHz WiFi / IEEE 802.11ac	80	OFDM	MIMO	0120M	92.29	0.06	5775.00	155	U-NI-3	58.5	16.0	15.29	16.0	15.61	Left Tib	0	0.211	1.202	1.084	0.212	0.212	0.137		22.7		
Head	5 GHz WiFi / IEEE 802.11ac	80	OFDM	MIMO	0120M	92.29	-0.05	5855.00	171	U-NI-4	58.5	16.0	15.39	16.0	15.87	Left Tib	0	0.188	1.153	1.084	0.166	0.166	0.106		23.7		
ANSI/IEEE C63.19-2 - SAFETY LIMIT																		Head									
Spatial Peak																		1.6 W/kg (mW/g)									
Uncontrolled Exposure/General Population																		averaged over 1 gram									

Notes: To achieve this 19.9dB maximum allowed (MADO) power shown in the data description, each antenna (except a) is electrically isolated from all other

Note: To achieve the 19 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 16 dBm.

Table 12-130

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Dfth [dB]	Frequency [MHz]	Channel #	U-NI band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Max Allowed Power (2nd ant) [dBm]	Conducted Power (2nd ant) [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (g SAR)	Plot #	Plot [dBm]	Overall Plot [dBm]	ETS Plot [dBm]
Body-worn	5 GHz WiFi / IEEE 802.11ac	80	OFDM	MIMO	0120M	92.29	-0.03	5290.00	58	U-NI-2A	58.5	16.0	15.98	16.0	15.45	Back	10	0.165	1.130	1.084	0.158	0.158	0.134		23.0		
Body-worn	5 GHz WiFi / IEEE 802.11ac	80	OFDM	MIMO	0120M	92.29	-0.05	5610.00	122	U-NI-2C	58.5	16.0	15.99	16.0	15.99	Back	10	0.130	1.002	1.084	0.402	0.402	0.251		19.9		
Body-worn	5 GHz WiFi / IEEE 802.11ac	80	OFDM	MIMO	0120M	92.29	0.05	5855.00	171	U-NI-4	58.5	16.0	15.39	16.0	15.87	Back	10	0.107	1.153	1.084	0.496	0.496	0.310	485	19.0		
Body-worn/Hotspot	5 GHz WiFi / IEEE 802.11ac	80	OFDM	MIMO	0120M	92.29	-0.06	5775.00	155	U-NI-3	58.5	16.0	15.29	16.0	15.61	Back	10	0.115	1.202	1.084	0.410	0.410	0.256		19.8		
Hotspot	5 GHz WiFi / IEEE 802.11ac	80	OFDM	MIMO	0120M	92.29	-0.03	5775.00	155	U-NI-3	58.5	16.0	15.29	16.0	15.61	Front	10	0.171	1.202	1.084	0.091	0.091	0.058		26.8		
Hotspot	5 GHz WiFi / IEEE 802.11ac	80	OFDM	MIMO	0120M	92.29	0.05	5775.00	155	U-NI-3	58.5	16.0	15.29	16.0	15.61	Right	10	0.188	1.202	1.084	0.132	0.132	0.083		24.8		
Hotspot	5 GHz WiFi / IEEE 802.11ac	80	OFDM	MIMO	0120M	92.29	0.17	5775.00	155	U-NI-3	58.5	16.0	15.29	16.0	15.61	Left	10	0.205	1.202	1.084	0.384	0.384	0.240		20.1		
ANSI/IEEE C63.19-2 - SAFETY LIMIT																		Body									
Spatial Peak																		1.6 W/kg (mW/g)									
Uncontrolled Exposure/General Population																		averaged over 1 gram									

Note: To achieve the 19 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 16 dBm.

Table 12-131

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Dfth [dB]	Frequency [MHz]	Channel #	U-NI band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Max Allowed Power (2nd ant) [dBm]	Conducted Power (2nd ant) [dBm]	Test Position	Spacing [mm]	Measured 15g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling factor	Reported 15g SAR [W/kg]	Adjusted 15g SAR [W/kg]	Exposure Ratio [g SAR]	Plot #	Plot [dBm]	Overall Plot [dBm]	ETS Plot [dBm]
Phablet	5 GHz WiFi / IEEE 802.11ac	80	OFDM	MIMO	0120M	92.29	-0.04	5290.00	58	U-NI-2A	58.5	16.0	15.98	16.0	15.45	Back	0	0.504	1.130	1.084	0.621	0.621	0.155		22.0		
Phablet	5 GHz WiFi / IEEE 802.11ac	80	OFDM	MIMO	0120M	92.29	-0.01	5610.00	122	U-NI-2C	58.5	16.0	15.99	16.0	15.99	Back	0	0.682	1.002	1.084	0.941	0.941	0.237		21.0		
Phablet	5 GHz WiFi / IEEE 802.11ac	80	OFDM	MIMO	0120M	92.29	-0.02	5855.00	171	U-NI-4A	58.5	16.0	15.98	16.0	15.97	Back	0	0.640	1.143	1.084	0.525	0.525	0.134		23.0		
Phablet	5 GHz WiFi / IEEE 802.11ac	80	OFDM	MIMO	0120M	92.29	-0.01	5610.00	58	U-NI-2A	58.5	16.0	15.98	16.0	15.45	Front	0	0.504	1.130	1.084	0.621	0.621	0.155		22.0		
Phablet	5 GHz WiFi / IEEE 802.11ac	80	OFDM	MIMO	0120M	92.29	-0.07	5610.00	122	U-NI-2C	58.5	16.0	15.99	16.0	15.99	Front	0	0.680	1.002	1.084	0.740	0.740	0.186		21.0		
Phablet	5 GHz WiFi / IEEE 802.11ac	80	OFDM	MIMO	0120M	92.29	-0.02	5855.00	171	U-NI-4A	58.5	16.0	15.98	16.0	15.97	Front	0	0.352	1.153	1.084	0.490	0.490	0.120		23.0		
Phablet	5 GHz WiFi / IEEE 802.11ac	80	OFDM	MIMO	0120M	92.29	-0.01	5610.00	58	U-NI-2A	58.5	16.0	15.98	16.0	15.45	Front	0	0.504	1.130	1.084	0.621	0.621	0.155		22.0		
Phablet	5 GHz WiFi / IEEE 802.11ac	80	OFDM	MIMO	0120M	92.29	-0.01	5610.00	122	U-NI-2C	58.5	16.0	15.99	16.0	15.99	Top	0	0.688	1.002	1.084	0.921	0.921	0.235		21.0	17.3	15.0
Phablet	5 GHz WiFi / IEEE 802.11ac	80	OFDM	MIMO	0120M	92.29	-0.13	5855.00	171	U-NI-4A	58.5	16.0	15.98	16.0	15.97	Top	0	0.244	1.153	1.084	0.267	0.267	0.067		25.0		
Phablet	5 GHz WiFi / IEEE 802.11ac	80	OFDM	MIMO	0120M	92.29	-0.09	5290.00	58	U-NI-2A	58.5	16.0	15.98	16.0	15.45	Top	0	0.504	1.130	1.084	0.621	0.621	0.155		22.0		
Phablet	5 GHz WiFi / IEEE 802.11ac	80	OFDM	MIMO	0120M	92.29	-0.09	5610.00	122	U-NI-2C	58.5	16.0	15.99	16.0	15.99	Right	0	0.616	1.002	1.084	0.805	0.805	0.201		27.0		
Phablet	5 GHz WiFi / IEEE 802.11ac	80	OFDM	MIMO	0120M	92.29	-0.14	5855.00	171	U-NI-4A	58.5	16.0	15.98	16.0	15.97	Right	0	0.148	1.153	1.084	0.173	0.173	0.045		27.0		
Phablet	5 GHz WiFi / IEEE 802.11ac	80	OFDM	MIMO	0120M	92.29	-0.02	5290.00	58	U-NI-2A	58.5	16.0	15.98	16.0	15.45	Right	0	0.504	1.130	1.084	0.621	0.621	0.155		22.0		
Phablet	5 GHz WiFi / IEEE 802.11ac	80	OFDM	MIMO	0120M	92.29	-0.03	5610.00	122	U-NI-2C	58.5	16.0	15.99	16.0	15.99	Left	0	0.680	1.002	1.084	0.886	0.886	0.459	A07	27.0		
Phablet	5 GHz WiFi / IEEE 802.11ac	80	OFDM	MIMO	0120M	92.29	-0.08	5610.00	171	U-NI-4A	58.5	16.0	15.98	16.0	15.97	Left	0	1.400	1.153	1.084	0.750	0.750	0.438		17.0		
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																					Phablet						
Spatial Peak																					4.0 W/kg (mW/g)						
Uncontrolled Exposure (General Population)																					averaged 10g W/kg						



12.33 6 GHz WIFI SISO Standalone SAR and APD

Table 12-132

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Head	6 GHz WiFi/ IEEE 802.11ax	40	OFDM	H	0208M	99.67	-0.09	5965.00	3	32.5	17.0	16.99	Right Cheek	0	0.511	1.002	1.003	0.514	0.709	0.443		19.8		18.4
Head	6 GHz WiFi/ IEEE 802.11ax	40	OFDM	H	0208M	99.67	0.02	6285.00	67	32.5	17.0	16.54	Right Cheek	0	0.509	1.112	1.003	0.623	0.861	0.538		19.0		
Head	6 GHz WiFi/ IEEE 802.11ax	80	OFDM	H	0208M	99.67	-0.13	6465.00	303	68.1	16.0	15.89	Right Cheek	0	0.505	1.026	1.003	0.571	0.992	0.620		18.4		
Head	6 GHz WiFi/ IEEE 802.11ax	40	OFDM	H	0208M	99.67	-0.13	6465.00	147	32.5	17.0	16.93	Right Cheek	0	0.513	1.019	1.003	0.564	0.778	0.486		19.4		
Head	6 GHz WiFi/ IEEE 802.11ax	80	OFDM	H	0208M	99.67	0.02	7025.00	215	68.1	15.5	15.34	Right Cheek	0	0.123	1.062	1.003	0.131	0.205	0.159		24.3		
Head	6 GHz WiFi/ IEEE 802.11ax	40	OFDM	H	0079M	99.67	0.10	5965.00	3	32.5	17.0	16.99	Right Tilt	0	0.357	1.002	1.003	0.359	0.496	0.310		21.4		
Head	6 GHz WiFi/ IEEE 802.11ax	40	OFDM	H	0079M	99.67	0.17	5965.00	3	32.5	17.0	16.99	Left Cheek	0	0.196	1.002	1.003	0.197	0.272	0.170		24.0		
Head	6 GHz WiFi/ IEEE 802.11ax	40	OFDM	H	0079M	99.67	0.07	5965.00	3	32.5	17.0	16.99	Left Tilt	0	0.102	1.002	1.003	0.199	0.267	0.167		24.1		
ANSI/IEEE C63.1 1982 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population													Head 1.6 W/kg (mW/g) averaged over 1 gram											
Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured APD [W/m² (4cm²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APD [W/m² (4cm²)]	Adjusted APD [W/m² (4cm²)]	APD Exposure Ratio	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Head	6 GHz WiFi/ IEEE 802.11ax	40	OFDM	H	0208M	99.67	-0.09	5965.00	3	32.5	17.0	16.99	Right Cheek	0	3.320	1.002	1.003	3.337	4.409	0.730		23.8		18.4
Head	6 GHz WiFi/ IEEE 802.11ax	40	OFDM	H	0208M	99.67	0.02	6285.00	67	32.5	17.0	16.54	Right Cheek	0	3.690	1.112	1.003	4.116	5.081	0.284		22.9		
Head	6 GHz WiFi/ IEEE 802.11ax	80	OFDM	H	0208M	99.67	-0.13	6465.00	303	68.1	16.0	15.89	Right Cheek	0	3.700	1.026	1.003	3.808	6.613	0.331		22.2		
Head	6 GHz WiFi/ IEEE 802.11ax	40	OFDM	H	0208M	99.67	-0.13	6465.00	147	32.5	17.0	16.93	Right Cheek	0	3.000	1.019	1.003	3.127	4.315	0.216		24.1		
Head	6 GHz WiFi/ IEEE 802.11ax	80	OFDM	H	0208M	99.67	0.02	7025.00	215	68.1	15.5	15.34	Right Cheek	0	0.614	1.062	1.003	0.654	1.275	0.064		29.4		
Head	6 GHz WiFi/ IEEE 802.11ax	40	OFDM	H	0079M	99.67	0.10	5965.00	3	32.5	17.0	16.99	Right Tilt	0	2.320	1.002	1.003	2.332	3.221	0.161		25.4		
Head	6 GHz WiFi/ IEEE 802.11ax	40	OFDM	H	0079M	99.67	0.17	5965.00	3	32.5	17.0	16.99	Left Cheek	0	1.470	1.002	1.003	1.477	2.041	0.102		27.3		
Head	6 GHz WiFi/ IEEE 802.11ax	40	OFDM	H	0079M	99.67	0.07	5965.00	3	32.5	17.0	16.99	Left Tilt	0	1.420	1.002	1.003	1.427	1.971	0.099		27.5		

Table 12-133

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Head	6 GHz WiFi/ IEEE 802.11ax	40	OFDM	E	0079M	99.67	-0.11	5965.00	3	32.5	17.0	16.99	Right Cheek	0	0.218	1.002	1.003	0.219	0.853	0.533		23.5		22.9
Head	6 GHz WiFi/ IEEE 802.11ax	40	OFDM	E	0079M	99.67	-0.07	6285.00	67	32.5	17.0	16.98	Right Cheek	0	0.211	1.005	1.003	0.213	0.827	0.517		21.7		
Head	6 GHz WiFi/ IEEE 802.11ax	80	OFDM	E	0208M	99.67	0.05	6465.00	303	68.1	16.0	15.50	Right Cheek	0	0.091	1.122	1.003	0.102	0.502	0.354		25.8		
Head	6 GHz WiFi/ IEEE 802.11ax	40	OFDM	E	0079M	99.67	-0.01	6465.00	147	32.5	17.0	16.89	Right Cheek	0	0.249	1.026	1.003	0.256	0.996	0.623		22.9		
Head	6 GHz WiFi/ IEEE 802.11ax	80	OFDM	E	0208M	99.67	0.02	7025.00	215	68.1	15.5	15.00	Right Cheek	0	0.144	1.122	1.003	0.162	0.891	0.557		23.4		
Head	6 GHz WiFi/ IEEE 802.11ax	40	OFDM	E	0079M	99.67	0.04	5965.00	3	32.5	17.0	16.99	Right Tilt	0	0.300	1.002	1.003	0.301	0.782	0.489		23.9		
Head	6 GHz WiFi/ IEEE 802.11ax	40	OFDM	E	0208M	99.67	0.02	5965.00	3	32.5	17.0	16.99	Left Cheek	0	0.169	1.002	1.003	0.170	0.661	0.413		24.6		
Head	6 GHz WiFi/ IEEE 802.11ax	40	OFDM	E	0208M	99.67	0.19	5965.00	3	32.5	17.0	16.99	Left Tilt	0	0.141	1.002	1.003	0.142	0.551	0.344		25.4		
ANSI/IEEE C63.1 1982 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population													Head 1.6 W/kg (mW/g) averaged over 1 gram											
Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured APD [W/m² (4cm²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APD [W/m² (4cm²)]	Adjusted APD [W/m² (4cm²)]	APD Exposure Ratio	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Head	6 GHz WiFi/ IEEE 802.11ax	40	OFDM	E	0079M	99.67	-0.11	5965.00	3	32.5	17.0	16.99	Right Cheek	0	1.800	1.002	1.003	1.809	7.039	0.352		26.5		22.9
Head	6 GHz WiFi/ IEEE 802.11ax	40	OFDM	E	0079M	99.67	-0.07	6285.00	67	32.5	17.0	16.98	Right Cheek	0	1.550	1.005	1.003	1.562	6.076	0.304		27.1		
Head	6 GHz WiFi/ IEEE 802.11ax	80	OFDM	E	0208M	99.67	0.05	6465.00	303	68.1	16.0	15.50	Right Cheek	0	0.666	1.122	1.003	0.749	3.671	0.184		29.3		
Head	6 GHz WiFi/ IEEE 802.11ax	40	OFDM	E	0079M	99.67	-0.01	6465.00	147	32.5	17.0	16.89	Right Cheek	0	1.440	1.026	1.003	1.482	5.763	0.288		27.3		
Head	6 GHz WiFi/ IEEE 802.11ax	80	OFDM	E	0208M	99.67	0.02	7025.00	215	68.1	15.5	15.00	Right Cheek	0	0.982	1.122	1.003	1.105	6.073	0.304		27.1		
Head	6 GHz WiFi/ IEEE 802.11ax	40	OFDM	E	0079M	99.67	0.04	5965.00	3	32.5	17.0	16.99	Right Tilt	0	1.390	1.002	1.003	1.397	5.436	0.272		27.6		
Head	6 GHz WiFi/ IEEE 802.11ax	40	OFDM	E	0208M	99.67	0.02	5965.00	3	32.5	17.0	16.99	Left Cheek	0	1.080	1.002	1.003	1.085	4.224	0.211		28.7		
Head	6 GHz WiFi/ IEEE 802.11ax	40	OFDM	E	0208M	99.67	0.19	5965.00	3	32.5	17.0	16.99	Left Tilt	0	1.000	1.002	1.003	1.005	4.145	0.207		28.8		

