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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 SUWON, LTD.
Test Lab Location	Suwon: P136, Tower A, 13, Heungdeok 1-ro, Giheung-gu, Yongin-si, Gyeonggi-do, Republic of Korea
	Unhak2: 5, Dongbu-ro 221beon-gil, Cheoin-gu, Yongin-si, Gyeonggi-do, Republic of 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.	S1, S2, S3, S4, S5

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 12	Voice/Data	699.7 - 715.3 MHz
LTE Band 17	Voice/Data	706.5 - 713.5 MHz
LTE Band 13	Voice/Data	779.5 - 784.5 MHz
LTE Band 26	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 41	Voice/Data	2498.5 - 2687.5 MHz
NR Band n12	Voice/Data	701.5 - 713.5 MHz
NR Band n26	Voice/Data	816.5 - 846.5 MHz
NR Band n5	Voice/Data	826.5 - 846.5 MHz
NR Band n66	Voice/Data	1712.5 - 1777.5 MHz
NR Band n25	Voice/Data	1852.5 - 1912.5 MHz
NR Band n2	Voice/Data	1852.5 - 1907.5 MHz
NR Band n41	Voice/Data	2501.01 - 2685 MHz
NR Band n77	Voice/Data	3455.01 - 3544.98 MHz; 3705 - 3975 MHz
2.4 GHz WIFI	Voice/Data	2412 - 2472 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
WPT	N/A	110 kHz - 148 kHz

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2.2 Time-Averaging Algorithm for RF Exposure Compliance

This Device is enabled with S.LSI TAS feature for 2G/3G/4G/5G modes and with Qualcomm® FastConnect TAS feature for WLAN technologies. 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 S.LSI TAS features and Qualcomm® FastConnect TAS features. (report SN could be found in Section 2.11 – Bibliography).

Note that Bluetooth, NFC, UWB, and WPT operations are not enabled with TAS.

The S.LSI TAS algorithm maintains the time-averaged transmit power, in turn, time-averaged RF exposure of SAR_design_target, below the predefined time-averaged power limit (i.e., Plimit for sub-6 radio), for each characterized technology and band. Characterization is achieved by determining Plimit for WWAN sub-6 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 RF Exposure Part 0 Test Report, report SN can be found in Section 2.11 - Bibliography).

The FastConnect TAS algorithm maintains the time-averaged transmit power, in turn, time-averaged RF exposure of SAR_design_target, below the predefined time-averaged power limit (i.e., Plimit for WLAN), for each characterized technology and band (see RF Exposure Part 0 Test Report, report SN can be found in Section 2.11 - Bibliography).

S.LSI and FastConnect TAS allows the device to transmit at higher power instantaneously, as high as Pmax, when needed, but enforces power limiting to maintain time-averaged transmit power to Plimit. Below table shows Final Plimit settings and maximum tune up output power Pmax configured for this EUT for various transmit conditions (Radio State Index RSI for S.LSI or Device State Index DSI for FastConnect). Note that the device uncertainty for WWAN and WLAN is 1.0dB for this EUT.

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Exposure Scenario Averaging Volume			Maximum Tune-Up Output Power*	Free or Phablet	Head	Hotspot
				1g/10g	1g	1g
Spacing				5mm, 0mm	0mm	5mm, 10mm
				0	1	2
RSI						
Technology/Band	Antenna	Antenna Group	P _{max}	P _{limit}	P _{limit}	P _{limit}
GSM 850	A	AG0	24.6	24.8	33.5	24.8
GSM 850	E	AG1	24.6	18.6	19.6	18.6
GSM 1900	A	AG0	21.6	18.3	31.3	18.3
UMTS 850	A	AG0	24.0	24.2	23.0	24.2
UMTS 850	E	AG1	24.0	19.5	19.0	19.5
UMTS 1750	A	AG0	23.0	17.5	31.4	17.5
UMTS 1750	F	AG1	23.0	18.0	16.0	18.0
UMTS 1900	A	AG0	23.0	17.0	32.0	17.0
LTE Band 12/17	A	AG0	24.0	24.2	33.5	24.2
LTE Band 12	E	AG1	24.0	19.0	19.0	19.0
LTE Band 17	E	AG1	24.0	20.5	19.0	20.5
LTE Band 13	A	AG0	23.0	25.1	33.3	25.1
LTE Band 13	E	AG1	23.0	19.5	18.0	19.5
LTE Band 26/5	A	AG0	24.0	23.0	32.5	23.0
LTE Band 26/5	E	AG1	24.0	20.5	19.0	20.5
LTE Band 66	A	AG0	23.5	17.5	31.1	17.5
LTE Band 66/4	F	AG1	23.5	18.5	16.0	18.5
LTE Band 4	A	AG0	23.5	17.5	23.0	17.5
LTE Band 25/2	A	AG0	23.0	17.0	31.8	17.0
LTE Band 25/2	F	AG1	23.0	20.0	16.5	20.0
LTE Band 41 PC3	B	AG0	22.0	17.5	30.4	17.5
LTE Band 41 PC3	F	AG1	22.0	14.5	13.0	14.5
LTE Band 41 PC2	B	AG0	21.4	17.5	30.4	17.5
LTE Band 41 PC2	F	AG1	21.4	14.5	13.0	14.5
NR Band n12	A	AG0	24.0	24.9	32.9	24.9
NR Band n12	E	AG1	23.5	20.0	19.0	20.0
NR Band n26	A	AG0	24.5	25.0	32.1	25.0
NR Band n26	E	AG1	24.5	19.0	20.0	19.0
NR Band n5	A	AG0	23.5	25.0	32.1	25.0
NR Band n5	E	AG1	23.5	19.0	20.0	19.0
NR Band n66	A	AG0	24.0	18.5	23.0	18.5
NR Band n66	F	AG1	23.0	20.0	16.0	20.0
NR Band n25/n2	A	AG0	23.5	18.0	32.9	18.0
NR Band n25/n2	F	AG1	23.0	20.0	16.5	20.0
NR Band n41 PC3 (Path 1)	F	AG1	24.0	18.0	16.0	18.0
NR Band n41 PC3 (Path 1)	B	AG0	22.0	17.0	21.5	17.0
NR Band n41 PC3 (Path 1)	E	AG1	22.0	15.5	15.0	15.5
NR Band n41 PC3 (Path 1)	D	AG0	22.0	17.5	17.5	17.5
NR Band n41 PC3 (Path 2)	B	AG0	24.0	17.0	21.5	17.0
NR Band n41 PC3 (Path 2)	F	AG1	22.0	18.0	16.0	18.0
NR Band n41 PC3 (Path 2)	E	AG1	22.0	15.5	15.0	15.5
NR Band n41 PC3 (Path 2)	D	AG0	22.0	17.5	17.5	17.5
NR Band n77 PC3	F	AG1	24.0	15.0	14.0	15.0
NR Band n77 PC3	C	AG0	22.0	18.0	17.0	18.0
NR Band n77 PC3	H	AG1	21.0	13.0	13.0	13.0
NR Band n77 PC3	D	AG0	22.0	13.0	15.0	13.0
NR Band n77 PC2	F	AG1	26.0	15.0	14.0	15.0
NR Band n77 PC2	C	AG0	22.0	18.0	17.0	18.0
NR Band n77 PC2	H	AG1	21.0	13.0	13.0	13.0
NR Band n77 PC2	D	AG0	22.0	13.0	15.0	13.0

*Note all Final Plimit and maximum tune up output power Pmax levels entered in above Table correspond to average power levels after accounting for duty cycle in the case of TDD modulation schemes (e.g. GSM and LTE TDD).

*Maximum tune up output power Pmax is used to configure EUT during RF tune up procedure. The maximum allowed output power is equal to maximum Tune up output power + 1dB device design uncertainty.

The maximum time-averaged output power (dBm) for any Sub6 WWAN/WLAN technology, band, and RSI = minimum of "final Plimit " and "Maximum tune up output power Pmax " + 1dB device uncertainty. SAR values in this report were scaled to this maximum time-averaged output power to determine compliance per KDB Publication 447498 D04v01.

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Exposure Scenario		Maximum Tune-Up Output Power*	Free, Hotspot or Phablet	Head
Averaging Volume			1g/10g	1g
Spacing			10mm, 5mm, 0mm	0mm
DSI			0	1
Technology/Band	Antenna	P _{max}	P _{limit}	P _{limit}
2.4 GHz WIFI	G	19.0	15.0	13.0
2.4 GHz WIFI	I	19.0	15.0	13.0
2.4 GHz WIFI	MIMO	19.0	15.0	13.0
5 GHz WIFI	G	17.0	11.0	11.0
5 GHz WIFI	E	17.0	11.0	11.0
5 GHz WIFI	MIMO	17.0	11.0	11.0
6 GHz WIFI	G	15.0	9.0	9.0
6 GHz WIFI	E	15.0	9.0	9.0
6 GHz WIFI	MIMO	15.0	9.0	9.0

All MIMO Pmax and Plimit are defined per antenna chain.

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

2.3 Power Reduction for SAR

This device uses an independent fixed level power reduction mechanism for Bluetooth operations during held to ear scenarios. Per FCC Guidance, the held-to-ear exposure conditions were evaluated at reduced power according to the head SAR positions described in IEEE 1528-2013. Detailed descriptions of the power reduction mechanism are included in the operational description.

2.4 Nominal and Maximum Output Power Specifications

This device operates using the following maximum and nominal output power specifications. SAR values were scaled to the maximum allowed power to determine compliance per KDB Publication 447498 D04v01.

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

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2.4.1 WWAN 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	33.8	33.8	31.5	30.0	28.5	27.5	26.0	24.0	23.0
	Nominal	32.8	32.8	30.5	29.0	27.5	26.5	25.0	23.0	22.0
RSI = 0 (Free or Phablet)	Max Allowed Power	33.8	33.8	31.5	30.0	28.5	27.5	26.0	24.0	23.0
	Nominal	32.8	32.8	30.5	29.0	27.5	26.5	25.0	23.0	22.0
RSI = 1 (Head)	Max Allowed Power	33.8	33.8	31.5	30.0	28.5	27.5	26.0	24.0	23.0
	Nominal	32.8	32.8	30.5	29.0	27.5	26.5	25.0	23.0	22.0
RSI = 2 (Hotspot)	Max Allowed Power	N/A	33.8	31.5	30.0	28.5	27.5	26.0	24.0	23.0
	Nominal	N/A	32.8	30.5	29.0	27.5	26.5	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	33.8	33.8	31.5	30.0	28.5	27.5	26.0	24.0	23.0
	Nominal	32.8	32.8	30.5	29.0	27.5	26.5	25.0	23.0	22.0
RSI = 0 (Free or Phablet)	Max Allowed Power	28.8	28.8	25.8	23.8	22.8	27.5	25.5	24.0	22.5
	Nominal	27.8	27.8	24.8	22.8	21.8	26.5	24.5	23.0	21.5
RSI = 1 (Head)	Max Allowed Power	29.8	29.8	26.8	24.8	23.8	27.5	25.5	24.0	23.0
	Nominal	28.8	28.8	25.8	23.8	22.8	26.5	24.5	23.0	22.0
RSI = 2 (Hotspot)	Max Allowed Power	N/A	28.8	25.8	23.8	22.8	27.5	25.5	24.0	22.5
	Nominal	N/A	27.8	24.8	22.8	21.8	26.5	24.5	23.0	21.5
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	28.5	27.0	25.0	26.3	25.0	23.0	22.0
	Nominal	29.5	29.5	27.5	26.0	24.0	25.3	24.0	22.0	21.0
RSI = 0 (Free or Phablet)	Max Allowed Power	28.5	28.5	25.5	23.5	22.5	26.0	24.0	22.5	21.5
	Nominal	27.5	27.5	24.5	22.5	21.5	25.0	23.0	21.5	20.5
RSI = 1 (Head)	Max Allowed Power	30.5	30.5	28.5	27.0	25.0	26.3	25.0	23.0	22.0
	Nominal	29.5	29.5	27.5	26.0	24.0	25.3	24.0	22.0	21.0
RSI = 2 (Hotspot)	Max Allowed Power	N/A	28.5	25.5	23.5	22.5	26.0	24.0	22.5	21.5
	Nominal	N/A	27.5	24.5	22.5	21.5	25.0	23.0	21.5	20.5

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 (in dBm)			
		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
RSI = 0 (Free or Phablet)	Max Allowed Power	25.0	24.0	24.0	24.0
	Nominal	24.0	23.0	23.0	23.0
RSI = 1 (Head)	Max Allowed Power	24.0	22.5	22.0	22.5
	Nominal	23.0	21.5	21.0	21.5
RSI = 2 (Hotspot)	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 (in dBm)			
		3GPP WCDMA Rel 99	3GPP HSDPA Rel 5	3GPP HSUPA Rel 6	3GPP DC- HSDPA Rel 8
Pmax	Max Allowed Power	25.0	24.5	24.5	24.5
	Nominal	24.0	23.5	23.5	23.5
RSI = 0 (Free or Phablet)	Max Allowed Power	20.5	20.0	20.0	20.0
	Nominal	19.5	19.0	19.0	19.0
RSI = 1 (Head)	Max Allowed Power	20.0	19.5	19.5	19.5
	Nominal	19.0	18.5	18.5	18.5
RSI = 2 (Hotspot)	Max Allowed Power	20.5	20.0	20.0	20.0
	Nominal	19.5	19.0	19.0	19.0
UMTS Band 4 (1750 MHz)					
Antenna A					
Power Level		Modulated Average Output Power (in dBm)			
		3GPP WCDMA Rel 99	3GPP HSDPA Rel 5	3GPP HSUPA Rel 6	3GPP DC- HSDPA Rel 8
Pmax	Max Allowed Power	24.0	23.0	22.5	23.0
	Nominal	23.0	22.0	21.5	22.0
RSI = 0 (Free or Phablet)	Max Allowed Power	18.5	18.0	18.0	18.0
	Nominal	17.5	17.0	17.0	17.0
RSI = 1 (Head)	Max Allowed Power	24.0	23.0	22.5	23.0
	Nominal	23.0	22.0	21.5	22.0
RSI = 2 (Hotspot)	Max Allowed Power	18.5	18.0	18.0	18.0
	Nominal	17.5	17.0	17.0	17.0
UMTS Band 4 (1750 MHz)					
Antenna F					
Power Level		Modulated Average Output Power (in dBm)			
		3GPP WCDMA Rel 99	3GPP HSDPA Rel 5	3GPP HSUPA Rel 6	3GPP DC- HSDPA Rel 8
Pmax	Max Allowed Power	24.0	23.5	23.5	23.5
	Nominal	23.0	22.5	22.5	22.5
RSI = 0 (Free or Phablet)	Max Allowed Power	19.0	18.5	18.5	18.5
	Nominal	18.0	17.5	17.5	17.5
RSI = 1 (Head)	Max Allowed Power	17.0	16.5	16.5	16.5
	Nominal	16.0	15.5	15.5	15.5
RSI = 2 (Hotspot)	Max Allowed Power	19.0	18.5	18.5	18.5
	Nominal	18.0	17.5	17.5	17.5
UMTS Band 2 (1900 MHz)					
Antenna A					
Power Level		Modulated Average Output Power (in dBm)			
		3GPP WCDMA Rel 99	3GPP HSDPA Rel 5	3GPP HSUPA Rel 6	3GPP DC- HSDPA Rel 8
Pmax	Max Allowed Power	24.0	23.0	22.5	23.0
	Nominal	23.0	22.0	21.5	22.0
RSI = 0 (Free or Phablet)	Max Allowed Power	18.0	17.5	17.5	17.5
	Nominal	17.0	16.5	16.5	16.5
RSI = 1 (Head)	Max Allowed Power	24.0	23.0	22.5	23.0
	Nominal	23.0	22.0	21.5	22.0
RSI = 2 (Hotspot)	Max Allowed Power	18.0	17.5	17.5	17.5
	Nominal	17.0	16.5	16.5	16.5

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Mode / Band	Antenna		Modulated Average Output Power (in dBm)			
			Pmax	RSI = 0 (Free or Phablet)	RSI = 1 (Head)	RSI = 2 (Hotspot)
LTE Band 12/17	A	Max Allowed Power	25.0	25.0	25.0	25.0
		Nominal	24.0	24.0	24.0	24.0
LTE Band 12	E	Max Allowed Power	25.0	20.0	20.0	20.0
		Nominal	24.0	19.0	19.0	19.0
LTE Band 17	E	Max Allowed Power	25.0	21.5	20.0	21.5
		Nominal	24.0	20.5	19.0	20.5
LTE Band 13	A	Max Allowed Power	24.0	24.0	24.0	24.0
		Nominal	23.0	23.0	23.0	23.0
LTE Band 13	E	Max Allowed Power	24.0	20.5	19.0	20.5
		Nominal	23.0	19.5	18.0	19.5
LTE Band 26/5	A	Max Allowed Power	25.0	24.0	25.0	24.0
		Nominal	24.0	23.0	24.0	23.0
LTE Band 26/5	E	Max Allowed Power	25.0	21.5	20.0	21.5
		Nominal	24.0	20.5	19.0	20.5
LTE Band 66	A	Max Allowed Power	24.5	18.5	24.5	18.5
		Nominal	23.5	17.5	23.5	17.5
LTE Band 66/4	F	Max Allowed Power	24.5	19.5	17.0	19.5
		Nominal	23.5	18.5	16.0	18.5
LTE Band 4	A	Max Allowed Power	24.5	18.5	24.0	18.5
		Nominal	23.5	17.5	23.0	17.5
LTE Band 25/2	A	Max Allowed Power	24.0	18.0	24.0	18.0
		Nominal	23.0	17.0	23.0	17.0
LTE Band 25/2	F	Max Allowed Power	24.0	21.0	17.5	21.0
		Nominal	23.0	20.0	16.5	20.0
LTE Band 41 PC3	B	Max Allowed Power	25.0	20.5	25.0	20.5
		Nominal	24.0	19.5	24.0	19.5
LTE Band 41 PC3	F	Max Allowed Power	25.0	17.5	16.0	17.5
		Nominal	24.0	16.5	15.0	16.5
LTE Band 41 PC2	B	Max Allowed Power	26.0	22.1	26.0	22.1
		Nominal	25.0	21.1	25.0	21.1
LTE Band 41 PC2	F	Max Allowed Power	26.0	19.1	17.6	19.1
		Nominal	25.0	18.1	16.6	18.1

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Mode / Band	Antenna		Modulated Average Output Power (in dBm)			
			Pmax	RSI = 0 (Free or Phablet)	RSI = 1 (Head)	RSI = 2 (Hotspot)
NR Band n12	A	Max Allowed Power	25.0	25.0	25.0	25.0
		Nominal	24.0	24.0	24.0	24.0
NR Band n12	E	Max Allowed Power	24.5	21.0	20.0	21.0
		Nominal	23.5	20.0	19.0	20.0
NR Band n26	A	Max Allowed Power	25.5	25.5	25.5	25.5
		Nominal	24.5	24.5	24.5	24.5
NR Band n26	E	Max Allowed Power	25.5	20.0	21.0	20.0
		Nominal	24.5	19.0	20.0	19.0
NR Band n5	A	Max Allowed Power	24.5	24.5	24.5	24.5
		Nominal	23.5	23.5	23.5	23.5
NR Band n5	E	Max Allowed Power	24.5	20.0	21.0	20.0
		Nominal	23.5	19.0	20.0	19.0
NR Band n66	A	Max Allowed Power	25.0	19.5	24.0	19.5
		Nominal	24.0	18.5	23.0	18.5
NR Band n66	F	Max Allowed Power	24.0	21.0	17.0	21.0
		Nominal	23.0	20.0	16.0	20.0
NR Band n25/n2	A	Max Allowed Power	24.5	19.0	24.5	19.0
		Nominal	23.5	18.0	23.5	18.0
NR Band n25/n2	F	Max Allowed Power	24.0	21.0	17.5	21.0
		Nominal	23.0	20.0	16.5	20.0
NR Band n41 PC3 (Path 1)	F	Max Allowed Power	25.0	19.0	17.0	19.0
		Nominal	24.0	18.0	16.0	18.0
NR Band n41 PC3 (Path 1)	B	Max Allowed Power	23.0	18.0	22.5	18.0
		Nominal	22.0	17.0	21.5	17.0
NR Band n41 PC3 (Path 1)	E	Max Allowed Power	23.0	16.5	16.0	16.5
		Nominal	22.0	15.5	15.0	15.5
NR Band n41 PC3 (Path 1)	D	Max Allowed Power	23.0	18.5	18.5	18.5
		Nominal	22.0	17.5	17.5	17.5
NR Band n41 PC3 (Path 2)	F	Max Allowed Power	23.0	19.0	17.0	19.0
		Nominal	22.0	18.0	16.0	18.0
NR Band n41 PC3 (Path 2)	B	Max Allowed Power	25.0	18.0	22.5	18.0
		Nominal	24.0	17.0	21.5	17.0
NR Band n41 PC3 (Path 2)	E	Max Allowed Power	23.0	16.5	16.0	16.5
		Nominal	22.0	15.5	15.0	15.5
NR Band n41 PC3 (Path 2)	D	Max Allowed Power	23.0	18.5	18.5	18.5
		Nominal	22.0	17.5	17.5	17.5
NR Band n77 PC3	F	Max Allowed Power	25.0	16.0	15.0	16.0
		Nominal	24.0	15.0	14.0	15.0
NR Band n77 PC3	C	Max Allowed Power	23.0	19.0	18.0	19.0
		Nominal	22.0	18.0	17.0	18.0
NR Band n77 PC3	H	Max Allowed Power	23.0	14.0	14.0	14.0
		Nominal	22.0	13.0	13.0	13.0
NR Band n77 PC3	D	Max Allowed Power	22.0	14.0	16.0	14.0
		Nominal	21.0	13.0	15.0	13.0
NR Band n77 PC2	F	Max Allowed Power	27.0	16.0	15.0	16.0
		Nominal	26.0	15.0	14.0	15.0
NR Band n77 PC2	C	Max Allowed Power	23.0	19.0	18.0	19.0
		Nominal	22.0	18.0	17.0	18.0
NR Band n77 PC2	H	Max Allowed Power	23.0	14.0	14.0	14.0
		Nominal	22.0	13.0	13.0	13.0
NR Band n77 PC2	D	Max Allowed Power	22.0	14.0	16.0	14.0
		Nominal	21.0	13.0	15.0	13.0

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

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2.4.2 2.4 GHz WLAN Output Power

The below table is applicable in the following conditions:

- Pmax

IEEE 802.11 Maximum Output Power (in dBm)																																											
Model	Band	DSSS												OFDM												OFDM in MIMO																	
		Channel 1						Channel 2						Channel 3						Channel 4						Channel 5						Channel 6						Channel 7					
		Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max							
2.4 GHz WLAN	20.0	19.0	18.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0							
	19.0	18.0	17.0	16.0	15.0	14.0	16.0	15.0	14.0	16.0	15.0	14.0	16.0	15.0	14.0	16.0	15.0	14.0	16.0	15.0	14.0	16.0	15.0	14.0	16.0	15.0	14.0	16.0	15.0	14.0	16.0	15.0	14.0	16.0	15.0	14.0							
	18.0	17.0	16.0	15.0	14.0	13.0	15.0	14.0	13.0	15.0	14.0	13.0	15.0	14.0	13.0	15.0	14.0	13.0	15.0	14.0	13.0	15.0	14.0	13.0	15.0	14.0	13.0	15.0	14.0	13.0	15.0	14.0	13.0	15.0	14.0	13.0							
4.9 GHz WLAN	20.0	19.0	18.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0							
5.8 GHz WLAN	20.0	19.0	18.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0							
5.2 GHz WLAN	20.0	19.0	18.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0							
5.5 GHz WLAN	20.0	19.0	18.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0							
5.8 GHz WLAN	20.0	19.0	18.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0							
5.9 GHz WLAN	20.0	19.0	18.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0							
6.0 GHz WLAN	20.0	19.0	18.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0							
6.5 GHz WLAN	20.0	19.0	18.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0							
6.8 GHz WLAN	20.0	19.0	18.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0							
7.2 GHz WLAN	20.0	19.0	18.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0							
7.5 GHz WLAN	20.0	19.0	18.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0							
7.8 GHz WLAN	20.0	19.0	18.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0							
8.0 GHz WLAN	20.0	19.0	18.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0							
8.4 GHz WLAN	20.0	19.0	18.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0							
8.7 GHz WLAN	20.0	19.0	18.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0							
9.2 GHz WLAN	20.0	19.0	18.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0							
9.6 GHz WLAN	20.0	19.0	18.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0							
9.8 GHz WLAN	20.0	19.0	18.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0							
10.0 GHz WLAN	20.0	19.0	18.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0							
10.5 GHz WLAN	20.0	19.0	18.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0							
10.8 GHz WLAN	20.0	19.0	18.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0							
11.2 GHz WLAN	20.0	19.0	18.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0							
11.5 GHz WLAN	20.0	19.0	18.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0							
11.8 GHz WLAN	20.0	19.0	18.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0							
12.0 GHz WLAN	20.0	19.0	18.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0							
12.5 GHz WLAN	20.0	19.0	18.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0							
12.8 GHz WLAN	20.0	19.0	18.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0							
13.0 GHz WLAN	20.0	19.0	18.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0							
13.5 GHz WLAN	20.0	19.0	18.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0							
13.8 GHz WLAN	20.0	19.0	18.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0							
14.0 GHz WLAN	20.0	19.0	18.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0							
14.5 GHz WLAN	20.0	19.0	18.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0							
14.8 GHz WLAN	20.0	19.0	18.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0	17.0	16.0	15.0</																									

The below table is applicable in the following conditions:

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

Unit		IEEE 802.11 Maximum Output Power (in dBm)																							
		DSSS												OFDM											
		Channel 1						Channel 2						Channel 3						Channel 4					
IEEE 802.11 Maximum Output Power (in dBm)																									
Part A: 2.4 GHz												Part B: 5 GHz													
Part A: 2.4 GHz												Part B: 5 GHz													
Part A: 2.4 GHz												Part B: 5 GHz													
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Part A: 2.4 GHz												Part B: 5 GHz													
Part A: 2.4 GHz												Part B: 5 GHz													
Part A: 2.4 GHz																									

The below table is applicable in the following conditions:

- DSI = 1 (Head)

Band		IEEE 802.11 Maximum Output Power (in dBm)																													
		DSSS												OFDM																	
		Channel 1						Channel 2						Channel 3						Channel 4											
Max		+5		+		=		+5 (E)		+		=		+5 (E)		+		=		+5 (E)		+		=		+5 (E)		+		=	
		Min	Norm.	Min	Norm.	Min	Norm.	Min	Norm.	Min	Norm.	Min	Norm.	Min	Norm.	Min	Norm.	Min	Norm.	Min	Norm.	Min	Norm.	Min	Norm.	Min	Norm.	Min	Norm.	Min	Norm.
14 (GB)		14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0
14 (GB)		14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0

2.4.3 5 GHz Maximum WLAN Output Power

The below table is applicable in the following conditions:

- Pmax

Model	Band	IEEE 802.11 Maximum Output Power (in dBm)																											
		DSSS												OFDM															
		Antenna G						Antenna B						Antenna E						Antenna F									
Maximum / Nominal Power	a		b		c		d		e		f		g		h		i		j		k		l		m		n		
	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	
5 GHz (ERP) (BSS)	UHM-1	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0
	UHM-2	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0
	UHM-3	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0
	UHM-4	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0
	UHM-5	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0
	UHM-6	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0
	UHM-7	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0
	UHM-8	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0
	UHM-9	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0
	UHM-10	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0
5 GHz (ERP) (BSS)	UHM-1	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0
	UHM-2	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0
	UHM-3	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0
	UHM-4	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0
	UHM-5	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0
	UHM-6	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0
	UHM-7	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0
	UHM-8	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0
	UHM-9	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0
	UHM-10	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0
5 GHz (ERP) (BSS)	UHM-1	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0
	UHM-2	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0
	UHM-3	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0
	UHM-4	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0
	UHM-5	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0
	UHM-6	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0
	UHM-7	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0
	UHM-8	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0
	UHM-9	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0
	UHM-10	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0

The below table is applicable in the following conditions:

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

Mode	Band	IEEE 802.11 Maximum Output Power (in dBm)																																		
		DSSS												OFDM																						
		Antenna G												Antenna E																						
		a (1)						a (2)						b (1)						b (2)																
Minimum / Nominal Power	Max	Norm.	Max	Norm.	Max	Norm.	Max	Norm.	Max	Norm.	Max	Norm.	Max	Norm.	Max	Norm.	Max	Norm.	Max	Norm.	g (2200 + 4700)				i (2200 + 4700)				m (2200 + 4700)				n (2200 + 4700)			
																					Max	Norm.	Max	Norm.	Max	Norm.	Max	Norm.	Max	Norm.	Max	Norm.	Max	Norm.	Max	Norm.
5 GHz (EUTRA SRRM BW)	UHR-1	12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0		
	UHR-0A	12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0		
	UHR-3C	12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0		
	UHR-3	12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0		
	UHR-1	12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0		
5 GHz (EUTRA SRRM BW)	UHR-0A			12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0			12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0			12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0
	UHR-3C			12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0			12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0			12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0
	UHR-3			12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0			12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0			12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0
	UHR-1			12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0			12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0			12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0
	UHR-0A			12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0			12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0			12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0
5 GHz (EUTRA SRRM BW)	UHR-1					12.0	11.0	12.0	11.0	12.0	11.0					12.0	11.0	12.0	11.0	12.0	11.0					12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0
	UHR-0A					12.0	11.0	12.0	11.0	12.0	11.0					12.0	11.0	12.0	11.0	12.0	11.0					12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0
	UHR-3					12.0	11.0	12.0	11.0	12.0	11.0					12.0	11.0	12.0	11.0	12.0	11.0					12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0
	UHR-0A					12.0	11.0	12.0	11.0	12.0	11.0					12.0	11.0	12.0	11.0	12.0	11.0					12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0
	UHR-3C					12.0	11.0	12.0	11.0	12.0	11.0					12.0	11.0	12.0	11.0	12.0	11.0					12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0

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2.4.4 6 GHz Maximum WLAN Output Power

The below table is applicable in the following conditions:

- P_{max}

Mode	Band	IEEE 802.11 Modulated Output Power (in dBm)																	
		SISO						SISO						SISO in MIMO					
		Antenna G			Antenna E			Antenna E			Antenna E			MIMO			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	16.0	15.0	16.0	15.0	16.0	15.0	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	16.0	15.0	16.0	15.0	16.0	15.0
6 GHz WiFi (40MHz 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 (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			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 (320MHz BW) - SP	UNII-5					16.0	15.0					16.0	15.0					16.0	15.0
Mode	Band	IEEE 802.11 Modulated Output Power (in dBm)																	
		SISO						SISO						SISO in MIMO					
		Antenna G			Antenna E			Antenna E			Antenna E			MIMO			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	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0
	UNII-6	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0
	UNII-7	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0
	UNII-8	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0
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			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) - 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			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 (320MHz BW) - LPI	UNII-5					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
	UNII-7					16.0	15.0					16.0	15.0					16.0	15.0
	UNII-8					16.0	15.0					16.0	15.0					16.0	15.0

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Mode	Band	IEEE 802.11 Modulated Output Power (in dBm)																	
		SISO						SISO						SISO in MIMO					
		Antenna G						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	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
	UNII-6	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
	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
	UNII-8	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-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) - 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-6			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
	UNII-8			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-6			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
	UNII-8			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	12.0	11.0			12.0	11.0	12.0	11.0
	UNII-6			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
	UNII-8			12.0	11.0	12.0	11.0			12.0	11.0	12.0	11.0			12.0	11.0	12.0	11.0

The below table is applicable in the following conditions:

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

Mode	Band	IEEE 802.11 Modulated Output Power (in dBm)																	
		SISO						SISO						SISO in MIMO					
		Antenna G						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	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	ch. 2: 9.0	8.0	ch. 2: 9.0	8.0	10.0	9.0	ch. 2: 9.0	8.0	ch. 2: 9.0	8.0	10.0	9.0	ch. 2: 9.0	8.0	ch. 2: 9.0	8.0
6 GHz WiFi (40MHz BW) - SP	UNII-5			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
6 GHz WiFi (80MHz BW) - SP	UNII-5			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
6 GHz WiFi (160MHz BW) - SP	UNII-5			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
6 GHz WiFi (320MHz BW) - SP	UNII-5			10.0	9.0	10.0	9.0			10.0	9.0	10.0	9.0			10.0	9.0	10.0	9.0

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		IEEE 802.11 Modulated Output Power (in dBm)																	
Mode	Band	SISO						SISO						SISO in MIMO					
		Antenna G						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	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-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			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-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
	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
	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
6 GHz WiFi (80MHz BW) - LPI	UNII-5			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-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
	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
	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
6 GHz WiFi (160MHz BW) - LPI	UNII-5			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-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
	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
	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
6 GHz WiFi (320MHz BW) - LPI	UNII-5					10.0	9.0					10.0	9.0					10.0	9.0
	UNII-6					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
	UNII-8					10.0	9.0					10.0	9.0					10.0	9.0
		IEEE 802.11 Modulated Output Power (in dBm)																	
Mode	Band	SISO						SISO						SISO in MIMO					
		Antenna G						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	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
	UNII-6	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
	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
	UNII-8	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-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) - VLP	UNII-5			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-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
	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
	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
6 GHz WiFi (160MHz BW) - VLP	UNII-5			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-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
	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
	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
6 GHz WiFi (320MHz BW) - VLP	UNII-5					10.0	9.0					10.0	9.0					10.0	9.0
	UNII-6					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
	UNII-8					10.0	9.0					10.0	9.0					10.0	9.0

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2.4.5 2.4 GHz Bluetooth Output Power

The below table is applicable in the following conditions:

- Max Power Level

Mode	Data Rate	Modulated Output Power (in dBm)					
		Single Antenna				Each Chain in Dual Mode	
		Antenna G		Antenna I		MIMO	
Maximum / Nominal Power		Max	Nom.	Max	Nom.	Max	Nom.
Bluetooth	1Mbps	16.5	15.5	18.5	17.5	14.0	13.0
Bluetooth EDR	2Mbps	14.5	13.5	16.0	15.0	11.0	10.0
Bluetooth EDR	3Mbps	14.5	13.5	16.0	15.0	11.0	10.0
Bluetooth LE	1Mbps	16.5	15.5	18.5	17.5	14.0	13.0
Bluetooth LE	2Mbps	16.5	15.5	18.5	17.5	14.0	13.0
Bluetooth LE	125kbps	10.0	9.0	9.5	8.5	N/A	N/A
Bluetooth LE	500kbps	10.0	9.0	9.5	8.5	N/A	N/A

The below table is applicable in the following conditions:

- When RCV Active

Mode	Data Rate	Modulated Output Power (in dBm)					
		Single Antenna				Each Chain in Dual Mode	
		Antenna G		Antenna I		MIMO	
Maximum / Nominal Power		Max	Nom.	Max	Nom.	Max	Nom.
Bluetooth	1Mbps	15.0	14.0	16.0	15.0	14.0	13.0
Bluetooth EDR	2Mbps	14.5	13.5	16.0	15.0	11.0	10.0
Bluetooth EDR	3Mbps	14.5	13.5	16.0	15.0	11.0	10.0
Bluetooth LE	1Mbps	15.0	14.0	16.0	15.0	14.0	13.0
Bluetooth LE	2Mbps	15.0	14.0	16.0	15.0	14.0	13.0
Bluetooth LE	125kbps	10.0	9.0	9.5	8.5	N/A	N/A
Bluetooth LE	500kbps	10.0	9.0	9.5	8.5	N/A	N/A

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2.5 DUT Antenna Locations

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

Table 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	No	Yes
C	Yes	Yes	No	Yes	No	Yes
D	Yes	Yes	No	Yes	Yes	No
E	Yes	Yes	Yes	No	Yes	No
F	Yes	Yes	Yes	No	No	Yes
G	Yes	Yes	Yes	No	No	Yes
H	Yes	Yes	No	No	No	Yes
I	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 648474 D04. The distances between the transmit antennas and the edges of the device are included in the filing. When wireless router mode is enabled, UNII-2A, U-NII-2C, U-NII-4, and WIFI6E SP/LPI operations are disabled.