Table 12-134

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Body-worn	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	H	0079M	99.67	0.04	6985.00	207	68.1	9.0	8.89	Back	10	0.004	1.026	1.003	0.004	0.004	0.003		32.8	32.8	8.0
ANSI/IEEE C63.1 1982 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population													Body 1.6 W/kg (mW/g) averaged over 1 gram											
Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured APD [W/m² (4cm²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APD [W/m² (4cm²)]	Adjusted APD [W/m² (4cm²)]	APD Exposure Ratio	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Body-worn	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	H	0079M	99.67	0.04	6985.00	207	68.1	9.0	8.89	Back	10	0.055	1.026	1.003	0.057	0.057	0.003		33.5	33.5	8.0

Table 12-135

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Body-worn	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	E	0079M	99.67	0.05	6025.00	15	68.1	9.0	8.93	Back	10	0.063	1.016	1.003	0.064	0.064	0.040	A89	20.9	20.9	8.0
ANSI/IEEE C63.1 1982 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population													Body 1.6 W/kg (mW/g) averaged over 1 gram											
Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured APD [W/m² (4cm²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APD [W/m² (4cm²)]	Adjusted APD [W/m² (4cm²)]	APD Exposure Ratio	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Body-worn	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	E	0079M	99.67	0.05	6025.00	15	68.1	9.0	8.93	Back	10	0.507	1.016	1.003	0.517	0.517	0.036	A89	22.8	22.8	8.0

FCC ID: A3LSMS938U	RF EXPOSURE PART 1 TEST REPORT																	Approved by: Technical Manager				
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Table 12-136

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 10g SAR [W/kg]	Adjusted 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #	PLimit [dBm]	Overall PLimit [dBm]	EPS PLimit [dBm]
Phablet	6 GHz WiFi / IEEE 802.11ax	160	OFDM	H	0079M	99.67	0.09	6985.00	207	68.1	9.0	8.89	Back	0	0.015	1.026	1.003	0.015	0.015	0.004		11.0		
Phablet	6 GHz WiFi / IEEE 802.11ax	160	OFDM	H	0079M	99.67	0.07	6985.00	207	68.1	9.0	8.89	Front	0	0.043	1.026	1.003	0.044	0.044	0.011		26.5		
Phablet	6 GHz WiFi / IEEE 802.11ax	160	OFDM	H	0079M	99.67	0.05	6985.00	207	68.1	9.0	8.89	Top	0	0.000	1.026	1.003	0.000	0.000	0.000		52.8		
Phablet	6 GHz WiFi / IEEE 802.11ax	160	OFDM	H	0079M	99.67	0.01	6985.00	207	68.1	9.0	8.89	Right	0	0.000	1.026	1.003	0.000	0.000	0.000		52.8		
Phablet	6 GHz WiFi / IEEE 802.11ax	160	OFDM	H	0079M	99.67	-0.17	6025.00	15	68.1	9.0	8.81	Back	0	0.851	1.026	1.003	0.869	0.868	0.002		17.3		
Phablet	6 GHz WiFi / IEEE 802.11ax	160	OFDM	H	0079M	99.67	-0.08	6345.00	79	68.1	9.0	8.73	Left	0	0.301	1.064	1.003	0.321	0.321	0.080		17.9		
Phablet	6 GHz WiFi / IEEE 802.11ax	160	OFDM	H	0079M	99.67	0.00	6505.00	111	68.1	9.0	8.88	Left	0	0.366	1.028	1.003	0.377	0.377	0.094	A90	17.2		
Phablet	6 GHz WiFi / IEEE 802.11ax	160	OFDM	H	0079M	99.67	-0.06	6625.00	175	68.1	9.0	8.83	Left	0	0.175	1.040	1.003	0.183	0.183	0.046		20.3		
Phablet	6 GHz WiFi / IEEE 802.11ax	160	OFDM	H	0079M	99.67	-0.09	6985.00	207	68.1	9.0	8.89	Left	0	0.094	1.026	1.003	0.097	0.097	0.024		23.1		
ANSI/IEEE C63.1-1992 - SAFETY LIMIT																					Phablet			
Spatial Peak																					4.0 W/kg (mW/g)			
Uncontrolled Exposure/General Population																					averaged over 10 grams			
Exposure	Band/ Mode	Bandwidth [MHz]	Service/ Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured APD [W/m² (4cm²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APD [W/m² (4cm²)]	Adjusted APD [W/m² (4cm²)]	APD Exposure Ratio	Plot #	PLimit [dBm]	Overall PLimit [dBm]	EPS PLimit [dBm]
Phablet	6 GHz WiFi / IEEE 802.11ax	160	OFDM	H	0079M	99.67	0.09	6985.00	207	68.1	9.0	8.89	Back	0	0.321	1.026	1.003	0.341	0.341	0.017		24.6		
Phablet	6 GHz WiFi / IEEE 802.11ax	160	OFDM	H	0079M	99.67	0.07	6985.00	207	68.1	9.0	8.89	Front	0	0.991	1.026	1.003	1.020	1.020	0.051		12.9		
Phablet	6 GHz WiFi / IEEE 802.11ax	160	OFDM	H	0079M	99.67	0.05	6985.00	207	68.1	9.0	8.89	Top	0	0.000	1.026	1.003	0.000	0.000	0.000		59.8		
Phablet	6 GHz WiFi / IEEE 802.11ax	160	OFDM	H	0079M	99.67	0.01	6985.00	207	68.1	9.0	8.89	Right	0	0.002	1.026	1.003	0.002	0.002	0.000		46.8		
Phablet	6 GHz WiFi / IEEE 802.11ax	160	OFDM	H	0079M	99.67	-0.17	6025.00	15	68.1	9.0	8.81	Left	0	8.400	1.064	1.003	8.626	8.625	0.441		10.5		
Phablet	6 GHz WiFi / IEEE 802.11ax	160	OFDM	H	0079M	99.67	-0.08	6345.00	79	68.1	9.0	8.73	Left	0	7.230	1.064	1.003	7.694	7.694	0.385	11.1	11.1		
Phablet	6 GHz WiFi / IEEE 802.11ax	160	OFDM	H	0079M	99.67	0.00	6505.00	111	68.1	9.0	8.88	Left	0	8.670	1.028	1.003	8.939	8.939	0.447	A90	10.4		
Phablet	6 GHz WiFi / IEEE 802.11ax	160	OFDM	H	0079M	99.67	-0.06	6625.00	175	68.1	9.0	8.83	Left	0	4.710	1.040	1.003	4.392	4.392	0.220		11.5		
Phablet	6 GHz WiFi / IEEE 802.11ax	160	OFDM	H	0079M	99.67	-0.09	6985.00	207	68.1	9.0	8.89	Left	0	2.270	1.026	1.003	2.336	2.336	0.117		16.3		

Table 12-137

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 10g SAR [W/kg]	Adjusted 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #	PLimit [dBm]	Overall PLimit [dBm]	EPS PLimit [dBm]
Phablet	6 GHz WiFi / IEEE 802.11ax	160	OFDM	E	0079M	99.67	-0.06	6025.00	15	68.1	9.0	8.93	Back	0	0.094	1.016	1.003	0.096	0.096	0.024		21.1		
Phablet	6 GHz WiFi / IEEE 802.11ax	160	OFDM	E	0079M	99.67	-0.05	6345.00	79	68.1	9.0	8.51	Back	0	0.078	1.119	1.003	0.088	0.088	0.022		23.5		
Phablet	6 GHz WiFi / IEEE 802.11ax	160	OFDM	E	0079M	99.67	-0.11	6505.00	111	68.1	9.0	8.90	Back	0	0.063	1.023	1.003	0.065	0.065	0.016		24.8		
Phablet	6 GHz WiFi / IEEE 802.11ax	160	OFDM	E	0079M	99.67	-0.13	6825.00	175	68.1	9.0	8.91	Back	0	0.048	1.021	1.003	0.049	0.049	0.012		26.0		
Phablet	6 GHz WiFi / IEEE 802.11ax	160	OFDM	E	0079M	99.67	-0.11	6985.00	207	68.1	9.0	8.68	Back	0	0.057	1.076	1.003	0.062	0.062	0.016		25.0		
Phablet	6 GHz WiFi / IEEE 802.11ax	160	OFDM	E	0079M	99.67	-0.19	6025.00	15	68.1	9.0	8.93	Front	0	0.034	1.016	1.003	0.035	0.035	0.009		27.5		
Phablet	6 GHz WiFi / IEEE 802.11ax	160	OFDM	E	0079M	99.67	-0.10	6025.00	15	68.1	9.0	8.93	Top	0	0.036	1.016	1.003	0.037	0.037	0.009		27.3		
Phablet	6 GHz WiFi / IEEE 802.11ax	160	OFDM	E	0079M	99.67	0.06	6025.00	15	68.1	9.0	8.93	Right	0	0.036	1.016	1.003	0.037	0.037	0.009		27.3		
Phablet	6 GHz WiFi / IEEE 802.11ax	160	OFDM	E	0079M	99.67	0.09	6025.00	15	68.1	9.0	8.93	Left	0	0.006	1.016	1.003	0.006	0.006	0.002		35.1		
ANSI/IEEE C63.1-1992 - SAFETY LIMIT																					Phablet			
Spatial Peak																					4.0 W/kg (mW/g)			
Uncontrolled Exposure/General Population																					averaged over 10 grams			
Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured APD [W/m² (4cm²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APD [W/m² (4cm²)]	Adjusted APD [W/m² (4cm²)]	APD Exposure Ratio	Plot #	PLimit [dBm]	Overall PLimit [dBm]	EPS PLimit [dBm]
Phablet	6 GHz WiFi / IEEE 802.11ax	160	OFDM	E	0079M	99.67	-0.06	6025.00	15	68.1	9.0	8.93	Back	0	2.190	1.016	1.003	2.232	2.232	0.112		16.5		
Phablet	6 GHz WiFi / IEEE 802.11ax	160	OFDM	E	0079M	99.67	-0.05	6345.00	79	68.1	9.0	8.51	Back	0	1.810	1.119	1.003	2.031	2.031	0.102		16.9		
Phablet	6 GHz WiFi / IEEE 802.11ax	160	OFDM	E	0079M	99.67	-0.11	6505.00	111	68.1	9.0	8.90	Back	0	0.880	1.049	1.003	0.912	0.912	0.045		17.0		
Phablet	6 GHz WiFi / IEEE 802.11ax	160	OFDM	E	0079M	99.67	-0.13	6825.00	175	68.1	9.0	8.91	Back	0	1.130	1.021	1.003	1.157	1.157	0.058		19.3		
Phablet	6 GHz WiFi / IEEE 802.11ax	160	OFDM	E	0079M	99.67	-0.11	6985.00	207	68.1	9.0	8.68	Back	0	1.140	1.076	1.003	1.446	1.446	0.072		18.4		
Phablet	6 GHz WiFi / IEEE 802.11ax	160	OFDM	E	0079M	99.67	-0.10	6025.00	15	68.1	9.0	8.93	Front	0	0.790	1.016	1.003	0.805	0.805	0.040		20.9		
Phablet	6 GHz WiFi / IEEE 802.11ax	160	OFDM	E	0079M	99.67	-0.10	6025.00	15	68.1	9.0	8.93	Top	0	0.847	1.016	1.003	0.863	0.863	0.043		20.6		
Phablet	6 GHz WiFi / IEEE 802.11ax	160	OFDM	E	0079M	99.67	0.06	6025.00	15	68.1	9.0	8.93	Right	0	0.849	1.016	1.003	0.865	0.865	0.043		20.6		
Phablet	6 GHz WiFi / IEEE 802.11ax	160	OFDM	E	0079M	99.67	0.09	6025.00	15	68.1	9.0	8.93	Left	0	0.135	1.016	1.003	0.138	0.138	0.007		26.6		

12.34 6 GHz WIFI MIMO Standalone SAR and APD

Table 12-138

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Max Allowed Power (2nd and 3rd) [dBm]	Conducted Power (2nd and 3rd) [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	PLimit [dBm]	Overall PLimit [dBm]	EPS PLimit [dBm]
Head	6 GHz WiFi / IEEE 802.11ax	40	OFDM	MIMO	0073M	99.67	-0.06	5965.00	3	32.5	17.0	16.86	17.0	16.85	Right Cheek	0	0.576	1.084	1.003	0.626	0.626	0.391		19.0		
Head	6 GHz WiFi / IEEE 802.11ax	40	OFDM	MIMO	0073M	99.67	-0.11	6285.00	67	32.5	17.0	16.59	17.0	16.56	Right Cheek	0	0.631	1.274	1.003	0.806	0.806	0.524		17.0		
Head	6 GHz WiFi / IEEE 802.11ax	80	OFDM	MIMO	0073M	99.67	0.06	6465.00	103	68.1	16.0	15.41	16.0	15.79	Right Cheek	0	0.680	1.146	1.003	0.782	0.782	0.653	A90	17.0		
Head	6 GHz WiFi / IEEE 802.11ax	40	OFDM	MIMO	0073M	99.67	0.01	6685.00	147	32.5	17.0	16.50	17.0	16.40	Right Cheek	0	0.777	1.096	1.003	0.905	0.905	0.191		22.1		
Head	6 GHz WiFi / IEEE 802.11ax	80	OFDM	MIMO	0073M	99.67	0.14	7025.00	215	68.1	15.5	14.84	15.5	15.29	Right Cheek	0	0.537	1.164	1.003	0.158	0.223	1.139		23.1		
Head	6 GHz WiFi / IEEE 802.11ax	40	OFDM	MIMO	0073M	99.67	-0.12	5965.00	3	32.5	17.0	16.86	17.0	16.85	Right Tib	0	0.438	1.084	1.003	0.454	0.454	0.284		20.4		
Head	6 GHz WiFi / IEEE 802.11ax	40	OFDM	MIMO	0073M	99.67	0.17	5965.00	3	32.5	17.0	16.86	17.0	16.85	Left Tib	0	0.243	1.084	1.003	0.261	0.261	0.163		22.8		
ANSI/IEEE C63.19-2012 SAFETY LIMIT																										
Uncontrolled Exposure/General Population																										
Note: To achieve the 20 dBm maximum allowed MIMO power shown in the documentation, each antenna transmit at a maximum allowed power of 10 dBm.																										
Spot Power																										
1.6 W/kg (mW/g)																										
averaged over 6 gsm																										
Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Max Allowed Power (2nd and 3rd) [dBm]	Conducted Power (2nd and 3rd) [dBm]	Test Position	Spacing [mm]	Measured APD (W/kg/6cc)	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APD (W/kg/6cc)	Adjusted APD (W/kg/6cc)	APD Exposure Ratio	Plot #	PLimit [dBm]	Overall PLimit [dBm]	EPS PLimit [dBm]
Head	6 GHz WiFi / IEEE 802.11ax	40	OFDM	MIMO	0073M	99.67	-0.06	5965.00	3	32.5	17.0	16.86	17.0	16.85	Right Cheek	0	0.670	1.084	1.003	3.990	3.990	0.200		23.0		
Head	6 GHz WiFi / IEEE 802.11ax	40	OFDM	MIMO	0073M	99.67	-0.11	6285.00	147	32.5	17.0	16.50	17.0	16.40	Right Tib	0	0.874	1.274	1.003	4.958	4.958	0.267		23.1		
Head	6 GHz WiFi / IEEE 802.11ax	80	OFDM	MIMO	0073M	99.67	0.04	6465.00	103	68.1	16.0	15.41	16.0	15.79	Right Cheek	0	0.460	1.146	1.003	4.655	5.858	0.293	A90	21.4		
Head	6 GHz WiFi / IEEE 802.11ax	40	OFDM	MIMO	0073M	99.67	-0.06	5965.00	3	32.5	17.0	16.86	17.0	16.85	Right Tib	0	0.680	1.084	1.003	1.935	1.935	0.267		26.1		
Head	6 GHz WiFi / IEEE 802.11ax	80	OFDM	MIMO	0073M	99.67	0.14	7025.00	215	68.1	15.5	14.84	15.5	15.29	Right Cheek	0	0.921	1.164	1.003	1.076	1.120	0.676		27.2		
Head	6 GHz WiFi / IEEE 802.11ax	40	OFDM	MIMO	0073M	99.67	-0.12	5965.00	3	32.5	17.0	16.86	17.0	16.85	Right Tib	0	1.000	1.084	1.003	1.294	1.294	0.164		26.4		
Head	6 GHz WiFi / IEEE 802.11ax	40	OFDM	MIMO	0073M	99.67	0.17	5965.00	3	32.5	17.0	16.86	17.0	16.85	Left Tib	0	1.900	1.084	1.003	1.729	1.729	0.281		26.1		
Head	6 GHz WiFi / IEEE 802.11ax	40	OFDM	MIMO	0073M	99.67	0.18	5965.00	3	32.5	17.0	16.86	17.0	16.85	Left Tib	0	1.900	1.084	1.003	1.648	1.648	0.092		26.4		
Metric: Test Power 20 dBm, 10 dBm, 16 dBm, 17 dBm, 18 dBm, 19 dBm, 20 dBm, 21 dBm, 22 dBm, 23 dBm, 24 dBm, 25 dBm, 26 dBm, 27 dBm, 28 dBm, 29 dBm, 30 dBm, 31 dBm, 32 dBm, 33 dBm, 34 dBm, 35 dBm, 36 dBm, 37 dBm, 38 dBm, 39 dBm, 40 dBm, 41 dBm, 42 dBm, 43 dBm, 44 dBm, 45 dBm, 46 dBm, 47 dBm, 48 dBm, 49 dBm, 50 dBm, 51 dBm, 52 dBm, 53 dBm, 54 dBm, 55 dBm, 56 dBm, 57 dBm, 58 dBm, 59 dBm, 60 dBm, 61 dBm, 62 dBm, 63 dBm, 64 dBm, 65 dBm, 66 dBm, 67 dBm, 68 dBm, 69 dBm, 70 dBm, 71 dBm, 72 dBm, 73 dBm, 74 dBm, 75 dBm, 76 dBm, 77 dBm, 78 dBm, 79 dBm, 80 dBm, 81 dBm, 82 dBm, 83 dBm, 84 dBm, 85 dBm, 86 dBm, 87 dBm, 88 dBm, 89 dBm, 90 dBm, 91 dBm, 92 dBm, 93 dBm, 94 dBm, 95 dBm, 96 dBm, 97 dBm, 98 dBm, 99 dBm, 100 dBm, 101 dBm, 102 dBm, 103 dBm, 104 dBm, 105 dBm, 106 dBm, 107 dBm, 108 dBm, 109 dBm, 110 dBm, 111 dBm, 112 dBm, 113 dBm, 114 dBm, 115 dBm, 116 dBm, 117 dBm, 118 dBm, 119 dBm, 120 dBm, 121 dBm, 122 dBm, 123 dBm, 124 dBm, 125 dBm, 126 dBm, 127 dBm, 128 dBm, 129 dBm, 130 dBm, 131 dBm, 132 dBm, 133 dBm, 134 dBm, 135 dBm, 136 dBm, 137 dBm, 138 dBm, 139 dBm, 140 dBm, 141 dBm, 142 dBm, 143 dBm, 144 dBm, 145 dBm, 146 dBm, 147 dBm, 148 dBm, 149 dBm, 150 dBm, 151 dBm, 152 dBm, 153 dBm, 154 dBm, 155 dBm, 156 dBm, 157 dBm, 158 dBm, 159 dBm, 160 dBm, 161 dBm, 162 dBm, 163 dBm, 164 dBm, 165 dBm, 166 dBm, 167 dBm, 168 dBm, 169 dBm, 170 dBm, 171 dBm, 172 dBm, 173 dBm, 174 dBm, 175 dBm, 176 dBm, 177 dBm, 178 dBm, 179 dBm, 180 dBm, 181 dBm, 182 dBm, 183 dBm, 184 dBm, 185 dBm, 186 dBm, 187 dBm, 188 dBm, 189 dBm, 190 dBm, 191 dBm, 192 dBm, 193 dBm, 194 dBm, 195 dBm, 196 dBm, 197 dBm, 198 dBm, 199 dBm, 200 dBm, 201 dBm, 202 dBm, 203 dBm, 204 dBm, 205 dBm, 206 dBm, 207 dBm, 208 dBm, 209 dBm, 210 dBm, 211 dBm, 212 dBm, 213 dBm, 214 dBm, 215 dBm, 216 dBm, 217 dBm, 218 dBm, 219 dBm, 220 dBm, 221 dBm, 222 dBm, 223 dBm, 224 dBm, 225 dBm, 226 dBm, 227 dBm, 228 dBm, 229 dBm, 230 dBm, 231 dBm, 232 dBm, 233 dBm, 234 dBm, 235 dBm, 236 dBm, 237 dBm, 238 dBm, 239 dBm, 240 dBm, 241 dBm, 242 dBm, 243 dBm, 244 dBm, 245 dBm, 246 dBm, 247 dBm, 248 dBm, 249 dBm, 250 dBm, 251 dBm, 252 dBm, 253 dBm, 254 dBm, 255 dBm, 256 dBm, 257 dBm, 258 dBm, 259 dBm, 260 dBm, 261 dBm, 262 dBm, 263 dBm, 264 dBm, 265 dBm, 266 dBm, 267 dBm, 268 dBm, 269 dBm, 270 dBm, 271 dBm, 272 dBm, 273 dBm, 274 dBm, 275 dBm, 276 dBm, 277 dBm, 278 dBm, 279 dBm, 280 dBm, 281 dBm, 282 dBm, 283 dBm, 284 dBm, 285 dBm, 286 dBm, 287 dBm, 288 dBm, 289 dBm, 290 dBm, 291 dBm, 292 dBm, 293 dBm, 294 dBm, 295 dBm, 296 dBm, 297 dBm, 298 dBm, 299 dBm, 300 dBm, 301 dBm, 302 dBm, 303 dBm, 304 dBm, 305 dBm, 306 dBm, 307 dBm, 308 dBm, 309 dBm, 310 dBm, 311 dBm, 312 dBm, 313 dBm, 314 dBm, 315 dBm, 316 dBm, 317 dBm, 318 dBm, 319 dBm, 320 dBm, 321 dBm, 322 dBm, 323 dBm, 324 dBm, 325 dBm, 326 dBm, 327 dBm, 328 dBm, 329 dBm, 330 dBm, 331 dBm, 332 dBm, 333 dBm, 334 dBm, 335 dBm, 336 dBm, 337 dBm, 338 dBm, 339 dBm, 340 dBm, 341 dBm, 342 dBm, 343 dBm, 344 dBm, 345 dBm, 346 dBm, 347 dBm, 348 dBm, 349 dBm, 350 dBm, 351 dBm, 352 dBm, 353 dBm, 354 dBm, 355 dBm, 356 dBm, 357 dBm, 358 dBm, 359 dBm, 360 dBm, 361 dBm, 362 dBm, 363 dBm, 364 dBm, 365 dBm, 366 dBm, 367 dBm, 368 dBm, 369 dBm, 370 dBm, 371 dBm, 372 dBm, 373 dBm, 374 dBm, 375 dBm, 376 dBm, 377 dBm, 378 dBm, 379 dBm, 380 dBm, 381 dBm, 382 dBm, 383 dBm, 384 dBm, 385 dBm, 386 dBm, 387 dBm, 388 dBm, 389 dBm, 390 dBm, 391 dBm, 392 dBm, 393 dBm, 394 dBm, 395 dBm, 396 dBm, 397 dBm, 398 dBm, 399 dBm, 400 dBm, 401 dBm, 402 dBm, 403 dBm, 404 dBm, 405 dBm, 406 dBm, 407 dBm, 408 dBm, 409 dBm, 410 dBm, 411 dBm, 412 dBm, 413 dBm, 414 dBm, 415 dBm, 416 dBm, 417 dBm, 418 dBm, 419 dBm, 420 dBm, 421 dBm, 422 dBm, 423 dBm, 424 dBm, 425 dBm, 426 dBm, 427 dBm, 428 dBm, 429 dBm, 430 dBm, 431 dBm, 432 dBm, 433 dBm, 434 dBm, 435 dBm, 436 dBm, 437 dBm, 438 dBm, 439 dBm, 440 dBm, 441 dBm, 442 dBm, 443 dBm, 444 dBm, 445 dBm, 446 dBm, 447 dBm, 448 dBm, 449 dBm, 450 dBm, 451 dBm, 452 dBm, 453 dBm, 454 dBm, 455 dBm, 456 dBm, 457 dBm, 458 dBm, 459 dBm, 460 dBm, 461 dBm, 462 dBm, 463 dBm, 464 dBm, 465 dBm, 466 dBm, 467 dBm, 468 dBm, 469 dBm, 470 dBm, 471 dBm, 472 dBm, 473 dBm, 474 dBm, 475 dBm, 476 dBm, 477 dBm, 478 dBm, 479 dBm, 480 dBm, 481 dBm, 482 dBm, 483 dBm, 484 dBm, 485 dBm, 486 dBm, 487 dBm, 488 dBm, 489 dBm, 490 dBm, 491 dBm, 492 dBm, 493 dBm, 494 dBm, 495 dBm, 496 dBm, 497 dBm, 498 dBm, 499 dBm, 500 dBm, 501 dBm, 502 dBm, 503 dBm, 504 dBm, 505 dBm, 506 dBm, 507 dBm, 508 dBm, 509 dBm, 510 dBm, 511 dBm, 512 dBm, 513 dBm, 514 dBm, 515 dBm, 516 dBm, 517 dBm, 518 dBm, 519 dBm, 520 dBm, 521 dBm, 522 dBm, 523 dBm, 524 dBm, 525 dBm, 526 dBm, 527 dBm, 528 dBm, 529 dBm, 530 dBm, 531 dBm, 532 dBm, 533 dBm, 534 dBm, 535 dBm, 536 dBm, 537 dBm, 538 dBm, 539 dBm, 540 dBm, 541 dBm, 542 dBm, 543 dBm, 544 dBm, 545 dBm, 546 dBm, 547 dBm, 548 dBm, 549 dBm, 550 dBm, 551 dBm, 552 dBm, 553 dBm, 554 dBm, 555 dBm, 556 dBm, 557 dBm, 558 dBm, 559 dBm, 560 dBm, 561 dBm, 562 dBm, 563 dBm, 564 dBm, 565 dBm, 566 dBm, 567 dBm, 568 dBm, 569 dBm, 570 dBm, 571 dBm, 572 dBm, 573 dBm, 574 dBm, 575 dBm, 576 dBm, 577 dBm, 578 dBm, 579 dBm, 580 dBm, 581 dBm, 582 dBm, 583 dBm, 584 dBm, 585 dBm, 586 dBm, 587 dBm, 588 dBm, 589 dBm, 590 dBm, 591 dBm, 592 dBm, 593 dBm, 594 dBm, 595 dBm, 596 dBm, 597 dBm, 598 dBm, 599 dBm, 600 dBm, 601 dBm, 602 dBm, 603 dBm, 604 dBm, 605 dBm, 606 dBm, 607 dBm, 608 dBm, 609 dBm, 610 dBm, 611 dBm, 612 dBm, 613 dBm, 614 dBm, 615 dBm, 616 dBm, 617 dBm, 618 dBm, 619 dBm, 620 dBm, 621 dBm, 622 dBm, 623 dBm, 624 dBm, 625 dBm, 626 dBm, 627 dBm, 628 dBm, 629 dBm, 630 dBm, 631 dBm, 632 dBm, 633 dBm, 634 dBm, 635 dBm, 636 dBm, 637 dBm, 638 dBm, 639 dBm, 640 dBm, 641 dBm, 642 dBm, 643 dBm, 644 dBm, 645 dBm, 646 dBm, 647 dBm, 648 dBm, 649 dBm, 650 dBm, 651 dBm, 652 dBm, 653 dBm, 654 dBm, 655 dBm, 656 dBm, 657 dBm, 658 dBm, 659 dBm, 660 dBm, 661 dBm, 662 dBm, 663 dBm, 664 dBm, 665 dBm, 666 dBm, 667 dBm, 668 dBm, 669 dBm, 670 dBm, 671 dBm, 672 dBm, 673 dBm, 674 dBm, 675 dBm, 676 dBm, 677 dBm, 678 dBm, 679 dBm, 680 dBm, 681 dBm, 682 dBm, 683 dBm, 684 dBm, 685 dBm, 686 dBm, 687 dBm, 688 dBm, 689 dBm, 690 dBm, 691 dBm, 692 dBm, 693 dBm, 694 dBm, 695 dBm, 696 dBm, 697 dBm, 698 dBm, 699 dBm, 700 dBm, 701 dBm, 702 dBm, 703 dBm, 704 dBm, 705 dBm, 706 dBm, 707 dBm, 708 dBm, 709 dBm, 710 dBm, 711 dBm, 712 dBm, 713 dBm, 714 dBm, 715 dBm, 716 dBm, 717 dBm, 718 dBm, 719 dBm, 720 dBm, 721 dBm, 722 dBm, 723 dBm, 724 dBm, 725 dBm, 726 dBm, 727 dBm, 728 dBm, 729 dBm, 730 dBm, 731 dBm, 732 dBm, 733 dBm, 734 dBm, 735 dBm, 736 dBm, 737 dBm, 738 dBm, 739 dBm, 740 dBm, 741 dBm, 742 dBm, 743 dBm, 744 dBm, 745 dBm, 746 dBm, 747 dBm, 748 dBm, 749 dBm, 750 dBm, 751 dBm, 752 dBm, 753 dBm, 754 dBm, 755 dBm, 756 dBm, 757 dBm, 758 dBm, 759 dBm, 760 dBm, 761 dBm, 762 dBm, 763 dBm, 764 dBm, 765 dBm, 766 dBm, 767 dBm, 768 dBm, 769 dBm, 770 dBm, 771 dBm, 772 dBm, 773 dBm, 774 dBm, 775 dBm, 776 dBm, 777 dBm, 778 dBm, 779 dBm, 780 dBm, 781 dBm, 782 dBm, 783 dBm, 784 dBm, 785 dBm, 786 dBm, 787 dBm, 788 dBm, 789 dBm, 790 dBm, 791 dBm, 792 dBm, 793 dBm, 794 dBm, 795 dBm, 796 dBm, 797 dBm, 798 dBm, 799 dBm, 800 dBm, 801 dBm, 802 dBm, 803 dBm, 804 dBm, 805 dBm, 806 dBm, 807 dBm, 808 dBm, 809 dBm, 810 dBm, 811 dBm, 812 dBm, 813 dBm, 814 dBm, 815 dBm, 816 dBm, 817 dBm, 818 dBm, 819 dBm, 820 dBm, 821 dBm, 822 dBm, 823 dBm, 824 dBm, 825 dBm, 826 dBm, 827 dBm, 828 dBm, 829 dBm, 830 dBm, 831 dBm, 832 dBm, 833 dBm, 834 dBm, 835 dBm, 836 dBm, 837 dBm, 838 dBm, 839 dBm, 840 dBm, 841 dBm, 842 dBm, 843 dBm, 844 dBm, 845 dBm, 846 dBm, 847 dBm, 848 dBm, 849 dBm, 850 dBm, 851 dBm, 852 dBm, 853 dBm, 854 dBm, 855 dBm, 856 dBm, 857 dBm, 858 dBm, 859 dBm, 860 dBm, 861 dBm, 862 dBm, 863 dBm, 864 dBm, 865 dBm, 866 dBm, 867 dBm, 868 dBm, 869 dBm, 870 dBm, 871 dBm, 872 dBm, 873 dBm, 874 dBm, 875 dBm, 876 dBm, 877 dBm, 878 dBm, 879 dBm, 880 dBm, 881 dBm, 882 dBm, 883 dBm, 884 dBm, 885 dBm, 886 dBm, 887 dBm, 888 dBm, 889 dBm, 890 dBm, 891 dBm, 892 dBm, 893 dBm, 894 dBm, 895 dBm, 896 dBm, 897 dBm, 898 dBm, 899 dBm, 900 dBm, 901 dBm, 902 dBm, 903 dBm, 904 dBm, 905 dBm, 906 dBm, 907 dBm, 908 dBm, 909 dBm, 910 dBm, 911 dBm, 912 dBm, 913 dBm, 914 dBm, 915 dBm, 916 dBm, 917 dBm, 918 dBm, 919 dBm, 920 dBm, 921 dBm, 922 dBm, 923 dBm, 924 dBm, 925 dBm, 926 dBm, 927 dBm, 928 dBm, 929 dBm, 930 dBm, 931 dBm, 932 dBm, 933 dBm, 934 dBm, 935 dBm, 936 dBm, 937 dBm, 938 dBm, 939 dBm, 940 dBm, 941 dBm, 942 dBm, 943 dBm, 944 dBm, 945 dBm, 946 dBm, 947 dBm, 948 dBm, 949 dBm, 950 dBm, 951 dBm, 952 dBm, 953 dBm, 954 dBm, 955 dBm, 956 dBm, 957 dBm, 958 dBm, 959 dBm, 960 dBm, 961 dBm, 962 dBm, 963 dBm, 964 dBm, 965 dBm, 966 dBm, 967 dBm, 968 dBm, 969 dBm, 970 dBm, 971 dBm, 972 dBm, 973 dBm, 974 dBm, 975 dBm, 976 dBm, 977 dBm, 978 dBm, 979 dBm, 980 dBm, 981 dBm, 982 dBm, 983 dBm, 984 dBm, 985 dBm, 986 dBm, 987 dBm, 988 dBm, 989 dBm, 990 dBm, 991 dBm, 992 dBm, 993 dBm, 994 dBm, 995 dBm, 996 dBm, 997 dBm, 998 dBm, 999 dBm, 1000 dBm, 1001 dBm, 1002 dBm, 1003 dBm, 1004 dBm, 1005 dBm, 1006 dBm, 1007 dBm, 1008 dBm, 1009 dBm, 1010 dBm, 1011 dBm, 1012 dBm, 1013 dBm, 1014 dBm, 1015 dBm, 1016 dBm, 1017 dBm, 1018 dBm, 1019 dBm, 1020 dBm, 1021 dBm, 1022 dBm, 1023 dBm, 1024 dBm, 1025 dBm, 1026 dBm, 1027 dBm, 1028 dBm, 1029 dBm, 1030 dBm, 1031 dBm, 1032 dBm, 1033 dBm, 1034 dBm, 1035 dBm, 1036 dBm, 1037 dBm, 1038 dBm, 1039 dBm, 1040 dBm, 1041 dBm, 1042 dBm, 1043 dBm, 1044 dBm, 1045 dBm, 1046 dBm, 1047 dBm, 1048 dBm, 1049 dBm, 1050 dBm, 1051 dBm, 1052 dBm, 1053 dBm, 1054 dBm, 1055 dBm, 1056 dBm, 1057 dBm, 1058 dBm, 1059 dBm, 1060 dBm, 1061 dBm, 1062 dBm, 1063 dBm, 1064 dBm, 1065 dBm, 1066 dBm, 1067 dBm, 1068 dBm, 1069 dBm, 1070 dBm, 1071 dBm, 1072 dBm, 1073 dBm, 1074 dBm, 1075 dBm, 1076 dBm, 1077 dBm, 1078 dBm, 1079 dBm, 1080 dBm, 1081 dBm, 1082 dBm, 1083 dBm, 1084 dBm, 1085 dBm, 1086 dBm, 1087 dBm, 1088 dBm, 1089 dBm, 1090 dBm, 1091 dBm, 1092 dBm, 1093 dBm, 1094 dBm, 1095 dBm, 1096 dBm, 1097 dBm, 1098 dBm, 1099 dBm, 1100 dBm, 1101 dBm, 1102 dBm, 1103 dBm, 1104 dBm, 1105 dBm, 1106 dBm, 1107 dBm, 1108 dBm, 1109 dBm, 1110 dBm, 1111 dBm, 1112 dBm, 1113 dBm, 1114 dBm, 1115 dBm, 1116 dBm, 1117 dBm, 1118 dBm, 1119 dBm, 1120 dBm, 1121 dBm, 1122 dBm, 1123 dBm, 1124 dBm, 1125 dBm, 1126 dBm, 1127 dBm, 1128 dBm, 1129 dBm, 1130 dBm, 1131 dBm, 1132 dBm, 1133 dBm, 1134 dBm, 1135 dBm, 1136 dBm, 1137 dBm, 1138 dBm, 1139 dBm, 1140 dBm, 1141 dBm, 1142 dBm, 1143 dBm, 1144 dBm, 1145 dBm, 1146 dBm, 1147 dBm, 1148 dBm, 1149 dBm, 1150 dBm, 1151 dBm, 1152 dBm, 1153 dBm, 1154 dBm, 1155 dBm, 1156 dBm, 1157 dBm, 1158 dBm, 1159 dBm, 1160																										