2.6 Near Field Communications (NFC) Antenna

This DUT has NFC operations. The NFC antenna is integrated into the device for this model. Therefore, all SAR tests were performed with the device which already incorporates the NFC antenna. A diagram showing the location of the NFC antenna can be found in DUT Antenna Diagram & SAR Test Setup Photographs Appendix.

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1. SISO represents 2.4 GHz WLAN/BT transmission on Ant G or Ant I, and 5/6 GHz transmission on Ant G 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 bodyworn 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 U-NII-1 and U-NII-3 by S/W, therefore U-NII-2A, U-NII-2C, and U-NII-4 were not evaluated for wireless router conditions.
5. 6 GHz Wireless Router is only supported for VLP, therefore SP and LPI were not evaluated for wireless router conditions.
6. This device supports 2x2 MIMO Tx for WLAN 802.11a/g/n/ac/ax/be. 802.11a/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 G 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. UWB was evaluated for Head, Body-worn, and Phablet based on expected usage conditions.
13. WPT and NFC was evaluated for phablet based on expected usage conditions.

2.8 Miscellaneous SAR Test Considerations

(A) WIFI/BT

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

Since 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-2A, U-NII-2C, U-NII-4 WIFI and 6 GHz SP/LPI, only 2.4 GHz WIFI, 2.4 GHz Bluetooth Ant G, U-NII-1 and U-NII-3, and 6 GHz VLP 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 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 D04, 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

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supported for 2.4 GHz Bluetooth Antenna I, 2.4 GHz Bluetooth MIMO, U-NII-2A, U-NII-2C, U-NII-4 WIFI and 6 GHz SP and LPI, phablet SAR tests were performed. Phablet SAR was not evaluated for 2.4 GHz WLAN, 2.4 GHz Bluetooth Antenna G, U-NII-1 and U-NII-3 WLAN operations since wireless router 1g SAR was < 1.2 W/kg.

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 downlink LTE Carrier Aggregation (CA), downlink 4x4 MIMO operations for some LTE Bands, and 4x4 MIMO downlink carrier aggregation. Per October 2024 TCB Workshop notes, additional analysis is not required for downlink carrier aggregation.

Per FCC KDB Publication 648474 D04v01r03, this device is considered a "phablet" since the display diagonal dimension is greater than 150mm and less than 200mm. Therefore, phablet SAR tests are required when wireless router mode does not apply or if wireless router 1g SAR > 1.2 W/kg.

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

This device supports both Power Class 2 (PC2) and Power Class 3 (PC3) for LTE Band 41. Per May 2017 TCB Workshop Notes, SAR tests were performed with Power Class 3 (given the specific UL/DL limitations for Power Class 2). Additionally, SAR testing for the power class 2 condition was evaluated for the highest configuration in Power Class 3 for each test configuration to confirm the results were scalable linearly (See Section 13).

This device can transmit with antenna 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 2.4.1 of this report.

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.

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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).

SRS was tested with CW signal per S.LSI guidance.

2.9 Guidance Applied

- IEEE 1528-2013
- FCC KDB Publication 941225 D01v03r01, D05v02r05, D05Av01r02, D06v02r01 (2G/3G/4G and Hotspot)
- FCC KDB Publication 248227 D01v02r02 (SAR Considerations for 802.11 Devices)
- FCC KDB Publication 447498 D04v01 (General SAR Guidance)
- FCC KDB Publication 865664 D01v01r04, D02v01r02 (SAR Measurements up to 6 GHz)
- FCC KDB Publication 648474 D04 (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, October 2024 TCB Workshop Notes (LTE Carrier Aggregation)
- 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
- October 2019 TCB Workshop Notes (IEEE 802.11ax)

2.10 Device Serial Numbers

Several samples with identical hardware were used to support SAR testing. The manufacturer has confirmed that the device(s) tested have the same physical, mechanical and thermal characteristics and are within operational tolerances expected for production units. The serial numbers used for each test are indicated alongside the results in Sections 12 and 13.

2.11 Bibliography

Report Type	Report Serial Number
RF Exposure Compliance Summary Report	1M2508270083-04.A3L
RF Exposure Part 0 Test Report	1M2508270083-03.A3L
RF Exposure Part 2 WWAN Test Report	1M2508270083-02.A3L
RF Exposure Part 2 WLAN Test Report	1M2508270083-36.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 12: 699.7 - 715.3 MHz				
	LTE Band 17: 706.5 - 713.5 MHz				
	LTE Band 13: 779.5 - 784.5 MHz				
	LTE Band 26: 814.7 - 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 41: 2498.5 - 2687.5 MHz				
Channel Bandwidths	LTE Band 12: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz				
	LTE Band 17: 5 MHz, 10 MHz				
	LTE Band 13: 5 MHz, 10 MHz				
	LTE Band 26: 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 41: 5 MHz, 10 MHz, 15 MHz, 20 MHz				
Channel Numbers and Frequencies (MHz)	Low	Low-Mid	Mid	Mid-High	High
LTE Band 12: 1.4 MHz	699.7 (23017)		707.5 (23095)		715.3 (23173)
LTE Band 12: 3 MHz	700.5 (23025)		707.5 (23095)		714.5 (23165)
LTE Band 12: 5 MHz	701.5 (23035)		707.5 (23095)		713.5 (23155)
LTE Band 12: 10 MHz	704 (23060)		707.5 (23095)		711 (23130)
LTE Band 17: 5 MHz	706.5 (23755)		710 (23790)		713.5 (23825)
LTE Band 17: 10 MHz	709 (23780)		710 (23790)		711 (23800)
LTE Band 13: 5 MHz	779.5 (23205)		782 (23230)		784.5 (23255)
LTE Band 13: 10 MHz	(N/A)		782 (23230)		(N/A)
LTE Band 26: 1.4 MHz	814.7 (26697)		831.5 (26865)		848.3 (27033)
LTE Band 26: 3 MHz	815.5 (26705)		831.5 (26865)		847.5 (27025)
LTE Band 26: 5 MHz	816.5 (26715)		831.5 (26865)		846.5 (27015)
LTE Band 26: 10 MHz	819 (26740)		831.5 (26865)		844 (26990)
LTE Band 26: 15 MHz	821.5 (26765)		831.5 (26865)		841.5 (26965)
LTE Band 5: 1.4 MHz	824.7 (20407)		836.5 (20525)		848.3 (20643)
LTE Band 5: 3 MHz	825.5 (20415)		836.5 (20525)		847.5 (20635)
LTE Band 5: 5 MHz	826.5 (20425)		836.5 (20525)		846.5 (20625)
LTE Band 5: 10 MHz	829 (20450)		836.5 (20525)		844 (20600)
LTE Band 66: 1.4 MHz	1710.7 (131979)		1745 (132322)		1779.3 (132665)
LTE Band 66: 3 MHz	1711.5 (131987)		1745 (132322)		1778.5 (132657)
LTE Band 66: 5 MHz	1712.5 (131997)		1745 (132322)		1777.5 (132647)
LTE Band 66: 10 MHz	1715 (132022)		1745 (132322)		1775 (132622)
LTE Band 66: 15 MHz	1717.5 (132047)		1745 (132322)		1772.5 (132597)
LTE Band 66: 20 MHz	1720 (132072)		1745 (132322)		1770 (132572)
LTE Band 4: 1.4 MHz	1710.7 (19957)		1732.5 (20175)		1754.3 (20393)
LTE Band 4: 3 MHz	1711.5 (19965)		1732.5 (20175)		1753.5 (20385)
LTE Band 4: 5 MHz	1712.5 (19975)		1732.5 (20175)		1752.5 (20375)
LTE Band 4: 10 MHz	1715 (20000)		1732.5 (20175)		1750 (20350)
LTE Band 4: 15 MHz	1717.5 (20025)		1732.5 (20175)		1747.5 (20325)
LTE Band 4: 20 MHz	1720 (20050)		1732.5 (20175)		1745 (20300)
LTE Band 25: 1.4 MHz	1850.7 (26047)		1882.5 (26365)		1914.3 (26683)
LTE Band 25: 3 MHz	1851.5 (26055)		1882.5 (26365)		1913.5 (26675)
LTE Band 25: 5 MHz	1852.5 (26065)		1882.5 (26365)		1912.5 (26665)
LTE Band 25: 10 MHz	1855 (26090)		1882.5 (26365)		1910 (26640)
LTE Band 25: 15 MHz	1857.5 (26115)		1882.5 (26365)		1907.5 (26615)
LTE Band 25: 20 MHz	1860 (26140)		1882.5 (26365)		1905 (26590)
LTE Band 2: 1.4 MHz	1850.7 (18607)		1880 (18900)		1909.3 (19193)
LTE Band 2: 3 MHz	1851.5 (18615)		1880 (18900)		1908.5 (19185)
LTE Band 2: 5 MHz	1852.5 (18625)		1880 (18900)		1907.5 (19175)
LTE Band 2: 10 MHz	1855 (18650)		1880 (18900)		1905 (19150)
LTE Band 2: 15 MHz	1857.5 (18675)		1880 (18900)		1902.5 (19125)
LTE Band 2: 20 MHz	1860 (18700)		1880 (18900)		1900 (19100)
LTE Band 41: 5 MHz	2506 (39750)	2549.5 (40185)	2593 (40620)	2636.5 (41055)	2680 (41490)
LTE Band 41: 10 MHz	2506 (39750)	2549.5 (40185)	2593 (40620)	2636.5 (41055)	2680 (41490)
LTE Band 41: 15 MHz	2506 (39750)	2549.5 (40185)	2593 (40620)	2636.5 (41055)	2680 (41490)
LTE Band 41: 20 MHz	2506 (39750)	2549.5 (40185)	2593 (40620)	2636.5 (41055)	2680 (41490)
UE Category	UL UE Cat 18 , DL UE Cat 20				
Modulations Supported in UL	QPSK, 16QAM, 64QAM, 256QAM				
LTE MPR Permanently implemented per 3GPP TS 36.101 section 6.2.3-6.2.5? (manufacturer attestation to be provided)	YES				
A-MPR (Additional MPR) disabled for SAR Testing?	YES				
LTE Carrier Aggregation Possible Combinations	The technical description includes all the possible carrier aggregation combinations				
LTE Additional Information	This device does not support full CA features on 3GPP Release 16. It supports carrier aggregation, downlink MIMO features. All uplink communications are identical to the Release 8 Specifications. Uplink communications are done on the PCC. The following LTE Release 16 Features are not supported: Relay, HetNet, Enhanced MIMO, eCIC, eMBMS, Wi-Fi Offloading, Cross-Carrier Scheduling, Enhanced SC-FDMA.				

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NR Information									
Form Factor	Portable Handset								
Frequency Range of each NR transmission band	NR Band n12: 701.5 - 713.5 MHz								
	NR Band n26: 816.5 - 846.5 MHz								
	NR Band n5: 826.5 - 846.5 MHz								
	NR Band n66: 1712.5 - 1777.5 MHz								
	NR Band n25: 1852.5 - 1912.5 MHz								
	NR Band n2: 1852.5 - 1907.5 MHz								
	NR Band n41: 2501.01 - 2685 MHz								
	NR Band n77: 3455.01 - 3544.98 MHz; 3705 - 3975 MHz								
Channel Bandwidths	NR Band n12: 5 MHz; 10 MHz; 15 MHz								
	NR Band n26: 5 MHz; 10 MHz; 15 MHz; 20 MHz								
	NR Band n5: 5 MHz; 10 MHz; 15 MHz; 20 MHz								
	NR Band n66: 5 MHz; 10 MHz; 15 MHz; 20 MHz; 25 MHz; 30 MHz; 40 MHz								
	NR Band n25: 5 MHz; 10 MHz; 15 MHz; 20 MHz; 25 MHz; 30 MHz; 40 MHz								
	NR Band n2: 5 MHz; 10 MHz; 15 MHz; 20 MHz; 25 MHz; 30 MHz; 40 MHz								
	NR Band n41: 10 MHz; 15 MHz; 20 MHz; 30 MHz; 40 MHz; 50 MHz; 60 MHz; 80 MHz; 90 MHz; 100 MHz								
	NR Band n77: 10 MHz; 15 MHz; 20 MHz; 30 MHz; 40 MHz; 50 MHz; 60 MHz; 70 MHz; 80 MHz; 90 MHz; 100 MHz								
Channel Numbers and Frequencies (MHz)									
NR Band n12: 5 MHz	701.5 (140300)		707.5 (141500)					713.5 (142700)	
NR Band n12: 10 MHz	704 (140800)		707.5 (141500)					711 (142200)	
NR Band n12: 15 MHz	708.5 (141300)		707.5 (141500)					708.5 (141700)	
NR Band n26: 5 MHz	816.5 (163300)		831.5 (166300)					846.5 (169300)	
NR Band n26: 10 MHz	819 (163800)		831.5 (166300)					844 (168800)	
NR Band n26: 15 MHz	821.5 (164300)		831.5 (166300)					841.5 (168300)	
NR Band n26: 20 MHz	824 (164800)		831.5 (166300)					839 (167800)	
NR Band n5: 5 MHz	826.5 (165300)		836.5 (167300)					846.5 (169300)	
NR Band n5: 10 MHz	829 (165800)		836.5 (167300)					844 (168800)	
NR Band n5: 15 MHz	831.5 (166300)		836.5 (167300)					841.5 (168300)	
NR Band n5: 20 MHz	834 (166800)		836.5 (167300)					839 (167800)	
NR Band n66: 5 MHz	1712.5 (342500)		1745 (349000)					1775 (355500)	
NR Band n66: 10 MHz	1715 (343000)		1745 (349000)					1775 (355000)	
NR Band n66: 15 MHz	1717.5 (343500)		1745 (349000)					1772.5 (354500)	
NR Band n66: 20 MHz	1720 (344000)		1745 (349000)					1770 (354000)	
NR Band n66: 25 MHz	1722.5 (344500)		1745 (349000)					1767.5 (353500)	
NR Band n66: 30 MHz	1725 (345000)		1745 (349000)					1765 (353000)	
NR Band n66: 40 MHz	1730 (346000)		1745 (349000)					1760 (352000)	
NR Band n25: 5 MHz	1852.5 (370500)		1882.5 (376500)					1912.5 (382500)	
NR Band n25: 10 MHz	1855 (371000)		1882.5 (376500)					1910 (382000)	
NR Band n25: 15 MHz	1857.5 (371500)		1882.5 (376500)					1907.5 (381500)	
NR Band n25: 20 MHz	1860 (372000)		1882.5 (376500)					1905 (381000)	
NR Band n25: 25 MHz	1862.5 (372500)		1882.5 (376500)					1902.5 (380500)	
NR Band n25: 30 MHz	1865 (373000)		1882.5 (376500)					1900 (380000)	
NR Band n25: 40 MHz	1870 (374000)		1882.5 (376500)					1895 (379000)	
NR Band n2: 5 MHz	1852.5 (370500)		1880 (376000)					1907.5 (381500)	
NR Band n2: 10 MHz	1855 (371000)		1880 (376000)					1905 (381000)	
NR Band n2: 15 MHz	1857.5 (371500)		1880 (376000)					1902.5 (380500)	
NR Band n2: 20 MHz	1860 (372000)		1880 (376000)					1900 (380000)	
NR Band n2: 25 MHz	1862.5 (372500)		1880 (376000)					1897.5 (379500)	
NR Band n2: 30 MHz	1865 (373000)		1880 (376000)					1895 (379000)	
NR Band n2: 40 MHz	1870 (374000)		1880 (376000)					1890 (378000)	
NR Band n41: 10 MHz	2501.01 (500200)	2547 (509400)	2592.99 (518598)					2639.01 (527800)	2685 (537000)
NR Band n41: 15 MHz	2503.5 (500700)	2548.26 (509652)	2592.99 (518598)					2637.75 (527550)	2682.51 (536952)
NR Band n41: 20 MHz	2506.02 (501204)	2549.49 (509898)	2592.99 (518598)					2636.49 (527298)	2679.99 (535998)
NR Band n41: 30 MHz	2511 (502200)	2552.01 (510402)	2592.99 (518598)					2634 (526800)	2674.98 (534996)
NR Band n41: 40 MHz	2616.01 (523202)	2567.34 (513468)	(N/A)					2618.67 (523734)	2670 (534000)
NR Band n41: 50 MHz	2521.02 (504204)		2592.99 (518598)					2664.99 (532998)	
NR Band n41: 60 MHz	2526 (505200)		2592.99 (518598)					2659.98 (531996)	
NR Band n41: 70 MHz	2531.01 (506202)		(N/A)					2655 (531000)	
NR Band n41: 80 MHz	2536.02 (507204)		(N/A)					2649.99 (529998)	
NR Band n41: 90 MHz	2541 (508200)		(N/A)					2644.98 (528996)	
NR Band n41: 100 MHz	2546.01 (509202)		2592.99 (518598)					2640 (528000)	
NR Band n77 DoD: 10 MHz	3455.01 (630334)		3500.01 (633334)					3544.98 (636332)	
NR Band n77 DoD: 15 MHz	3457.5 (630500)		3500.01 (633334)					3542.49 (636166)	
NR Band n77 DoD: 20 MHz	3460.02 (630668)		3500.01 (633334)					3540 (636000)	
NR Band n77 DoD: 30 MHz	3465 (631000)		3500.01 (633334)					3534.99 (635666)	
NR Band n77 DoD: 40 MHz	3470.01 (631334)		(N/A)					3529.98 (635332)	
NR Band n77 DoD: 50 MHz	3475.02 (631668)		(N/A)					3525 (635000)	
NR Band n77 DoD: 60 MHz	(N/A)		3500.01 (633334)					(N/A)	
NR Band n77 DoD: 70 MHz	(N/A)		3500.01 (633334)					(N/A)	
NR Band n77 DoD: 80 MHz	(N/A)		3500.01 (633334)					(N/A)	
NR Band n77 DoD: 90 MHz	(N/A)		3500.01 (633334)					(N/A)	
NR Band n77 DoD: 100 MHz	(N/A)		3500.01 (633334)					(N/A)	
NR Band n77: 10 MHz			(N/A)						
NR Band n77: 15 MHz	3705 (647000)	3759 (650600)	3813 (654200)			3867 (657800)		3921 (661400)	3975 (665000)
NR Band n77: 20 MHz	3707.52 (647168)	3760.5 (650700)	3813.51 (654234)	(N/A)		3866.49 (657766)		3919.5 (661300)	3972.48 (664832)
NR Band n77: 20 MHz	3710.01 (647334)	3762 (650800)	3813.99 (654266)	(N/A)		3866.01 (657734)		3918 (661200)	3969.99 (664632)
NR Band n77: 30 MHz	3715.02 (647668)	3765 (651000)	3815.01 (654334)	(N/A)		3864.99 (657666)		3915 (661000)	3964.98 (664332)
NR Band n77: 40 MHz	3720 (648000)	3768 (651200)	3816 (654400)	(N/A)		3864 (657600)		3912 (660800)	3960 (664000)
NR Band n77: 50 MHz	3725.01 (648334)	3782.49 (652166)	(N/A)	3840 (656000)		(N/A)		3897.51 (659834)	3954.99 (663666)
NR Band n77: 60 MHz	3730.02 (648668)	3803.34 (653566)	(N/A)	(N/A)		(N/A)		3876.66 (658444)	3949.98 (663332)
NR Band n77: 70 MHz	3735 (649000)	3804.99 (653666)	(N/A)	(N/A)		(N/A)		3875.01 (658334)	3945 (663000)
NR Band n77: 80 MHz	3740.01 (649334)	(N/A)		3840 (656000)	(N/A)			(N/A)	3939.99 (662666)
NR Band n77: 90 MHz	3745.02 (649668)	(N/A)		3840 (656000)	(N/A)			(N/A)	3934.98 (662332)
NR Band n77: 100 MHz				(N/A)					
SCS for NR Band n12, n26, n5, n66, n25, n2	3750 (650000)								3930 (662000)
SCS for NR Band n41, n77				15 kHz					
				30 kHz					
Modulations Supported in UL									
DFT-s-OFDM: 1/2 BPSK, QPSK, 16QAM, 64QAM, 256QAM									
CP-OFDM: QPSK, 16QAM, 64QAM, 256QAM									
YES									
The technical description includes all the possible carrier aggregation combinations									
2/66									
N/A									
2/4/66									
2/5/12/13									
12/13/66									
4/5/12/13/66									
2/4/5/12/									
2/5/12/13									
2/5/1/66									
2/5/1/66									

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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.

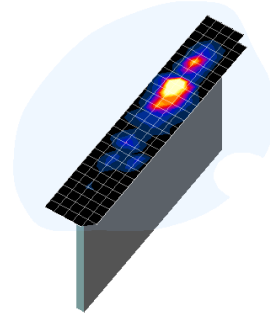


Figure 5-1
Sample SAR Area Scan

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) ($\Delta x_{\text{zoomTV}}, \Delta y_{\text{zoom}}$)	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].

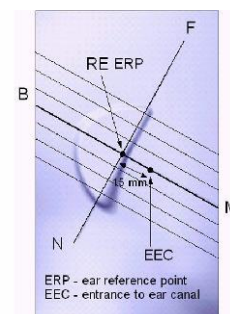


Figure 6-1
Close-Up Side view
of ERP

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

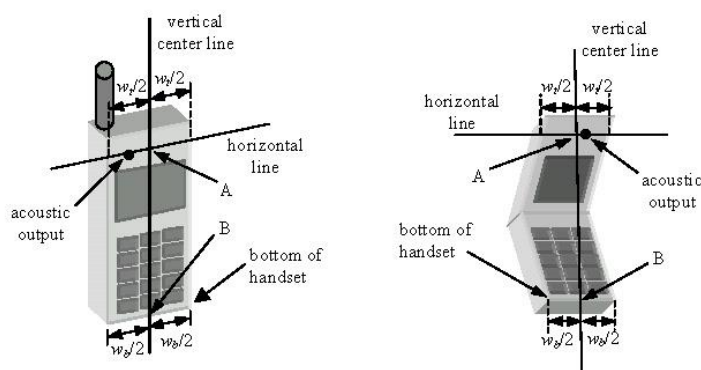


Figure 6-3
Handset Vertical Center & Horizontal Line Reference Points

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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.

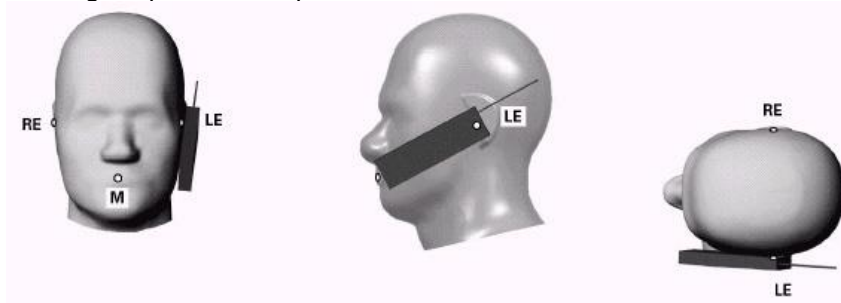


Figure 7-1 Front, Side and Top View of Cheek Position

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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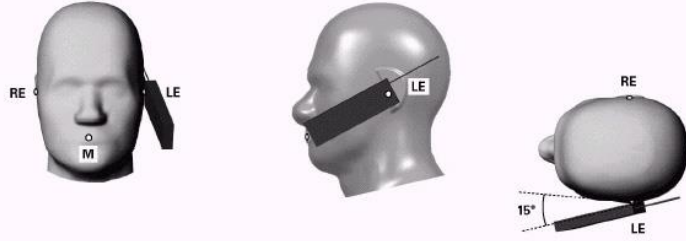


Figure 7-2 Front, Side and Top View of Ear/15° Tilt Position

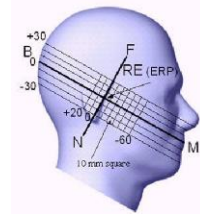


Figure 7-3 Side view w/ relevant markings

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

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 D04v01r03, Body-worn accessory exposure is typically related to voice mode operations when handsets are carried in body-worn accessories. The body-worn accessory procedures in FCC KDB Publication 447498 D04v01 should be used to test for body-worn accessory SAR compliance, without a headset connected to it. This enables the test results for such configuration to be compatible with that required for hotspot mode when the body-worn accessory test separation distance is greater than or equal to that required for hotspot mode, 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.

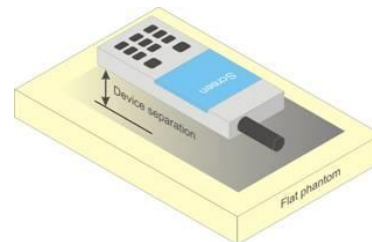


Figure 7-4 Sample Body-Worn Diagram

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 D04v01 should be applied to determine SAR test requirements.

Per KDB Publication 447498 D04v01, Cell phones (handsets) are not normally designed to be used on extremities or operated in extremity only exposure conditions. The maximum output power levels of handsets generally do not require extremity SAR testing to show compliance. Therefore, extremity SAR was not evaluated for this device.

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

7.8 Phablet Configurations

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

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

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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 D04v01, when SAR is not measured at the maximum power level allowed for production units, the results must be scaled to the maximum tune-up tolerance limit according to the power applied to the individual channels tested to determine compliance. For simultaneous transmission, the measured aggregate SAR must be scaled according to the sum of the differences between the maximum tune-up tolerance and actual power used to test each transmitter. When SAR is measured at or scaled to the maximum tune-up tolerance limit, the results are referred to as *reported* SAR. The highest *reported* SAR results are identified on the grant of equipment authorization according to procedures in KDB 690783 D01v01r03.

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.

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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 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 guidance, 802.11ax was considered the highest order 802.11 mode. When the maximum output power are the same for multiple test channels, either according to the default or additional power measurement requirements, SAR is measured using the channel closest to the middle of the frequency band or aggregated band. When there are multiple channels with the same maximum output power, SAR is measured using the higher number channel.

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.

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When the reported SAR is ≤ 0.8 W/kg, no additional measurements on other test channels are required. Otherwise, SAR is evaluated using the subsequent highest average RF output channel until the reported SAR result is ≤ 1.2 W/kg or all channels are measured. When there are multiple untested channels having the same subsequent highest average RF output power, the channel with higher frequency from the lowest 802.11 mode is considered for SAR measurements (See Section 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 D04v01 should be applied to determine simultaneous transmission SAR test exclusion for WIFI MIMO. If the sum of 1g single transmission chain SAR measurements is < 1.6 W/kg, no additional SAR measurements for MIMO are required. Alternatively, SAR for MIMO can be measured with all antennas transmitting simultaneously at the specified maximum output power of MIMO operation. When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

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10 RF CONDUCTED POWERS

All conducted power measurements for Sub6 WWAN technologies and bands in this section were performed with Time-Averaged SAR Peak exposure mode enabled such that the EUT transmitted continuously at the maximum time averaged transmit power limit (Plimit) or the maximum tune-up power (Pmax), whichever is lower.