Table 12-140

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Max Allowed Power (2nd ant) [dBm]	Conducted Power (2nd ant) [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimt [dBm]	Overall Plimt [dBm]	75 Plimt [dBm]
Phubtest	6 GHz W/FW / IEEE 802.11ax	160	OFDM	MIMO	0073M	99.67	-0.11	6025.00	15	136.1	9.0	8.70	9.0	8.56	Back	0	0.063	1.107	1.003	0.070	0.070	0.038	24.5			
	6 GHz W/FW / IEEE 802.11ax	160	OFDM	MIMO	0073M	99.67	-0.12	6025.00	15	136.1	9.0	8.70	9.0	8.56	Front	0	0.064	1.107	1.003	0.071	0.071	0.038	24.4			
Phubtest	6 GHz W/FW / IEEE 802.11ax	160	OFDM	MIMO	0073M	99.67	-0.07	6025.00	15	136.1	9.0	8.70	9.0	8.56	Top	0	0.093	1.107	1.003	0.097	0.097	0.009	27.1			
Phubtest	6 GHz W/FW / IEEE 802.11ax	160	OFDM	MIMO	0073M	99.67	-0.05	6025.00	15	136.1	9.0	8.70	9.0	8.56	Right	0	0.023	1.107	1.003	0.026	0.026	0.007	28.9			
Phubtest	6 GHz W/FW / IEEE 802.11ax	160	OFDM	MIMO	0088M	99.67	-0.01	6025.00	15	136.1	9.0	8.70	9.0	8.56	Left	0	0.253	1.107	1.003	0.281	0.281	0.070	38.1	17.5	8.0	
Phubtest	6 GHz W/FW / IEEE 802.11ax	160	OFDM	MIMO	0088M	99.67	-0.05	6345.00	79	136.1	9.0	8.60	9.0	8.50	Left	0	0.064	1.089	1.003	0.070	0.070	0.038	24.4			
Phubtest	6 GHz W/FW / IEEE 802.11ax	160	OFDM	MIMO	0088M	99.67	-0.01	6305.00	111	136.1	9.0	8.49	9.0	8.72	Left	0	0.307	1.125	1.003	0.346	0.346	0.087	37.5			
Phubtest	6 GHz W/FW / IEEE 802.11ax	160	OFDM	MIMO	0088M	99.67	-0.06	6825.00	175	136.1	9.0	8.00	9.0	8.98	Left	0	0.146	1.253	1.003	0.183	0.183	0.046	30.3			
Phubtest	6 GHz W/FW / IEEE 802.11ax	160	OFDM	MIMO	0088M	99.67	-0.03	6985.00	207	136.1	9.0	8.29	9.0	8.60	Left	0	0.117	1.178	1.003	0.138	0.138	0.035	21.5			
ANSI/IEEE C63.1-1992 - SAFETY LIMIT										Spatial Peak										Phantom						
Uncontrolled Exposure/General Population										4.0 W/kg (mW/g)										averaged over 10 grams						

Note: To achieve the 13 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 9 dBm.

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conc Power [dBm]	Max Allowed Power (2nd ant) [dBm]	Conducted Power (2nd ant) [dBm]	Test Position	Spacing [mm]	Measured APD [W/m ² (Acm ²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APD [W/m ² (Acm ²)]	Adjusted APD [W/m ² (Acm ²)]	APD Exposure Ratio	Plimt [dBm]	Overall Plimt [dBm]	EPS Plimt [dBm]
Phubtest	6 GHz W/FW / IEEE 802.11ax	160	OFDM	MIMO	0073M	99.67	-0.11	6025.00	15	136.1	9.0	8.70	9.0	8.56	Back	0	1.430	1.107	1.003	1.588	1.588	0.079	19.0		
	6 GHz W/FW / IEEE 802.11ax	160	OFDM	MIMO	0073M	99.67	-0.12	6025.00	15	136.1	9.0	8.70	9.0	8.56	Front	0	1.480	1.107	1.003	1.643	1.643	0.082	18.9		
	6 GHz W/FW / IEEE 802.11ax	160	OFDM	MIMO	0073M	99.67	-0.07	6025.00	15	136.1	9.0	8.70	9.0	8.56	Top	0	0.146	1.107	1.003	0.232	0.232	0.044	21.9		
	6 GHz W/FW / IEEE 802.11ax	160	OFDM	MIMO	0073M	99.67	-0.05	6025.00	15	136.1	9.0	8.70	9.0	8.56	Right	0	0.029	1.107	1.003	0.076	0.076	0.025	23.4		
	6 GHz W/FW / IEEE 802.11ax	160	OFDM	MIMO	0088M	99.67	-0.02	6025.00	15	136.1	9.0	8.70	9.0	8.56	Left	0	0.090	1.107	1.003	0.146	0.146	0.044	21.9		
Phubtest	6 GHz W/FW / IEEE 802.11ax	160	OFDM	MIMO	0088M	99.67	-0.05	6345.00	79	136.1	9.0	8.60	9.0	8.50	Left	0	0.090	1.089	1.003	0.146	0.146	0.044	21.9	11.9	8.0
Phubtest	6 GHz W/FW / IEEE 802.11ax	160	OFDM	MIMO	0088M	99.67	-0.01	6505.00	111	136.1	9.0	8.49	9.0	8.72	Left	0	0.230	1.125	1.003	0.343	0.343	0.116	14.7		
Phubtest	6 GHz W/FW / IEEE 802.11ax	160	OFDM	MIMO	0088M	99.67	-0.06	6825.00	175	136.1	9.0	8.00	9.0	8.98	Left	0	0.340	1.253	1.003	0.433	0.433	0.116	14.7		
Phubtest	6 GHz W/FW / IEEE 802.11ax	160	OFDM	MIMO	0088M	99.67	-0.03	6985.00	207	136.1	9.0	8.29	9.0	8.60	Left	0	0.270	1.178	1.003	0.373	0.373	0.104	15.0		
ANSI/IEEE C63.1-1992 - SAFETY LIMIT										Spatial Peak										Phantom					
Uncontrolled Exposure/General Population										1.6 W/kg (mW/g)										averaged over 1 gram					

Note: To achieve the 12 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 9 dBm.