10.1 GSM Conducted Powers

Table 10-1
Measured P_{max} for Free, RCV Active, or Hotspot Mode for GSM 850 Antenna A
Measured P_{Limit} for Free, or Hotspot Mode for GSM 1900 Antenna A

Maximum Burst-Averaged Output Power										
Band	Channel	Voice	GPRS/EDGE Data (GMSK)				EDGE Data (8-PSK)			
		GSM [dBm] CS (1 Slot)	GPRS [dBm] 1 Tx Slot	GPRS [dBm] 2 Tx Slot	GPRS [dBm] 3 Tx Slot	GPRS [dBm] 4 Tx Slot	EDGE [dBm] 1 Tx Slot	EDGE [dBm] 2 Tx Slot	EDGE [dBm] 3 Tx Slot	EDGE [dBm] 4 Tx Slot
GSM 850	128	31.92	32.45	30.38	28.83	28.00	26.51	24.41	23.27	21.71
	190	32.65	32.71	30.57	29.29	28.19	26.77	24.65	23.48	21.92
	251	32.49	32.72	30.44	29.11	28.01	26.55	24.48	23.05	21.75
GSM 1900	512	26.67	27.03	23.80	21.66	21.26	24.90	22.77	21.55	20.45
	661	27.05	27.23	24.16	22.09	21.44	25.30	22.98	21.93	20.63
	810	27.12	27.36	24.27	22.11	21.55	25.26	23.10	21.78	20.50
Calculated Maximum Frame-Averaged Output Power										
Band	Channel	Voice	GPRS/EDGE Data (GMSK)				EDGE Data (8-PSK)			
		GSM [dBm] CS (1 Slot)	GPRS [dBm] 1 Tx Slot	GPRS [dBm] 2 Tx Slot	GPRS [dBm] 3 Tx Slot	GPRS [dBm] 4 Tx Slot	EDGE [dBm] 1 Tx Slot	EDGE [dBm] 2 Tx Slot	EDGE [dBm] 3 Tx Slot	EDGE [dBm] 4 Tx Slot
GSM 850	128	22.72	23.25	24.19	24.40	24.82	17.31	18.22	18.84	18.53
	190	23.45	23.51	24.38	24.86	25.01	17.57	18.46	19.05	18.74
	251	23.29	23.52	24.25	24.68	24.83	17.35	18.29	18.62	18.57
GSM 1900	512	17.47	17.83	17.61	17.23	18.08	15.70	16.58	17.12	17.27
	661	17.85	18.03	17.97	17.66	18.26	16.10	16.79	17.50	17.45
	810	17.92	18.16	18.08	17.68	18.37	16.06	16.91	17.35	17.32
GSM 850	Frame	23.60	23.60	24.31	24.57	24.32	17.30	18.81	18.57	18.82
GSM 1900	Avg. Targets:	18.30	18.30	18.31	18.07	18.32	15.80	16.81	17.07	17.32

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Table 10-2
Measured P_{Limit} for Free, or Hotspot Mode for GSM 850 Antenna 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	27.86	28.17	25.02	22.96	21.81	26.54	24.67	22.64	21.44
	190	28.18	28.60	25.37	23.18	22.01	26.63	24.72	22.94	21.80
	251	28.05	28.18	25.27	23.03	21.98	26.76	24.70	23.29	21.94

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	18.66	18.97	18.83	18.53	18.63	17.34	18.48	18.21	18.26
	190	18.98	19.40	19.18	18.75	18.83	17.43	18.53	18.51	18.62
	251	18.85	18.98	19.08	18.60	18.80	17.56	18.51	18.86	18.76

GSM 850	Frame Avg.Targets:	18.60	18.60	18.61	18.37	18.62	17.30	18.31	18.57	18.32
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Table 10-3
Measured P_{Limit} for RCV Mode for GSM 850 Antenna 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	29.08	29.28	25.84	23.89	22.75	26.54	24.67	22.64	21.44
	190	29.31	29.54	26.02	24.10	22.96	26.63	24.72	22.94	21.80
	251	29.22	29.47	25.91	23.86	22.73	26.76	24.70	23.29	21.94

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	19.88	20.08	19.65	19.46	19.57	17.34	18.48	18.21	18.26
	190	20.11	20.34	19.83	19.67	19.78	17.43	18.53	18.51	18.62
	251	20.02	20.27	19.72	19.43	19.55	17.56	18.51	18.86	18.76

GSM 850	Frame Avg.Targets:	19.60	19.60	19.61	19.37	19.62	17.30	18.31	18.57	18.82
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Table 10-4
Measured P_{max} for RCV Active for GSM 1900 Antenna 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	28.91	29.23	26.78	25.03	23.53	25.25	23.06	22.06	20.75
	661	29.16	29.46	27.08	25.24	24.05	25.59	23.18	22.20	20.96
	810	29.24	29.49	27.16	25.47	24.11	25.61	23.08	22.10	20.87

Calculated Maximum Frame-Averaged Output Power										
		Voice	GPRS/EDGE Data (GMSK)				EDGE Data (8-PSK)			
Band	Channel	GSM [dBm] CS (1 Slot)	GPRS [dBm] 1 Tx Slot	GPRS [dBm] 2 Tx Slot	GPRS [dBm] 3 Tx Slot	GPRS [dBm] 4 Tx Slot	EDGE [dBm] 1 Tx Slot	EDGE [dBm] 2 Tx Slot	EDGE [dBm] 3 Tx Slot	EDGE [dBm] 4 Tx Slot
GSM 1900	512	19.71	20.03	20.59	20.60	20.35	16.05	16.87	17.63	17.57
	661	19.96	20.26	20.89	20.81	20.87	16.39	16.99	17.77	17.78
	810	20.04	20.29	20.97	21.04	20.93	16.41	16.89	17.67	17.69

GSM 1900	Frame Avg. Targets	20.30	20.30	21.31	21.57	20.82	16.10	17.81	17.57	17.82
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Note:

1. 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.
2. 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.
3. EDGE (8-PSK) output powers were measured with MCS7 on the base station simulator. MCS7 coding scheme was used to measure the output powers for EDGE since investigation has shown that choosing MCS7 coding scheme will ensure 8-PSK modulation. It has been shown that MCS levels that produce 8-PSK modulation do not have an impact on output power.

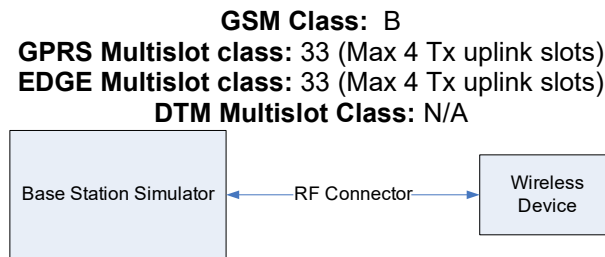


Figure 10-1
Power Measurement Setup

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10.2 UMTS Conducted Powers

Table 10-5
Measured P_{max} for Free, or Hotspot Mode Active for UMTS 850 Antenna A

3GPP Release Version	Mode	3GPP 34.121 Subtest	Cellular Band [dBm]			3GPP MPR [dB]
			4132	4183	4233	
99	WCDMA	12.2 kbps RMC	23.96	24.06	24.04	-
99		12.2 kbps AMR	23.95	24.10	23.96	-
6	HSDPA	Subtest 1	23.43	23.50	23.55	0
6		Subtest 2	22.50	22.56	22.58	0
6		Subtest 3	21.51	21.61	21.52	0.5
6		Subtest 4	21.51	21.52	21.51	0.5
6	HSUPA	Subtest 1	22.90	22.93	22.96	0
6		Subtest 2	20.80	20.89	20.83	2
6		Subtest 3	21.80	21.87	21.92	1
6		Subtest 4	20.85	20.88	20.89	2
6		Subtest 5	23.86	23.93	23.97	0
8	DC-HSDPA	Subtest 1	23.66	23.79	23.74	0
8		Subtest 2	23.17	23.27	23.16	0
8		Subtest 3	22.03	22.31	22.12	0.5
8		Subtest 4	21.60	21.76	21.72	0.5

Table 10-6
Measured P_{Limit} for Free, or Hotspot Mode Active for UMTS 1750 & 1900 Antenna A

3GPP Release Version	Mode	3GPP 34.121 Subtest	AWS Band [dBm]			PCS Band [dBm]		
			1312	1412	1513	9262	9400	9538
99	WCDMA	12.2 kbps RMC	18.27	18.26	18.40	16.94	16.99	16.92
99		12.2 kbps AMR	18.17	18.15	18.27	16.93	16.94	16.90
6	HSDPA	Subtest 1	16.55	16.45	16.68	16.06	15.90	16.16
6		Subtest 2	16.56	16.47	16.72	16.06	15.91	16.16
6		Subtest 3	16.58	16.47	16.70	16.08	15.92	16.17
6		Subtest 4	16.57	16.48	16.72	16.06	15.91	16.18
6	HSUPA	Subtest 1	16.06	16.08	16.22	15.57	15.51	15.68
6		Subtest 2	16.01	16.06	16.14	15.51	15.46	15.62
6		Subtest 3	16.08	16.09	16.18	16.48	15.53	15.65
6		Subtest 4	16.06	16.06	16.15	15.59	15.55	15.70
6		Subtest 5	17.05	17.10	17.21	16.50	16.46	16.63
8	DC-HSDPA	Subtest 1	17.21	17.08	17.09	15.98	15.86	16.11
8		Subtest 2	17.30	17.44	17.45	16.00	15.84	16.11
8		Subtest 3	17.31	17.37	17.35	15.98	15.83	16.12
8		Subtest 4	17.21	17.08	17.08	15.97	15.84	16.10

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Table 10-7
Measured P_{max} for RCV Active for UMTS 1750 & UMTS 1900 Antenna A
Measured P_{limit} for RCV Active for UMTS 850 Antenna 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	22.69	22.71	22.70	22.72	22.71	22.84	22.70	22.75	22.68	-
99		12.2 kbps AMR	22.79	22.82	22.71	22.77	22.78	22.89	22.67	22.79	22.71	-
6	HSDPA	Subtest 1	21.88	21.83	21.75	22.48	22.49	22.50	22.57	22.72	22.77	0
6		Subtest 2	21.91	21.90	21.83	21.63	21.53	21.87	21.64	21.78	21.90	0
6		Subtest 3	21.40	21.31	21.26	20.56	20.52	20.84	20.56	20.67	20.77	0.5
6		Subtest 4	21.39	21.36	21.30	20.57	20.51	20.82	20.54	20.71	20.83	0.5
6	HSUPA	Subtest 1	20.80	20.76	21.01	21.66	21.56	21.87	21.18	21.27	21.18	0
6		Subtest 2	19.98	19.94	19.83	19.02	18.95	19.29	18.59	18.73	18.71	2
6		Subtest 3	20.38	20.34	20.24	20.02	19.86	20.22	19.52	19.59	19.67	1
6		Subtest 4	19.80	19.82	19.68	18.89	18.83	19.17	18.50	18.57	18.58	2
6		Subtest 5	21.34	21.35	21.22	21.99	21.89	22.26	21.52	21.66	21.70	0
8	DC-HSDPA	Subtest 1	21.90	22.10	22.04	22.72	22.66	22.70	22.68	22.55	22.78	0
8		Subtest 2	21.95	22.11	22.03	21.78	21.74	21.71	21.69	21.57	21.77	0
8		Subtest 3	21.40	21.57	21.49	20.72	20.64	20.65	20.70	20.53	20.84	0.5
8		Subtest 4	21.38	21.54	21.48	20.73	20.64	20.68	20.71	20.54	20.83	0.5

Table 10-8
Measured P_{limit} for Free, or Hotspot Mode Active for UMTS 850 Antenna E

3GPP Release Version	Mode	3GPP 34.121 Subtest	Cellular Band [dBm]		
			4132	4183	4233
99	WCDMA	12.2 kbps RMC	19.12	19.09	18.97
99		12.2 kbps AMR	18.68	18.58	18.53
6	HSDPA	Subtest 1	18.12	18.07	18.01
6		Subtest 2	18.67	18.60	18.50
6		Subtest 3	18.14	18.07	18.02
6		Subtest 4	18.71	18.60	18.51
6	HSUPA	Subtest 1	18.18	18.13	18.01
6		Subtest 2	18.22	18.12	18.04
6		Subtest 3	18.23	18.11	18.09
6		Subtest 4	18.15	18.08	18.01
6		Subtest 5	18.18	18.11	18.01
8	DC-HSDPA	Subtest 1	18.08	18.04	18.01
8		Subtest 2	18.64	18.55	18.43
8		Subtest 3	18.12	18.04	18.04
8		Subtest 4	18.67	18.59	18.43

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Table 10-9
Measured P_{limit} for RCV Active for UMTS 850 Antenna E

3GPP Release Version	Mode	3GPP 34.121 Subtest	Cellular Band [dBm]		
			4132	4183	4233
99	WCDMA	12.2 kbps RMC	18.35	18.25	18.14
99		12.2 kbps AMR	18.28	18.17	18.06
6	HSDPA	Subtest 1	17.69	17.62	17.53
6		Subtest 2	18.14	18.08	17.99
6		Subtest 3	17.73	17.63	17.56
6		Subtest 4	18.18	18.09	18.01
6	HSUPA	Subtest 1	17.70	17.61	17.51
6		Subtest 2	17.68	17.60	17.54
6		Subtest 3	17.69	17.60	17.53
6		Subtest 4	17.68	17.59	17.52
6		Subtest 5	17.70	17.61	17.55
8	DC-HSDPA	Subtest 1	17.60	17.52	17.52
8		Subtest 2	18.15	18.07	17.98
8		Subtest 3	17.59	17.52	17.50
8		Subtest 4	18.17	18.09	18.00

Table 10-10
Measured P_{limit} for Free, or Hotspot mode for UMTS 1750 Antenna F

3GPP Release Version	Mode	3GPP 34.121 Subtest	AWS Band [dBm]		
			1312	1412	1513
99	WCDMA	12.2 kbps RMC	17.33	17.58	18.06
99		12.2 kbps AMR	17.38	17.44	17.53
6	HSDPA	Subtest 1	17.07	16.78	16.74
		Subtest 2	17.45	17.27	17.22
6		Subtest 3	17.46	17.25	17.21
6		Subtest 4	18.03	17.83	17.79
6	HSUPA	Subtest 1	16.80	16.55	16.64
6		Subtest 2	16.72	16.47	16.42
6		Subtest 3	16.75	16.52	16.47
6		Subtest 4	16.69	16.47	16.43
6		Subtest 5	17.18	16.98	16.93
8	DC-HSDPA	Subtest 1	16.96	16.76	16.67
8		Subtest 2	17.42	17.25	17.20
8		Subtest 3	17.43	17.26	17.21
8		Subtest 4	17.98	17.78	17.72

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Table 10-11
Measured P_{limit} for RCV Active Mode for UMTS 1750 Antenna F

3GPP Release Version	Mode	3GPP 34.121 Subtest	AWS Band [dBm]		
			1312	1412	1513
99	WCDMA	12.2 kbps RMC	16.07	16.11	16.17
99		12.2 kbps AMR	16.06	16.11	16.21
6	HSDPA	Subtest 1	14.96	15.08	15.18
6		Subtest 2	15.51	15.60	15.68
6		Subtest 3	15.53	15.59	15.70
6		Subtest 4	16.11	16.19	16.23
6	HSUPA	Subtest 1	15.84	15.62	15.51
6		Subtest 2	15.87	15.59	15.58
6		Subtest 3	15.90	15.63	15.58
6		Subtest 4	15.84	15.60	15.45
6		Subtest 5	14.94	14.82	14.71
8	DC-HSDPA	Subtest 1	15.43	15.32	15.20
8		Subtest 2	15.91	15.80	15.70
8		Subtest 3	15.95	15.84	15.72
8		Subtest 4	16.37	16.33	16.28

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.

10.3.1 LTE Band 12

Table 10-12

LTE Band 12 Antenna A Measured P_{Max} for Free, RCV Active, or Hotspot Mode - 10 MHz Bandwidth

LTE Band 12 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23095.0 (707.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	23.51	0	0
	1	25	23.36		0
	1	49	23.33		0
	25	0	22.50		1
	25	12	22.47	0-1	1
	25	25	22.40		1
	50	0	22.48		1
	50	0	22.48		1
16QAM	1	0	22.94	0-1	1
	1	25	22.78		1
	1	49	22.72		1
	25	0	21.56		2
	25	12	21.50	0-2	2
	25	25	21.39		2
	50	0	21.49		2
	50	0	21.49		2
64QAM	1	0	21.72	0-2	2
	1	25	21.68		2
	1	49	21.56		2
	25	0	20.50		3
	25	12	20.45	0-3	3
	25	25	20.36		3
	50	0	20.47		3
	50	0	20.47		3
256QAM	1	0	18.59	0-5	5
	1	25	18.44		5
	1	49	18.38		5
	25	0	18.46		5
	25	12	18.39		5
	25	25	18.37		5
	50	0	18.40		5
	50	0	18.40		5

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Table 10-13
LTE Band 12 Antenna E Measured P_{Limit} for Free, RCV Active, or Hotspot Mode - 10 MHz Bandwidth

LTE Band 12 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23095.0 (707.5 MHz) Conducted Power [dBm]		
QPSK	1	0	18.86	0	0
	1	25	18.88		0
	1	49	18.75		0
	25	0	18.85	0-1	0
	25	12	18.80		0
	25	25	18.79		0
16QAM	50	0	18.81	0-1	0
	1	0	18.57		0
	1	25	18.58		0
	1	49	18.48	0-2	0
	25	0	18.87		0
	25	12	18.85		0
64QAM	25	25	18.84	0-2	0
	50	0	18.82		0
	1	0	19.17	0-2	0
	1	25	19.02		0
	1	49	19.08		0
	25	0	18.81	0-3	0
256QAM	25	12	18.78		0
	25	25	18.76		0
	50	0	18.80	0-5	0
	1	0	18.70		0
	1	25	18.52		0
	1	49	18.55		0
	25	0	18.87		0
	25	12	18.85		0
	25	25	18.84		0
	50	0	18.77		0

10.3.2 LTE Band 17

Table 10-14
LTE Band 17 Antenna E Measured P_{Limit} for Free, or Hotspot Mode - 10 MHz Bandwidth

LTE Band 17 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23790.0 (710.0 MHz) Conducted Power [dBm]		
QPSK	1	0	20.57	0	0
	1	25	20.45		0
	1	49	20.53		0
	25	0	20.58	0-1	0
	25	12	20.55		0
	25	25	20.53		0
16QAM	50	0	20.56	0-1	0
	1	0	20.82		0
	1	25	20.71		0
	1	49	20.77	0-2	0
	25	0	20.52		0
	25	12	20.49		0
64QAM	25	25	20.43	0-2	0
	50	0	20.55		0
	1	0	20.72	0-3	0
	1	25	20.56		0
	1	49	20.63		0
	25	0	20.52	0-5	0
256QAM	25	12	20.48		0
	25	25	20.47		0
	50	0	20.53	0-5	0
	1	0	19.16		1.5
	1	25	19.12		1.5
	1	49	19.12		1.5
	25	0	18.85		1.5
	25	12	18.82		1.5
	25	25	18.80		1.5
	50	0	18.83		1.5

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10.3.3 LTE Band 13

Table 10-15
LTE Band 13 Antenna A Measured P_{Max} for Free, RCV Active, or Hotspot Mode - 10 MHz Bandwidth

LTE Band 13 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23230.0 (782.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	22.51	0	0
	1	25	22.53		0
	1	49	22.62		0
	25	0	21.53	0-1	1
	25	12	21.60		1
	25	25	21.62		1
	50	0	21.60		1
16QAM	1	0	21.77	0-1	1
	1	25	21.79		1
	1	49	21.90		1
	25	0	20.57	0-2	2
	25	12	20.58		2
	25	25	20.63		2
	50	0	20.62		2
64QAM	1	0	20.69	0-2	2
	1	25	20.76		2
	1	49	20.82		2
	25	0	19.52	0-3	3
	25	12	19.56		3
	25	25	19.56		3
	50	0	19.55		3
256QAM	1	0	17.55	0-5	5
	1	25	17.53		5
	1	49	17.62		5
	25	0	17.45		5
	25	12	17.50		5
	25	25	17.54		5
	50	0	17.51		5

Table 10-16
LTE Band 13 Antenna E Measured P_{Limit} for Free, or Hotspot Mode - 10 MHz Bandwidth

LTE Band 13 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23230.0 (782.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	19.05	0	0
	1	25	19.21		0
	1	49	19.25		0
	25	0	19.18	0-1	0
	25	12	19.23		0
	25	25	19.27		0
	50	0	19.23		0
16QAM	1	0	19.31	0-1	0
	1	25	19.49		0
	1	49	19.53		0
	25	0	19.17	0-2	0
	25	12	19.26		0
	25	25	19.30		0
	50	0	19.30		0
64QAM	1	0	19.15	0-2	0
	1	25	19.34		0
	1	49	19.36		0
	25	0	19.21	0-3	0
	25	12	19.29		0
	25	25	19.33		0
	50	0	19.23		0
256QAM	1	0	17.91	0-5	1.5
	1	25	18.01		1.5
	1	49	18.12		1.5
	25	0	18.00		1.5
	25	12	18.06		1.5
	25	25	18.10		1.5
	50	0	18.06		1.5

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Table 10-17
LTE Band 13 Antenna E Measured P_{Limit} for RCV Active - 10 MHz Bandwidth

LTE Band 13 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23230.0 (782.0 MHz) Conducted Power [dBm]		
QPSK	1	0	17.82	0	0
	1	25	17.96		0
	1	49	18.00		0
	25	0	17.92	0-1	0
	25	12	18.03		0
	25	25	18.01		0
16QAM	50	0	17.99	0-1	0
	1	0	18.06		0
	1	25	18.22		0
	1	49	18.24	0-2	0
	25	0	17.89		0
	25	12	17.97		0
64QAM	25	25	18.00	0-2	0
	50	0	18.00		0
	1	0	17.88	0-2	0
	1	25	18.06		0
	1	49	18.05	0-3	0
	25	0	17.92		0
256QAM	25	12	17.99		0
	25	25	18.05	0-3	0
	50	0	17.92		0
	1	0	17.80	0-5	0
	1	25	17.90		0
	1	49	18.02		0
	25	0	17.88	0-5	0
	25	12	17.96		0
	25	25	18.00		0
	50	0	17.96		0

10.3.4

LTE Band 26

Table 10-18
LTE Band 26 (Cell) Antenna A Measured P_{Max} for RCV Active – 15 MHz Bandwidth

LTE Band 26 15 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26865.0 (831.5 MHz) Conducted Power [dBm]		
QPSK	1	0	23.50	0	0
	1	36	23.55		0
	1	74	23.71		0
	36	0	22.60	0-1	1
	36	18	22.59		1
	36	37	22.69		1
16QAM	75	0	22.64	0-1	1
	1	0	22.87		1
	1	36	22.87		1
	1	74	22.97	0-2	1
	36	0	21.56		2
	36	18	21.61		2
64QAM	36	37	21.64	0-2	2
	75	0	21.62		2
	1	0	21.82	0-2	2
	1	36	21.74		2
	1	74	21.82		2
	36	0	20.55	0-3	3
256QAM	36	18	20.62		3
	36	37	20.66		3
	75	0	20.62	0-5	3
	1	0	18.54		5
	1	36	18.61		5
	1	74	18.66		5
	36	0	18.49	0-5	5
	36	18	18.50		5
	36	37	18.57		5
	75	0	18.53		5

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Table 10-19
LTE Band 26 (Cell) Antenna A Measured P_{limit} for Free, or Hotspot Mode –
15 MHz Bandwidth

LTE Band 26 15 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			25865.0 (831.5 MHz) Conducted Power [dBm]		
QPSK	1	0	22.82	0	0
	1	36	22.78		0
	1	74	23.13		0
	36	0	22.90	0-1	0
	36	18	22.92		0
	36	37	22.94		0
	75	0	22.75		0
16QAM	1	0	23.15	0-1	0
	1	36	23.08		0
	1	74	23.12		0
	36	0	22.14	0-2	1
	36	18	22.04		1
	36	37	21.99		1
	75	0	22.09		1
64QAM	1	0	22.07	0-2	1
	1	36	22.07		1
	1	74	22.04		1
	36	0	21.04	0-3	2
	36	18	21.10		2
	36	37	21.07		2
	75	0	21.10		2
256QAM	1	0	19.05	0-5	4
	1	36	19.07		4
	1	74	18.99		4
	36	0	19.04		4
	36	18	19.09		4
	36	37	19.02		4
	75	0	19.04		4

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Table 10-20
LTE Band 26 (Cell) Antenna E Measured P_{Limit} for Free, or Hotspot Mode –
15 MHz Bandwidth

LTE Band 26 15 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26865.0 (831.5 MHz) Conducted Power [dBm]		
QPSK	1	0	20.00	0	0
	1	36	20.08		0
	1	74	20.35		0
	36	0	20.03	0-1	0
	36	18	20.21		0
	36	37	20.34		0
	75	0	20.24		0
16QAM	1	0	20.30	0-1	0
	1	36	20.40		0
	1	74	20.68		0
	36	0	20.03	0-2	0
	36	18	20.17		0
	36	37	20.31		0
	75	0	20.23		0
64QAM	1	0	20.07	0-2	0
	1	36	20.20		0
	1	74	20.46		0
	36	0	20.08	0-3	0
	36	18	20.22		0
	36	37	20.35		0
	75	0	20.22		0
256QAM	1	0	18.27	0-5	1.5
	1	36	18.49		1.5
	1	74	18.71		1.5
	36	0	18.36		1.5
	36	18	18.52		1.5
	36	37	18.67		1.5
	75	0	18.51		1.5

Table 10-21
LTE Band 26 (Cell) Antenna E Measured P_{Limit} for RCV Active–
15 MHz Bandwidth

LTE Band 26 15 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26865.0 (831.5 MHz) Conducted Power [dBm]		
QPSK	1	0	19.04	0	0
	1	36	19.07		0
	1	74	19.13		0
	36	0	19.04	0-1	0
	36	18	19.08		0
	36	37	19.10		0
	75	0	19.06		0
16QAM	1	0	19.32	0-1	0
	1	36	19.34		0
	1	74	19.46		0
	36	0	19.05	0-2	0
	36	18	19.06		0
	36	37	19.17		0
	75	0	19.12		0
64QAM	1	0	19.22	0-2	0
	1	36	19.22		0
	1	74	19.36		0
	36	0	19.08	0-3	0
	36	18	19.10		0
	36	37	19.13		0
	75	0	19.10		0
256QAM	1	0	18.55	0-5	0
	1	36	18.53		0
	1	74	18.54		0
	36	0	18.49		0
	36	18	18.52		0
	36	37	18.54		0
	75	0	18.47		0

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10.3.5 LTE Band 66

Table 10-22

LTE Band 66 (AWS) Antenna A Measured P_{Max} for RCV Active – 20 MHz Bandwidth

LTE Band 66 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			132072.0 (1720.0 MHz)	132322.0 (1745.0 MHz)	132572.0 (1770.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	22.87	22.97	23.03	0	0
	1	50	22.82	22.98	22.81		0
	1	99	22.86	23.08	22.77		0
	50	0	21.85	21.92	21.84	0-1	1
	50	25	21.81	21.96	21.79		1
	50	50	21.79	22.00	21.75		1
16QAM	100	0	21.79	21.94	21.79	0-1	1
	1	0	22.19	22.13	22.25		1
	1	50	22.09	22.15	22.14		1
	1	99	22.06	22.32	21.95	0-2	1
	50	0	20.81	20.91	20.78		2
	50	25	20.74	20.90	20.75		2
	50	50	20.77	20.96	20.71		2
	100	0	20.76	20.89	20.76		2
64QAM	1	0	20.93	20.93	21.09	0-2	2
	1	50	20.91	21.07	20.90		2
	1	99	20.90	21.14	20.83		2
	50	0	19.79	19.94	19.81	0-3	3
	50	25	19.80	19.92	19.77		3
	50	50	19.76	19.98	19.72		3
100	0	19.76	19.90	19.75	3		
256QAM	1	0	17.92	18.01	18.10	0-5	5
	1	50	17.80	17.98	17.77		5
	1	99	17.84	18.07	17.78		5
	50	0	17.76	17.85	17.80		5
	50	25	17.76	17.91	17.74		5
	50	50	17.73	17.98	17.71		5
	100	0	17.82	17.91	17.76		5

Table 10-23

LTE Band 66 (AWS) Antenna A Measured P_{limit} for Free, Hotspot Mode– 20 MHz Bandwidth

LTE Band 66 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			132072.0 (1720.0 MHz)	132322.0 (1745.0 MHz)	132572.0 (1770.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	18.00	18.05	18.12	0	0
	1	50	17.92	18.02	17.85		0
	1	99	17.95	18.14	17.91		0
	50	0	18.05	18.10	17.99	0-1	0
	50	25	17.97	18.11	18.02		0
	50	50	17.96	18.19	17.98		0
	100	0	17.98	18.13	18.04		0
16QAM	1	0	18.34	18.39	18.44	0-1	0
	1	50	18.14	18.34	18.21		0
	1	99	18.31	18.59	18.30		0
	50	0	17.95	18.12	18.05	0-2	0
	50	25	17.96	18.16	18.00		0
	50	50	17.92	18.21	17.94		0
	100	0	17.94	18.17	18.05		0
64QAM	1	0	18.21	18.23	18.37	0-2	0
	1	50	18.10	18.34	18.17		0
	1	99	18.18	18.40	18.15		0
	50	0	17.99	18.14	18.07	0-3	0
	50	25	17.95	18.19	18.00		0
	50	50	17.94	18.23	18.00		0
	100	0	18.00	18.16	18.00		0
256QAM	1	0	17.85	18.02	18.10	0-5	0
	1	50	17.81	17.98	17.81		0
	1	99	17.82	18.14	17.86		0
	50	0	17.78	17.89	17.81		0
	50	25	17.70	17.90	17.74		0
	50	50	17.73	17.98	17.70		0
	100	0	17.74	17.89	17.78		0

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Table 10-24
LTE Band 66 (AWS) Antenna F Measured P_{Limit} for Free, Hotspot Mode– 20 MHz Bandwidth

LTE Band 66 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			132072.0 (1720.0 MHz)	132322.0 (1745.0 MHz)	132572.0 (1770.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	18.53	18.35	18.38	0	0
	1	50	18.51	18.52	18.11		0
	1	99	18.43	18.51	18.21		0
	50	0	18.39	18.41	18.39	0-1	0
	50	25	18.34	18.39	18.33		0
	50	50	18.42	18.40	18.26		0
	100	0	18.34	18.31	18.33	0	
16QAM	1	0	18.71	18.29	18.41	0-1	0
	1	50	18.71	18.55	18.16		0
	1	99	18.73	18.51	18.22		0
	50	0	18.40	18.44	18.31	0-2	0
	50	25	18.34	18.52	18.24		0
	50	50	18.31	18.56	18.19		0
	100	0	18.36	18.49	18.31		0
64QAM	1	0	18.50	18.72	18.81	0-2	0
	1	50	18.52	18.92	18.63		0
	1	99	18.51	18.96	18.64		0
	50	0	18.40	18.43	18.41	0-3	0
	50	25	18.32	18.52	18.32		0
	50	50	18.30	18.56	18.26		0
	100	0	18.35	18.52	18.31		0
256QAM	1	0	18.59	18.75	18.71	0-5	0
	1	50	18.58	18.97	18.52		0
	1	99	18.61	18.96	18.57		0
	50	0	18.46	18.48	18.45		0
	50	25	18.40	18.53	18.37		0
	50	50	18.37	18.59	18.32		0
	100	0	18.42	18.55	18.38		0

Table 10-25
LTE Band 66 Antenna F (AWS) Measured P_{Limit} for RCV Active– 20 MHz Bandwidth

LTE Band 66 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			132072.0 (1720.0 MHz)	132322.0 (1745.0 MHz)	132572.0 (1770.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	15.61	15.90	15.81	0	0
	1	50	15.56	15.96	15.69		0
	1	99	15.56	16.04	15.68		0
	50	0	15.75	15.79	15.76	0-1	0
	50	25	15.68	15.88	15.69		0
	50	50	15.66	15.91	15.60		0
16QAM	100	0	15.67	15.86	15.69	0-1	0
	1	0	15.67	16.12	15.74		0
	1	50	15.61	16.11	15.66		0
	1	99	15.61	16.24	15.55	0-2	0
	50	0	15.65	15.74	15.75		0
	50	25	15.59	15.82	15.70		0
64QAM	50	50	15.59	15.86	15.62	0-2	0
	100	0	15.65	15.84	15.67		0
	1	0	16.06	15.92	16.16		0-2
	1	50	16.01	15.86	15.97	0	
	1	99	15.98	16.09	15.99	0	
	256QAM	50	0	15.72	15.74	15.77	0-3
50		25	15.67	15.82	15.70	0	
50		50	15.64	15.87	15.63	0	
100		0	15.68	15.84	15.69	0-5	0
1		0	16.01	16.01	16.20		0
1		50	15.95	16.07	15.99		0
256QAM	1	99	15.98	16.22	16.05	0-5	0
	50	0	15.79	15.82	15.78		0
	50	25	15.71	15.90	15.68		0
	50	50	15.72	15.96	15.63	0-5	0
	100	0	15.73	15.90	15.73		0