12.35 2.4 GHz Bluetooth SISO Standalone SAR

Table 12-141

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit BT [dBm]	EPS Plimit LE [dBm]
Head	2.4 GHz Bluetooth	FHSS	H	0120M	76.80	0.04	2441.00	39	1	19.5	18.64	Right Cheek	0	0.743	1.218	1.016	0.909	0.985	0.636		18.7			
Head	2.4 GHz Bluetooth LE	DSSS	H	0120M	85.33	0.02	2402.00	0	1	20.5	19.25	Right Cheek	0	0.594	1.334	1.020	0.808	0.808	0.505		20.8			
Head	2.4 GHz Bluetooth LE	DSSS	H	0120M	85.33	-0.01	2440.00	39	1	20.5	19.94	Right Cheek	0	0.757	1.138	1.020	0.879	0.879	0.549	AS1	20.4			
Head	2.4 GHz Bluetooth LE	DSSS	H	0120M	85.33	-0.01	2440.00	39	1	20.5	19.16	Right Cheek	0	0.683	1.361	1.020	0.879	0.879	0.549	20.4	18.7		18.9	
Head	2.4 GHz Bluetooth LE	DSSS	H	0120M	85.33	0.00	2440.00	39	1	20.5	19.94	Right Tilt	0	0.484	1.138	1.020	0.562	0.562	0.351		22.4			
Head	2.4 GHz Bluetooth LE	DSSS	H	0120M	85.33	-0.15	2440.00	39	1	20.5	19.94	Left Cheek	0	0.199	1.138	1.020	0.224	0.224	0.140		26.3			
Head	2.4 GHz Bluetooth LE	DSSS	H	0120M	85.33	0.05	2440.00	39	1	20.5	19.94	Left Tilt	0	0.179	1.138	1.020	0.208	0.208	0.130		26.7			
ANSI/IEEE C63.1-1992 - SAFETY LIMIT													Head											
Uncontrolled Exposure/General Population													1.6 W/kg (mW/g) averaged over 1 gram											

Table 12-142

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plimt [dBm]	Overall Plimt [dBm]	EPS Plimt [dBm]	EPS Plimt BT LE [dBm]	
Head	2.4 GHz Bluetooth LE	DSSS	J	0120M	85.43	0.02	2440.00	39	1	20.0	19.37	Right Cheek	0	0.329	1.156	1.018	0.387	0.487	0.304	23.5				
Head	2.4 GHz Bluetooth LE	DSSS	J	0120M	85.43	-0.06	2440.00	39	1	20.0	19.37	Right Tilt	0	0.041	1.156	1.018	0.048	0.061	0.038	32.5				
Head	2.4 GHz Bluetooth LE	FHSS	J	0120M	76.80	0.04	2441.00	39	1	19.5	18.68	Left Cheek	0	0.514	1.209	1.016	0.631	1.001	0.626	20.4	20.4	20.4	20.4	
Head	2.4 GHz Bluetooth LE	DSSS	J	0120M	85.43	0.04	2440.00	39	1	20.0	19.37	Left Cheek	0	0.997	1.156	1.018	0.703	0.884	0.553	20.9				
Head	2.4 GHz Bluetooth LE	DSSS	J	0120M	85.43	-0.02	2440.00	39	1	20.0	19.37	Left Tilt	0	0.061	1.156	1.018	0.072	0.090	0.056	30.8				
ANSI/IEEE C63.1-1992 - SAFETY LIMIT										Spatial Peak										Head				
Uncontrolled Exposure/General Population										1.6 W/kg (mW/g)										averaged over 1 gram				

Table 12-143

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]	EPS Plimit BT LE [dBm]
Body-worn/Hotspot	2.4 GHz Bluetooth LE	DSSS	H	0120M	85.33	-0.01	2440.00	39	1	20.5	19.94	Back	30	0.181	1.138	1.020	0.230	0.290	0.181	A30	26.6			
	Hotspot	2.4 GHz Bluetooth LE	DSSS	H	0120M	85.33	-0.03	2440.00	39	1	20.5	19.94	Front	10	0.190	1.138	1.020	0.221	0.304	0.190	26.4			
	Hotspot	2.4 GHz Bluetooth LE	DSSS	H	0120M	85.33	-0.04	2440.00	39	1	20.5	19.94	Top	10	0.154	1.138	1.020	0.179	0.247	0.154	27.3			
	Hotspot	2.4 GHz Bluetooth LE	FHSS	H	0120M	76.80	-0.02	2441.00	39	1	19.5	18.64	Left	10	0.380	1.218	1.016	0.470	0.917	0.573	21.6			
	Hotspot	2.4 GHz Bluetooth LE	DSSS	H	0120M	85.33	-0.01	2440.00	39	1	20.5	19.94	Left	10	0.422	1.138	1.020	0.460	0.676	0.423	A30	22.9		
ANSI/IEEE C63.1-1992 - SAFETY LIMIT										Spatial Peak										Body				
Uncontrolled Exposure/General Population										1.6 W/kg (mW/g)										averaged over 1 gram				

Table 12-144

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EPS Plimit [dBm]	EPS Plimit BT LE [dBm]
Body-worn/Hotspot	2.4 GHz Bluetooth LE	DSSS	J	0120M	85.43	-0.03	2440.00	39	1	20.0	19.37	Back	10	0.044	1.156	1.018	0.052	0.231	0.144			32.2		
Hotspot	2.4 GHz Bluetooth LE	DSSS	J	0120M	78.80	-0.03	2440.00	39	1	18.5	18.68	Front	10	0.051	1.208	1.082	0.082	0.461	0.308			29.2		
Hotspot	2.4 GHz Bluetooth LE	DSSS	J	0120M	85.43	-0.08	2440.00	39	1	20.0	19.37	Front	10	0.074	1.156	1.018	0.087	0.389	0.243			29.8	29.2	25.9
Hotspot	2.4 GHz Bluetooth LE	DSSS	J	0120M	85.43	-0.08	2440.00	39	1	20.0	19.37	Top	10	0.003	1.156	1.018	0.004	0.016	0.013			43.8		
Hotspot	2.4 GHz Bluetooth LE	DSSS	J	0120M	85.43	-0.03	2440.00	39	1	20.0	19.37	Right	10	0.020	1.156	1.018	0.024	0.105	0.066			35.6		
ANSI/IEEE C39.1-1992 - SAFETY LIMIT																								
Spatial Peak														Body										
Uncontrolled Frequency General Population														1.6 W/kg (mW/g)										
														averaged over 1 gram										



12.36 2.4 GHz Bluetooth MIMO Standalone SAR

Table 12-145

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Max Allowed Power (2nd ant) [dBm]	Conducted Power (2nd ant) [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimt [dBm]	Overall Plimt [dBm]	EFS Plimt BT [dBm]	EFS Plimt BT LE [dBm]
Head	2.4 GHz Bluetooth	PHSS	MIMO	0120M	77.07	-0.02	2441.00	39	1	15.5	15.15	15.5	15.39	Right Cheek	0	0.288	1.083	1.025	0.331	0.707	0.442		19.2			
Head	2.4 GHz Bluetooth LE	DSSS	MIMO	0120M	85.45	-0.02	2440.00	19	1	15.5	15.48	14.0	13.92	Right Cheek	0	0.349	1.019	1.018	0.362	0.397	0.533		17.8			
Head	2.4 GHz Bluetooth LE	DSSS	MIMO	0120M	85.45	-0.01	2440.00	19	1	15.5	15.48	14.0	13.92	Right Tib	0	0.241	1.019	1.018	0.259	0.688	0.430		18.4	17.8	17.8	
Head	2.4 GHz Bluetooth LE	DSSS	MIMO	0120M	85.45	-0.09	2440.00	19	1	15.5	15.48	14.0	13.92	Left Cheek	0	0.170	1.019	1.018	0.176	0.485	0.303		20.9			
Head	2.4 GHz Bluetooth LE	DSSS	MIMO	0120M	85.45	-0.17	2440.00	19	1	15.5	15.48	14.0	13.92	Left Tib	0	0.074	1.019	1.018	0.077	0.211	0.132		24.5			
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																Head										
Spatial Peak																Body										
Uncontrolled Exposure/General Population																1.6 W/kg (mW/g)										
																averaged over 1 gram										

Note: To achieve the 18.5 dBm maximum allowed MIMO power for Bluetooth LE shown in the documentation, Antenna H transmits at a maximum allowed power of 15.5 dBm, and Antenna J transmits at a maximum allowed power of 14.0 dBm. To achieve the 18.5 dBm maximum allowed MIMO power for Bluetooth BDR shown in the documentation, each antenna transmits at a maximum allowed power of 15.5 dBm.

Table 12-146

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Max Allowed Power (2nd ant) [dBm]	Conducted Power (2nd ant) [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimt [dBm]	Overall Plimt [dBm]	EFS Plimt BT [dBm]	EFS Plimt BT LE [dBm]	
Body worn/Hotspot	2.4 GHz Bluetooth LE	DSSS	MIMO	0120M	85.45	-0.05	2440.00	19	1	15.5	15.48	14.0	13.92	Back	10	0.110	1.019	1.018	0.114	0.386	0.241		22.8				
	Hotspot	2.4 GHz Bluetooth LE	DSSS	MIMO	0120M	85.45	-0.09	2440.00	19	1	15.5	15.48	14.0	13.92	Front	10	0.089	1.019	1.018	0.100	0.344	0.215		23.1			
	Hotspot	2.4 GHz Bluetooth LE	DSSS	MIMO	0120M	85.45	-0.07	2440.00	19	1	15.5	15.48	14.0	13.92	Top	10	0.074	1.019	1.018	0.077	0.260	0.163		24.5	19.8	18.7	18.7
	Hotspot	2.4 GHz Bluetooth LE	DSSS	MIMO	0120M	85.45	-1.48	2440.00	19	1	15.5	15.48	14.0	13.92	Right	10	0.018	1.019	1.018	0.020	0.083	0.039		30.6			
	Hotspot	2.4 GHz Bluetooth	PHSS	MIMO	0120M	77.07	-0.05	2441.00	39	1	15.5	15.15	15.5	15.39	Left	10	0.178	1.083	1.025	0.198	0.520	0.325		21.5			
	Hotspot	2.4 GHz Bluetooth LE	DSSS	MIMO	0120M	85.45	-0.03	2440.00	19	1	15.5	15.48	14.0	13.92	Left	10	0.219	1.019	1.018	0.227	0.769	0.481		19.8			
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																Body											
Spatial Peak																1.6 W/kg (mW/g)											
Uncontrolled Exposure/General Population																averaged over 1 gram											

Note: To achieve the 18.5 dBm maximum allowed MIMO power for Bluetooth LE shown in the documentation, Antenna H transmits at a maximum allowed power of 15.5 dBm, and Antenna J transmits at a maximum allowed power of 14.0 dBm. To achieve the 18.5 dBm maximum allowed MIMO power for Bluetooth BDR shown in the documentation, each antenna transmits at a maximum allowed power of 15.5 dBm.

12.37 UWB Standalone SAR

Table 12-147

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #
Phablet	UWB	CW	1	0024M	1:1	0.08	6489.60	5	Back	0	0.000	0.000	
Phablet	UWB	CW	1	0024M	1:1	0.07	7987.20	9	Back	0	0.002	0.001	
Phablet	UWB	CW	1	0024M	1:1	0.07	6489.60	5	Front	0	0.000	0.000	
Phablet	UWB	CW	1	0024M	1:1	0.03	7987.20	9	Front	0	0.002	0.001	A94
Phablet	UWB	CW	1	0024M	1:1	0.03	6489.60	5	Left	0	0.001	0.000	
Phablet	UWB	CW	1	0024M	1:1	0.01	7987.20	9	Left	0	0.000	0.000	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT										Phablet			
Spatial Peak										4.0 W/kg (mW/g)			
Uncontrolled Exposure/General Population										averaged over 10 grams			
Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Test Position	Spacing [mm]	Measured APD [W/m ² (4cm ²)]	APD Exposure Ratio	Plot #
Phablet	UWB	CW	1	0024M	1:1	0.08	6489.60	5	Back	0	0.005	0.001	
Phablet	UWB	CW	1	0024M	1:1	0.07	7987.20	9	Back	0	0.044	0.011	
Phablet	UWB	CW	1	0024M	1:1	0.07	6489.60	5	Front	0	0.008	0.002	
Phablet	UWB	CW	1	0024M	1:1	0.03	7987.20	9	Front	0	0.050	0.013	A94
Phablet	UWB	CW	1	0024M	1:1	0.03	6489.60	5	Left	0	0.027	0.007	
Phablet	UWB	CW	1	0024M	1:1	0.01	7987.20	9	Left	0	0.016	0.004	
Health Canada Safety Code 6										Body			
Spatial Peak										20 W/m ²			
Uncontrolled Exposure/ General Population										average over 4 cm ²			

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12.38 NFC Standalone SAR

Table 12-148

Exposure	Band / Mode	Signal Type	Ant.	Serial Number	Power Drift [dB]	Frequency [MHz]	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #
Phablet	NFC	B	NFC	0129M	-0.04	13.60	Back	0	0.012	0.003	A95
Phablet	NFC	B	NFC	0129M	0.09	13.60	Front	0	0.000	0.000	
Phablet	NFC	B	NFC	0129M	0.06	13.60	Top	0	0.000	0.000	
Phablet	NFC	B	NFC	0129M	0.04	13.60	Left	0	0.000	0.000	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							Phablet 4.0 W/kg (mW/g) averaged over 10 grams				

12.39 NTN Band 255 Standalone SAR

Table 12-149

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	# Tones	Tone Start	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body-worn	NTN Band 255	CW	F	0089M	1:1	-0.02	1626.60	261505	23.0	22.76	1	5	Back	10	0.466	1.057	0.710	0.350	0.219	A96
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population										Body 1.6 W/kg (mW/g) averaged over 1 gram										

Table 12-150

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	# Tones	Tone Start	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #
Phablet	NTN Band 255	CW	F	0089M	1:1	-0.06	1626.60	261505	23.0	22.76	1	5	Back	0	1.340	1.057	0.710	1.006	0.252	
Phablet	NTN Band 255	CW	F	0089M	1:1	0.09	1626.60	261505	23.0	22.76	1	5	Front	0	1.600	1.057	0.710	1.201	0.300	
Phablet	NTN Band 255	CW	F	0089M	1:1	0.01	1626.60	261505	23.0	22.76	1	5	Top	0	3.000	1.057	0.710	2.702	0.676	A97
Phablet	NTN Band 255	CW	F	0089M	1:1	-0.01	1626.60	261505	23.0	22.76	1	5	Top	0	1.000	1.057	0.710	2.702	0.676	
Phablet	NTN Band 255	CW	F	0089M	1:1	-0.01	1643.50	261674	23.0	22.53	1	5	Top	0	3.540	1.114	0.710	2.800	0.700	
Phablet	NTN Band 255	CW	F	0089M	1:1	-0.01	1660.40	261843	23.0	22.49	1	5	Top	0	3.360	1.125	0.710	2.684	0.671	
Phablet	NTN Band 255	CW	F	0089M	1:1	-0.07	1626.60	261505	23.0	22.76	1	5	Left	0	0.489	1.057	0.710	0.367	0.092	
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

SAR Test Notes

General Notes:

- The test data reported are the worst-case SAR values according to test procedures specified in IEEE 1528-2013, and FCC KDB Publication 447498 D01v06.
- Batteries are fully charged at the beginning of the SAR measurements.
- Liquid tissue depth was at least 15.0 cm for all frequencies.
- The manufacturer has confirmed that the device(s) tested have the same physical, mechanical and thermal characteristics and are within operational tolerances expected for production units.
- SAR results were scaled to the maximum allowed power to demonstrate compliance per FCC KDB Publication 447498 D01v06.
- Device was tested using a fixed spacing for body-worn accessory testing. A separation distance of 10 mm was considered because the manufacturer has determined that there will be body-worn accessories available in the marketplace for users to support this separation distance.
- Per FCC KDB Publication 648474 D01v06r03, body-worn SAR was evaluated without a headset connected to the device. Since the standalone reported body-worn SAR was ≤ 1.2 W/kg, no additional body-worn SAR evaluations using a headset cable were required.
- Per FCC KDB 865664 D01v01r04, variability SAR tests were performed when the measured SAR results for a frequency band were greater than or equal to 0.8 W/kg. Repeated SAR measurements are highlighted in the tables above for clarity. Please see Section 14 for variability analysis.