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10.3.6 LTE Band 25

Table 10-26

LTE Band 25 (PCS) Antenna A Measured P_{Max} for RCV Active – 20 MHz Bandwidth

LTE Band 25 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26140.0 (1860.0 MHz)	26365.0 (1882.5 MHz)	26590.0 (1905.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	22.40	22.53	22.66	0	0
	1	50	22.35	22.52	22.47		0
	1	99	22.46	22.58	22.52		0
	50	0	21.39	21.52	21.60	0-1	1
	50	25	21.35	21.55	21.57		1
	50	50	21.41	21.57	21.58		1
	100	0	21.41	21.57	21.51	1	
16QAM	1	0	21.42	21.56	21.70	0-1	1
	1	50	21.33	21.59	21.62		1
	1	99	21.59	21.78	21.58		1
	50	0	20.14	20.32	20.40	0-2	2
	50	25	20.18	20.43	20.34		2
	50	50	20.19	20.42	20.34		2
	100	0	20.18	20.42	20.38	2	
64QAM	1	0	20.41	20.55	20.59	0-2	2
	1	50	20.34	20.59	20.50		2
	1	99	20.50	20.51	20.48		2
	50	0	19.17	19.33	19.41	0-3	3
	50	25	19.16	19.36	19.30		3
	50	50	19.19	19.39	19.29		3
	100	0	19.16	19.33	19.30	3	
256QAM	1	0	17.40	17.33	17.42	0-5	5
	1	50	17.19	17.35	17.31		5
	1	99	17.31	17.44	17.31		5
	50	0	17.17	17.32	17.38		5
	50	25	17.19	17.32	17.32		5
	50	50	17.23	17.35	17.30		5
	100	0	17.22	17.34	17.31		5

Table 10-27

LTE Band 25 (PCS) Antenna A Measured P_{Limit} for Free, or Hotspot Mode–
20 MHz Bandwidth

LTE Band 25 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26140.0 (1860.0 MHz)	26365.0 (1882.5 MHz)	26590.0 (1905.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	17.17	17.22	17.32	0	0
	1	50	17.03	17.21	17.16		0
	1	99	17.18	17.27	17.20		0
	50	0	17.16	17.25	17.33	0-1	0
	50	25	17.16	17.27	17.30		0
	50	50	17.18	17.30	17.26		0
16QAM	100	0	17.17	17.28	17.31	0-1	0
	1	0	17.24	17.30	17.30		0
	1	50	17.14	17.21	17.31		0
	1	99	17.25	17.27	17.29	0-2	0
	50	0	16.90	17.02	17.05		0
	50	25	16.90	17.06	17.01		0
64QAM	50	50	16.93	17.06	17.02	0-2	0
	100	0	16.94	17.07	17.03		0
	1	0	17.22	17.17	17.20		0-2
	1	50	16.97	17.24	17.20	0	
	1	99	17.20	17.24	17.18	0	
	256QAM	50	0	16.92	16.99	17.07	0-3
50		25	16.90	17.04	17.02	0	
50		50	16.94	17.08	17.04	0	
100		0	16.91	17.08	17.05	0-5	0
1		0	17.00	17.03	17.04		0
1		50	16.88	16.96	17.03		0
256QAM	1	99	17.06	17.08	17.03	0-5	0
	50	0	16.85	16.95	17.04		0
	50	25	16.85	17.00	17.00		0
	50	50	16.92	16.99	16.96	0	
	100	0	16.86	17.02	16.98	0	

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Table 10-28
LTE Band 25 (PCS) Antenna F Measured P_{Limit} for Free, or Hotspot Mode–
20 MHz Bandwidth

LTE Band 25 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26140.0 (1860.0 MHz)	26365.0 (1882.5 MHz)	26590.0 (1905.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	19.40	19.24	19.36	0	0
	1	50	19.25	19.12	19.50		0
	1	99	19.45	19.40	19.66		0
	50	0	19.31	19.32	19.34	0-1	0
	50	25	19.32	19.36	19.47		0
	50	50	19.33	19.29	19.40		0
	100	0	19.36	19.36	19.46		0
16QAM	1	0	19.35	19.33	19.65	0-1	0
	1	50	19.25	19.19	19.77		0
	1	99	19.37	19.42	19.91		0
	50	0	19.35	19.24	19.32	0-2	0
	50	25	19.35	19.28	19.43		0
	50	50	19.38	19.24	19.35		0
	100	0	19.33	19.32	19.49		0
64QAM	1	0	19.72	19.76	19.42	0-2	0
	1	50	19.63	19.64	19.57		0
	1	99	19.81	19.83	19.72		0
	50	0	19.35	19.30	19.33	0-3	0
	50	25	19.36	19.37	19.43		0
	50	50	19.38	19.30	19.36		0
	100	0	19.34	19.35	19.47		0
256QAM	1	0	18.13	17.88	17.79	0-5	2
	1	50	17.98	17.82	17.91		2
	1	99	18.07	18.04	18.13		2
	50	0	17.66	17.64	17.66		2
	50	25	17.64	17.67	17.80		2
	50	50	17.68	17.65	17.75		2
	100	0	17.68	17.68	17.82		2

Table 10-29
LTE Band 25 (PCS) Antenna F Measured P_{Limit} for RCV Active –
20 MHz Bandwidth

LTE Band 25 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26140.0 (1860.0 MHz)	26365.0 (1882.5 MHz)	26590.0 (1905.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	17.33	17.32	17.24	0	0
	1	50	17.14	17.30	17.30		0
	1	99	17.19	17.43	17.32		0
	50	0	17.36	17.40	17.20	0-1	0
	50	25	17.15	17.37	17.29		0
	50	50	17.13	17.30	17.36		0
	100	0	17.16	17.39	17.28		0
16QAM	1	0	17.03	17.15	17.13	0-1	0
	1	50	16.95	16.99	17.19		0
	1	99	16.99	17.12	17.24		0
	50	0	16.75	16.89	16.73	0-2	0
	50	25	16.73	16.85	16.82		0
	50	50	16.75	16.82	16.73		0
	100	0	16.72	16.82	16.80		0
64QAM	1	0	17.01	16.94	16.91	0-2	0
	1	50	16.91	16.98	17.04		0
	1	99	17.00	17.12	17.10		0
	50	0	16.74	16.84	16.75	0-3	0
	50	25	16.72	16.88	16.83		0
	50	50	16.71	16.93	16.80		0
	100	0	16.70	16.89	16.90		0
256QAM	1	0	16.91	16.82	16.96	0-5	0
	1	50	16.64	16.84	16.77		0
	1	99	16.66	16.93	17.01		0
	50	0	16.71	16.78	16.80		0
	50	25	16.62	16.78	16.76		0
	50	50	16.67	16.73	16.76		0
	100	0	16.75	16.81	16.78		0

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10.3.7 LTE Band 41

Table 10-30
LTE Band 41 PC3 Antenna B Measured P_{Max} for RCV Active - 20 MHz Bandwidth

LTE Band 41 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750.0 (2506.0 MHz)	40185.0 (2549.5 MHz)	40620.0 (2593.0 MHz)	41055.0 (2636.5 MHz)	41490.0 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	24.01	24.02	23.92	23.54	23.53	0	0
	1	50	23.71	23.86	23.72	23.41	23.39		0
	1	99	23.86	23.89	23.76	23.56	23.56		0
	50	0	23.03	23.11	22.92	22.74	22.67	0-1	1
	50	25	23.02	23.10	22.98	22.74	22.70		1
	50	50	23.02	23.10	22.94	22.74	22.71		1
	100	0	23.01	23.10	22.95	22.71	22.67		1
16QAM	1	0	23.29	23.12	23.08	23.06	23.01	0-1	1
	1	50	23.32	23.06	23.09	23.04	23.00		1
	1	99	23.35	23.01	23.07	23.08	23.01		1
	50	0	21.93	22.02	21.92	21.62	21.60	0-2	2
	50	25	21.90	22.02	21.91	21.62	21.61		2
	50	50	21.94	21.99	21.92	21.63	21.64		2
	100	0	22.03	22.07	21.97	21.70	21.72		2
64QAM	1	0	21.41	22.01	21.41	21.29	21.12	0-2	2
	1	50	21.46	21.85	21.45	21.36	21.14		2
	1	99	21.39	21.90	21.36	21.33	21.12		2
	50	0	21.13	21.11	20.71	20.84	20.79	0-3	3
	50	25	21.12	21.09	20.74	20.82	20.81		3
	50	50	21.15	21.07	20.72	20.88	20.82		3
	100	0	20.94	21.07	20.89	20.63	20.68		3
256QAM	1	0	19.19	18.35	19.00	18.89	18.90	0-5	5
	1	50	19.12	18.24	18.92	18.78	18.83		5
	1	99	19.22	18.24	19.02	18.93	18.93		5
	50	0	18.91	19.11	18.96	18.61	18.63		5
	50	25	18.93	19.09	18.98	18.59	18.67		5
	50	50	18.95	19.06	18.96	18.64	18.63		5
	100	0	19.03	19.13	18.97	18.77	18.76		5

Table 10-31
LTE Band 41 PC2 Antenna B Measured P_{Max} for RCV Active - 20 MHz Bandwidth

LTE Band 41 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750.0 (2506.0 MHz)	40185.0 (2549.5 MHz)	40620.0 (2593.0 MHz)	41055.0 (2636.5 MHz)	41490.0 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	24.97	25.11	25.03	24.39	24.59	0	0
	1	50	25.04	24.95	24.99	24.28	24.53		0
	1	99	24.89	24.98	25.01	24.42	24.62		0
	50	0	24.62	24.62	24.41	24.15	24.23	0-1	1
	50	25	24.58	24.57	24.39	24.05	24.21		1
	50	50	24.56	24.49	24.34	24.05	24.19		1
	100	0	24.57	24.55	24.37	24.09	24.21		1

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Table 10-32
LTE Band 41 PC3 Antenna B Measured P_{Limit} for Free or Hotspot Mode - 20 MHz Bandwidth

LTE Band 41 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750.0 (2506.0 MHz)	40185.0 (2549.5 MHz)	40620.0 (2593.0 MHz)	41055.0 (2636.5 MHz)	41490.0 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	19.52	19.84	19.50	19.21	19.27	0	0
	1	50	19.51	19.56	19.44	19.10	19.15		0
	1	99	19.57	19.62	19.42	19.28	19.27		0
	50	0	19.74	19.86	19.65	19.40	19.37	0-1	0
	50	25	19.73	19.82	19.64	19.42	19.40		0
	50	50	19.73	19.80	19.61	19.43	19.42		0
	100	0	19.73	19.83	19.66	19.38	19.40		0
16QAM	1	0	20.01	19.87	19.78	19.70	19.33	0-1	0
	1	50	20.00	19.77	19.82	19.73	19.31		0
	1	99	20.06	19.76	19.75	19.77	19.35		0
	50	0	19.63	19.75	19.64	19.34	19.32	0-2	0
	50	25	19.62	19.73	19.62	19.33	19.34		0
	50	50	19.68	19.72	19.60	19.36	19.33		0
	100	0	19.77	19.80	19.66	19.43	19.43		0
64QAM	1	0	19.16	19.74	19.13	19.00	19.28	0-2	0
	1	50	19.21	19.54	19.17	19.05	19.19		0
	1	99	19.15	19.61	19.10	19.06	19.29		0
	50	0	19.91	19.85	19.43	19.55	19.44	0-3	0
	50	25	19.90	19.84	19.46	19.55	19.41		0
	50	50	19.93	19.81	19.44	19.58	19.44		0
	100	0	19.71	19.80	19.60	19.36	19.39		0
256QAM	1	0	19.54	18.71	19.36	19.20	18.22	0-5	0.5
	1	50	19.46	18.63	19.30	19.08	18.15		0.5
	1	99	19.57	18.58	19.30	19.20	18.21		0.5
	50	0	19.30	19.46	19.30	18.88	18.98		0.5
	50	25	19.28	19.45	19.30	18.83	19.01		0.5
	50	50	19.29	19.43	19.27	18.88	19.01		0.5
	100	0	19.42	19.53	19.28	18.96	19.04		0.5

Table 10-33
LTE Band 41 PC2 Antenna B Measured P_{Limit} for Free or Hotspot Mode - 20 MHz Bandwidth

LTE Band 41 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750.0 (2506.0 MHz)	40185.0 (2549.5 MHz)	40620.0 (2593.0 MHz)	41055.0 (2636.5 MHz)	41490.0 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	21.00	21.47	21.20	21.15	20.74	0	0
	1	50	20.91	21.14	21.16	20.47	20.78		0
	1	99	21.03	21.15	21.19	20.66	20.89		0
	50	0	21.57	21.61	21.42	21.19	21.22	0-1	0
	50	25	21.53	21.59	21.42	21.18	21.25		0
	50	50	21.54	21.54	21.42	21.18	21.27		0
	100	0	21.32	21.40	21.45	21.15	21.23		0

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Table 10-34
LTE Band 41 PC3 Antenna F Measured P_{Limit} for RCV Active - 20 MHz Bandwidth

LTE Band 41 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750.0 (2506.0 MHz)	40185.0 (2549.5 MHz)	40620.0 (2593.0 MHz)	41055.0 (2636.5 MHz)	41490.0 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	15.07	15.10	14.83	14.81	14.97	0	0
	1	50	14.83	14.88	14.85	14.79	14.82		0
	1	99	14.91	15.00	14.93	14.89	14.96		0
	50	0	15.12	15.16	15.02	15.02	15.06	0-1	0
	50	25	15.05	15.10	15.08	15.00	15.14		0
	50	50	15.10	15.05	15.08	15.02	15.15		0
	100	0	15.06	15.09	15.08	15.02	15.02		0
16QAM	1	0	15.37	14.96	15.12	15.35	14.97	0-1	0
	1	50	15.35	14.86	15.10	15.29	14.97		0
	1	99	15.43	14.89	15.22	15.39	15.03		0
	50	0	15.03	14.95	14.99	14.98	14.96	0-2	0
	50	25	14.98	14.92	15.02	14.99	15.04		0
	50	50	15.03	14.89	15.06	14.95	15.03		0
	100	0	15.08	14.97	15.05	15.09	15.13		0
64QAM	1	0	14.47	14.90	14.45	14.44	14.93	0-2	0
	1	50	14.59	14.77	14.52	14.51	14.94		0
	1	99	14.53	14.81	14.56	14.51	14.97		0
	50	0	15.23	15.03	14.82	15.22	15.08	0-3	0
	50	25	15.21	14.98	14.85	15.17	15.11		0
	50	50	15.24	14.98	14.88	15.22	15.16		0
	100	0	15.00	14.96	15.03	15.03	15.11		0
256QAM	1	0	15.16	14.23	15.08	15.17	14.25	0-5	0
	1	50	15.11	14.24	15.10	15.11	14.19		0
	1	99	15.23	14.22	15.21	15.21	14.17		0
	50	0	15.00	15.04	15.00	15.02	15.07		0
	50	25	14.97	14.99	15.02	14.95	15.10		0
	50	50	15.01	14.97	15.05	14.99	15.09		0
	100	0	15.07	15.03	15.04	15.06	15.16		0

Table 10-35
LTE Band 41 PC2 Antenna F Measured P_{Limit} for RCV Active - 20 MHz Bandwidth

LTE Band 41 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750.0 (2506.0 MHz)	40185.0 (2549.5 MHz)	40620.0 (2593.0 MHz)	41055.0 (2636.5 MHz)	41490.0 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	16.52	16.49	16.39	15.80	16.05	0	0
	1	50	15.91	16.09	16.32	15.68	16.07		0
	1	99	16.04	16.15	16.36	15.85	16.14		0
	50	0	16.55	16.58	16.52	16.32	16.48	0-1	0
	50	25	16.55	16.55	16.53	16.33	16.54		0
	50	50	16.55	16.52	16.55	16.38	16.54		0
	100	0	16.50	16.53	16.50	16.29	16.50		0

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Table 10-36
LTE Band 41 PC3 Antenna F Measured P_{Limit} for Free or Hotspot Mode - 20 MHz Bandwidth

LTE Band 41 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750.0 (2506.0 MHz)	40185.0 (2549.5 MHz)	40620.0 (2593.0 MHz)	41055.0 (2636.5 MHz)	41490.0 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	16.96	16.61	16.42	16.62	16.46	0	0
	1	50	16.56	16.35	16.33	16.33	16.37		0
	1	99	16.68	16.30	16.45	16.46	16.37		0
	50	0	16.59	16.58	16.54	16.53	16.52	0-1	0
	50	25	16.65	16.53	16.60	16.53	16.58		0
	50	50	16.59	16.50	16.63	16.54	16.59		0
	100	0	16.56	16.49	16.60	16.56	16.57		0
16QAM	1	0	16.73	16.89	16.47	16.68	16.84	0-1	0
	1	50	16.65	16.84	16.52	16.58	16.87		0
	1	99	16.76	16.79	16.56	16.72	16.86		0
	50	0	16.60	16.52	16.46	16.56	16.48	0-2	0
	50	25	16.55	16.47	16.52	16.55	16.54		0
	50	50	16.59	16.44	16.53	16.52	16.56		0
	100	0	16.58	16.55	16.59	16.59	16.67		0
64QAM	1	0	16.74	16.89	16.48	16.71	16.84	0-2	0
	1	50	16.65	16.81	16.54	16.61	16.87		0
	1	99	16.76	16.81	16.56	16.75	16.88		0
	50	0	16.59	16.51	16.48	16.53	16.48	0-3	0
	50	25	16.55	16.48	16.53	16.54	16.53		0
	50	50	16.57	16.46	16.54	16.55	16.53		0
	100	0	16.59	16.57	16.60	16.56	16.63		0
256QAM	1	0	16.74	16.93	16.45	16.68	16.83	0-5	0
	1	50	16.65	16.83	16.53	16.59	16.85		0
	1	99	16.75	16.81	16.55	16.75	16.86		0
	50	0	16.61	16.52	16.45	16.57	16.45		0
	50	25	16.56	16.49	16.50	16.55	16.53		0
	50	50	16.59	16.47	16.54	16.53	16.54		0
	100	0	16.58	16.59	16.59	16.55	16.63		0

Table 10-37
LTE Band 41 PC2 Antenna F Measured P_{Limit} for Free or Hotspot Mode - 20 MHz Bandwidth

LTE Band 41 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750.0 (2506.0 MHz)	40185.0 (2549.5 MHz)	40620.0 (2593.0 MHz)	41055.0 (2636.5 MHz)	41490.0 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	18.99	18.64	18.97	18.36	18.96	0	0
	1	50	18.42	18.61	18.92	18.30	18.49		0
	1	99	18.53	18.69	18.95	18.42	18.55		0
	50	0	19.02	19.01	19.09	18.88	19.04	0-1	0
	50	25	19.05	19.08	19.08	18.90	19.03		0
	50	50	19.05	19.08	19.03	18.92	19.07		0
	100	0	18.97	18.91	18.95	18.88	18.97		0



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 n12

Table 10-38
NR Band n12 Antenna A Measured P_{Max} for Free, RCV Active, or Hotspot - 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	24.06	0	0.0
	1	40	23.85		0.0
	1	77	23.84		0.0
	36	0	22.93	0-1	1.0
	36	22	24.01	0	0.0
	36	43	22.85	0-1	1.0
	75	0	22.95		1.0
DFT-s-OFDM 16QAM	1	1	22.90	0-1	1.0
CP-OFDM QPSK	1	1	22.45	0-1.5	1.5

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Table 10-39
NR Band n12 Antenna E Measured P_{limit} for Free, or Hotspot Mode - 15 MHz Bandwidth

NR Band n12 15 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			141500 (707.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	20.87	0	0.0
	1	40	20.91		0.0
	1	77	20.84		0.0
	36	0	20.83	0-1	0.0
	36	22	20.92	0	0.0
	36	43	20.85	0-1	0.0
	75	0	20.84		0.0
DFT-s-OFDM 16QAM	1	1	20.80	0-1	0.0
CP-OFDM QPSK	1	1	20.81	0-1.5	0.0

Table 10-40
NR Band n12 Antenna E Measured P_{limit} for RCV Active - 15 MHz Bandwidth

NR Band n12 15 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			141500 (707.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	18.82	0	0.0
	1	40	18.76		0.0
	1	77	18.86		0.0
	36	0	18.83	0-1	0.0
	36	22	18.81	0	0.0
	36	43	18.80	0-1	0.0
	75	0	18.81		0.0
DFT-s-OFDM 16QAM	1	1	18.77	0-1	0.0
CP-OFDM QPSK	1	1	19.00	0-1.5	0.0

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10.4.2 NR Band n26

Table 10-41
NR Band n26 Antenna A Measured P_{Max} for Free, RCV Active, or Hotspot - 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	23.56	0	0.0
	1	53	23.95		0.0
	1	104	24.01		0.0
	50	0	22.67	0-1	1.0
	50	28	23.96	0	0.0
	50	56	23.02	0-1	1.0
	100	0	22.86		1.0
DFT-s-OFDM 16QAM	1	1	22.56	0-1	1.0
CP-OFDM QPSK	1	1	22.07	0-1.5	1.5

Table 10-42
NR Band n26 Antenna E Measured P_{limit} for Free, or Hotspot Mode - 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	19.45	0	0.0
	1	53	19.67		0.0
	1	104	19.42		0.0
	50	0	19.68	0-1	0.0
	50	28	19.40	0	0.0
	50	56	19.47	0-1	0.0
	100	0	19.40		0.0
DFT-s-OFDM 16QAM	1	1	19.63	0-1	0.0
CP-OFDM QPSK	1	1	19.70	0-1.5	0.0

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Table 10-43
NR Band n26 Antenna E Measured P_{limit} for RCV Active - 20 MHz Bandwidth

NR Band n26 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			166300 (831.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	19.85	0	0.0
	1	53	19.87		0.0
	1	104	19.64		0.0
	50	0	19.88	0-1	0.0
	50	28	19.83	0	0.0
	50	56	19.70	0-1	0.0
	100	0	19.83		0.0
DFT-s-OFDM 16QAM	1	1	19.84	0-1	0.0
CP-OFDM QPSK	1	1	19.90	0-1.5	0.0

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10.4.3 NR Band n66

Table 10-44
NR Band n66 Antenna A Measured P_{Limit} for RCV Active–
40 MHz Bandwidth

NR Band n66 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			349000 (1745 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	23.21	0	0.0
	1	108	23.41		0.0
	1	214	23.23		0.0
	108	0	22.85	0-1	0.0
	108	54	23.33	0	0.0
	108	108	23.02	0-1	0.0
	216	0	22.98		0.0
DFT-s-OFDM 16QAM	1	1	22.79	0-1	0.0
CP-OFDM QPSK	1	1	22.38	0-1.5	0.5

Table 10-45
NR Band n66 Antenna A Measured P_{Limit} for Free, or Hotspot Mode Active–
40 MHz Bandwidth

NR Band n66 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			349000 (1745 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	18.11	0	0.0
	1	108	18.19		0.0
	1	214	18.28		0.0
	108	0	18.02	0-1	0.0
	108	54	18.20	0	0.0
	108	108	18.28	0-1	0.0
	216	0	18.10		0.0
DFT-s-OFDM 16QAM	1	1	18.00	0-1	0.0
CP-OFDM QPSK	1	1	18.06	0-1.5	0.0

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Table 10-46
NR Band n66 Antenna F Measured P_{Limit} for Free, or Hotspot Mode–
40 MHz Bandwidth

NR Band n66 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			349000 (1745 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	19.60	0	0.0
	1	108	19.91		0.0
	1	214	20.04		0.0
	108	0	19.75	0-1	0.0
	108	54	19.91	0	0.0
	108	108	20.09	0-1	0.0
	216	0	20.03		0.0
DFT-s-OFDM 16QAM	1	1	19.67	0-1	0.0
CP-OFDM QPSK	1	1	19.98	0-1.5	0.0

Table 10-47
NR Band n66 Antenna F Measured P_{Limit} for RCV Active–
40 MHz Bandwidth

NR Band n66 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			349000 (1745 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	15.68	0	0.0
	1	108	15.98		0.0
	1	214	15.75		0.0
	108	0	15.74	0-1	0.0
	108	54	15.93	0	0.0
	108	108	15.97	0-1	0.0
	216	0	15.93		0.0
DFT-s-OFDM 16QAM	1	1	15.69	0-1	0.0
CP-OFDM QPSK	1	1	15.72	0-1.5	0.0

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10.4.4 NR Band n25

Table 10-48
NR Band n25 Antenna A Measured P_{Max} for RCV Active - 40 MHz Bandwidth

NR Band n25 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			376500 (1882.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	23.31	0	0.0
	1	108	23.45		0.0
	1	214	23.31		0.0
	108	0	22.33	0-1	1.0
	108	54	23.40	0	0.0
	108	108	22.40	0-1	1.0
	216	0	22.38		1.0
DFT-s-OFDM 16QAM	1	1	22.21	0-1	1.0
CP-OFDM QPSK	1	1	21.73	0-1.5	1.5

Table 10-49
NR Band n25 Antenna A Measured P_{limit} for Free, or Hotspot Mode - 40 MHz Bandwidth

NR Band n25 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			376500 (1882.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	17.42	0	0.0
	1	108	17.44		0.0
	1	214	17.56		0.0
	108	0	17.39	0-1	0.0
	108	54	17.37	0	0.0
	108	108	17.47	0-1	0.0
	216	0	17.44		0.0
DFT-s-OFDM 16QAM	1	1	17.35	0-1	0.0
CP-OFDM QPSK	1	1	17.44	0-1.5	0.0

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Table 10-50
NR Band n25 Antenna F Measured P_{Limit} for RCV Active–
40 MHz Bandwidth

NR Band n25 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			376500 (1882.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	17.38	0	0.0
	1	108	17.40		0.0
	1	214	17.32		0.0
	108	0	17.28	0-1	0.0
	108	54	17.30	0	0.0
	108	108	17.41	0-1	0.0
	216	0	17.37		0.0
DFT-s-OFDM 16QAM	1	1	17.37	0-1	0.0
CP-OFDM QPSK	1	1	17.40	0-1.5	0.0

Table 10-51
NR Band n25 Antenna F Measured P_{Limit} for Free, Hotspot Mode–
40 MHz Bandwidth

NR Band n25 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			376500 (1882.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	19.48	0	0.0
	1	108	19.16		0.0
	1	214	19.20		0.0
	108	0	19.26	0-1	0.0
	108	54	19.28	0	0.0
	108	108	19.50	0-1	0.0
	216	0	19.45		0.0
DFT-s-OFDM 16QAM	1	1	19.25	0-1	0.0
CP-OFDM QPSK	1	1	19.28	0-1.5	0.0

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10.4.5

NR Band n41

Table 10-52
NR Band n41 Antenna B Path 2 Measured P_{Limit} for RCV Active –
100 MHz Bandwidth

NR Band n41 100 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			518598 (2592.99 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	20.82	0	0.0
	1	137	20.94		0.0
	1	271	20.50		0.0
	135	0	20.93	0-1	0.0
	135	69	20.91	0	0.0
	135	138	20.69	0-1	0.0
	270	0	20.90		0.0
DFT-s-OFDM 16QAM	1	1	20.84	0-1	0.0
CP-OFDM QPSK	1	1	20.90	0-1.5	0.0

Table 10-53
NR Band n41 Antenna B Path 2 Measured P_{Limit} for Free, Hotspot Mode –
100 MHz Bandwidth

NR Band n41 100 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			518598 (2592.99 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	17.65	0	0.0
	1	137	17.70		0.0
	1	271	17.30		0.0
	135	0	17.77	0-1	0.0
	135	69	17.62	0	0.0
	135	138	17.38	0-1	0.0
	270	0	17.62		0.0
DFT-s-OFDM 16QAM	1	1	17.67	0-1	0.0
CP-OFDM QPSK	1	1	17.65	0-1.5	0.0

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Table 10-54
NR Band n41 Antenna F Path 1 Measured P_{Limit} for Free, Hotspot Mode –
100 MHz Bandwidth

NR Band n41 100 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			518598 (2592.99 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	17.24	0	0.0
	1	137	17.57		0.0
	1	271	17.24		0.0
	135	0	17.42	0-1	0.0
	135	69	17.55	0	0.0
	135	138	17.38	0-1	0.0
	270	0	17.51		0.0
DFT-s-OFDM 16QAM	1	1	17.16	0-1	0.0
CP-OFDM QPSK	1	1	17.27	0-1.5	0.0

Table 10-55
NR Band n41 Antenna F Path 1 Measured P_{Limit} for RCV Active –
100 MHz Bandwidth

NR Band n41 100 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			518598 (2592.99 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	16.19	0	0.0
	1	137	16.54		0.0
	1	271	16.30		0.0
	135	0	16.40	0-1	0.0
	135	69	16.52	0	0.0
	135	138	16.39	0-1	0.0
	270	0	16.48		0.0
DFT-s-OFDM 16QAM	1	1	16.20	0-1	0.0
CP-OFDM QPSK	1	1	16.23	0-1.5	0.0

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Table 10-56
NR Band n41 CW SRS Antenna B, E Path 1 Measured P_{Limit} for RCV Active–
100 MHz Bandwidth

NR Band n41 100 MHz Bandwidth	
Channel	
Antenna	518598 (2592.99 MHz)
	Conducted Power [dBm]
SRS #1 Ant B	21.29
SRS #2 Ant E	14.96

Table 10-57
NR Band n41 Antenna B, E Path 1 Measured P_{Limit} for Free, or Hotspot Mode
and Antenna D Path 1 Measured P_{Limit} for Free, RCV Active or Hotspot Mode –
100 MHz Bandwidth

NR Band n41 100 MHz Bandwidth	
Channel	
Antenna	518598 (2592.99 MHz)
	Conducted Power [dBm]
SRS #1 Ant B	17.60
SRS #2 Ant E	15.94
SRS #3 Ant D	18.07

Table 10-58
NR Band n41 CW SRS Antenna F, E Path 2 Measured P_{Limit} for RCV Active–
100 MHz Bandwidth

NR Band n41 100 MHz Bandwidth	
Channel	
Antenna	518598 (2592.99 MHz)
	Conducted Power [dBm]
SRS #1 Ant F	16.75
SRS #3 Ant E	14.91

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Table 10-59
NR Band n41 Antenna F, E Path 2 Measured P_{Limit} for Free, or Hotspot Mode
And Antenna D Path 2 Measured P_{Limit} for Free, RCV Active, or Hotspot Mode –
100 MHz Bandwidth

NR Band n41 100 MHz Bandwidth	
Channel	
Antenna	518598 (2592.99 MHz)
	Conducted Power [dBm]
SRS #2 Ant F	17.08
SRS #3 Ant D	18.07
SRS #4 Ant E	16.11

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10.4.6 NR Band n77

Table 10-60
NR Band n77 Antenna F Measured P_{Limit} for Free, or Hotspot Mode –
100 MHz Bandwidth

NR Band n77 100 MHz Bandwidth						
			Channel		MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	650000 (3750 MHz)	662000 (3930 MHz)		
			Conducted Power [dBm]			
DFT-s-OFDM QPSK	1	1	15.22	14.93	0	0.0
	1	137	15.41	15.07		0.0
	1	271	14.98	15.18		0.0
	135	0	15.41	15.27	0-1	0.0
	135	69	15.40	15.14	0	0.0
	135	138	15.20	15.31	0-1	0.0
	270	0	15.38	15.17		0.0
DFT-s-OFDM 16QAM	1	1	15.05	15.06	0-1	0.0
CP-OFDM QPSK	1	1	15.14	15.05	0-1.5	0.0

Table 10-61
NR Band n77 Antenna F Measured P_{Limit} for RCV Active –
100 MHz Bandwidth

NR Band n77 100 MHz Bandwidth						
			Channel		MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	650000 (3750 MHz)	662000 (3930 MHz)		
			Conducted Power [dBm]			
DFT-s-OFDM QPSK	1	1	14.31	14.25	0	0.0
	1	137	14.51	14.46		0.0
	1	271	14.03	14.24		0.0
	135	0	14.58	14.49	0-1	0.0
	135	69	14.48	14.32	0	0.0
	135	138	14.20	14.57	0-1	0.0
	270	0	14.45	14.38		0.0
DFT-s-OFDM 16QAM	1	1	14.28	14.28	0-1	0.0
CP-OFDM QPSK	1	1	14.32	14.20	0-1.5	0.0