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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 7.7 for more details).
10. Per FCC KDB Publication 648474 D01v06r03, this device is considered a "phablet" since the display diagonal dimension is > 150 mm and < 200 mm. Therefore, phablet SAR tests are required when wireless router mode does not apply or if wireless router 1g SAR > 1.2 W/kg.
11. This device supports dynamic antenna tuning for some bands. Per FCC Guidance, SAR was measured according to the normally required SAR measurement configurations with tuner active. The auto-tune state determined by the device was verified before and after each SAR measurement and is listed in tables above. Please see Section 15 for supplemental data.
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 was assessed at the minimum of the time averaged power and the maximum output power for each band/mode/exposure condition (DSI).
14. Per October 2020 TCB Workshop notes, absorbed power density (APD) using a 4cm² averaging area is reported based on SAR measurements.

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 ≤ 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 ≤ 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 9.5.4.
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.

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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. For LTE Band 48 per FCC guidance, SAR was first measured with only a single carrier active in the uplink (carrier aggregation not active). For each exposure condition, the uplink CA scenario with two component carriers was additionally tested for the configuration with the highest SAR when carrier aggregation was not active. The SCC was configured with the closest available contiguous channel. The two component carriers were configured so the resource blocks are physically allocated side by side to achieve the maximum output power.

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 n41/48 SAR measured at the highest output power channel in a given a test configuration was > 0.6 W/kg for 1g evaluations and > 1.5 W/kg for 10g evaluation, testing at the other channels was required for such test configurations.
8. SRS was tested with CW signal per Qualcomm guidance in 80-w2112-4.
9. For final implementation, NR Band n38, n41, n48 and n77 slot configuration is synchronized using maximum duty cycle of 100%. SAR testing was performed using FTM mode with a 100% duty cycle applied to match final duty cycle.
10. Per FCC Guidance, C-Band for NR n77 (3705 – 3975 MHz) was fully tested according to FCC procedures. For each exposure condition and antenna, the worst-case position was additionally evaluated for the NR n77 DoD (3455.01 – 3544.98 MHz).
11. This device uses two transmit pathways for n41 operations (Path 1 and Path 2). For each exposure condition, the pathway with the highest target power was fully evaluated. The worst case for each antenna and exposure condition was additionally evaluated using the other path.

WLAN Notes:

1. For held-to-ear, hotspot, and phablet operations, the initial test position procedures were applied. The test position with the highest extrapolated peak SAR will be used as the initial test position. When reported SAR for the initial test position is ≤ 0.4 W/kg for 1g evaluations, no additional testing for the remaining test positions was required. Otherwise, SAR is evaluated at the subsequent highest peak SAR positions until the reported SAR result is ≤ 0.8 W/kg or all test positions are measured.
2. Justification for test configurations for WLAN per KDB Publication 248227 D01v02r02 for 2.4 GHz WIFI single transmission chain operations, the highest measured maximum output power channel for DSSS was selected for SAR measurement. SAR for OFDM modes (2.4 GHz 802.11g/n/ax) was not required due

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to the maximum allowed powers and the highest reported DSSS SAR. See Section 9.6.5 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 9.6.6 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 Considerations Appendix for complete analysis.
5. When the maximum reported 1g averaged SAR is ≤ 0.8 W/kg, SAR testing on additional channels was not required. Otherwise, SAR for the next highest output power channel was required until the reported SAR result was ≤ 1.20 W/kg for 1g evaluations or all test channels were measured.
6. The device was configured to transmit continuously at the required data rate, channel bandwidth and signal modulation, using the highest transmission duty factor supported by the test mode tools. The reported SAR was scaled to the 100% transmission duty factor to determine compliance. Procedures used to measure the duty factor are identical to that in the associated EMC test reports.
7. When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.
8. Per FCC guidance, SAR was performed using 6.5 GHz SAR probe calibration factor for WIFI 6E. Per October 2020 TCB Workshop notes, 5 channels were tested for WIFI 6E.

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 79% transmission duty factor for Bluetooth and 87% transmission duty factor for Bluetooth LE to determine compliance. See RF Conducted Power Section for the time domain plot and calculation for the duty factor of the device.
2. Head and Hotspot Bluetooth SAR were evaluated for BT BDR tethering applications.
3. The highest frame average power configurations for both Bluetooth and Bluetooth LE were evaluated for SAR. The worst case configuration was used for the remaining test positions as the most conservative scenario.

UWB Notes:

1. UWB was evaluated for phablet based on expected usage conditions.
2. Per FCC guidance, SAR was performed using 6.5 GHz/8GHz probe calibration factor for UWB.

NTN Notes:

1. Due to equipment limitations, NTN was tested using factory test mode software transmitting CW at 100% duty cycle. The results were scaled down to the maximum duty cycle of 71%, declared by the manufacturer.

NTN NB-IoT only supports data transmission, therefore only body-worn and phablet exposure conditions were evaluated.

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13 POWER DENSITY DATA SUMMARY

13.1 6 GHz WIFI Power Density Results

Table 13-1

MEASUREMENT RESULTS																										
Frequency (MHz)	Channel	Mode	Service	Bandwidth (MHz)	Maximum Allowed Power (Ant H) (dBm)	Conducted Power (Ant H) (dBm)	Maximum Allowed Power (Ant E) (dBm)	Conducted Power (Ant E) (dBm)	Power Df/B (dB)	Spacing (mm)	Antenna Config.	Keyboard Variant	DUT Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	Grid Step (A)	PRF (W/m²)	Scaling Factor for Measurement Uncertainty per IEC 63479	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Normal pAPD (W/m²)	Scaled Normal pAPD (W/m²)	Total pAPD (W/m²)	Scaled Total pAPD (W/m²)	Plot #
6985.00	207	802.11ax	OFDM	160	9.00	8.89	-	-	3.63	2	H	1	0066M	MCSD	Back	99.67	0.125	0.554	1.554	1.026	1.003	0.220	0.352	0.290	0.464	
6985.00	207	802.11ax	OFDM	160	9.00	8.89	-	-	0.37	2	H	1	0066M	MCSD	Front	99.67	0.125	0.677	1.554	1.026	1.003	0.227	0.363	0.269	0.430	
6985.00	207	802.11ax	OFDM	160	9.00	8.89	-	-	-2.19	2	H	1	0066M	MCSD	Top	99.67	0.125	0.380	1.554	1.026	1.003	0.174	0.278	0.195	0.312	
6985.00	207	802.11ax	OFDM	160	9.00	8.89	-	-	-0.20	2	H	1	0066M	MCSD	Left	99.67	0.125	0.624	1.554	1.026	1.003	0.690	1.103	0.869	1.390	
6025.00	15	802.11ax	OFDM	160	9.00	8.81	-	-	-0.32	2	H	1	0066M	MCSD	Left	99.67	0.125	0.665	1.554	1.045	1.003	1.450	2.362	1.800	2.932	
6345.00	79	802.11ax	OFDM	160	9.00	8.73	-	-	0.07	2	H	1	0066M	MCSD	Left	99.67	0.125	0.939	1.554	1.064	1.003	1.810	3.002	2.080	3.450	
6905.00	111	802.11ax	OFDM	160	9.00	8.88	-	-	0.10	2	H	1	0066M	MCSD	Left	99.67	0.125	2.060	1.554	1.026	1.003	2.660	4.262	3.190	5.111	
6825.00	175	802.11ax	OFDM	160	9.00	8.83	-	-	-0.60	2	H	1	0066M	MCSD	Left	99.67	0.125	0.624	1.554	1.040	1.003	1.630	2.642	2.000	3.242	
6985.00	207	802.11ax	OFDM	160	9.00	8.89	-	-	0.89	8.58	H	1	0066M	MCSD	Left	99.67	0.125	0.731	1.554	1.026	1.003	0.373	0.596	0.597	0.635	
6025.00	15	802.11ax	OFDM	160	-	-	9.00	8.93	0.02	2	E	1	0066M	MCSD	Back	99.67	0.125	1.870	1.554	1.016	1.003	1.990	3.151	2.100	3.326	
6025.00	15	802.11ax	OFDM	160	-	-	9.00	8.93	0.81	2	E	1	0066M	MCSD	Front	99.67	0.125	0.420	1.554	1.016	1.003	0.207	0.328	0.222	0.352	
6025.00	15	802.11ax	OFDM	160	-	-	9.00	8.93	3.06	2	E	1	0066M	MCSD	Top	99.67	0.125	0.516	1.554	1.016	1.003	0.317	0.502	0.361	0.619	
6025.00	15	802.11ax	OFDM	160	-	-	9.00	8.93	-6.99	2	E	1	0066M	MCSD	Right	99.67	0.125	4.240	1.554	1.016	1.003	0.392	0.621	0.444	0.703	
6345.00	79	802.11ax	OFDM	160	-	-	9.00	8.51	0.00	2	E	1	0066M	MCSD	Back	99.67	0.125	0.777	1.554	1.119	1.003	0.841	1.467	1.000	1.744	
6505.00	111	802.11ax	OFDM	160	-	-	9.00	8.90	7.37	2	E	1	0066M	MCSD	Back	99.67	0.125	0.870	1.554	1.023	1.003	0.617	0.984	0.799	1.274	
6825.00	175	802.11ax	OFDM	160	-	-	9.00	8.91	0.66	2	E	1	0066M	MCSD	Back	99.67	0.125	0.849	1.554	1.021	1.003	0.637	1.014	0.716	1.139	
6985.00	207	802.11ax	OFDM	160	-	-	9.00	8.88	0.30	2	E	1	0066M	MCSD	Back	99.67	0.125	0.589	1.554	1.076	1.003	0.415	0.696	0.608	1.104	
6025.00	15	802.11ax	OFDM	160	-	-	9.00	8.93	0.33	9.95	E	1	0066M	MCSD	Back	99.67	0.125	1.540	1.554	1.016	1.003	1.230	1.948	1.380	2.027	
6345.00	79	802.11ax	OFDM	160	9.00	8.60	9.00	8.59	0.14	2	MIMO	1	0076M	MCSD	Back	99.67	0.125	-	1.554	1.099	1.003	1.380	2.364	1.650	2.826	
6345.00	79	802.11ax	OFDM	160	9.00	8.60	9.00	8.59	0.14	2	MIMO	1	0076M	MCSD	Front	99.67	0.125	-	1.554	1.099	1.003	0.754	1.292	1.040	1.781	
6345.00	79	802.11ax	OFDM	160	9.00	8.60	9.00	8.59	0.11	2	MIMO	1	0076M	MCSD	Top	99.67	0.125	-	1.554	1.099	1.003	0.539	0.923	0.605	1.567	
6345.00	79	802.11ax	OFDM	160	9.00	8.60	9.00	8.59	0.13	2	MIMO	1	0076M	MCSD	Right	99.67	0.125	-	1.554	1.099	1.003	0.579	0.980	0.618	1.059	
6025.00	15	802.11ax	OFDM	160	9.00	8.70	9.00	8.56	0.15	2	MIMO	1	0076M	MCSD	Left	99.67	0.125	-	1.554	1.107	1.003	2.070	3.572	2.760	4.762	
6345.00	79	802.11ax	OFDM	160	9.00	8.60	9.00	8.59	-0.07	2	MIMO	1	0076M	MCSD	Left	99.67	0.125	-	1.554	1.099	1.003	2.070	3.546	3.280	5.619	AMB
6505.00	111	802.11ax	OFDM	160	9.00	8.49	9.00	8.72	0.06	2	MIMO	1	0076M	MCSD	Left	99.67	0.125	-	1.554	1.125	1.003	1.920	3.367	2.600	4.559	
6825.00	175	802.11ax	OFDM	160	9.00	8.02	9.00	8.98	0.04	2	MIMO	1	0076M	MCSD	Left	99.67	0.125	-	1.554	1.253	1.003	1.000	1.953	1.340	2.617	
6925.00	207	802.11ax	OFDM	160	9.00	8.29	9.00	8.81	-0.13	2	MIMO	1	0076M	MCSD	Left	99.67	0.125	-	1.554	1.178	1.003	0.583	1.070	1.050	1.928	
48 CFR 51.113-3 - SAFETY LIMIT Spatial Average Uncontrolled Exposure / General Population													Power Density 10 W/m² averaged over 4 cm²													

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13.2 UWB Power Density Results

Table 13-2

MEASUREMENT RESULTS															
Frequency (MHz)	Channel	Mode	Power Drift (dB)	Spacing (mm)	Antenna Config.	DUT Serial Number	Side	Grid Step (λ)	iPD (W/m ²)	Scaling Factor for Measurement Uncertainty per IEC 62479	Normal psPD (W/m ²)	Scaled Normal psPD (W/m ²)	Total psPD (W/m ²)	Scaled Total psPD (W/m ²)	Plot #
6489.60	5	CW	-0.14	2	1	0024M	Back	0.125	-	1.554	0.279	0.434	0.313	0.486	A99
6489.60	5	CW	0.17	2	1	0024M	Front	0.125	-	1.554	0.128	0.199	0.133	0.207	
6489.60	5	CW	0.18	2	1	0024M	Top	0.125	0.253	1.554	0.166	0.258	0.213	0.331	
6489.60	5	CW	-0.12	9.24	1	0024M	Top	0.125	0.148	1.554	0.077	0.120	0.089	0.138	
6489.60	5	CW	-0.16	2	1	0024M	Left	0.125	-	1.554	0.069	0.107	0.076	0.118	
7987.20	9	CW	0.17	2	1	0024M	Back	0.125	-	1.554	0.107	0.166	0.125	0.194	
7987.20	9	CW	-0.12	2	1	0024M	Front	0.125	-	1.554	0.148	0.230	0.153	0.238	
7987.20	9	CW	-0.14	2	1	0024M	Top	0.125	-	1.554	0.085	0.132	0.099	0.154	
7987.20	9	CW	0.18	2	1	0024M	Left	0.125	-	1.554	0.062	0.096	0.073	0.113	
47 CFR §1.1310 - SAFETY LIMIT Spatial Average Uncontrolled Exposure / General Population						Power Density 10 W/m ² averaged over 4 cm ²									

Power Density General Notes

1. The manufacturer has confirmed that the devices tested have the same physical, mechanical and thermal characteristics and are within operational tolerances expected for production units.
2. Batteries are fully charged at the beginning of the measurements. The DUT was connected to a wall charger for some measurements due to the test duration. It was confirmed that the charger plugged into this DUT did not impact the near-field PD test results.
3. Power density was calculated by repeated E-field measurements on two measurement planes separated by $\lambda/4$.
4. 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.
5. Per FCC guidance and equipment manufacturer guidance, power density results were scaled according to IEC 62479:2010 for the portion of the measurement uncertainty > 30%. Total expanded uncertainty of 2.68 dB (85.4%) was used to determine the psPD measurement scaling factor.
6. Per equipment manufacturer guidance, power density was measured at $d=2\text{mm}$ and $d=\lambda/5\text{mm}$ using the same grid size and grid step size for some frequencies and surfaces. The integrated Power Density (iPD) was calculated based on these measurements. Since iPD ratio between the two distances is $\geq -1\text{dB}$, the grid step was sufficient for determining compliance at $d=2\text{mm}$.
7. psPD for MIMO was evaluated by making a measurement with both antennas transmitting simultaneously.
8. PTP-PR algorithm was used during psPD measurement and calculations.
9. PD results were scaled to the maximum allowed power to demonstrate compliance per FCC KDB Publication 447498 D04.

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14 SAR MEASUREMENT VARIABILITY

14.1 Measurement Variability

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

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

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

Table 14-1
Head SAR Measurement Variability Results

HEAD VARIABILITY RESULTS													
Band	FREQUENCY		Mode	Service	Side	Test Position	Antenna Config	Measured SAR (1g)	1st Repeated SAR (1g)	Ratio	2nd Repeated SAR (1g)	Ratio	3rd Repeated SAR (1g)
	MHz	Ch.						(W/kg)	(W/kg)		(W/kg)		(W/kg)
750	782.00	23230	LTE Band 13, 10 MHz Bandwidth	QPSK, 50 RB, 0 RB Offset	Left	Tilt	E	0.870	0.825	1.05	N/A	N/A	N/A
835	836.60	4183	UMTS 850	RMC	Left	Cheek	E	0.895	0.888	1.01	N/A	N/A	N/A
2600	2535.00	507000	NR Band n7, 50 MHz Bandwidth	CP-OFDM, 1 RB, 1 RB Offset	Right	Tilt	F	0.966	0.937	1.03	N/A	N/A	N/A
3500	3500.01	633334	NR Band n77 DoD, 100 MHz Bandwidth	DFT-s-OFDM, QPSK, 135 RB, 138 RB Offset	Right	Tilt	F	1.100	1.020	1.08	N/A	N/A	N/A
3700	3679.98	645332	NR Band n48, 40 MHz Bandwidth	DFT-s-OFDM, QPSK, 50 RB, 28 RB Offset	Right	Cheek	F	1.070	1.010	1.06	N/A	N/A	N/A
3900	3930.00	662000	NR Band n77, 100 MHz Bandwidth	CP-OFDM, 1 RB, 1 RB Offset	Right	Tilt	F	0.986	0.947	1.04	N/A	N/A	N/A
ANSI / IEEE C95.1 1992 - SAFETY LIMIT						Head							
Spatial Peak						1.6 W/kg (mW/g)							
Uncontrolled Exposure/General Population						averaged over 1 gram							

Table 14-2
Body SAR Measurement Variability Results

BODY VARIABILITY RESULTS													
Band	FREQUENCY		Mode	Service	Side	Spacing	Antenna Config	Measured SAR (1g)	1st Repeated SAR (1g)	Ratio	2nd Repeated SAR (1g)	Ratio	3rd Repeated SAR (1g)
	MHz	Ch.						(W/kg)	(W/kg)		(W/kg)		(W/kg)
1750	1745.00	349000	NR Band n66, 45 MHz Bandwidth	CP-OFDM, QPSK, 1 RB, 1 RB Offset	Bottom	10	A	0.980	0.934	1.05	N/A	N/A	N/A
1900	1907.60	9538	UMTS 1900	RMC	Bottom	10	A	0.943	0.941	1.00	N/A	N/A	N/A
ANSI / IEEE C95.1 1992 - SAFETY LIMIT						Body							
Spatial Peak						1.6 W/kg (mW/g)							
Uncontrolled Exposure/General Population						averaged over 1 gram							

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Table 14-3
Phablet SAR Measurement Variability Results

PHABLET VARIABILITY RESULTS														
Band	FREQUENCY		Mode	Service	Side	Spacing	Antenna Config	Measured SAR (10g)	1st Repeated SAR (10g)	Ratio	2nd Repeated SAR (10g)	Ratio	3rd Repeated SAR (10g)	Ratio
	MHz	Ch.						(W/kg)	(W/kg)		(W/kg)		(W/kg)	
1640	1626.60	261505	NTN Band 255	CW	Top	0	F	3.600	3.600	1.00	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							

14.2 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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15 ADDITIONAL TESTING PER FCC GUIDANCE

15.1 Tuner Testing

Per April 2019 TCB Workshop Notes, the following test procedures were followed to demonstrate that the SAR results in Section 12 represented the appropriate SAR test conditions. For bands with dynamic tuning implemented, SAR was measured according to the required FCC SAR test procedures with the dynamic tuner active to allow the device to automatically tune to the antenna state for the respective RF exposure test configurations. Additional single point SAR time-sweep measurements were evaluated for other tuner states to determine that the other tuner configurations would result in equivalent or lower SAR values. The additional tuner hardware has no influence on the antenna characteristics, other than impedance matching.

To evaluate all the tuner states, the 143 tuner states were divided among the aggregate band, mode and exposure combinations. Single point time-sweep measurements were performed at the peak SAR location determined by the zoom scan of the configuration with the highest measured SAR for each combination. The tuner state was able to be established remotely so that the device was not moved for the entire series of single point SAR for the tuner states in each combination. The SAR probe remained stationary at the same position throughout the entire series of single point measurements for each combination. When the single point SAR or 1g SAR was > 1.2 W/kg for a particular band/mode/exposure condition, point SAR measurements were made for all 143 states.

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

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Table 15-1
UMTS Supplemental Head SAR Data

Supplemental Head SAR Data					
UMTS B5		UMTS B4		UMTS B2	
RMC		RMC		RMC	
Test Position	Left Cheek	Test Position	Right Cheek	Test Position	Right Cheek
Frequency (MHz)	836.60	Frequency (MHz)	1752.60	Frequency (MHz)	1907.60
Channel	4183	Channel	1513	Channel	9538
Measured 1g SAR (W/kg)	0.109	Measured 1g SAR (W/kg)	0.098	Measured 1g SAR (W/kg)	0.095
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)	
Auto-tune (State 63)	0.116	Auto-tune (State 99)	0.107	Auto-tune (State 115)	0.112
Default (State 0)	0.092	Default (State 0)	0.081	Default (State 0)	0.080
State 0	0.092	State 1	0.069	State 2	0.072
State 47	0.072	State 46	0.098	State 45	0.092
State 63	0.103	State 94	0.019	State 93	0.012
State 95	0.072	State 97	0.014	State 98	0.008
State 96	0.066	State 99	0.118	State 115	0.086
State 117	0.093	State 118	0.100	State 119	0.012
State 141	0.089	State 142	0.091	State 141	0.101

Table 15-2
LTE Supplemental Head SAR Data

Supplemental Head SAR Data							
LTE B71		LTE B12		LTE B13		LTE B14	
QPSK, 20 MHz Bandwidth, 1 RB, 50 RB Offset		QPSK, 10 MHz Bandwidth, 1 RB, 25 RB Offset		QPSK, 10 MHz Bandwidth, 1 RB, 0 RB Offset		QPSK, 10 MHz Bandwidth, 1 RB, 25 RB Offset	
Test Position	Right Cheek	Test Position	Right Cheek	Test Position	Left Cheek	Test Position	Left Cheek
Frequency (MHz)	680.50	Frequency (MHz)	707.50	Frequency (MHz)	782.00	Frequency (MHz)	793.00
Channel	133297	Channel	23095	Channel	23230	Channel	23330
Measured 1g SAR (W/kg)	0.128	Measured 1g SAR (W/kg)	0.139	Measured 1g SAR (W/kg)	0.132	Measured 1g SAR (W/kg)	0.130
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)	
Auto-tune (State 28)	0.121	Auto-tune (State 124)	0.121	Auto-tune (State 0)	0.127	Auto-tune (State 117)	0.117
Default (State 0)	0.101	Default (State 0)	0.112	Default (State 0)	0.097	Default (State 0)	0.119
State 3	0.063	State 4	0.067	State 0	0.097	State 6	0.075
State 19	0.066	State 43	0.043	State 5	0.081	State 22	0.080
State 28	0.127	State 91	0.123	State 42	0.036	State 41	0.055
State 44	0.034	State 99	0.113	State 90	0.051	State 54	0.080
State 51	0.040	State 120	0.133	State 100	0.055	State 82	0.084
State 79	0.044	State 124	0.137	State 121	0.083	State 89	0.015
State 92	0.116	State 140	0.101	State 139	0.035	State 117	0.118

Supplemental Head SAR Data					
LTE B26		LTE B66		LTE B25	
QPSK, 15 MHz Bandwidth, 1 RB, 36 RB Offset		QPSK, 20 MHz Bandwidth, 1 RB, 50 RB Offset		QPSK, 20 MHz Bandwidth, 1 RB, 50 RB Offset	
Test Position	Left Cheek	Test Position	Right Cheek	Test Position	Right Cheek
Frequency (MHz)	831.50	Frequency (MHz)	1720.00	Frequency (MHz)	1860.00
Channel	26865	Channel	132072	Channel	26140
Measured 1g SAR (W/kg)	0.115	Measured 1g SAR (W/kg)	0.113	Measured 1g SAR (W/kg)	0.129
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)	
Auto-tune (State 63)	0.114	Auto-tune (State 99)	0.117	Auto-tune (State 109)	0.136
Default (State 0)	0.101	Default (State 0)	0.085	Default (State 0)	0.088
State 7	0.051	State 11	0.096	State 13	0.114
State 40	0.063	State 36	0.018	State 34	0.092
State 63	0.107	State 84	0.096	State 82	0.130
State 88	0.034	State 99	0.120	State 104	0.120
State 101	0.090	State 103	0.112	State 109	0.125
State 122	0.053	State 124	0.097	State 125	0.015
State 138	0.053	State 136	0.031	State 135	0.132

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Table 15-3
NR Supplemental Head SAR Data

Supplemental Head SAR Data							
NR Band n71		NR Band n12		NR Band n14		NR Band n26	
DFT-s-OFDM QPSK, 35 MHz Bandwidth, 90 RB, 49 RB Offset		DFT-s-OFDM QPSK, 15 MHz Bandwidth, 1 RB, 40 RB Offset		DFT-s-OFDM QPSK, 10 MHz Bandwidth, 1 RB, 1 RB Offset		DFT-OFDM QPSK, 20 MHz Bandwidth, 50 RB, 28 RB Offset	
Test Position	Right Cheek	Test Position	Left Cheek	Test Position	Left Cheek	Test Position	Left Cheek
Frequency (MHz)	680.50	Frequency (MHz)	707.50	Frequency (MHz)	793.00	Frequency (MHz)	831.50
Channel	136100	Channel	141500	Channel	158600	Channel	166300
Measured 1g SAR (W/kg)	0.101	Measured 1g SAR (W/kg)	0.143	Measured 1g SAR (W/kg)	0.102	Measured 1g SAR (W/kg)	0.090
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)	
Auto-tune (State 137)	0.099	Auto-tune (State 27)	0.149	Auto-tune (State 117)	0.109	Auto-tune (State 63)	0.093
Default (State 0)	0.088	Default (State 0)	0.125	Default (State 0)	0.101	Default (State 0)	0.083
State 15	0.013	State 16	0.013	State 17	0.016	State 18	0.075
State 31	0.093	State 27	0.144	State 30	0.089	State 29	0.084
State 32	0.086	State 31	0.118	State 33	0.068	State 34	0.059
State 63	0.104	State 32	0.108	State 65	0.091	State 63	0.085
State 80	0.025	State 64	0.132	State 78	0.039	State 66	0.079
State 94	0.061	State 79	0.039	State 94	0.074	State 77	0.036
State 137	0.105	State 95	0.067	State 117	0.100	State 93	0.066

Supplemental Head SAR Data					
NR Band n70		NR Band n66		NR Band n25	
DFT-s-OFDM QPSK, 15 MHz Bandwidth, 36 RB, 22 RB Offset		DFT-s-OFDM QPSK, 45 MHz Bandwidth, 1 RB, 121 RB Offset		DFT-S-OFDM QPSK, 40 MHz Bandwidth, 108 RB, 54 RB Offset	
Test Position	Right Cheek	Test Position	Right Cheek	Test Position	Right Cheek
Frequency (MHz)	1702.50	Frequency (MHz)	1745.00	Frequency (MHz)	1882.50
Channel	340500	Channel	349000	Channel	376500
Measured 1g SAR (W/kg)	0.118	Measured 1g SAR (W/kg)	0.108	Measured 1g SAR (W/kg)	0.101
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)	
Auto-tune (State 100)	0.131	Auto-tune (State 99)	0.122	Auto-tune (State 112)	0.115
Default (State 0)	0.104	Default (State 0)	0.087	Default (State 0)	0.106
State 20	0.017	State 21	0.009	State 22	0.010
State 27	0.130	State 26	0.001	State 25	0.004
State 36	0.017	State 74	0.007	State 73	0.010
State 68	0.104	State 99	0.116	State 107	0.076
State 75	0.011	State 106	0.093	State 112	0.104
State 91	0.128	State 127	0.022	State 128	0.105
State 100	0.134	State 133	0.100	State 132	0.019

Table 15-4
UMTS Supplemental Body SAR Data

Supplemental Body SAR Data					
UMTS B5		UMTS B4		UMTS B2	
RMC		RMC		RMC	
Test Position	Back	Test Position	Bottom	Test Position	Bottom
Spacing	10 mm	Spacing	10 mm	Spacing	10 mm
Frequency (MHz)	836.60	Frequency (MHz)	1752.60	Frequency (MHz)	1907.60
Channel	4183	Channel	1513	Channel	9538
Measured 1g SAR (W/kg)	0.206	Measured 1g SAR (W/kg)	0.938	Measured 1g SAR (W/kg)	0.943
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)	
Auto-tune (State 133)	0.225	Auto-tune (State 99)	1.030	Auto-tune (State 49)	1.040
Default (State 0)	0.194	Default (State 0)	0.721	Default (State 0)	0.751
State 23	0.121	State 22	0.146	State 21	0.130
State 24	0.107	State 25	0.110	State 26	0.071
State 72	0.165	State 70	0.721	State 49	1.030
State 108	0.094	State 99	1.050	State 69	0.615
State 129	0.094	State 109	0.683	State 110	0.867
State 131	0.165	State 130	0.716	State 129	0.843
State 133	0.212	State 132	0.206	State 133	0.828

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Table 15-5
LTE Supplemental Body SAR Data

Supplemental Body SAR Data							
LTE B71		LTE B12		LTE B13		LTE B14	
QPSK, 20 MHz Bandwidth, 1 RB, 50 RB Offset		QPSK, 10 MHz Bandwidth, 1 RB, 25 RB Offset		QPSK, 10 MHz Bandwidth, 1 RB, 0 RB Offset		QPSK, 10 MHz Bandwidth, 1 RB, 25 RB Offset	
Test Position	Back	Test Position	Back	Test Position	Back	Test Position	Back
Spacing	10 mm	Spacing	10 mm	Spacing	10 mm	Spacing	10 mm
Frequency (MHz)	680.50	Frequency (MHz)	707.50	Frequency (MHz)	782.00	Frequency (MHz)	793.00
Channel	133297	Channel	23095	Channel	23230	Channel	23330
Measured 1g SAR (W/kg)	0.229	Measured 1g SAR (W/kg)	0.235	Measured 1g SAR (W/kg)	0.289	Measured 1g SAR (W/kg)	0.291
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)	
Auto-tune (State 137)	0.204	Auto-tune (State 124)	0.222	Auto-tune (State 0)	0.269	Auto-tune (State 117)	0.295
Default (State 0)	0.168	Default (State 0)	0.184	Default (State 0)	0.306	Default (State 0)	0.293
State 20	0.103	State 19	0.140	State 0	0.306	State 17	0.046
State 27	0.188	State 28	0.200	State 18	0.181	State 30	0.249
State 43	0.070	State 67	0.156	State 29	0.202	State 46	0.208
State 68	0.151	State 111	0.137	State 66	0.211	State 65	0.264
State 75	0.116	State 124	0.258	State 112	0.163	State 78	0.114
State 84	0.094	State 128	0.181	State 127	0.137	State 81	0.152
State 137	0.239	State 134	0.185	State 135	0.084	State 117	0.289