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Table 10-62
NR Band n77 DoD Antenna F Measured P_{Limit} for Free, or Hotspot Mode –
100 MHz Bandwidth

NR Band n77 DoD 100 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			633334 (3500.01 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	15.32	0	0.0
	1	137	15.05		0.0
	1	271	15.55		0.0
	135	0	15.24	0-1	0.0
	135	69	15.05	0	0.0
	135	138	15.27	0-1	0.0
	270	0	15.10		0.0
DFT-s-OFDM 16QAM	1	1	15.35	0-1	0.0
CP-OFDM QPSK	1	1	15.35	0-1.5	0.0

Table 10-63
NR Band n77 DoD Antenna F Measured P_{Limit} for RCV Active –
100 MHz Bandwidth

NR Band n77 DoD 100 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			633334 (3500.01 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	14.34	0	0.0
	1	137	14.08		0.0
	1	271	14.50		0.0
	135	0	14.19	0-1	0.0
	135	69	14.10	0	0.0
	135	138	14.22	0-1	0.0
	270	0	14.08		0.0
DFT-s-OFDM 16QAM	1	1	14.39	0-1	0.0
CP-OFDM QPSK	1	1	14.35	0-1.5	0.0

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Table 10-64
NR Band n77 Antenna C, D Measured P_{Limit} for Free, or Hotspot Mode and
Antenna H Measured P_{Limit} for Free, RCV Active, or Hotspot Mode –
100 MHz Bandwidth

NR Band n77		
100 MHz Bandwidth		
Channel		
Antenna	650000 (3750 MHz)	662000 (3930 MHz)
	Conducted Power [dBm]	
SRS #2 Ant C	17.24	18.64
SRS #3 Ant H	12.78	13.49
SRS #4 Ant D	13.87	12.78

Table 10-65
NR Band n77 Antenna C, D, Measured P_{Limit} for RCV Active –
100 MHz Bandwidth

NR Band n77		
100 MHz Bandwidth		
Channel		
Antenna	650000 (3750 MHz)	662000 (3930 MHz)
	Conducted Power [dBm]	
SRS #2 Ant C	16.22	17.64
SRS #4 Ant D	15.28	14.74

Table 10-66
NR Band n77 DoD Antenna C, D Measured P_{Limit} for Free, or Hotspot Mode
and Antenna H Measured P_{Limit} for Free, RCV Active or Hotspot Mode –
100 MHz Bandwidth

NR Band n77 DoD	
100 MHz Bandwidth	
Channel	
Antenna	633334 (3500.01 MHz)
	Conducted Power [dBm]
SRS #2 Ant C	17.01
SRS #3 Ant H	13.24
SRS #4 Ant D	13.96

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Table 10-67
NR Band n77 DOD Antenna C, D Measured P_{Limit} for RCV Active –
100 MHz Bandwidth

NR Band n77 DoD 100 MHz Bandwidth	
Channel	
Antenna	633334 (3500.01 MHz)
	Conducted Power [dBm]
SRS #2 Ant C	16.01
SRS #4 Ant D	15.88



Figure 10-4
Power Measurement Setup – NR FDD

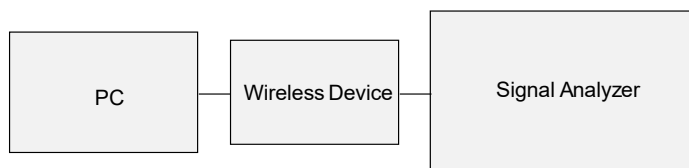


Figure 10-5
Power Measurement Setup – NR TDD

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10.5 WLAN Conducted Powers

Table 10-68

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

2.4GHz WIFI (20MHz 802.11b SISO ANT G)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	14.99
2437	6		15.14
2462	11		15.13

Table 10-69

2.4 GHz WLAN P_{Limit} for DSI = 1 (Head) RF Power – Ant G

2.4GHz WIFI (20MHz 802.11b SISO ANT G)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	13.20
2437	6		13.74
2462	11		13.50

Table 10-70

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

2.4GHz WIFI (20MHz 802.11b SISO ANT I)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	15.95
2437	6		15.96
2462	11		15.63

Table 10-71

2.4 GHz WLAN P_{Limit} for DSI = 1 (Head) RF Power – Ant I

2.4GHz WIFI (20MHz 802.11b SISO ANT I)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	12.53
2437	6		12.46
2462	11		12.02

Table 10-72

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

2.4GHz WIFI (20MHz 802.11b MIMO)					
Freq [MHz]	Channel	Detector	Conducted Power [dBm]		
			ANT G	ANT I	MIMO
2412	1	Average	15.03	15.99	18.55
2437	6		15.33	15.72	18.54
2462	11		15.35	15.67	18.52

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Table 10-73

2.4 GHz WLAN P_{Limit} for DSI = 1 (Head) RF Power – MIMO

2.4GHz WIFI (20MHz 802.11b MIMO)					
Freq [MHz]	Channel	Detector	Conducted Power [dBm]		
			ANT1	ANT2	MIMO
2412	1	Average	13.24	12.37	15.84
2437	6		13.64	12.08	15.94
2462	11		13.50	12.42	16.00

Table 10-74

5 GHz WLAN P_{Limit} for DSI = 0 (Body-worn, Head, or Hotspot) RF Power – Ant G

5GHz WIFI (80MHz 802.11ac SISO ANTG)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	11.64
UNII-2A	5290	58	11.79
UNII-2C	5530	106	11.20
	5610	122	11.27
	5690	138	11.46
UNII-3	5775	155	11.37
UNII-4	5855	171	11.28

Table 10-75

5 GHz WLAN P_{Limit} for DSI = 0/1 (Body-worn, Head, or Hotspot) RF Power – Ant E

5GHz WIFI (80MHz 802.11ac SISO ANTE)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	11.07
UNII-2A	5290	58	11.25
UNII-2C	5530	106	11.82
	5610	122	11.71
	5690	138	11.63
UNII-3	5775	155	11.96
UNII-4	5855	171	11.59

Table 10-76

5 GHz WLAN P_{Limit} for DSI = 0/1 (Body-worn, Head, or Hotspot) RF Power – MIMO

5GHz WIFI (80MHz 802.11ac MIMO)					
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]		
			ANT G	ANT E	MIMO
UNII-1	5210	42	11.61	11.02	14.34
UNII-2A	5290	58	11.66	11.05	14.38
UNII-2C	5530	106	11.19	11.56	14.39
	5610	122	11.11	11.50	14.32
	5690	138	11.01	11.49	14.27
UNII-3	5775	155	11.22	11.87	14.57
UNII-4	5855	171	11.14	11.33	14.25

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Table 10-77

6 GHz WLAN P_{Limit} for DSI = 0/1 (Body-worn, Head, or Hotspot) RF Power – Ant G

6GHz WIFI (160MHz 802.11ax SISO ANT G)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	6025	15	8.74
	6345	79	8.90
UNII-6	6505	111	9.25
UNII-7	6665	143	8.83
UNII-8	6985	207	8.80

Table 10-78

6 GHz WLAN P_{Limit} for DSI = 0/1 (Body-worn, Head, or Hotspot) RF Power – Ant E

6GHz WIFI (160MHz 802.11ax SISO ANT E)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	6025	15	8.74
	6345	79	9.07
UNII-6	6505	111	9.41
UNII-7	6665	143	9.12
UNII-8	6985	207	9.00

Table 10-79

6 GHz WLAN P_{Limit} for DSI = 0/1 (Body-worn, Head, or Hotspot) RF Power – MIMO

6GHz WIFI (160MHz 802.11ax MIMO)					
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]		
			ANT G	ANT E	MIMO
UNII-5	6025	15	8.78	8.81	11.81
	6345	79	9.10	9.17	12.15
UNII-6	6505	111	9.30	9.46	12.39
UNII-7	6665	143	8.83	9.20	12.03
UNII-8	6985	207	8.86	9.30	12.10

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

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

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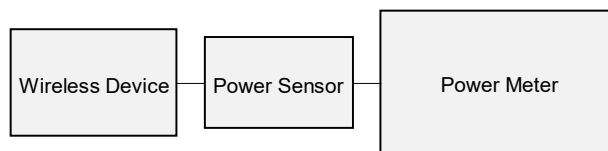


Figure 10-6
Power Measurement Setup

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10.6 Bluetooth Conducted Powers

Table 10-80
Bluetooth Measured Max Power Level – Ant G

Frequency [MHz]	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
			[dBm]	[mW]
2402	1.0	0	16.25	42.170
2441	1.0	39	16.29	42.560
2480	1.0	78	16.30	42.658
2402	2.0	0	13.83	24.166
2441	2.0	39	13.73	23.627
2480	2.0	78	14.04	25.351
2402	3.0	0	13.67	23.302
2441	3.0	39	13.78	23.895
2480	3.0	78	14.09	25.615

Table 10-81
Bluetooth LE Measured Max Power Level – Ant G

Frequency [MHz]	Data Rate [Mbps]	Channel No.	Bluetooth Mode	Peak Conducted Power	
				[dBm]	[mW]
2402	1 Mbps	0	LE	16.08	40.551
2440	1 Mbps	19	LE	14.91	30.974
2480	1 Mbps	38	LE	15.82	38.194
2404	2 Mbps	0	LE	16.49	44.566
2440	2 Mbps	19	LE	16.16	41.305
2478	2 Mbps	38	LE	16.19	41.591

Table 10-82
Bluetooth Measured Max Power Level – Ant I

Frequency [MHz]	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
			[dBm]	[mW]
2402	1.0	0	18.20	66.046
2441	1.0	39	17.97	62.620
2480	1.0	78	18.25	66.854
2519	2.0	0	15.93	39.148
2558	2.0	39	15.60	36.324
2597	2.0	78	15.76	37.707
2753	3.0	0	15.99	39.753
2792	3.0	39	15.66	36.830
2831	3.0	78	15.84	38.377

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Table 10-83
Bluetooth LE Measured Max Power Level– Ant I

Frequency [MHz]	Data Rate [Mbps]	Channel No.	Bluetooth Mode	Peak Conducted Power	
				[dBm]	[mW]
2402	1 Mbps	0	LE	18.36	68.549
2440	1 Mbps	19	LE	18.13	65.013
2480	1 Mbps	38	LE	18.26	66.988
2404	2 Mbps	0	LE	18.02	63.387
2440	2 Mbps	19	LE	18.08	64.269
2478	2 Mbps	38	LE	17.96	62.517

Table 10-84
Bluetooth Measured for when RCV is active – Ant G

Frequency [MHz]	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
			[dBm]	[mW]
2402	1.0	0	13.67	23.281
2441	1.0	39	13.62	23.014
2480	1.0	78	14.02	25.235
2519	2.0	0	13.93	24.717
2558	2.0	39	13.84	24.210
2597	2.0	78	14.34	27.164
2753	3.0	0	13.94	24.774
2792	3.0	39	13.86	24.322
2831	3.0	78	14.38	27.416

Table 10-85
Bluetooth LE Measured for when RCV is active – Ant G

Frequency [MHz]	Data Rate [Mbps]	Channel No.	Bluetooth Mode	Peak Conducted Power	
				[dBm]	[mW]
2402	1 Mbps	0	LE	13.96	24.889
2440	1 Mbps	19	LE	13.84	24.210
2480	1 Mbps	38	LE	14.46	27.925
2404	2 Mbps	0	LE	13.80	23.988
2440	2 Mbps	19	LE	13.84	24.210
2478	2 Mbps	38	LE	14.44	27.797

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Table 10-86
Bluetooth Measured for when RCV is active – Ant I

Frequency [MHz]	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
			[dBm]	[mW]
2402	1.0	0	15.57	36.058
2441	1.0	39	15.63	36.559
2480	1.0	78	15.51	35.563
2402	2.0	0	15.53	35.727
2441	2.0	39	15.58	36.141
2480	2.0	78	15.56	35.975
2402	3.0	0	15.52	35.645
2441	3.0	39	15.56	35.975
2480	3.0	78	15.45	35.075

Table 10-87
Bluetooth LE Measured for when RCV is active – Ant I

Frequency [MHz]	Data Rate [Mbps]	Channel No.	Bluetooth Mode	Peak Conducted Power	
				[dBm]	[mW]
2402	1 Mbps	0	LE	15.66	36.813
2440	1 Mbps	19	LE	15.46	35.156
2480	1 Mbps	38	LE	15.81	38.107
2404	2 Mbps	0	LE	15.48	35.318
2440	2 Mbps	19	LE	15.39	34.594
2478	2 Mbps	38	LE	15.71	37.239

Table 10-88
Bluetooth Measured for Max Power Level – Ant MIMO

Frequency [MHz]	Data Rate [Mbps]	Channel No.	ANT G Avg Conducted Power		ANT I Avg Conducted Power		Dual Avg Conducted Power	
			[dBm]	[mW]	[dBm]	[mW]	[dBm]	[mW]
2402	1.0	0	13.31	21.447	13.64	23.095	16.49	44.542
2441	1.0	39	13.69	23.370	12.41	17.403	16.10	40.773
2480	1.0	78	13.83	24.170	12.83	19.190	16.37	43.360
2402	2.0	0	10.07	10.162	10.92	12.359	13.53	22.522
2441	2.0	39	9.42	8.750	10.71	11.776	13.12	20.526
2480	2.0	78	9.91	9.795	10.37	10.889	13.16	20.684
2402	3.0	0	10.09	10.209	10.91	12.331	13.53	22.540
2441	3.0	39	9.45	8.810	10.73	11.830	13.15	20.641
2480	3.0	78	9.89	9.750	10.40	10.965	13.16	20.715

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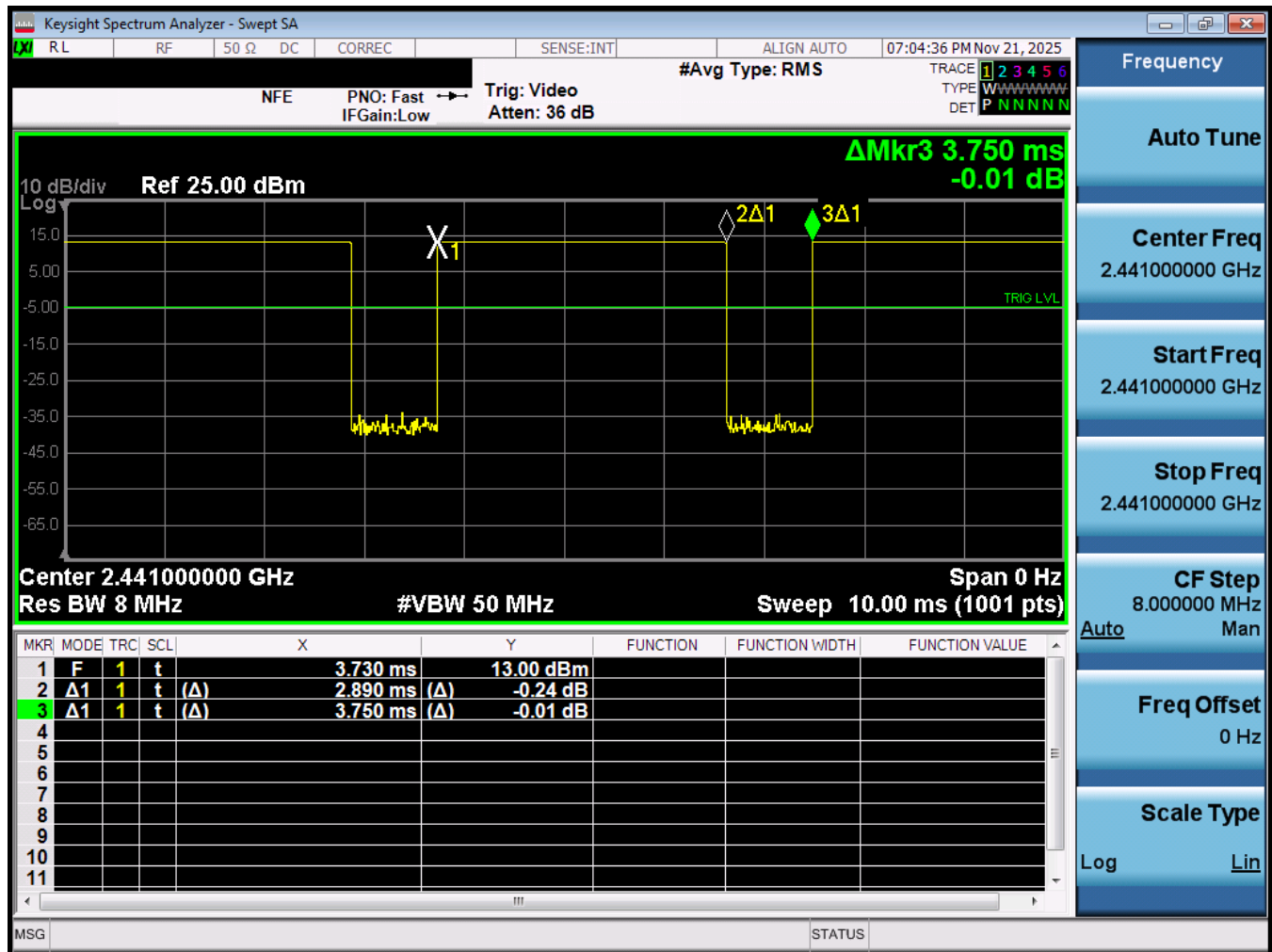
Table 10-89
Bluetooth LE Measured for Max Power Level – Ant MIMO

Frequency [MHz]	Data Rate [Mbps]	Channel No.	Bluetooth Mode	ANT G Peak Conducted Power		ANT I Peak Conducted Power		Dual Peak Conducted Power	
				[dBm]	[mW]	[dBm]	[mW]	[dBm]	[mW]
2402	1 Mbps	37	LE	13.64	23.110	13.88	24.406	16.77	47.516
2440	1 Mbps	17	LE	13.85	24.288	13.19	20.859	16.55	45.148
2480	1 Mbps	39	LE	13.80	23.999	13.31	21.409	16.57	45.409
2404	2 Mbps	0	LE	13.63	23.062	13.67	23.276	16.66	46.338
2440	2 Mbps	17	LE	13.91	24.592	13.19	20.845	16.57	45.437
2478	2 Mbps	36	LE	13.75	23.730	13.09	20.347	16.44	44.077

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Figure 10-7
Bluetooth Antenna G Transmission Plot



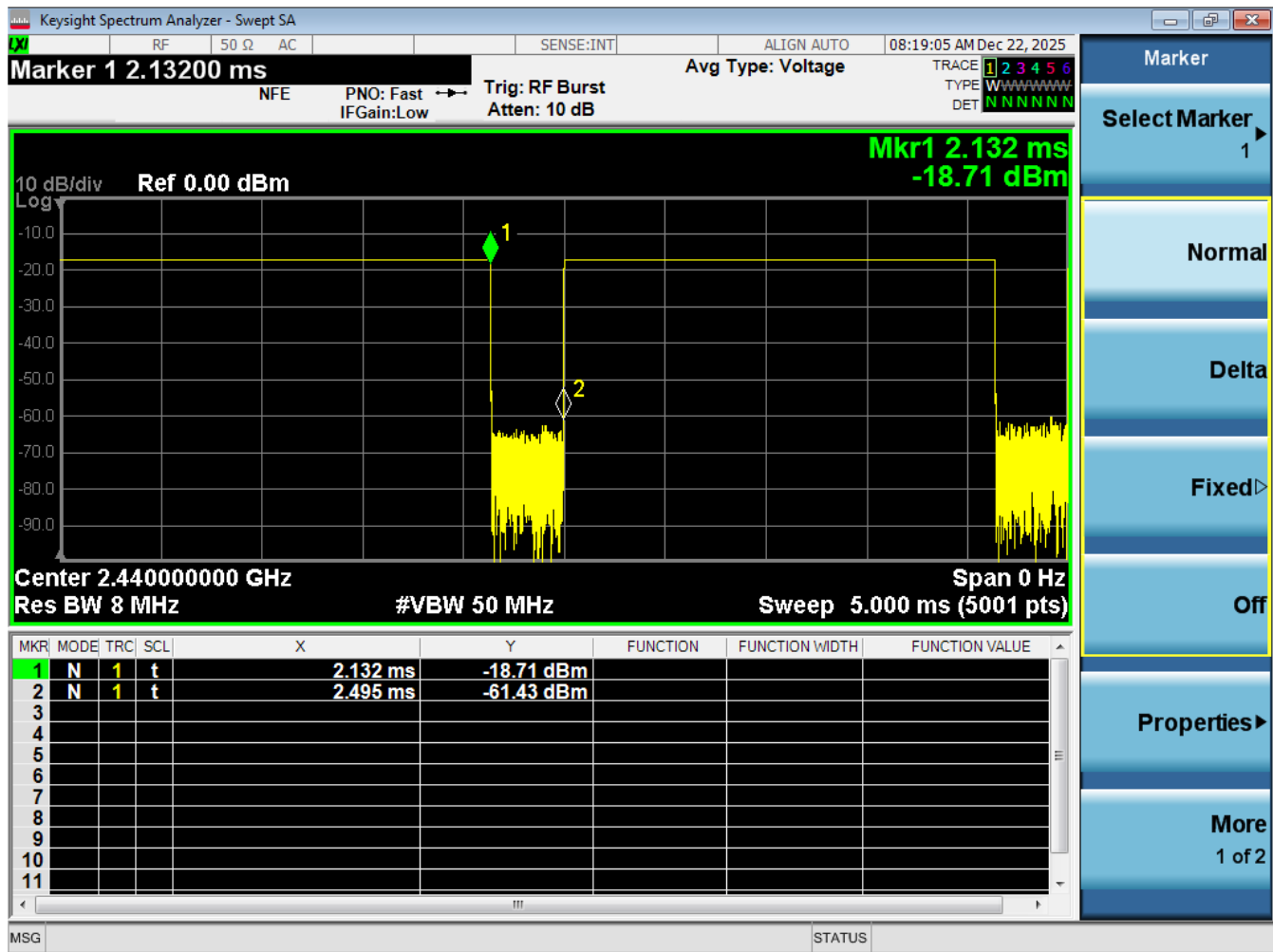
Equation 10-1
Bluetooth Antenna G Duty Cycle Calculation

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.89ms}{3.75ms} * 100\% = 77.1\%$$

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Figure 10-8
Bluetooth LE Antenna G Transmission Plot



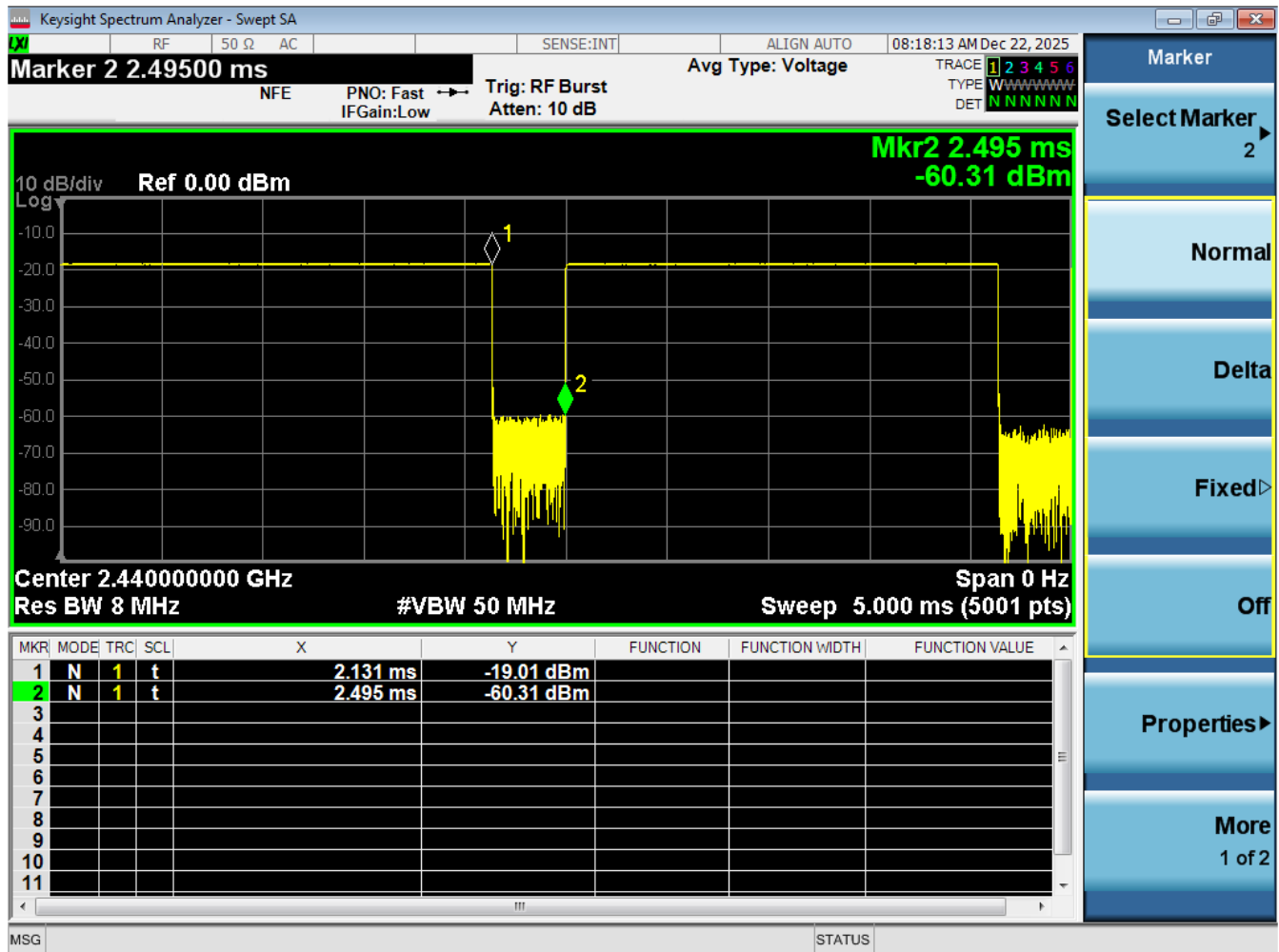
Equation 10-2
Bluetooth LE Antenna G Duty Cycle Calculation

$$Duty Cycle = \frac{Pulse Width}{Period} * 100\% = \frac{2.132ms}{2.495ms} * 100\% = 85.5\%$$

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Figure 10-10
Bluetooth LE Antenna I Transmission Plot



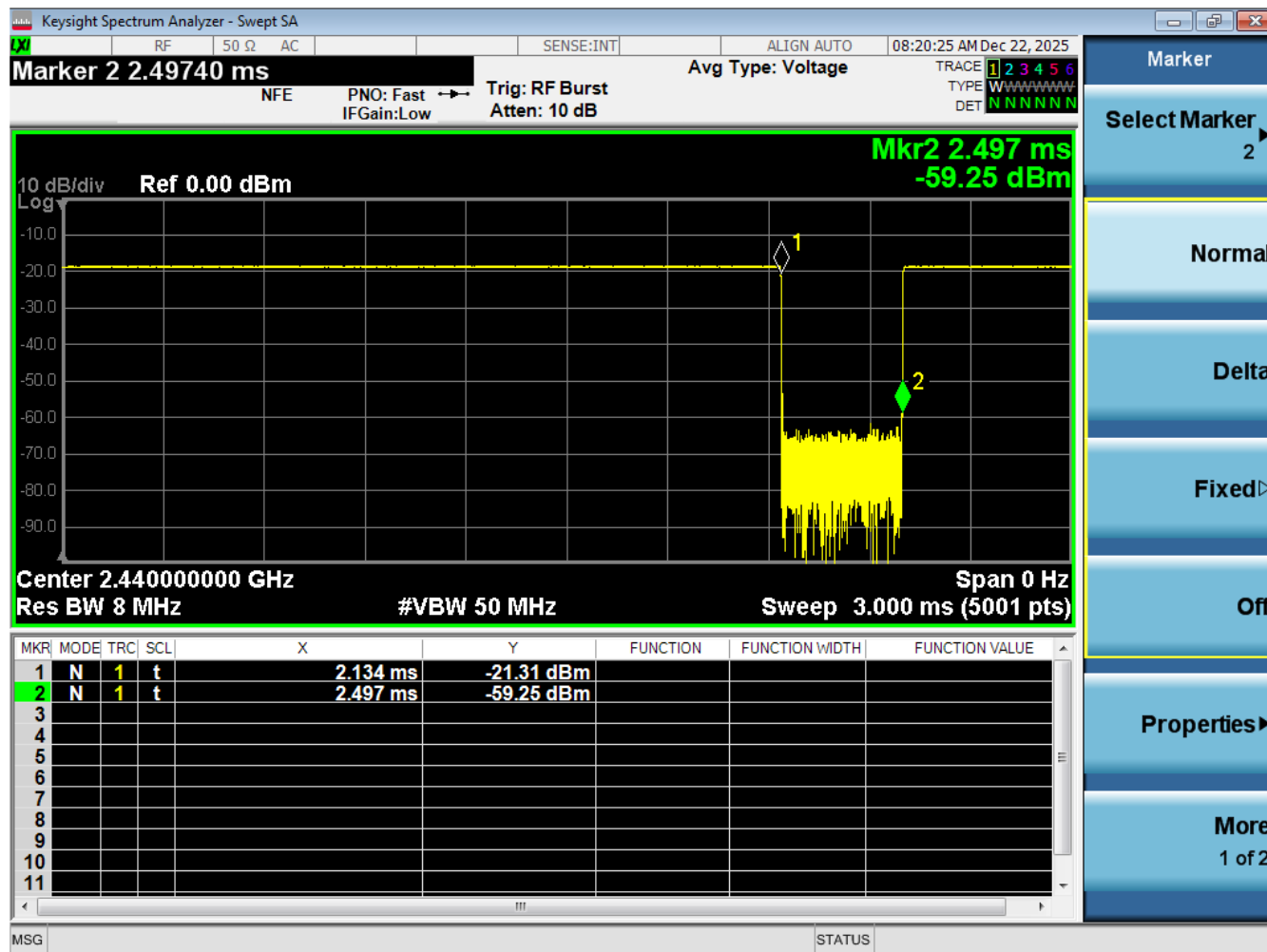
Equation 10-4
Bluetooth LE Antenna I Duty Cycle Calculation

$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.131\text{ms}}{2.495\text{ms}} * 100\% = 85.4\%$$

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Figure 10-12
Bluetooth LE Antenna MIMO Transmission Plot



Equation 10-6
Bluetooth LE Antenna MIMO Duty Cycle Calculation

$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.134\text{ms}}{2.497\text{ms}} * 100\% = 85.5\%$$

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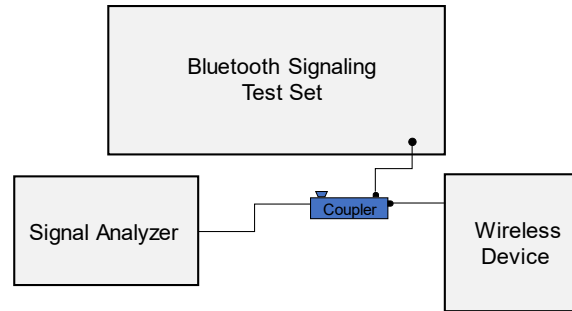


Figure 10-13
Power Measurement Setup

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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
12/30/2025	30 Head	22.5	12	0.776	52.439	0.750	55.000	3.47%	-4.66%
			13	0.776	52.613	0.750	55.000	3.47%	-4.34%
			14	0.776	52.660	0.750	55.000	3.47%	-4.25%
01/05/2026	750 Head	23.0	680	0.861	41.527	0.888	42.305	-3.04%	-1.84%
			695	0.865	41.478	0.889	42.227	-2.70%	-1.77%
			700	0.866	41.457	0.889	42.201	-2.59%	-1.76%
			710	0.869	41.418	0.890	42.149	-2.36%	-1.73%
			725	0.874	41.359	0.891	42.071	-1.91%	-1.69%
			750	0.882	41.302	0.894	41.942	-1.34%	-1.53%
			770	0.888	41.285	0.895	41.838	-0.78%	-1.32%
			785	0.893	41.261	0.896	41.760	-0.33%	-1.19%
			800	0.898	41.216	0.897	41.682	0.11%	-1.12%
11/13/2025	750 Head	21.0	680	0.848	40.518	0.888	42.305	-4.50%	-4.22%
			695	0.853	40.464	0.889	42.227	-4.05%	-4.18%
			710	0.857	40.403	0.890	42.149	-3.71%	-4.14%
			725	0.861	40.348	0.891	42.071	-3.37%	-4.10%
			750	0.869	40.243	0.894	41.942	-2.80%	-4.05%
			770	0.874	40.188	0.895	41.838	-2.35%	-3.94%
			785	0.878	40.148	0.896	41.760	-2.01%	-3.86%
11/17/2025	750 Head	22.9	800	0.883	40.125	0.897	41.682	-1.56%	-3.74%
			680	0.844	43.739	0.888	42.305	-4.95%	3.39%
			695	0.849	43.688	0.889	42.227	-4.50%	3.46%
			700	0.850	43.671	0.889	42.201	-4.39%	3.48%
			710	0.853	43.644	0.890	42.149	-4.16%	3.55%
			725	0.858	43.600	0.891	42.071	-3.70%	3.63%
			750	0.866	43.519	0.894	41.942	-3.13%	3.76%
			770	0.873	43.456	0.895	41.838	-2.46%	3.87%
11/27/2025	750 Head	24.6	785	0.878	43.419	0.896	41.760	-2.01%	3.97%
			800	0.883	43.383	0.897	41.682	-1.56%	4.08%
			680	0.895	40.266	0.888	42.305	0.79%	-4.82%
			695	0.900	40.223	0.889	42.227	1.24%	-4.75%
			710	0.906	40.166	0.890	42.149	1.80%	-4.70%
			725	0.911	40.113	0.891	42.071	2.24%	-4.65%
			750	0.919	40.054	0.894	41.942	2.80%	-4.50%
			770	0.925	40.028	0.895	41.838	3.35%	-4.33%
	750 Head	24.6	785	0.929	39.945	0.896	41.760	3.68%	-4.35%
			800	0.933	39.891	0.897	41.682	4.01%	-4.30%

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Table 11-2
Measured Head Tissue Properties (Cont.)

Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ϵ	% dev σ	% dev ϵ
12/08/2025	750 Head	24.1	680	0.864	40.572	0.888	42.305	-2.70%	-4.10%
			695	0.869	40.517	0.889	42.227	-2.25%	-4.05%
			710	0.873	40.468	0.890	42.149	-1.91%	-3.99%
			725	0.877	40.431	0.891	42.071	-1.57%	-3.90%
			750	0.885	40.402	0.894	41.942	-1.01%	-3.67%
			770	0.890	40.340	0.895	41.838	-0.56%	-3.58%
			785	0.895	40.275	0.896	41.760	-0.11%	-3.56%
12/29/2025	750 Head	23.2	800	0.901	40.222	0.897	41.682	0.45%	-3.50%
			680	0.883	41.252	0.888	42.305	-0.56%	-2.49%
			695	0.888	41.206	0.889	42.227	-0.11%	-2.42%
			700	0.889	41.195	0.889	42.201	0.00%	-2.38%
			710	0.892	41.169	0.890	42.149	0.22%	-2.33%
			725	0.898	41.136	0.891	42.071	0.79%	-2.22%
			750	0.906	41.071	0.894	41.942	1.34%	-2.08%
11/13/2025	835 Head	21.0	770	0.912	41.002	0.895	41.838	1.90%	-2.00%
			785	0.917	40.938	0.896	41.760	2.34%	-1.97%
			800	0.922	40.874	0.897	41.682	2.79%	-1.94%
			815	0.888	40.105	0.898	41.594	-1.11%	-3.58%
11/17/2025	835 Head	22.9	820	0.890	40.096	0.899	41.578	-1.00%	-3.56%
			835	0.896	40.062	0.900	41.500	-0.44%	-3.47%
			850	0.902	40.010	0.916	41.500	-1.53%	-3.59%
			815	0.887	43.339	0.898	41.594	-1.22%	4.20%
11/19/2025	835 Head	22.0	820	0.889	43.324	0.899	41.578	-1.11%	4.20%
			835	0.894	43.286	0.900	41.500	-0.67%	4.30%
			850	0.899	43.256	0.916	41.500	-1.86%	4.23%
			815	0.893	42.411	0.898	41.594	-0.56%	1.96%
11/24/2025	835 Head	24.3	820	0.895	42.397	0.899	41.578	-0.44%	1.97%
			835	0.900	42.350	0.900	41.500	0.00%	2.05%
			850	0.906	42.317	0.916	41.500	-1.09%	1.97%
			815	0.904	40.038	0.898	41.594	0.67%	-3.74%
11/24/2025	835 Head	22.5	820	0.906	40.019	0.899	41.578	0.78%	-3.75%
			835	0.911	39.977	0.900	41.500	1.22%	-3.67%
			850	0.916	39.962	0.916	41.500	0.00%	-3.71%
			815	0.890	41.248	0.898	41.594	-0.89%	-0.83%
12/08/2025	835 Head	24.1	820	0.892	41.232	0.899	41.578	-0.78%	-0.83%
			835	0.896	41.193	0.900	41.500	-0.44%	-0.74%
			850	0.901	41.171	0.916	41.500	-1.64%	-0.79%
			815	0.906	40.177	0.898	41.594	0.89%	-3.41%
12/08/2025	835 Head	24.1	820	0.907	40.165	0.899	41.578	0.89%	-3.40%
			835	0.912	40.157	0.900	41.500	1.33%	-3.24%
			850	0.916	40.113	0.916	41.500	0.00%	-3.34%

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**Table 11-3
Measured Head Tissue Properties (Cont.)**

Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ϵ	% dev σ	% dev ϵ
01/05/2026	1750 Head	21.5	1700	1.310	41.510	1.343	40.145	-2.46%	3.40%
			1705	1.313	41.502	1.345	40.141	-2.38%	3.39%
			1710	1.316	41.495	1.348	40.136	-2.37%	3.39%
			1720	1.323	41.478	1.354	40.126	-2.29%	3.37%
			1745	1.339	41.446	1.368	40.087	-2.12%	3.39%
			1750	1.343	41.439	1.371	40.079	-2.04%	3.39%
			1770	1.354	41.415	1.383	40.047	-2.10%	3.42%
11/12/2025	1750 Head	20.2	1790	1.364	41.378	1.394	40.016	-2.15%	3.40%
			1700	1.293	40.705	1.343	40.145	-3.72%	1.39%
			1705	1.296	40.693	1.345	40.141	-3.64%	1.38%
			1710	1.298	40.683	1.348	40.136	-3.71%	1.36%
			1720	1.303	40.659	1.354	40.126	-3.77%	1.33%
			1745	1.317	40.598	1.368	40.087	-3.73%	1.27%
			1750	1.320	40.588	1.371	40.079	-3.72%	1.27%
11/17/2025	1750 Head	21.3	1770	1.330	40.561	1.383	40.047	-3.83%	1.28%
			1790	1.341	40.538	1.394	40.016	-3.80%	1.30%
			1700	1.279	40.197	1.343	40.145	-4.77%	0.13%
			1705	1.282	40.189	1.345	40.141	-4.68%	0.12%
			1710	1.284	40.182	1.348	40.136	-4.75%	0.11%
			1720	1.289	40.160	1.354	40.126	-4.80%	0.08%
			1745	1.302	40.100	1.368	40.087	-4.82%	0.03%
11/17/2025	1750 Head	19.0	1750	1.305	40.089	1.371	40.079	-4.81%	0.02%
			1770	1.316	40.054	1.383	40.047	-4.84%	0.02%
			1790	1.326	40.035	1.394	40.016	-4.88%	0.05%
			1700	1.301	39.775	1.343	40.145	-3.13%	-0.92%
			1705	1.304	39.763	1.345	40.141	-3.05%	-0.94%
			1710	1.307	39.755	1.348	40.136	-3.04%	-0.95%
			1720	1.312	39.735	1.354	40.126	-3.10%	-0.97%
12/08/2025	1750 Head	19.0	1745	1.326	39.675	1.368	40.087	-3.07%	-1.03%
			1750	1.329	39.665	1.371	40.079	-3.06%	-1.03%
			1770	1.340	39.625	1.383	40.047	-3.11%	-1.05%
			1790	1.351	39.605	1.394	40.016	-3.08%	-1.03%
			1700	1.289	39.201	1.343	40.145	-4.02%	-2.35%
			1705	1.292	39.194	1.345	40.141	-3.94%	-2.36%
			1710	1.295	39.185	1.348	40.136	-3.93%	-2.37%
12/11/2025	1750 Head	21.5	1720	1.301	39.156	1.354	40.126	-3.91%	-2.42%
			1745	1.319	39.063	1.368	40.087	-3.58%	-2.55%
			1750	1.323	39.045	1.371	40.079	-3.50%	-2.58%
			1770	1.337	38.995	1.383	40.047	-3.33%	-2.63%
			1790	1.350	38.971	1.394	40.016	-3.16%	-2.61%
			1700	1.331	38.727	1.343	40.145	-0.89%	-3.53%
			1705	1.334	38.719	1.345	40.141	-0.82%	-3.54%
12/15/2025	1750 Head	18.0	1710	1.337	38.709	1.348	40.136	-0.82%	-3.56%
			1720	1.343	38.692	1.354	40.126	-0.81%	-3.57%
			1745	1.357	38.638	1.368	40.087	-0.80%	-3.61%
			1750	1.360	38.630	1.371	40.079	-0.80%	-3.62%
			1770	1.372	38.605	1.383	40.047	-0.80%	-3.60%
			1790	1.383	38.580	1.394	40.016	-0.79%	-3.59%
			1710	1.284	39.412	1.348	40.136	-4.75%	-1.80%
12/29/2025	1750 Head	23.6	1720	1.291	39.409	1.354	40.126	-4.65%	-1.79%
			1745	1.311	39.405	1.368	40.087	-4.17%	-1.70%
			1750	1.314	39.399	1.371	40.079	-4.16%	-1.70%
			1770	1.327	39.370	1.383	40.047	-4.05%	-1.69%
			1790	1.336	39.318	1.394	40.016	-4.16%	-1.74%
			1700	1.305	40.561	1.343	40.145	-2.83%	1.04%
			1705	1.308	40.553	1.345	40.141	-2.75%	1.03%
12/29/2025	1750 Head	23.6	1710	1.311	40.547	1.348	40.136	-2.74%	1.02%
			1720	1.317	40.535	1.354	40.126	-2.73%	1.02%
			1745	1.333	40.527	1.368	40.087	-2.56%	1.10%
			1750	1.337	40.526	1.371	40.079	-2.48%	1.12%
			1770	1.349	40.514	1.383	40.047	-2.46%	1.17%
			1790	1.360	40.469	1.394	40.016	-2.44%	1.13%

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**Table 11-4
Measured Head Tissue Properties (Cont.)**

Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ϵ	% dev σ	% dev ϵ
11/12/2025	1900 Head	20.2	1850	1.376	40.464	1.400	40.000	-1.71%	1.16%
			1860	1.381	40.459	1.400	40.000	-1.36%	1.15%
			1880	1.393	40.442	1.400	40.000	-0.50%	1.11%
			1900	1.405	40.417	1.400	40.000	0.36%	1.04%
			1905	1.409	40.411	1.400	40.000	0.64%	1.03%
			1910	1.412	40.406	1.400	40.000	0.86%	1.02%
			1920	1.419	40.400	1.400	40.000	1.36%	1.00%
11/17/2025	1900 Head	21.3	1850	1.358	39.964	1.400	40.000	-3.00%	-0.09%
			1860	1.364	39.954	1.400	40.000	-2.57%	-0.11%
			1880	1.376	39.937	1.400	40.000	-1.71%	-0.16%
			1900	1.386	39.914	1.400	40.000	-1.00%	-0.21%
			1905	1.388	39.906	1.400	40.000	-0.86%	-0.24%
			1910	1.391	39.895	1.400	40.000	-0.64%	-0.26%
			1920	1.397	39.880	1.400	40.000	-0.21%	-0.30%
11/17/2025	1900 Head	19.0	1850	1.385	39.520	1.400	40.000	-1.07%	-1.20%
			1860	1.391	39.510	1.400	40.000	-0.64%	-1.23%
			1880	1.403	39.492	1.400	40.000	0.21%	-1.27%
			1900	1.415	39.469	1.400	40.000	1.07%	-1.33%
			1905	1.417	39.462	1.400	40.000	1.21%	-1.34%
			1910	1.421	39.453	1.400	40.000	1.50%	-1.37%
			1920	1.427	39.437	1.400	40.000	1.93%	-1.41%
11/20/2025	1900 Head	24.5	1850	1.365	39.165	1.400	40.000	-2.50%	-2.09%
			1860	1.371	39.159	1.400	40.000	-2.07%	-2.10%
			1880	1.381	39.152	1.400	40.000	-1.36%	-2.12%
			1900	1.391	39.129	1.400	40.000	-0.64%	-2.18%
			1905	1.393	39.121	1.400	40.000	-0.50%	-2.20%
			1910	1.396	39.110	1.400	40.000	-0.29%	-2.23%
			1920	1.402	39.091	1.400	40.000	0.14%	-2.27%
11/24/2025	1900 Head	20.6	1850	1.406	38.643	1.400	40.000	0.43%	-3.39%
			1860	1.412	38.640	1.400	40.000	0.86%	-3.40%
			1880	1.423	38.625	1.400	40.000	1.64%	-3.44%
			1900	1.435	38.596	1.400	40.000	2.50%	-3.51%
			1905	1.438	38.589	1.400	40.000	2.71%	-3.53%
			1910	1.441	38.583	1.400	40.000	2.93%	-3.54%
			1920	1.448	38.573	1.400	40.000	3.43%	-3.57%
12/01/2025	1900 Head	19.0	1850	1.373	38.890	1.400	40.000	-1.93%	-2.78%
			1860	1.381	38.875	1.400	40.000	-1.36%	-2.81%
			1880	1.395	38.840	1.400	40.000	-0.36%	-2.90%
			1900	1.408	38.812	1.400	40.000	0.57%	-2.97%
			1905	1.411	38.804	1.400	40.000	0.79%	-2.99%
			1910	1.414	38.797	1.400	40.000	1.00%	-3.01%
			1920	1.419	38.779	1.400	40.000	1.36%	-3.05%
12/15/2025	1900 Head	19.0	1850	1.378	39.191	1.400	40.000	-1.57%	-2.02%
			1860	1.387	39.188	1.400	40.000	-0.93%	-2.03%
			1880	1.402	39.173	1.400	40.000	0.14%	-2.07%
			1900	1.412	39.134	1.400	40.000	0.86%	-2.17%
			1905	1.414	39.120	1.400	40.000	1.00%	-2.20%
			1910	1.416	39.106	1.400	40.000	1.14%	-2.24%
			1920	1.412	39.167	1.400	40.000	0.86%	-2.08%
12/18/2025	1900 Head	19.2	1850	1.371	39.216	1.400	40.000	-2.07%	-1.96%
			1860	1.378	39.210	1.400	40.000	-1.57%	-1.98%
			1880	1.391	39.209	1.400	40.000	-0.64%	-1.98%
			1900	1.402	39.205	1.400	40.000	0.14%	-1.99%
			1905	1.404	39.198	1.400	40.000	0.29%	-2.01%
			1910	1.407	39.191	1.400	40.000	0.50%	-2.02%
			1920	1.412	39.167	1.400	40.000	0.86%	-2.08%
12/29/2025	1900 Head	23.6	1850	1.394	40.311	1.400	40.000	-0.43%	0.78%
			1860	1.401	40.312	1.400	40.000	0.07%	0.78%
			1880	1.412	40.311	1.400	40.000	0.86%	0.78%
			1900	1.422	40.292	1.400	40.000	1.57%	0.73%
			1905	1.425	40.283	1.400	40.000	1.79%	0.71%
			1910	1.428	40.273	1.400	40.000	2.00%	0.68%
			1920	1.433	40.245	1.400	40.000	2.36%	0.61%

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**Table 11-5
Measured Head Tissue Properties (Cont.)**

Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ϵ	% dev σ	% dev ϵ
11/13/2025	2450 Head	21.2	2300	1.698	39.889	1.670	39.500	1.68%	0.98%
			2310	1.706	39.870	1.679	39.480	1.61%	0.99%
			2320	1.715	39.855	1.687	39.460	1.66%	1.00%
			2400	1.778	39.726	1.756	39.289	1.25%	1.11%
			2450	1.818	39.641	1.800	39.200	1.00%	1.12%
			2480	1.843	39.585	1.833	39.162	0.55%	1.08%
			2500	1.859	39.563	1.855	39.136	0.22%	1.09%
			2510	1.867	39.544	1.866	39.123	0.05%	1.08%
			2535	1.886	39.488	1.893	39.092	-0.37%	1.01%
			2550	1.899	39.454	1.909	39.073	-0.52%	0.98%
			2560	1.909	39.439	1.920	39.060	-0.57%	0.97%
			2600	1.940	39.385	1.964	39.009	-1.22%	0.96%
			2650	1.982	39.287	2.018	38.945	-1.78%	0.88%
			2680	2.006	39.241	2.051	38.907	-2.19%	0.86%
			2700	2.021	39.194	2.073	38.882	-2.51%	0.80%
11/19/2025	2450 Head	19.8	2300	1.695	38.927	1.670	39.500	1.50%	-1.45%
			2310	1.704	38.907	1.679	39.480	1.49%	-1.45%
			2320	1.712	38.888	1.687	39.460	1.48%	-1.45%
			2400	1.776	38.746	1.756	39.289	1.14%	-1.38%
			2450	1.815	38.658	1.800	39.200	0.83%	-1.38%
			2480	1.840	38.593	1.833	39.162	0.38%	-1.45%
			2500	1.855	38.571	1.855	39.136	0.00%	-1.44%
			2510	1.862	38.553	1.866	39.123	-0.21%	-1.46%
			2535	1.881	38.496	1.893	39.092	-0.63%	-1.52%
			2550	1.895	38.458	1.909	39.073	-0.73%	-1.57%
			2560	1.904	38.441	1.920	39.060	-0.83%	-1.58%
			2600	1.935	38.376	1.964	39.009	-1.48%	-1.62%
			2650	1.977	38.277	2.018	38.945	-2.03%	-1.72%
			2680	1.998	38.228	2.051	38.907	-2.58%	-1.75%
			2700	2.013	38.175	2.073	38.882	-2.89%	-1.82%
11/26/2025	2450 Head	21.8	2300	1.669	39.334	1.670	39.500	-0.06%	-0.42%
			2310	1.677	39.316	1.679	39.480	-0.12%	-0.42%
			2320	1.684	39.301	1.687	39.460	-0.18%	-0.40%
			2400	1.741	39.180	1.756	39.289	-0.85%	-0.28%
			2450	1.775	39.117	1.800	39.200	-1.39%	-0.21%
			2480	1.799	39.071	1.833	39.162	-1.85%	-0.23%
			2500	1.813	39.060	1.855	39.136	-2.26%	-0.19%
			2510	1.820	39.048	1.866	39.123	-2.47%	-0.19%
			2535	1.837	38.997	1.893	39.092	-2.96%	-0.24%
			2550	1.851	38.968	1.909	39.073	-3.04%	-0.27%
			2560	1.860	38.956	1.920	39.060	-3.12%	-0.27%
			2600	1.890	38.922	1.964	39.009	-3.77%	-0.22%
			2650	1.933	38.842	2.018	38.945	-4.21%	-0.26%
			2680	1.956	38.814	2.051	38.907	-4.63%	-0.24%
			2700	1.971	38.764	2.073	38.882	-4.92%	-0.30%

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Table 11-6
Measured Head Tissue Properties (Cont.)

Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ϵ	% dev σ	% dev ϵ
12/01/2025	2450 Head	20.5	2300	1.712	39.627	1.670	39.500	2.51%	0.32%
			2310	1.720	39.609	1.679	39.480	2.44%	0.33%
			2320	1.727	39.594	1.687	39.460	2.37%	0.34%
			2400	1.785	39.479	1.756	39.289	1.65%	0.48%
			2450	1.821	39.409	1.800	39.200	1.17%	0.53%
			2480	1.845	39.353	1.833	39.162	0.65%	0.49%
			2500	1.861	39.329	1.855	39.136	0.32%	0.49%
			2510	1.869	39.314	1.866	39.123	0.16%	0.49%
			2535	1.888	39.264	1.893	39.092	-0.26%	0.44%
			2550	1.900	39.237	1.909	39.073	-0.47%	0.42%
			2560	1.908	39.222	1.920	39.060	-0.63%	0.41%
			2600	1.939	39.163	1.964	39.009	-1.27%	0.39%
			2650	1.982	39.073	2.018	38.945	-1.78%	0.33%
			2680	2.006	39.019	2.051	38.907	-2.19%	0.29%
			2700	2.022	38.970	2.073	38.882	-2.46%	0.23%
			2300	1.678	37.815	1.670	39.500	0.48%	-4.27%
			2310	1.685	37.807	1.679	39.480	0.36%	-4.24%
			2320	1.692	37.796	1.687	39.460	0.30%	-4.22%
			2400	1.759	37.608	1.756	39.289	0.17%	-4.28%
			2450	1.794	37.560	1.800	39.200	-0.33%	-4.18%
12/08/2025	2450 Head	19.0	2480	1.817	37.454	1.833	39.162	-0.87%	-4.36%
			2500	1.836	37.397	1.855	39.136	-1.02%	-4.44%
			2510	1.845	37.379	1.866	39.123	-1.13%	-4.46%
			2535	1.867	37.361	1.893	39.092	-1.37%	-4.43%
			2550	1.878	37.354	1.909	39.073	-1.62%	-4.40%
			2560	1.885	37.338	1.920	39.060	-1.82%	-4.41%
			2600	1.917	37.218	1.964	39.009	-2.39%	-4.59%
			2650	1.964	37.113	2.018	38.945	-2.68%	-4.70%
			2680	1.984	37.098	2.051	38.907	-3.27%	-4.65%
			2700	1.999	37.061	2.073	38.882	-3.57%	-4.68%
			2300	1.664	40.221	1.670	39.500	-0.36%	1.83%
			2310	1.670	40.209	1.679	39.480	-0.54%	1.85%
			2320	1.677	40.188	1.687	39.460	-0.59%	1.84%
			2400	1.731	40.074	1.756	39.289	-1.42%	2.00%
			2450	1.763	40.023	1.800	39.200	-2.06%	2.10%
			2480	1.784	39.963	1.833	39.162	-2.67%	2.05%
			2500	1.800	39.930	1.855	39.136	-2.96%	2.03%
			2510	1.808	39.920	1.866	39.123	-3.11%	2.04%
			2535	1.824	39.879	1.893	39.092	-3.65%	2.01%
			2550	1.835	39.857	1.909	39.073	-3.88%	2.01%
12/15/2025	2450 Head	24.4	2560	1.841	39.845	1.920	39.060	-4.11%	2.01%
			2600	1.872	39.806	1.964	39.009	-4.68%	2.04%
			2300	1.659	40.367	1.670	39.500	-0.66%	2.19%
			2310	1.666	40.339	1.679	39.480	-0.77%	2.16%
			2320	1.675	40.315	1.687	39.460	-0.71%	2.17%
			2400	1.736	40.195	1.756	39.289	-1.14%	2.31%
			2450	1.778	40.129	1.800	39.200	-1.22%	2.37%
			2480	1.800	40.059	1.833	39.162	-1.80%	2.29%
			2500	1.817	40.027	1.855	39.136	-2.05%	2.28%
			2510	1.825	40.017	1.866	39.123	-2.20%	2.29%
			2535	1.844	39.986	1.893	39.092	-2.59%	2.29%
			2550	1.855	39.955	1.909	39.073	-2.83%	2.26%
			2560	1.863	39.932	1.920	39.060	-2.97%	2.23%
			2600	1.897	39.864	1.964	39.009	-3.41%	2.15%
			2650	1.935	39.784	2.018	38.945	-4.11%	2.15%
			2680	1.963	39.728	2.051	38.907	-4.29%	2.11%
			2700	1.979	39.695	2.073	38.882	-4.53%	2.09%
			2300	1.643	40.881	1.670	39.500	-1.62%	3.50%
			2310	1.651	40.878	1.679	39.480	-1.67%	3.54%
12/22/2025	2450 Head	19.5	2320	1.658	40.874	1.687	39.460	-1.72%	3.58%
			2400	1.717	40.742	1.756	39.289	-2.22%	3.70%
			2450	1.761	40.697	1.800	39.200	-2.17%	3.82%
			2480	1.783	40.645	1.833	39.162	-2.73%	3.79%
			2500	1.797	40.604	1.855	39.136	-3.13%	3.75%
			2510	1.804	40.581	1.866	39.123	-3.32%	3.73%
			2535	1.826	40.533	1.893	39.092	-3.54%	3.69%
			2550	1.841	40.511	1.909	39.073	-3.56%	3.68%
			2560	1.851	40.499	1.920	39.060	-3.59%	3.68%
			2600	1.883	40.453	1.964	39.009	-4.12%	3.70%
			2650	1.920	40.325	2.018	38.945	-4.86%	3.54%
			2680	1.949	40.277	2.051	38.907	-4.97%	3.52%
			2300	1.645	39.832	1.670	39.500	-1.50%	0.84%
			2310	1.654	39.825	1.679	39.480	-1.49%	0.87%
			2320	1.662	39.821	1.687	39.460	-1.48%	0.91%
			2400	1.718	39.662	1.756	39.289	-2.16%	0.95%
			2450	1.762	39.602	1.800	39.200	-2.11%	1.03%
			2480	1.782	39.555	1.833	39.162	-2.78%	1.00%
01/19/2026	2450 Head	19.6	2500	1.795	39.509	1.855	39.136	-3.23%	0.95%
			2510	1.802	39.483	1.866	39.123	-3.43%	0.92%
			2535	1.824	39.432	1.893	39.092	-3.65%	0.87%
			2550	1.839	39.413	1.909	39.073	-3.67%	0.87%
			2560	1.848	39.402	1.920	39.060	-3.75%	0.88%
			2600	1.881	39.366	1.964	39.009	-4.23%	0.92%
			2650	1.917	39.239	2.018	38.945	-5.00%	0.75%
			2300	1.643	40.881	1.670	39.500	-1.62%	3.50%
			2310	1.651	40.878	1.679	39.480	-1.67%	3.54%
			2320	1.658	40.874	1.687	39.460	-1.72%	3.58%
01/22/2026	2450 Head	19.4	2400	1.717	40.742	1.756	39.289	-2.22%	3.70%
			2450	1.761	40.697	1.800	39.200	-2.17%	3.82%
			2480	1.783	40.645	1.833	39.162	-2.73%	3.79%
			2500	1.797	40.604	1.855	39.136	-3.13%	3.75%
			2510	1.804	40.581	1.866	39.123	-3.32%	3.73%
			2535	1.826	40.533	1.893	39.092	-3.54%	3.69%
			2550	1.841	40.511	1.909	39.073	-3.56%	3.68%
			2560	1.851	40.499	1.920	39.060	-3.59%	3.68%
			2600	1.883	40.453	1.964	39.009	-4.12%	3.70%
			2650	1.920	40.325	2.018	38.945	-4.86%	3.54%

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Table 11-7
Measured Head Tissue Properties (Cont.)

Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ϵ	% dev σ	% dev ϵ
11/13/2025	3600 Head	21.0	3300	2.741	37.098	2.708	38.157	1.22%	-2.78%
			3350	2.773	37.042	2.759	38.100	0.51%	-2.78%
			3450	2.848	36.890	2.861	37.986	-0.45%	-2.89%
			3500	2.886	36.851	2.913	37.929	-0.93%	-2.84%
			3550	2.927	36.761	2.964	37.871	-1.25%	-2.93%
			3560	2.935	36.758	2.974	37.860	-1.31%	-2.91%
			3600	2.963	36.695	3.015	37.814	-1.72%	-2.96%
			3650	3.005	36.636	3.066	37.757	-1.99%	-2.97%
			3690	3.034	36.566	3.107	37.711	-2.35%	-3.04%
			3700	3.042	36.549	3.117	37.700	-2.41%	-3.05%
			3750	3.080	36.488	3.169	37.643	-2.81%	-3.07%
			3900	3.200	36.260	3.323	37.471	-3.70%	-3.23%
			3930	3.224	36.179	3.353	37.437	-3.85%	-3.36%
			4100	3.366	35.908	3.528	37.243	-4.59%	-3.58%
			4150	3.411	35.846	3.579	37.186	-4.69%	-3.60%
11/26/2025	3600 Head	21.0	3300	2.814	36.885	2.708	38.157	3.91%	-3.33%
			3350	2.848	36.828	2.759	38.100	3.23%	-3.34%
			3450	2.929	36.671	2.861	37.986	2.38%	-3.46%
			3500	2.972	36.623	2.913	37.929	2.03%	-3.44%
			3550	3.015	36.523	2.964	37.871	1.72%	-3.56%
			3560	3.024	36.517	2.974	37.860	1.68%	-3.55%
			3600	3.052	36.460	3.015	37.814	1.23%	-3.58%
			3650	3.099	36.390	3.066	37.757	1.08%	-3.62%
			3690	3.126	36.332	3.107	37.711	0.61%	-3.66%
			3700	3.134	36.312	3.117	37.700	0.55%	-3.68%
			3750	3.175	36.263	3.169	37.643	0.19%	-3.67%
			3900	3.301	36.070	3.323	37.471	-0.66%	-3.74%
			3930	3.328	36.012	3.353	37.437	-0.75%	-3.81%
			4100	3.482	35.802	3.528	37.243	-1.30%	-3.87%
			4150	3.531	35.752	3.579	37.186	-1.34%	-3.86%
12/01/2025	3600 Head	20.2	3300	2.811	37.721	2.708	38.157	3.80%	-1.14%
			3350	2.847	37.681	2.759	38.100	3.19%	-1.10%
			3450	2.927	37.529	2.861	37.986	2.31%	-1.20%
			3500	2.972	37.484	2.913	37.929	2.03%	-1.17%
			3550	3.015	37.386	2.964	37.871	1.72%	-1.28%
			3560	3.026	37.382	2.974	37.860	1.75%	-1.26%
			3600	3.053	37.331	3.015	37.814	1.26%	-1.28%
			3650	3.100	37.261	3.066	37.757	1.11%	-1.31%
			3690	3.128	37.214	3.107	37.711	0.68%	-1.32%
			3700	3.137	37.195	3.117	37.700	0.64%	-1.34%
			3750	3.177	37.150	3.169	37.643	0.25%	-1.31%
			3900	3.306	36.977	3.323	37.471	-0.51%	-1.32%
			3930	3.333	36.922	3.353	37.437	-0.60%	-1.38%
			4100	3.492	36.715	3.528	37.243	-1.02%	-1.42%
			4150	3.545	36.669	3.579	37.186	-0.95%	-1.39%

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Table 11-8
Measured Head Tissue Properties (Cont.)

Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ϵ	% dev σ	% dev ϵ
12/15/2025	5200-5800 Head	19.0	5150	4.403	35.613	4.608	36.050	-4.45%	-1.21%
			5160	4.413	35.548	4.618	36.040	-4.44%	-1.37%
			5170	4.430	35.492	4.629	36.030	-4.30%	-1.49%
			5180	4.454	35.439	4.635	36.009	-3.91%	-1.58%
			5190	4.484	35.394	4.645	35.998	-3.47%	-1.68%
			5200	4.511	35.377	4.655	35.986	-3.09%	-1.69%
			5210	4.532	35.381	4.666	35.975	-2.87%	-1.65%
			5220	4.543	35.384	4.676	35.963	-2.84%	-1.61%
			5240	4.538	35.438	4.696	35.940	-3.36%	-1.40%
			5250	4.534	35.450	4.706	35.929	-3.65%	-1.33%
			5260	4.532	35.440	4.717	35.917	-3.92%	-1.33%
			5270	4.532	35.409	4.727	35.906	-4.13%	-1.38%
			5280	4.539	35.356	4.737	35.894	-4.18%	-1.50%
			5290	4.552	35.280	4.748	35.883	-4.13%	-1.68%
			5300	4.574	35.200	4.758	35.871	-3.87%	-1.87%
			5310	4.602	35.160	4.768	35.860	-3.48%	-1.95%
			5320	4.630	35.140	4.778	35.849	-3.10%	-1.98%
			5500	4.774	35.019	4.963	35.643	-3.81%	-1.75%
			5510	4.769	35.014	4.973	35.632	-4.10%	-1.73%
			5520	4.772	34.974	4.983	35.620	-4.23%	-1.81%
			5530	4.785	34.920	4.994	35.609	-4.19%	-1.93%
			5540	4.804	34.834	5.004	35.597	-4.00%	-2.14%
			5550	4.827	34.762	5.014	35.586	-3.73%	-2.32%
			5560	4.857	34.712	5.024	35.574	-3.32%	-2.42%
			5580	4.912	34.698	5.045	35.551	-2.64%	-2.40%
			5600	4.929	34.765	5.065	35.529	-2.69%	-2.15%
			5610	4.923	34.800	5.076	35.518	-3.01%	-2.02%
			5620	4.910	34.806	5.086	35.506	-3.46%	-1.97%
			5640	4.903	34.754	5.106	35.483	-3.98%	-2.05%
			5660	4.922	34.642	5.127	35.460	-4.00%	-2.31%
			5670	4.942	34.576	5.137	35.449	-3.80%	-2.46%
			5680	4.971	34.525	5.147	35.437	-3.42%	-2.57%
			5690	5.002	34.490	5.158	35.426	-3.02%	-2.64%
			5700	5.036	34.482	5.168	35.414	-2.55%	-2.63%
			5710	5.059	34.490	5.178	35.403	-2.30%	-2.58%
			5720	5.067	34.525	5.188	35.391	-2.33%	-2.45%
			5745	5.040	34.615	5.214	35.363	-3.34%	-2.12%
			5750	5.037	34.615	5.219	35.357	-3.49%	-2.10%
			5755	5.032	34.604	5.224	35.351	-3.68%	-2.11%
			5765	5.031	34.565	5.234	35.340	-3.88%	-2.19%
			5775	5.038	34.516	5.245	35.329	-3.95%	-2.30%
			5785	5.050	34.444	5.255	35.317	-3.90%	-2.47%
			5795	5.075	34.371	5.265	35.305	-3.61%	-2.65%
			5800	5.089	34.345	5.270	35.300	-3.43%	-2.71%
			5805	5.105	34.319	5.275	35.294	-3.22%	-2.76%
			5825	5.162	34.268	5.296	35.271	-2.53%	-2.84%
			5835	5.176	34.293	5.305	35.230	-2.43%	-2.66%
			5845	5.184	34.335	5.315	35.210	-2.46%	-2.49%
			5850	5.185	34.363	5.320	35.200	-2.54%	-2.38%
			5855	5.184	34.384	5.325	35.197	-2.65%	-2.31%
			5865	5.182	34.408	5.336	35.190	-2.89%	-2.22%
			5875	5.172	34.416	5.347	35.183	-3.27%	-2.18%
			5885	5.161	34.388	5.357	35.177	-3.66%	-2.24%
			5905	5.173	34.262	5.379	35.163	-3.83%	-2.56%

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Table 11-9
Measured Head Tissue Properties (Cont.)

Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ϵ	% dev σ	% dev ϵ
12/22/2025	5200-5800 Head	19.0	5150	4.421	34.838	4.608	36.050	-4.06%	-3.36%
			5160	4.406	34.808	4.618	36.040	-4.59%	-3.42%
			5170	4.399	34.780	4.629	36.030	-4.97%	-3.47%
			5180	4.404	34.749	4.635	36.009	-4.98%	-3.50%
			5190	4.423	34.728	4.645	35.998	-4.78%	-3.53%
			5200	4.449	34.731	4.655	35.986	-4.43%	-3.49%
			5210	4.486	34.726	4.666	35.975	-3.86%	-3.47%
			5220	4.525	34.719	4.676	35.963	-3.23%	-3.46%
			5240	4.582	34.698	4.696	35.940	-2.43%	-3.46%
			5250	4.588	34.695	4.706	35.929	-2.51%	-3.43%
			5260	4.585	34.697	4.717	35.917	-2.80%	-3.40%
			5270	4.573	34.689	4.727	35.906	-3.26%	-3.39%
			5280	4.554	34.654	4.737	35.894	-3.86%	-3.45%
			5290	4.540	34.610	4.748	35.883	-4.38%	-3.55%
			5300	4.531	34.580	4.758	35.871	-4.77%	-3.60%
			5310	4.543	34.562	4.768	35.860	-4.72%	-3.62%
			5320	4.568	34.542	4.778	35.849	-4.40%	-3.65%
			5500	4.876	34.252	4.963	35.643	-1.75%	-3.90%
			5510	4.858	34.251	4.973	35.632	-2.31%	-3.88%
			5520	4.833	34.243	4.983	35.620	-3.01%	-3.87%
			5530	4.807	34.240	4.994	35.609	-3.74%	-3.84%
			5540	4.792	34.221	5.004	35.597	-4.24%	-3.87%
			5550	4.793	34.183	5.014	35.586	-4.41%	-3.94%
			5560	4.814	34.143	5.024	35.574	-4.18%	-4.02%
			5580	4.903	34.070	5.045	35.551	-2.81%	-4.17%
			5600	4.994	34.027	5.065	35.529	-1.40%	-4.23%
			5610	5.017	34.025	5.076	35.518	-1.16%	-4.20%
			5620	5.019	34.023	5.086	35.506	-1.32%	-4.18%
			5640	4.985	34.021	5.106	35.483	-2.37%	-4.12%
			5660	4.942	34.009	5.127	35.460	-3.61%	-4.09%
			5670	4.937	33.991	5.137	35.449	-3.89%	-4.11%
			5680	4.951	33.954	5.147	35.437	-3.81%	-4.18%
			5690	4.982	33.909	5.158	35.426	-3.41%	-4.28%
			5700	5.027	33.865	5.168	35.414	-2.73%	-4.37%
			5710	5.078	33.824	5.178	35.403	-1.93%	-4.46%
			5720	5.122	33.800	5.188	35.391	-1.27%	-4.50%
			5745	5.162	33.767	5.214	35.363	-1.00%	-4.51%
			5750	5.157	33.772	5.219	35.357	-1.19%	-4.48%
			5755	5.148	33.773	5.224	35.351	-1.45%	-4.46%
			5765	5.123	33.782	5.234	35.340	-2.12%	-4.41%
			5775	5.096	33.797	5.245	35.329	-2.84%	-4.34%
			5785	5.078	33.798	5.255	35.317	-3.37%	-4.30%
			5795	5.078	33.780	5.265	35.305	-3.55%	-4.32%
			5800	5.083	33.770	5.270	35.300	-3.55%	-4.33%
			5805	5.093	33.751	5.275	35.294	-3.45%	-4.37%
			5825	5.176	33.648	5.296	35.271	-2.27%	-4.60%
			5835	5.224	33.605	5.305	35.230	-1.53%	-4.61%
			5845	5.265	33.562	5.315	35.210	-0.94%	-4.68%
			5850	5.280	33.548	5.320	35.200	-0.75%	-4.69%
			5855	5.291	33.538	5.325	35.197	-0.64%	-4.71%
			5865	5.303	33.533	5.336	35.190	-0.62%	-4.71%
			5875	5.296	33.548	5.347	35.183	-0.95%	-4.65%
			5885	5.276	33.568	5.357	35.177	-1.51%	-4.57%
			5905	5.228	33.614	5.379	35.163	-2.81%	-4.41%

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**Table 11-10
Measured Head Tissue Properties (Cont.)**

Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ϵ	% dev σ	% dev ϵ
12/01/2025	6000 Head	19.3	5935	5.451	34.810	5.411	35.143	0.74%	-0.95%
			5970	5.497	34.780	5.448	35.120	0.90%	-0.97%
			5985	5.494	34.708	5.464	35.110	0.55%	-1.14%
			6000	5.484	34.631	5.480	35.100	0.07%	-1.34%
			6025	5.487	34.563	5.510	35.070	-0.42%	-1.45%
			6065	5.555	34.494	5.557	35.022	-0.04%	-1.51%
			6075	5.571	34.474	5.569	35.010	0.04%	-1.53%
			6085	5.582	34.445	5.580	34.998	0.04%	-1.58%
			6185	5.715	34.238	5.698	34.878	0.30%	-1.83%
			6275	5.837	34.103	5.805	34.770	0.55%	-1.92%
			6285	5.841	34.097	5.816	34.758	0.43%	-1.90%
			6305	5.855	34.093	5.840	34.734	0.26%	-1.85%
			6345	5.926	33.928	5.887	34.686	0.66%	-2.19%
			6475	6.083	33.658	6.041	34.530	0.70%	-2.53%
			6485	6.094	33.672	6.052	34.518	0.69%	-2.45%
			6500	6.099	33.716	6.070	34.500	0.48%	-2.27%
			6505	6.097	33.732	6.076	34.494	0.35%	-2.21%
			6545	6.114	33.660	6.122	34.446	-0.13%	-2.28%
			6665	6.243	33.383	6.265	34.302	-0.35%	-2.68%
			6675	6.253	33.328	6.273	34.290	-0.32%	-2.81%
			6685	6.268	33.285	6.285	34.278	-0.27%	-2.90%
			6715	6.333	33.247	6.319	34.242	0.22%	-2.91%
			6785	6.376	33.105	6.400	34.158	-0.38%	-3.08%
			6825	6.471	33.055	6.447	34.110	0.37%	-3.09%
			6985	6.601	32.845	6.633	33.918	-0.48%	-3.16%
			6995	6.594	32.830	6.644	33.906	-0.75%	-3.17%
			7000	6.592	32.816	6.650	33.900	-0.87%	-3.20%
			7005	6.594	32.800	6.656	33.894	-0.93%	-3.23%
			7025	6.632	32.711	6.680	33.870	-0.72%	-3.42%
			7500	7.264	31.879	7.240	33.300	0.33%	-4.27%
			7980	7.857	31.200	7.816	32.724	0.52%	-4.66%
			8000	7.875	31.284	7.840	32.700	0.45%	-4.33%
12/07/2025	6000 Head	19.1	5935	5.310	34.323	5.411	35.143	-1.87%	-2.33%
			5970	5.308	34.358	5.448	35.120	-2.57%	-2.17%
			5985	5.313	34.260	5.464	35.110	-2.76%	-2.42%
			6000	5.351	34.129	5.480	35.100	-2.35%	-2.77%
			6025	5.407	34.233	5.510	35.070	-1.87%	-2.39%
			6065	5.417	34.009	5.557	35.022	-2.52%	-2.89%
			6075	5.431	33.986	5.569	35.010	-2.48%	-2.92%
			6085	5.455	33.993	5.580	34.998	-2.24%	-2.87%
			6185	5.585	33.837	5.698	34.878	-1.98%	-2.98%
			6275	5.699	33.698	5.805	34.770	-1.83%	-3.08%
			6285	5.716	33.690	5.816	34.758	-1.72%	-3.07%
			6305	5.710	33.644	5.840	34.734	-2.23%	-3.14%
			6345	5.757	33.532	5.887	34.686	-2.21%	-3.33%
			6475	5.930	33.359	6.041	34.530	-1.84%	-3.39%
			6485	5.922	33.304	6.052	34.518	-2.15%	-3.52%
			6500	5.926	33.239	6.070	34.500	-2.37%	-3.66%
			6505	5.938	33.218	6.076	34.494	-2.27%	-3.70%
			6545	6.037	33.206	6.122	34.446	-1.39%	-3.60%
			6665	6.125	33.077	6.265	34.302	-2.23%	-3.57%
			6675	6.122	32.978	6.273	34.290	-2.41%	-3.83%
			6685	6.150	32.891	6.285	34.278	-2.15%	-4.05%
			6715	6.215	32.908	6.319	34.242	-1.65%	-3.90%
			6785	6.283	32.668	6.400	34.158	-1.83%	-4.36%
			6825	6.333	32.758	6.447	34.110	-1.77%	-3.96%
			6985	6.516	32.408	6.633	33.918	-1.76%	-4.45%
			6995	6.530	32.397	6.644	33.906	-1.72%	-4.45%
			7000	6.527	32.382	6.650	33.900	-1.85%	-4.48%
			7005	6.519	32.365	6.656	33.894	-2.06%	-4.51%
			7025	6.498	32.264	6.680	33.870	-2.72%	-4.74%

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Table 11-11
Measured Head Tissue Properties (Cont.)

Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ϵ	% dev σ	% dev ϵ
12/15/2025	6000 Head	19.0	5925	5.405	34.136	5.411	35.143	-0.06%	-2.87%
			5970	5.576	34.280	5.448	35.120	2.33%	-2.45%
			5985	5.550	34.444	5.464	35.110	1.57%	-1.90%
			6000	5.477	34.553	5.480	35.100	-0.05%	-1.56%
			6025	5.392	34.428	5.510	35.070	-2.14%	-1.83%
			6065	5.587	33.838	5.557	35.022	0.54%	-3.38%
			6075	5.656	33.831	5.569	35.010	1.56%	-3.37%
			6085	5.708	33.897	5.580	34.998	2.29%	-3.15%
			6185	5.702	33.687	5.698	34.878	0.07%	-3.41%
			6275	5.675	33.969	5.805	34.770	-2.24%	-2.30%
			6285	5.691	33.820	5.816	34.758	-2.15%	-2.70%
			6305	5.796	33.532	5.840	34.734	-0.75%	-3.46%
			6345	6.002	33.630	5.887	34.686	1.95%	-3.04%
			6475	6.140	33.480	6.041	34.530	1.64%	-3.04%
			6485	6.108	33.638	6.052	34.518	0.93%	-2.55%
			6500	6.033	33.786	6.070	34.500	-0.61%	-2.07%
			6505	6.008	33.801	6.076	34.494	-1.12%	-2.01%
			6545	6.026	33.241	6.122	34.446	-1.57%	-3.50%
			6665	6.131	33.009	6.265	34.302	-2.14%	-3.77%
			6675	6.189	32.816	6.273	34.290	-1.34%	-4.30%
			6685	6.257	32.717	6.285	34.278	-0.45%	-4.55%
			6715	6.401	32.916	6.319	34.242	1.30%	-3.87%
			6785	6.255	32.833	6.400	34.158	-2.27%	-3.88%
			6825	6.505	32.523	6.447	34.110	0.90%	-4.65%
			6985	6.625	32.906	6.633	33.918	-0.12%	-2.98%
			6995	6.575	32.991	6.644	33.906	-1.04%	-2.70%
			7000	6.549	32.997	6.650	33.900	-1.52%	-2.66%
			7005	6.525	32.977	6.656	33.894	-1.97%	-2.71%
			7025	6.498	32.650	6.680	33.870	-2.72%	-3.60%
			7500	7.100	32.054	7.240	33.300	-1.93%	-3.74%
			7980	7.795	31.238	7.816	32.724	-0.27%	-4.54%
			8000	7.673	31.353	7.840	32.700	-2.13%	-4.12%
12/29/2025	6000 Head	19.0	5925	5.614	34.724	5.411	35.143	3.75%	-1.19%
			5970	5.588	35.090	5.448	35.120	2.57%	-0.06%
			5985	5.526	35.237	5.464	35.110	1.13%	0.36%
			6000	5.486	35.229	5.480	35.100	0.11%	0.37%
			6025	5.545	34.884	5.510	35.070	0.64%	-0.53%
			6065	5.755	34.474	5.557	35.022	3.56%	-1.56%
			6075	5.769	34.574	5.569	35.010	3.59%	-1.25%
			6085	5.763	34.726	5.580	34.998	3.28%	-0.78%
			6185	5.893	34.176	5.698	34.878	3.42%	-2.01%
			6275	5.834	34.346	5.805	34.770	0.50%	-1.22%
			6285	5.885	34.150	5.816	34.758	1.19%	-1.75%
			6305	5.991	33.974	5.840	34.734	2.59%	-2.19%
			6345	6.025	34.477	5.887	34.686	2.34%	-0.60%
			6475	6.155	34.358	6.041	34.530	1.89%	-0.50%
			6485	6.121	34.453	6.052	34.518	1.14%	-0.19%
			6500	6.080	34.390	6.070	34.500	0.16%	-0.32%
			6505	6.076	34.320	6.076	34.494	0.00%	-0.50%
			6545	6.221	33.472	6.122	34.446	1.62%	-2.83%
			6665	6.308	33.181	6.265	34.302	0.86%	-3.27%
			6675	6.362	33.092	6.273	34.290	1.42%	-3.49%
			6685	6.405	33.146	6.285	34.278	1.96%	-3.30%
			6715	6.456	33.792	6.319	34.242	2.17%	-1.31%
			6785	6.411	32.949	6.400	34.158	0.17%	-3.54%
			6825	6.603	33.232	6.447	34.110	2.42%	-2.57%
			6985	6.681	33.644	6.633	33.918	0.72%	-0.81%
			6995	6.636	33.549	6.644	33.906	-0.12%	-1.05%
			7000	6.616	33.453	6.650	33.900	-0.51%	-1.32%
			7005	6.598	33.333	6.656	33.894	-0.87%	-1.66%
			7025	6.568	32.718	6.680	33.870	-1.38%	-3.40%
			7500	7.142	32.448	7.240	33.300	-1.35%	-2.56%
			7980	7.895	31.941	7.816	32.724	0.64%	-2.39%
			8000	7.663	31.775	7.840	32.700	-2.26%	-2.83%

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

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11.2 Test System Verification

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

Table 11-12
System Verification Results

System Verification TARGET & MEASURED																					
SAR System	Tissue Frequency (MHz)	Tissue Type	Date	Amb. Temp. (°C)	Liquid Temp. (°C)	Input Power (W)	Source SN	Probe SN	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 APD (%)
G	13	HEAD	12/30/2025	21.0	22.2	1.00	1002	7527	1415	0.51	0.50	0.51	0.80%	0.31	0.32	0.31	-0.63%	N/A	N/A	N/A	N/A
G	750	HEAD	11/13/2025	21.0	22.2	0.20	1054	7488	1415	1.74	8.68	8.70	0.23%	1.16	5.61	5.80	3.39%	N/A	N/A	N/A	N/A
S4	750	HEAD	11/17/2025	21.2	21.0	0.20	1003	7491	1466	1.63	8.72	8.15	-6.54%	1.09	5.65	5.45	-3.54%	N/A	N/A	N/A	N/A
G	750	HEAD	11/27/2025	21.4	22.6	0.20	1054	7488	1415	1.85	8.68	9.25	6.57%	1.23	5.61	6.15	9.63%	N/A	N/A	N/A	N/A
J	750	HEAD	12/08/2025	21.9	22.6	0.20	1054	7660	1678	1.69	8.68	8.45	-2.65%	1.12	5.61	5.60	-0.18%	N/A	N/A	N/A	N/A
O	750	HEAD	12/29/2025	19.5	21.6	0.20	1054	7718	1407	1.81	8.68	9.05	4.26%	1.22	5.61	6.10	8.73%	N/A	N/A	N/A	N/A
O	750	HEAD	01/05/2026	20.0	21.5	0.20	1054	7718	1407	1.79	8.68	8.95	3.11%	1.22	5.61	6.10	8.73%	N/A	N/A	N/A	N/A
G	835	HEAD	11/13/2025	21.0	22.2	0.20	46047	7488	1415	1.96	9.44	9.80	3.81%	1.31	6.09	6.55	7.55%	N/A	N/A	N/A	N/A
S4	835	HEAD	11/17/2025	21.2	21.0	0.20	46180	7491	1466	1.97	9.51	9.85	3.58%	1.30	6.17	6.50	5.35%	N/A	N/A	N/A	N/A
S4	835	HEAD	11/19/2025	21.0	20.5	0.20	46180	7491	1466	1.97	9.51	9.85	3.58%	1.29	6.17	6.45	4.54%	N/A	N/A	N/A	N/A
G	835	HEAD	11/24/2025	21.8	22.9	0.20	46133	7488	1415	1.99	9.94	9.95	0.10%	1.31	6.49	6.55	0.92%	N/A	N/A	N/A	N/A
S4	835	HEAD	11/24/2025	20.2	20.8	0.20	46180	7491	1466	1.96	9.51	9.80	3.05%	1.29	6.17	6.45	4.54%	N/A	N/A	N/A	N/A
J	835	HEAD	12/08/2025	21.9	22.6	0.20	46133	7660	1678	2.09	9.94	10.45	5.13%	1.37	6.49	6.85	5.55%	N/A	N/A	N/A	N/A
S1	1750	HEAD	11/12/2025	20.2	20.2	0.10	1092	7637	1652	3.78	36.70	37.80	3.00%	2.03	19.50	20.30	4.10%	N/A	N/A	N/A	N/A
J	1750	HEAD	11/17/2025	21.5	21.1	0.10	1148	7660	1678	3.83	36.90	38.30	3.79%	2.07	19.60	20.70	5.61%	N/A	N/A	N/A	N/A
L	1750	HEAD	11/17/2025	19.4	19.0	0.10	1148	7659	1272	3.87	36.90	38.70	4.88%	2.07	19.60	20.70	5.61%	N/A	N/A	N/A	N/A
M	1750	HEAD	12/08/2025	19.0	19.0	0.10	1148	7406	1677	3.64	36.90	36.40	-1.36%	1.97	19.60	19.70	0.51%	N/A	N/A	N/A	N/A
S1	1750	HEAD	12/11/2025	21.5	21.5	0.10	1092	7637	1652	3.73	36.70	37.30	1.63%	2.00	19.50	20.00	2.56%	N/A	N/A	N/A	N/A
L	1750	HEAD	12/15/2025	20.5	19.0	0.10	1150	7659	1272	3.36	36.40	33.60	-7.69%	1.82	19.40	18.20	-6.19%	N/A	N/A	N/A	N/A
M	1750	HEAD	12/15/2025	22.6	22.0	0.10	1150	7406	1677	3.46	36.40	34.60	-4.95%	1.87	19.40	18.70	-3.61%	N/A	N/A	N/A	N/A
M	1750	HEAD	01/05/2026	19.0	21.5	0.10	1150	7406	1677	3.62	36.40	36.20	-0.55%	1.96	19.40	19.60	1.03%	N/A	N/A	N/A	N/A
S1	1900	HEAD	11/12/2025	20.2	20.2	0.10	56026	7637	1652	4.23	39.60	42.30	6.82%	2.21	21.00	22.10	5.24%	N/A	N/A	N/A	N/A
J	1900	HEAD	11/17/2025	21.5	21.1	0.10	56148	7660	1678	4.13	39.60	41.30	4.29%	2.17	20.90	21.70	3.83%	N/A	N/A	N/A	N/A
L	1900	HEAD	11/17/2025	19.4	19.0	0.10	56080	7659	1272	4.26	40.20	42.60	5.97%	2.21	21.20	22.10	4.25%	N/A	N/A	N/A	N/A
J	1900	HEAD	12/10/2025	22.7	22.8	0.10	56080	7660	1678	4.35	40.20	43.50	8.21%	2.28	21.20	22.80	7.55%	N/A	N/A	N/A	N/A
S1	1900	HEAD	11/24/2025	20.0	20.6	0.10	56026	7637	1652	4.24	39.60	42.40	7.07%	2.21	21.00	22.10	5.24%	N/A	N/A	N/A	N/A
L	1900	HEAD	12/01/2025	22.9	19.0	0.10	56080	7659	1272	4.34	40.20	43.40	7.96%	2.26	21.20	22.60	6.60%	N/A	N/A	N/A	N/A
L	1900	HEAD	12/15/2025	20.5	19.0	0.10	56148	7659	1272	4.21	39.60	42.10	6.31%	2.20	20.90	22.00	5.26%	N/A	N/A	N/A	N/A
L	1900	HEAD	12/18/2025	20.5	19.2	0.10	56148	7659	1272	4.20	39.60	42.00	6.06%	2.20	20.90	22.00	5.26%	N/A	N/A	N/A	N/A
M	1900	HEAD	12/29/2025	22.6	22.0	0.10	56148	7406	1677	4.08	39.60	40.80	3.03%	2.14	20.90	21.40	2.39%	N/A	N/A	N/A	N/A
S4	2450	HEAD	11/26/2025	22.8	21.8	0.10	945	7491	1466	5.38	52.90	53.80	1.70%	2.53	25.00	25.30	1.20%	N/A	N/A	N/A	N/A
S3	2450	HEAD	12/01/2025	20.5	20.5	0.10	945	7558	1364	5.56	52.90	55.60	5.10%	2.63	25.00	26.30	5.20%	N/A	N/A	N/A	N/A
O	2450	HEAD	12/08/2025	20.5	19.0	0.10	797	7718	1407	5.16	52.60	51.60	-1.90%	2.43	24.80	24.30	-2.02%	N/A	N/A	N/A	N/A
G	2450	HEAD	12/15/2025	20.1	22.4	0.10	797	7488	1415	5.04	52.60	50.40	-4.18%	2.37	24.80	23.70	-4.44%	N/A	N/A	N/A	N/A
S4	2450	HEAD	12/22/2025	19.5	19.5	0.10	882	7491	1466	5.40	53.70	54.00	0.56%	2.55	25.10	25.50	1.59%	N/A	N/A	N/A	N/A
J	2450	HEAD	01/19/2026	19.4	19.5	0.10	797	7660	1678	5.34	52.60	53.40	1.52%	2.53	24.80	25.30	2.02%	N/A	N/A	N/A	N/A
J	2450	HEAD	01/22/2026	21.1	19.4	0.10	797	7660	1678	5.09	52.60	50.90	-3.23%	2.42	24.80	24.20	-2.42%	N/A	N/A	N/A	N/A
S2	2600	HEAD	11/13/2025	20.9	21.2	0.10	1126	7402	1502	5.73	55.30	57.30	3.62%	2.59	24.80	25.90	4.44%	N/A	N/A	N/A	N/A
S2	2600	HEAD	11/19/2025	20.1	19.8	0.10	1126	7402	1502	5.23	55.30	52.30	-5.42%	2.38	24.80	23.80	-4.03%	N/A	N/A	N/A	N/A
S4	2600	HEAD	11/26/2025	22.8	21.8	0.10	1126	7491	1466	5.35	55.30	53.30	-3.62%	2.41	24.80	24.10	-3.82%	N/A	N/A	N/A	N/A
S3	2600	HEAD	12/01/2025	20.5	20.5	0.10	1126	7558	1364	5.66	55.30	56.60	2.35%	2.58	24.80	25.80	4.03%	N/A	N/A	N/A	N/A
S3	3500	HEAD	11/13/2025	21.9	21.0	0.10	1127	7558	1364	6.21	64.90	62.10	-4.31%	2.34	24.70	23.40	-5.26%	N/A	N/A	N/A	N/A
S3	3500	HEAD	11/26/2025	21.0	21.3	0.10	1127	7558	1364	6.95	64.90	69.50	7.09%	2.64	24.70	26.40	6.88%	N/A	N/A	N/A	N/A
S2	3500	HEAD	12/01/2025	20.0	20.2	0.10	1127	7402	1502	6.97	64.90	69.70	7.40%	2.61	24.70	26.10	5.67%	N/A	N/A	N/A	N/A
S3	3700	HEAD	11/13/2025	21.9	21.0	0.10	1096	7558	1364	6.48	69.60	64.80	-6.90%	2.37	25.60	23.70	-7.42%	N/A	N/A	N/A	N/A
S3	3700	HEAD	11/26/2025	21.0	21.3	0.10	1096	7558	1364	6.81	69.60	68.10	-2.16%	2.50	25.60	25.00	-2.34%	N/A	N/A	N/A	N/A
S2	3700	HEAD	12/01/2025	20.0	20.2	0.10	1096	7402	1502	7.24	69.60	72.40	4.02%	2.62	25.60	26.20	2.34%	N/A	N/A	N/A	N/A
S3	3900	HEAD	11/13/2025	21.9	21.0	0.10	1074	7558	1364	6.99	70.80	69.90	-1.27%	2.45	24.80	24.50	-1.21%	N/A	N/A	N/A	N/A
S3	3900	HEAD	11/26/2025	21.0	21.3	0.10	1074	7558	1364	7.30	70.80	73.00	3.11%	2.54	24.80	25.40	2.42%	N/A	N/A	N/A	N/A
S2	3900	HEAD	12/01/2025	20.0	20.2	0.10	1074	7402	1502	7.27	70.80	72.70	2.68%	2.53	24.80	25.30	2.02%	N/A	N/A	N/A	N/A
S	5250	HEAD	12/15/2025	19.8	19.0	0.05	1057	7661	1558	3.69	79.40	73.80	-7.05%	1.05	22.70	21.00	-7.49%	N/A	N/A	N/A	N/A
S	5250	HEAD	12/22/2025	19.0	19.0	0.05	1057	7661	1558	3.64	79.40	72.80	-8.31%	1.03	22.70	20.60	-9.25%	N/A	N/A	N/A	N/A
S	5600	HEAD	12/15/2025	19.8	19.0	0.05	1057	7661	1558	3.74	82.80	74.80	-9.66%	1.07	23.60	21.40	-9.32%	N/A	N/A	N/A	N/A
S	5600	HEAD	12/22/2025	19.0	19.0	0.05	1057	7661	1558	3.83	82.80	76.60	-7.49%	1.10	23.60	22.00	-6.78%	N/A	N/A	N/A	N/A
S	5750	HEAD	12/15/2025	19.8	19.0	0.05	1057	7661	1558	3.69	79.80	73.80	-7.52%	1.06	22.70	21.20	-6.61%	N/A	N/A	N/A	N/A
S	5750	HEAD	12/22/2025	19.0	19.0	0.05	1057	7661	1558	3.71	79.80	74.20	-7.02%	1.06	22.70	21.20	-6.61%	N/A	N/A	N/A	N/A
S	5850	HEAD	12/15/2025	19.8	19.0	0.05	1057	7661	1558	3.86	81.50	77.20	-5.28%	1.09	23.00	21.80	-5.22%	N/A	N/A	N/A	N/A
S	5850																				

11.1 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.