Supplemental Body SAR Data					
LTE B26		LTE B66		LTE B25	
QPSK, 15 MHz Bandwidth, 1 RB, 36 RB Offset		QPSK, 20 MHz Bandwidth, 1 RB, 0 RB Offset		QPSK, 20 MHz Bandwidth, 1 RB, 50 RB Offset	
Test Position	Back	Test Position	Bottom	Test Position	Bottom
Spacing	10 mm	Spacing	10 mm	Spacing	10 mm
Frequency (MHz)	831.50	Frequency (MHz)	1770.00	Frequency (MHz)	1905.00
Channel	26865	Channel	132572	Channel	26590
Measured 1g SAR (W/kg)	0.243	Measured 1g SAR (W/kg)	0.953	Measured 1g SAR (W/kg)	0.888
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)	
Auto-tune (State 63)	0.277	Auto-tune (State 99)	0.965	Auto-tune (State 112)	0.958
Default (State 0)	0.267	Default (State 0)	0.743	Default (State 0)	0.704
State 16	0.065	State 12	0.831	State 10	0.945
State 31	0.257	State 35	0.773	State 37	0.138
State 63	0.281	State 60	0.196	State 58	0.167
State 64	0.276	State 99	0.965	State 112	0.943
State 113	0.183	State 115	0.784	State 116	0.807
State 126	0.157	State 124	0.85	State 123	0.204
State 136	0.201	State 138	0.155	State 139	0.954

Table 15-6
NR Supplemental Body SAR Data

Supplemental Body SAR Data							
NR Band n71		NR Band n12		NR Band n14		NR Band n26	
DFT-OFDM QPSK, 35 MHz Bandwidth, 90 RB, 49 RB Offset		DFT-OFDM QPSK, 15 MHz Bandwidth, 36 RB, 22 RB Offset		DFT-OFDM QPSK, 10 MHz Bandwidth, 25 RB, 14 RB Offset		DFT-OFDM QPSK, 20 MHz Bandwidth, 1 RB, 53 RB Offset	
Test Position	Right	Test Position	Back	Test Position	Back	Test Position	Back
Spacing	10 mm	Spacing	10 mm	Spacing	10 mm	Spacing	10 mm
Frequency (MHz)	680.50	Frequency (MHz)	707.50	Frequency (MHz)	793.00	Frequency (MHz)	831.50
Channel	136100	Channel	141500	Channel	158600	Channel	166300
Measured 1g SAR (W/kg)	0.218	Measured 1g SAR (W/kg)	0.215	Measured 1g SAR (W/kg)	0.281	Measured 1g SAR (W/kg)	0.234
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)	
Auto-tune (State 64)	0.235	Auto-tune (State 63)	0.242	Auto-tune (State 117)	0.306	Auto-tune (State 63)	0.207
Default (State 0)	0.193	Default (State 0)	0.249	Default (State 0)	0.322	Default (State 0)	0.228
State 8	0.053	State 7	0.089	State 6	0.202	State 5	0.151
State 39	0.140	State 40	0.144	State 41	0.142	State 42	0.109
State 55	0.149	State 55	0.209	State 54	0.215	State 53	0.060
State 56	0.150	State 56	0.205	State 57	0.263	State 58	0.199
State 64	0.218	State 63	0.282	State 70	0.183	State 63	0.247
State 72	0.184	State 71	0.114	State 89	0.045	State 69	0.194
State 87	0.056	State 88	0.032	State 117	0.324	State 90	0.193

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Supplemental Body SAR Data					
NR Band n70		NR Band n66		NR Band n25	
DFTs-OFDM QPSK, 15 MHz Bandwidth, 75 RB, 0 RB Offset		CP-OFDM QPSK, 45 MHz Bandwidth, 1 RB, 1 RB Offset		DFTs-OFDM QPSK, 40 MHz Bandwidth, 108 RB, 0 RB Offset	
Test Position	Bottom	Test Position	Bottom	Test Position	Bottom
Spacing	10 mm	Spacing	10 mm	Spacing	10 mm
Frequency (MHz)	1702.50	Frequency (MHz)	1745.00	Frequency (MHz)	1882.50
Channel	340500	Channel	349000	Channel	376500
Measured 1g SAR (W/kg)	0.919	Measured 1g SAR (W/kg)	0.980	Measured 1g SAR (W/kg)	0.873
Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)	
Auto-tune (State 28)	1.030	Auto-tune (State 28)	1.060	Auto-tune (State 99)	0.984
Default (State 0)	0.748	Default (State 0)	0.872	Default (State 0)	0.672
State 3	0.642	State 2	0.797	State 1	0.626
State 28	0.996	State 28	1.050	State 46	0.913
State 44	0.154	State 61	0.215	State 62	0.101
State 51	0.620	State 101	0.887	State 99	0.968
State 60	0.247	State 118	0.826	State 119	0.144
State 67	0.779	State 121	0.154	State 120	0.896
State 92	0.224	State 141	0.833	State 142	0.854

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16 EQUIPMENT LIST

[illegible]

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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17 MEASUREMENT UNCERTAINTIES

Note: The tables below represent the worst-case uncertainty budget among the uncertainty budgets of all testing laboratories listed in Section 1.2

Applicable for SAR measurements < 6GHz:

a	b	c	d	e = f(d,k)	f	g	h = c x f/e	i = c x g/e	k
Uncertainty Component	IEEE 1528 Sec.	Tol. (± %)	Prob. Dist.	Div.	c _i 1gm	c _i 10 gms	1gm u _i (± %)	10gms u _i (± %)	v _i
Measurement System									
Probe Calibration	E2.1	7	N	1	1	1	7.0	7.0	∞
Axial Isotropy	E2.2	0.25	N	1	0.7	0.7	0.2	0.2	∞
Hemishperical Isotropy	E2.2	1.3	N	1	0.7	0.7	0.9	0.9	∞
Boundary Effect	E2.3	2	R	1.73	1	1	1.2	1.2	∞
Linearity	E2.4	0.3	N	1	1	1	0.3	0.3	∞
System Detection Limits	E2.4	0.25	R	1.73	1	1	0.1	0.1	∞
Modulation Response	E2.5	4.8	R	1.73	1	1	2.8	2.8	∞
Readout Electronics	E2.6	0.3	N	1	1	1	0.3	0.3	∞
Response Time	E2.7	0.8	R	1.73	1	1	0.5	0.5	∞
Integration Time	E2.8	2.6	R	1.73	1	1	1.5	1.5	∞
RF Ambient Conditions - Noise	E6.1	3	R	1.73	1	1	1.7	1.7	∞
RF Ambient Conditions - Reflections	E6.1	3	R	1.73	1	1	1.7	1.7	∞
Probe Positioner Mechanical Tolerance	E6.2	0.8	R	1.73	1	1	0.5	0.5	∞
Probe Positioning w/ respect to Phantom	E6.3	6.7	R	1.73	1	1	3.9	3.9	∞
Extrapolation, Interpolation & Integration algorithms for Max. SAR Evaluation	E5	4	R	1.73	1	1	2.3	2.3	∞
Test Sample Related									
Test Sample Positioning	E4.2	3.12	N	1	1	1	3.1	3.1	35
Device Holder Uncertainty	E4.1	1.67	N	1	1	1	1.7	1.7	5
Output Power Variation - SAR drift measurement	E2.9	5	R	1.73	1	1	2.9	2.9	∞
SAR Scaling	E6.5	0	R	1.73	1	1	0.0	0.0	∞
Phantom & Tissue Parameters									
Phantom Uncertainty (Shape & Thickness tolerances)	E3.1	7.6	R	1.73	1.0	1.0	4.4	4.4	∞
Liquid Conductivity - measurement uncertainty	E3.3	4.3	N	1	0.78	0.71	3.3	3.0	76
Liquid Permittivity - measurement uncertainty	E3.3	4.2	N	1	0.23	0.26	1.0	1.1	75
Liquid Conductivity - Temperature Uncertainty	E3.4	3.4	R	1.73	0.78	0.71	1.5	1.4	∞
Liquid Permittivity - Temperature Uncertainty	E3.4	0.6	R	1.73	0.23	0.26	0.1	0.1	∞
Liquid Conductivity - deviation from target values	E3.2	5.0	R	1.73	0.64	0.43	1.8	1.2	∞
Liquid Permittivity - deviation from target values	E3.2	5.0	R	1.73	0.60	0.49	1.7	1.4	∞
Combined Standard Uncertainty (k=1)	RSS						12.2	12.0	191
Expanded Uncertainty (95% CONFIDENCE LEVEL)	k=2						24.4	24.0	

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

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Applicable for SAR measurements > 6GHz:

a	b	c	d	e= f(d,k)	f	g	h = c x f/e	i = c x g/e	k
Uncertainty Component	IEEE 1528 Sec.	Tol. (± %)	Prob. Dist.	Div.	c _i 1gm	c _i 10 gms	1gm u _i (± %)	10gms u _i (± %)	v _i
Measurement System									
Probe Calibration	E2.1	9.3	N	1	1	1	9.3	9.3	∞
Axial Isotropy	E2.2	0.25	N	1	0.7	0.7	0.2	0.2	∞
Hemishperical Isotropy	E2.2	1.3	N	1	0.7	0.7	0.9	0.9	∞
Boundary Effect	E2.3	2	R	1.73	1	1	1.2	1.2	∞
Linearity	E2.4	0.3	N	1	1	1	0.3	0.3	∞
System Detection Limits	E2.4	0.25	R	1.73	1	1	0.1	0.1	∞
Modulation Response	E2.5	4.8	R	1.73	1	1	2.8	2.8	∞
Readout Electronics	E2.6	0.3	N	1	1	1	0.3	0.3	∞
Response Time	E2.7	0.8	R	1.73	1	1	0.5	0.5	∞
Integration Time	E2.8	2.6	R	1.73	1	1	1.5	1.5	∞
RF Ambient Conditions - Noise	E6.1	3	R	1.73	1	1	1.7	1.7	∞
RF Ambient Conditions - Reflections	E6.1	3	R	1.73	1	1	1.7	1.7	∞
Probe Positioner Mechanical Tolerance	E6.2	0.8	R	1.73	1	1	0.5	0.5	∞
Probe Positioning w/ respect to Phantom	E6.3	6.7	R	1.73	1	1	3.9	3.9	∞
Extrapolation, Interpolation & Integration algorithms for Max. SAR Evaluation	E5	4	R	1.73	1	1	2.3	2.3	∞
Test Sample Related									
Test Sample Positioning	E4.2	3.12	N	1	1	1	3.1	3.1	35
Device Holder Uncertainty	E4.1	1.67	N	1	1	1	1.7	1.7	5
Output Power Variation - SAR drift measurement	E2.9	5	R	1.73	1	1	2.9	2.9	∞
SAR Scaling	E6.5	0	R	1.73	1	1	0.0	0.0	∞
Phantom & Tissue Parameters									
Phantom Uncertainty (Shape & Thickness tolerances)	E3.1	7.6	R	1.73	1.0	1.0	4.4	4.4	∞
Liquid Conductivity - measurement uncertainty	E3.3	4.3	N	1	0.78	0.71	3.3	3.0	76
Liquid Permittivity - measurement uncertainty	E3.3	4.2	N	1	0.23	0.26	1.0	1.1	75
Liquid Conductivity - Temperature Uncertainty	E3.4	3.4	R	1.73	0.78	0.71	1.5	1.4	∞
Liquid Permittivity - Temperature Uncertainty	E3.4	0.6	R	1.73	0.23	0.26	0.1	0.1	∞
Liquid Conductivity - deviation from target values	E3.2	5.0	R	1.73	0.64	0.43	1.8	1.2	∞
Liquid Permittivity - deviation from target values	E3.2	5.0	R	1.73	0.60	0.49	1.7	1.4	∞
Combined Standard Uncertainty (k=1)							RSS	13.8	13.6
Expanded Uncertainty (95% CONFIDENCE LEVEL)							k=2	27.6	27.1

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

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Applicable for Power Density Measurements:

a	b	c	d	e	f = c x f/e	g
Uncertainty Component	Unc. (± dB)	Prob. Dist.	Div.	c _i	u _i (± dB)	v _i
Measurement System						
Calibration	0.49	N	1	1	0.49	∞
Probe Correction	0.00	R	1.73	1	0.00	∞
Frequency Response	0.20	R	1.73	1	0.12	∞
Sensor Cross Coupling	0.00	R	1.73	1	0.00	∞
Isotropy	0.50	R	1.73	1	0.29	∞
Linearity	0.20	R	1.73	1	0.12	∞
Probe Scattering	0.00	R	1.73	1	0.00	∞
Probe Positioning offset	0.30	R	1.73	1	0.17	∞
Probe Positioning Repeatability	0.04	R	1.73	1	0.02	∞
Sensor Mechanical Offset	0.00	R	1.73	1	0.00	∞
Probe Spatial Resolution	0.00	R	1.73	1	0.00	∞
Field Impedance Dependence	0.00	R	1.73	1	0.00	∞
Amplitude and Phase Drift	0.00	R	1.73	1	0.00	∞
Amplitude and Phase Noise	0.04	R	1.73	1	0.02	∞
Measurement Area Truncation	0.00	R	1.73	1	0.00	∞
Data Acquisition	0.03	N	1	1	0.03	∞
Sampling	0.00	R	1.73	1	0.00	∞
Field Reconstruction	2.00	R	1.73	1	1.15	∞
Forward Transformation	0.00	R	1.73	1	0.00	∞
Power Density Scaling	0.00	R	1.73	1	0.00	∞
Spatial Averaging	0.10	R	1.73	1	0.06	∞
System Detection Limit	0.04	R	1.73	1	0.02	∞
Test Sample Related						
Probe Coupling with DUT	0.00	R	1.73	1	0.00	∞
Modulation Response	0.40	R	1.73	1	0.23	∞
Integration Time	0.00	R	1.73	1	0.00	∞
Response Time	0.00	R	1.73	1	0.00	∞
Device Holder Influence	0.10	R	1.73	1	0.06	∞
DUT alignment	0.00	R	1.73	1	0.00	∞
RF Ambient Conditions	0.04	R	1.73	1	0.02	∞
Ambient Reflections	0.04	R	1.73	1	0.02	∞
Immunity/Secondary Reception	0.00	R	1.73	1	0.00	∞
Drift of DUT	0.21	R	1.73	1	0.12	∞
Combined Standard Uncertainty (k=1)					RSS	1.34
Expanded Uncertainty (95% CONFIDENCE LEVEL)					k=2	2.68

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18 CONCLUSION

18.1 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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