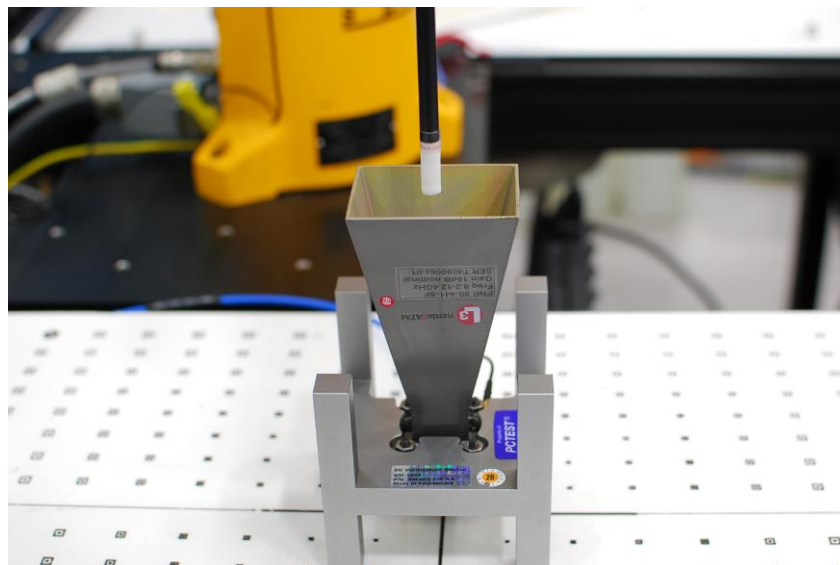


Figure 11-3
System Verification Setup Photo

Table 11-13
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	12/08/2025	1002	9389	93.3	51.00	53.80	-0.23	51.30	54.00	-0.22
N	10	01/23/2026	1002	9421	93.3	50.90	53.80	-0.24	51.00	54.00	-0.25

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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Head	GSM 850	GSM	A	0946M	1.8.3	-0.17	836.60	190	33.8	32.05	Right Cheek	0	0.097	1.303	0.126	0.079		33.5	
Head	GSM 850	GSM	A	0946M	1.8.3	-0.01	836.60	190	33.8	32.65	Right Tilt	0	0.055	1.303	0.072	0.045		36.0	
Head	GSM 850	GSM	A	0946M	1.8.3	0.02	836.60	190	33.8	32.65	Left Cheek	0	0.090	1.303	0.117	0.073		33.9	
Head	GSM 850	GSM	A	0946M	1.8.3	-0.03	836.60	190	33.8	32.65	Left Tilt	0	0.052	1.303	0.068	0.043		36.2	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population											Head 1.6 W/kg (mW/g) averaged over 1 gram								

Table 12-2 | Plot A1

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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Head	GSM 850	GSM	E	0946M	1.8.3	0.01	836.60	190	29.8	29.31	Right Cheek	0	0.541	1.119	0.605	0.378		22.7	
Head	GSM 850	GSM	E	0946M	1.8.3	0.01	836.60	190	29.8	29.31	Right Tilt	0	0.488	1.119	0.546	0.341		23.2	
Head	GSM 850	GSM	E	0946M	1.8.3	0.00	836.60	190	29.8	29.31	Left Cheek	0	0.570	1.119	0.638	0.399	Plot	22.5	
Head	GSM 850	GSM	E	0946M	1.8.3	0.04	836.60	190	29.8	29.31	Left Tilt	0	0.570	1.119	0.638	0.399		22.5	
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 | Plot A2

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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body-worn/Hotspot	GPRS 850	GPRS 3 Tx Slots	A	0946M	1.2.76	-0.02	824.20	128	30.0	28.83	Back	5	0.777	1.309	1.017	0.636		25.4	
Body-worn/Hotspot	GPRS 850	GPRS 3 Tx Slots	A	0946M	1.2.76	-0.08	836.60	190	30.0	29.29	Back	5	0.929	1.178	1.094	0.684		25.1	
Body-worn/Hotspot	GPRS 850	GPRS 3 Tx Slots	A	0946M	1.2.76	0.04	848.80	251	30.0	29.11	Back	5	0.968	1.227	1.188	0.743	Plot	24.8	
Body-worn/Hotspot	GPRS 850	GPRS 3 Tx Slots	A	0946M	1.2.76	-0.01	848.80	251	30.0	29.11	Back	5	0.968	1.227	1.188	0.743		25.1	
Hotspot	GPRS 850	GPRS 3 Tx Slots	A	0946M	1.2.76	0.01	836.60	190	30.0	29.29	Front	5	0.441	1.178	0.519	0.324		28.4	
Hotspot	GPRS 850	GPRS 3 Tx Slots	A	0946M	1.2.76	-0.01	836.60	190	30.0	29.29	Bottom	10	0.100	1.178	0.118	0.074		34.8	
Hotspot	GPRS 850	GPRS 3 Tx Slots	A	0946M	1.2.76	0.01	836.60	190	30.0	29.29	Right	10	0.096	1.178	0.113	0.071		35.0	
Hotspot	GPRS 850	GPRS 3 Tx Slots	A	0946M	1.2.76	0.01	836.60	190	30.0	29.29	Left	10	0.122	1.178	0.144	0.090		33.9	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population											Body 1.6 W/kg (mW/g) averaged over 1 gram								

Note: Blue entry represents variability measurement

Table 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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body-worn/Hotspot	GPRS 850	GPRS 4 Tx Slots	E	0946M	1.2.076	-0.01	836.60	190	22.8	22.01	Back	5	0.548	1.199	0.657	0.411		21.4	
Hotspot	GPRS 850	GPRS 4 Tx Slots	E	0946M	1.2.076	0.00	836.60	190	22.8	22.01	Front	5	0.442	1.199	0.531	0.322		22.3	
Hotspot	GPRS 850	GPRS 4 Tx Slots	E	0946M	1.2.076	-0.04	836.60	190	22.8	22.01	Top	10	0.170	1.199	0.204	0.128		26.5	
Hotspot	GPRS 850	GPRS 4 Tx Slots	E	0946M	1.2.076	-0.01	836.60	190	22.8	22.01	Right	10	0.141	1.199	0.169	0.106		27.3	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population											Body 1.6 W/kg (mW/g) averaged over 1 gram								

12.2 GSM 1900 Standalone SAR

Table 12-5 | Plot A3

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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Head	GSM 1900	GSM	A	0948M	1.8.3	0.04	1909.80	810	30.5	29.24	Right Cheek	0	0.043	1.337	0.057	0.036		33.7	
Head	GSM 1900	GSM	A	0948M	1.8.3	-0.08	1909.80	810	30.5	29.24	Right Tilt	0	0.025	1.337	0.033	0.021		36.0	
Head	GSM 1900	GSM	A	0948M	1.8.3	-0.02	1909.80	810	30.5	29.24	Left Cheek	0	0.074	1.337	0.099	0.062	Plot	31.3	
Head	GSM 1900	GSM	A	0948M	1.8.3	0.05	1909.80	810	30.5	29.24	Left Tilt	0	0.030	1.337	0.040	0.025		35.2	
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 12-6 | Plot A4

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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body-worn/Hotspot	GPRS 1900	GPRS 4 Tx Slots	A	0948M	1:2.076	-0.14	1850.20	512	22.5	21.26	Back	5	0.857	1.330	1.140	0.713		18.7	18.5
Body-worn/Hotspot	GPRS 1900	GPRS 4 Tx Slots	A	0948M	1:2.076	0.00	1880.00	661	22.5	21.44	Back	5	0.921	1.276	1.175	0.734		18.6	
Body-worn/Hotspot	GPRS 1900	GPRS 4 Tx Slots	A	0948M	1:2.076	0.07	1909.80	810	22.5	21.55	Back	5	0.956	1.245	1.190	0.744	Plot	18.5	
Body-worn/Hotspot	GPRS 1900	GPRS 4 Tx Slots	A	0948M	1:2.076	0.00	1909.80	810	22.5	21.55	Back	5	0.956	1.245	1.190	0.744		18.6	
Hotspot	GPRS 1900	GPRS 4 Tx Slots	A	0948M	1:2.076	-0.03	1850.20	512	22.5	21.26	Front	5	0.895	1.330	1.168	0.729		18.5	
Hotspot	GPRS 1900	GPRS 4 Tx Slots	A	0948M	1:2.076	0.01	1880.00	661	22.5	21.44	Front	5	0.849	1.276	1.083	0.677		18.9	
Hotspot	GPRS 1900	GPRS 4 Tx Slots	A	0948M	1:2.076	-0.01	1909.80	810	22.5	21.55	Front	5	0.939	1.245	1.169	0.731		18.6	
Hotspot	GPRS 1900	GPRS 4 Tx Slots	A	0948M	1:2.076	-0.01	1850.20	512	22.5	21.26	Bottom	10	0.768	1.330	1.021	0.638		19.2	
Hotspot	GPRS 1900	GPRS 4 Tx Slots	A	0948M	1:2.076	-0.03	1880.00	661	22.5	21.44	Bottom	10	0.839	1.276	1.071	0.669		19.0	
Hotspot	GPRS 1900	GPRS 4 Tx Slots	A	0948M	1:2.076	-0.05	1909.80	810	22.5	21.55	Bottom	10	0.921	1.245	1.147	0.717		18.7	
Hotspot	GPRS 1900	GPRS 4 Tx Slots	A	0948M	1:2.076	0.18	1909.80	810	22.5	21.55	Right	10	0.060	1.245	0.075	0.047		30.5	
Hotspot	GPRS 1900	GPRS 4 Tx Slots	A	0948M	1:2.076	-0.06	1909.80	810	22.5	21.55	Left	10	0.053	1.245	0.066	0.041		31.1	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT										Body									
Spatial Peak										1.6 W/kg (mW/g)									
Uncontrolled Exposure/General Population										averaged over 1 gram									

Note: Blue entry represents variability measurement

Note: Blue entry represents variability measurement

Table 12-7 | Plot A5

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 10g SAR [W/kg]	Power Scaling Factor	Reported 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Phablet	GPRS 1900	GPRS 4 Tx Slots	A	3008M	1:2.076	0.00	1909.80	810	22.5	21.55	Bottom	0	1.030	1.245	1.282	0.321	Plot	22.2	22.2
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population										Phablet 4.0 W/kg (mW/g) averaged over 10 grams									

12.3 UMTS 850 Standalone SAR

Table 12-8

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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Head	UMTS 850	RMC	A	0946M	1:1	0.04	836.60	4183	24.0	22.71	Right Cheek	0	0.101	1.346	0.136	0.085		32.6	32.6
Head	UMTS 850	RMC	A	0946M	1:1	-0.08	836.60	4183	24.0	22.71	Right Tilt	0	0.050	1.346	0.067	0.042		35.7	
Head	UMTS 850	RMC	A	0946M	1:1	-0.03	836.60	4183	24.0	22.71	Left Cheek	0	0.096	1.346	0.129	0.081		32.8	
Head	UMTS 850	RMC	A	0946M	1:1	-0.02	836.60	4183	24.0	22.71	Left Tilt	0	0.046	1.346	0.062	0.039		36.0	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT														Head					
Spatial Peak														1.6 W/kg (mW/g)					
Uncontrolled Exposure/General Population														averaged over 1 gram					

Table 12-9 | Plot A6

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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Head	UMTS 850	RMC	E	0946M	1:1	0.00	826.40	4132	20.0	18.35	Right Cheek	0	0.410	1.462	0.599	0.374		22.2	21.7
Head	UMTS 850	RMC	E	0946M	1:1	-0.01	826.40	4132	20.0	18.35	Right Tilt	0	0.367	1.462	0.537	0.336		22.7	
Head	UMTS 850	RMC	E	0946M	1:1	-0.08	826.40	4132	20.0	18.35	Left Cheek	0	0.417	1.462	0.610	0.381		22.1	
Head	UMTS 850	RMC	E	0946M	1:1	0.09	826.40	4132	20.0	18.35	Left Tilt	0	0.455	1.462	0.665	0.416	Plot	21.7	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT										Head 1.6 W/kg (mW/g) averaged over 1 gram									
Spatial Peak Uncontrolled Exposure/General Population																			

Table 12-10 | Plot A7

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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body-worn/Hotspot	UMTS 850	RMC	A	0946M	1:1	-0.07	826.40	4132	25.0	23.96	Back	5	0.734	1.271	0.933	0.583		25.3	24.2
Body-worn/Hotspot	UMTS 850	RMC	A	0946M	1:1	0.03	836.60	4183	25.0	24.06	Back	5	0.780	1.242	0.969	0.606		25.1	
Body-worn/Hotspot	UMTS 850	RMC	A	0946M	1:1	-0.07	846.60	4233	25.0	24.06	Back	5	0.958	1.247	1.195	0.747	Plot	24.2	
Hotspot	UMTS 850	RMC	A	0946M	1:1	0.00	836.60	4183	25.0	24.06	Front	5	0.364	1.242	0.452	0.283		28.4	
Hotspot	UMTS 850	RMC	A	0946M	1:1	0.05	836.60	4183	25.0	24.06	Bottom	10	0.095	1.242	0.118	0.074		34.2	
Hotspot	UMTS 850	RMC	A	0946M	1:1	0.04	836.60	4183	25.0	24.06	Right	10	0.279	1.242	0.347	0.217		29.6	
Hotspot	UMTS 850	RMC	A	0946M	1:1	-0.03	836.60	4183	25.0	24.06	Left	10	0.072	1.242	0.089	0.056		35.4	
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 12-11

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]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body-worn/Hotspot	UMTS 850	RMC	E	2845M	1:1	0.00	826.40	4132	20.5	19.12	Back	5	0.481	1.374	0.661	0.413		22.2	22.2
Hotspot	UMTS 850	RMC	E	2845M	1:1	0.00	826.40	4132	20.5	19.12	Front	5	0.390	1.374	0.536	0.335		23.2	
Hotspot	UMTS 850	RMC	E	2845M	1:1	0.00	826.40	4132	20.5	19.12	Top	10	0.190	1.374	0.261	0.163		26.3	
Hotspot	UMTS 850	RMC	E	2845M	1:1	-0.02	826.40	4132	20.5	19.12	Right	10	0.131	1.374	0.180	0.113		27.9	
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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12.4 UMTS 1750 Standalone SAR

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]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Head	UMTS 1750	RMC	A	0948M	1:1	0.00	1752.60	1513	24.0	22.84	Right Cheek	0	0.062	1.306	0.081	0.051		34.9	31.4
Head	UMTS 1750	RMC	A	0948M	1:1	-0.14	1752.60	1513	24.0	22.84	Right Tilt	0	0.041	1.306	0.054	0.034		36.7	
Head	UMTS 1750	RMC	A	0948M	1:1	-0.05	1752.60	1513	24.0	22.84	Left Cheek	0	0.137	1.306	0.119	0.112		31.4	
Head	UMTS 1750	RMC	A	0948M	1:1	-0.03	1752.60	1513	24.0	22.84	Left Tilt	0	0.053	1.306	0.069	0.043		35.5	
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 12-13 | Plot A8

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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Head	UMTS 1750	RMC	F	0946M	1:1	-0.01	1752.60	1513	17.0	16.17	Right Cheek	0	0.444	1.211	0.538	0.136		19.6	19.4
Head	UMTS 1750	RMC	F	0946M	1:1	0.01	1752.60	1513	17.0	16.17	Right Tilt	0	0.468	1.211	0.567	0.354	Plot	19.4	
Head	UMTS 1750	RMC	F	0946M	1:1	0.02	1752.60	1513	17.0	16.17	Left Cheek	0	0.231	1.211	0.280	0.175		22.5	
Head	UMTS 1750	RMC	F	0946M	1:1	0.05	1752.60	1513	17.0	16.17	Left Tilt	0	0.349	1.211	0.423	0.264		20.7	
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 12-14 | Plot A9

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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body-worn/Hotspot	UMTS 1750	RMC	A	0948M	1:1	-0.01	1712.40	1312	18.5	18.27	Back	5	0.868	1.054	0.915	0.572		18.8	18.8
Body-worn/Hotspot	UMTS 1750	RMC	A	0948M	1:1	-0.01	1732.40	1412	18.5	18.26	Back	5	0.879	1.057	0.929	0.581		18.8	
Body-worn/Hotspot	UMTS 1750	RMC	A	0948M	1:1	0.00	1752.60	1513	18.5	18.40	Back	5	0.897	1.023	0.918	0.574	Plot	18.8	
Body-worn/Hotspot	UMTS 1750	RMC	A	0948M	1:1	0.00	1752.60	1513	18.5	18.40	Back	5	0.980	1.023	0.902	0.564		18.9	
Hotspot	UMTS 1750	RMC	A	0948M	1:1	0.00	1712.40	1312	18.5	18.27	Front	5	0.806	1.054	0.850	0.531		19.2	
Hotspot	UMTS 1750	RMC	A	0948M	1:1	-0.01	1732.40	1412	18.5	18.26	Front	5	0.805	1.057	0.851	0.532		19.2	
Hotspot	UMTS 1750	RMC	A	0948M	1:1	0.00	1752.60	1513	18.5	18.40	Front	5	0.798	1.023	0.816	0.510		19.3	
Hotspot	UMTS 1750	RMC	A	0948M	1:1	0.01	1752.60	1513	18.5	18.40	Bottom	10	0.459	1.023	0.674	0.421		20.2	
Hotspot	UMTS 1750	RMC	A	0948M	1:1	-0.01	1752.60	1513	18.5	18.40	Right	10	0.051	1.023	0.052	0.033		31.3	
Hotspot	UMTS 1750	RMC	A	0948M	1:1	-0.04	1752.60	1513	18.5	18.40	Left	10	0.098	1.023	0.100	0.063		28.4	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population											Body 1.6 W/kg (mW/g) averaged over 1 gram								

Note: Blue entry represents variability measurement

Table 12-15

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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body-worn/Hotspot	UMTS 1750	RMC	F	0948M	1:1	-0.07	1752.60	1513	19.0	18.06	Back	5	0.508	1.242	0.631	0.394		21.0	21.0
Hotspot	UMTS 1750	RMC	F	0948M	1:1	-0.04	1752.60	1513	19.0	18.06	Front	5	0.354	1.242	0.440	0.275		22.5	
Hotspot	UMTS 1750	RMC	F	0948M	1:1	0.13	1752.60	1513	19.0	18.06	Top	10	0.351	1.242	0.436	0.273		22.6	
Hotspot	UMTS 1750	RMC	F	0948M	1:1	0.04	1752.60	1513	19.0	18.06	Left	10	0.051	1.242	0.063	0.039		30.9	
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 12-16

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 10g SAR [W/kg]	Power Scaling Factor	Reported 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Phablet	UMTS 1750	RMC	A	3008M	1:1	0.00	1752.60	1513	18.5	18.40	Bottom	0	0.682	1.023	0.902	0.226		22.9	22.9
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population											Phablet 4.0 W/kg (mW/g) averaged over 10 grams								

Table 12-17 | Plot A10

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 10g SAR [W/kg]	Power Scaling Factor	Reported 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Phablet	UMTS 1750	RMC	F	3008M	1:1	-0.02	1752.60	1513	19.0	18.06	Top	0	1.010	1.242	1.254	0.314	Plot	21.9	21.9
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population											Phablet 4.0 W/kg (mW/g) averaged over 10 grams								

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12.5 UMTS 1900 Standalone SAR

Table 12-18 | Plot A11

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]	Exposure Ratio (1g SAR)	Plot #	Limit [dBm]	Overall Limit [dBm]	
Head	UMTS 1900	RMC	A	0948M	1:1	0.01	1880.00	9400	24.0	22.75	Right Cheek	0	0.066	1.334	0.088	0.055		34.5	32.0	
Head	UMTS 1900	RMC	A	0948M	1:1	-0.01	1880.00	9400	24.0	22.75	Right Tilt	0	0.054	1.334	0.072	0.045		35.4		
Head	UMTS 1900	RMC	A	0948M	1:1	-0.02	1880.00	9400	24.0	22.75	Left Cheek	0	0.117	1.334	0.156	0.098	Plot	32.0		
Head	UMTS 1900	RMC	A	0948M	1:1	-0.07	1880.00	9400	24.0	22.75	Left Tilt	0	0.056	1.334	0.075	0.047		35.2		
ANSI/IEEE C95.1 1992 - SAFETY LIMIT											Head Spatial Peak Uncontrolled Exposure/General Population									
														1.6 W/kg (mW/g) averaged over 1 gram						

Table 12-19 | Plot A12

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]	Exposure Ratio (1g SAR)	Plot #	Limit [dBm]	Overall Limit [dBm]	
Body-worn/Hotspot	UMTS 1900	RMC	A	3008M	1:1	0.05	1852.40	9262	18.0	16.94	Back	5	0.765	1.276	0.976	0.610		18.1	17.9	
Body-worn/Hotspot	UMTS 1900	RMC	A	0948M	1:1	0.00	1880.00	9400	18.0	16.99	Back	5	0.760	1.262	0.959	0.599		18.1		
Body-worn/Hotspot	UMTS 1900	RMC	A	3008M	1:1	-0.01	1907.60	9538	18.0	16.92	Back	5	0.781	1.282	1.001	0.626	Plot	17.9		
Hotspot	UMTS 1900	RMC	A	3008M	1:1	0.07	1852.40	9262	18.0	16.94	Front	5	0.648	1.276	0.827	0.517		18.8		
Hotspot	UMTS 1900	RMC	A	0948M	1:1	-0.01	1880.00	9400	18.0	16.99	Front	5	0.707	1.262	0.892	0.558		18.4		
Hotspot	UMTS 1900	RMC	A	3008M	1:1	0.00	1907.60	9538	18.0	16.92	Front	5	0.639	1.282	0.819	0.512		18.8		
Hotspot	UMTS 1900	RMC	A	3008M	1:1	0.02	1852.40	9262	18.0	16.94	Bottom	10	0.474	1.276	0.605	0.378		20.1		
Hotspot	UMTS 1900	RMC	A	0948M	1:1	-0.01	1880.00	9400	18.0	16.99	Bottom	10	0.641	1.262	0.809	0.506		18.9		
Hotspot	UMTS 1900	RMC	A	3008M	1:1	-0.01	1907.60	9538	18.0	16.92	Bottom	10	0.607	1.282	0.778	0.486		19.0		
Hotspot	UMTS 1900	RMC	A	0948M	1:1	-0.04	1880.00	9400	18.0	16.99	Right	10	0.049	1.262	0.062	0.039		30.0		
Hotspot	UMTS 1900	RMC	A	0948M	1:1	-0.03	1880.00	9400	18.0	16.99	Left	10	0.046	1.262	0.058	0.036		30.3		
ANSI/IEEE C95.1 1992 - SAFETY LIMIT										Body Spatial Peak Uncontrolled Exposure/General Population										
										1.6 W/kg (mW/g) averaged over 1 gram										

Table 12-20 | Plot A13

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 10g SAR [W/kg]	Power Scaling Factor	Reported 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #	Limit [dBm]	Overall Limit [dBm]
Phablet	UMTS 1900	RMC	A	3008M	1:1	0.01	1880.00	9400	18.0	16.99	Bottom	0	0.848	1.262	1.070	0.268	Plot	21.6	21.6
ANSI/IEEE C95.1 1992 - SAFETY LIMIT										Phablet Spatial Peak Uncontrolled Exposure/General Population									
										4.0 W/kg (mW/g) averaged over 10 grams									

12.6 LTE Band 12 Standalone SAR

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]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio	Plot #	Limit [dBm]	Overall Limit [dBm]
Head	LTE Band 12	10	QPSK	A	0948M	1:1	0.02	707.50	23095	0.0	25.0	23.51	1	0	Right Cheek	0	0.098	1.409	0.118	0.086		33.5	33.5
Head	LTE Band 12	10	QPSK	A	0948M	1:1	0.03	707.50	23095	1.0	24.0	22.90	25	0	Right Cheek	0	0.075	1.413	0.106	0.066		33.7	
Head	LTE Band 12	10	QPSK	A	0948M	1:1	-0.10	707.50	23095	0.0	25.0	23.51	1	0	Right Tilt	0	0.059	1.409	0.070	0.044		36.5	
Head	LTE Band 12	10	QPSK	A	0948M	1:1	0.02	707.50	23095	1.0	24.0	22.90	25	0	Right Tilt	0	0.037	1.413	0.052	0.033		36.8	
Head	LTE Band 12	10	QPSK	A	0948M	1:1	-0.11	707.50	23095	0.0	25.0	23.51	1	0	Left Cheek	0	0.085	1.409	0.100	0.075		34.2	
Head	LTE Band 12	10	QPSK	A	0948M	1:1	0.00	707.50	23095	1.0	24.0	22.90	25	0	Left Cheek	0	0.066	1.413	0.093	0.058		34.3	
Head	LTE Band 12	10	QPSK	A	0948M	1:1	-0.01	707.50	23095	0.0	25.0	23.51	1	0	Left Tilt	0	0.050	1.409	0.070	0.044		36.5	
Head	LTE Band 12	10	QPSK	A	0948M	1:1	-0.10	707.50	23095	1.0	24.0	22.90	25	0	Left Tilt	0	0.050	1.413	0.055	0.034		36.5	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT										Head Spatial Peak Uncontrolled Exposure/General Population													
										1.6 W/kg (mW/g) averaged over 1 gram													

Table 12-22 | Plot A14

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]	Exposure Ratio (1g SAR)	Plot #	Limit [dBm]	Overall Limit [dBm]
Head	LTE Band 12	10	QPSK	E	3008M	1:1	0.01	707.50	23095	0.0	20.0	18.88	1	25	Right Cheek	0	0.370	1.294	0.479	0.299		22.1	21.3
Head	LTE Band 12	10	QPSK	E	3008M	1:1	0.00	707.50	23095	0.0	20.0	18.85	25	0	Right Cheek	0	0.382	1.303	0.498	0.311		23.0	
Head	LTE Band 12	10	QPSK	E	3008M	1:1	0.04	707.50	23095	0.0	20.0	18.88	1	25	Right Tilt	0	0.318	1.294	0.411	0.257		23.8	
Head	LTE Band 12	10	QPSK	E	3008M	1:1	-0.05	707.50	23095	0.0	20.0	18.85	25	0	Right Tilt	0	0.331	1.303	0.436	0.272		23.6	
Head	LTE Band 12	10	QPSK	E	3008M	1:1	-0.13	707.50	23095	0.0	20.0	18.88	1	25	Left Cheek	0	0.530	1.294	0.686	0.429		21.6	
Head	LTE Band 12	10	QPSK	E	3008M	1:1	0.11	707.50	23095	0.0	20.0	18.85	25	0	Left Cheek	0	0.567	1.303	0.739	0.462	Plot	21.3	
Head	LTE Band 12	10	QPSK	E	3008M	1:1	-0.16	707.50	23095	0.0	20.0	18.88	1	25	Left Tilt	0	0.451	1.294	0.586	0.366		22.3	
Head	LTE Band 12	10	QPSK	E	3008M	1:1	-0.04	707.50	23095	0.0	20.0	18.85	25	0	Left Tilt	0	0.423	1.303	0.551	0.344		22.5	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT										Head Spatial Peak Uncontrolled Exposure/General Population													
										1.6 W/kg (mW/g) averaged over 1 gram													

Table 12-23 | Plot A15

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]	Exposure Ratio (1g SAR)	Plot #	Limit [dBm]	Overall Limit [dBm]
Body-worn/Hotspot	LTE Band 12	10	QPSK	A	0749M	1:1	-0.07	707.50	23095	0.0	25.0	23.51	1	0	Back	5	0.839	1.409	1.182	0.739	Plot	24.2	24.2
Body-worn/Hotspot	LTE Band 12	10	QPSK	A	0749M	1:1	0.00	707.50	23095	0.0	25.0	23.51	1	0	Back	5	0.840	1.409	1.180	0.706		24.4	
Body-worn/Hotspot	LTE Band 12	10	QPSK	A	0749M	1:1	-0.05	707.50	23095	1.0	24.0	22.90	25	0	Back	5	0.838	1.413	0.939	0.581		24.4	
Body-worn/Hotspot	LTE Band 12	10	QPSK	A	0749M	1:1	-0.03	707.50	23095	1.0	24.0	22.90	25	0	Back	5	0.839	1.413	0.907	0.567		24.4	
Hotspot	LTE Band 12	10	QPSK	A	0749M	1:1	0.00	707.50	23095	0.0	25.0	23.51	1	0	Front	5	0.649	1.409	0.847	0.404		26.8	
Hotspot	LTE Band 12	10	QPSK	A	0749M	1:1	-0.02	707.50	23095	1.0	24.0	22.90	25	0	Front	5	0.646	1.413	0.816	0.323		26.8	
Hotspot	LTE Band 12	10	QPSK	A	0749M	1:1	0.00	707.50	23095	0.0	25.0	23.51	1	0	Bottom	10	0.147	1.409	0.207	0.129		31.8	
Hotspot	LTE Band 12	10	QPSK	A	0749M	1:1	0.04	707.50	23095	1.0	24.0	22.90	25	0	Bottom	10	0.117	1.413	0.165	0.103		31.8	
Hotspot	LTE Band 12	10	QPSK	A	0749M	1:1	-0.05	707.50	23095	0.0	25.0	22.90	25	0	Bottom	10	0.140	1.409	0.205	0.127		30.6	
Hotspot	LTE Band 12	10	QPSK	A	0749M	1:1	-0.03	707.50	23095	1.0	24.0	22.90	25	0	Right	10	0.156	1.413	0.220	0.138		30.5	
Hotspot	LTE Band 12	10	QPSK	A	0749M	1:1	0.00	707.50	23095	0.0	25.0	23.51	1	0	Left	10	0.140	1.409	0.225	0.141		31.4	
Hotspot	LTE Band 12	10	QPSK	A	0749M	1:1	0.06	707.50	23095	1.0	24.0	23.50	25	0	Left	10	0.138	1.413	0.168	0.105		31.7	
ANSI/IEEE CS-1.1992 - SAFETY LIMIT																	Body						
Spatial Peak																	1.6 W/kg (mW/g)						
Uncontrolled Frequency/General Population																	averaged 6g						

Table 12-24

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]	Exposure Ratio (1g SAR)	Plot #	Limit [dBm]	Overall Limit [dBm]
Body-worn/Hotspot	LTE Band 12	10	QPSK	E	3008M	1:1	-0.11	707.50	23095	0.0	20.0	18.88	1	25	Back	5	0.446	1.294	0.577	0.361		22.3	
Body-worn/Hotspot	LTE Band 12	10	QPSK	E	3008M	1:1	-0.08	707.50	23095	0.0	20.0	18.85	25	0	Back	5	0.456	1.303	0.584	0.371		22.2	
Hotspot	LTE Band 12	10	QPSK	E	3008M	1:1	0.03	707.50	23095	0.0	20.0	18.88	1	25	Front	5	0.404	1.294	0.564	0.365		22.0	
Hotspot	LTE Band 12	10	QPSK	E	3008M	1:1	-0.08	707.50	23095	0.0	20.0	18.85	25	0	Front	5	0.396	1.303	0.555	0.359		21.9	
Hotspot	LTE Band 12	10	QPSK	E	0749M	1:1	-0.19	707.50	23095	0.0	20.0	18.88	1	25	Top	10	0.118	1.294	0.113	0.096		28.1	
Hotspot	LTE Band 12	10	QPSK	E	0749M	1:1	-0.05	707.50	23095	0.0	20.0	18.85	25	0	Top	10	0.115	1.303	0.155	0.097		28.0	
Hotspot	LTE Band 12	10	QPSK	E	0749M	1:1	0.01	707.50	23095	0.0	20.0	18.88	1	25	Right	10	0.150	1.294	0.184	0.111		27.1	
Hotspot	LTE Band 12	10	QPSK	E	0749M	1:1	-0.01	707.50	23095	0.0	20.0	18.85	25	0	Right	10	0.146	1.303	0.190	0.119		27.2	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																	Body						
Spatial Peak																	1.6 W/kg (mW/g)						
Uncontrolled Exposure/General Population																	averaged over 1 gram						

12.7 LTE Band 17 Standalone SAR

Table 12-25 | Plot A16

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]	Exposure Ratio (1g SAR)	Plot #	Limit [dBm]	Overall Limit [dBm]
Body-worn/Hotspot	LTE Band 17	10	QPSK	E	0321M	1:1	-0.08	710.00	23790	0.0	21.5	20.57	1	0	Back	5	0.752	1.239	0.912	0.583		21.8	
Body-worn/Hotspot	LTE Band 17	10	QPSK	E	0321M	1:1	0.00	710.00	23790	0.0	21.5	20.58	25	0	Back	5	0.793	1.236	0.931	0.582	Plot	21.8	
Body-worn/Hotspot	LTE Band 17	10	QPSK	E	0739M	1:1	-0.05	710.00	23790	0.0	21.5	20.56	50	0	Back	5	0.687	1.242	0.853	0.533		22.1	
Hotspot	LTE Band 17	10	QPSK	E	0739M	1:1	-0.01	710.00	23790	0.0	21.5	20.57	1	0	Front	5	0.627	1.239	0.808	0.508		24.1	
Hotspot	LTE Band 17	10	QPSK	E	0739M	1:1	-0.08	710.00	23790	0.0	21.5	20.58	25	0	Front	5	0.428	1.236	0.529	0.331		24.2	
Hotspot	LTE Band 17	10	QPSK	E	0739M	1:1	-0.02	710.00	23790	0.0	21.5	20.57	1	0	Top	10	0.199	1.239	0.247	0.154		27.5	21.8
Hotspot	LTE Band 17	10	QPSK	E	0739M	1:1	-0.06	710.00	23790	0.0	21.5	20.58	25	0	Top	10	0.200	1.236	0.251	0.151		27.6	
Hotspot	LTE Band 17	10	QPSK	E	0739M	1:1	-0.04	710.00	23790	0.0	21.5	20.57	1	0	Right	10	0.213	1.239	0.264	0.165		27.2	
Hotspot	LTE Band 17	10	QPSK	E	0739M	1:1	-0.05	710.00	23790	0.0	21.5	20.58	25	0	Right	10	0.209	1.236	0.258	0.161		27.3	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																	Body						
Spatial Peak																	1.6 W/kg (mW/g)						
Uncontrolled Exposure/General Population																	averaged over 1 gram						

12.8 LTE Band 13 Standalone SAR

Table 12-26

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]	Exposure Ratio (1g SAR)	Plot #	Limit [dBm]	Overall Limit [dBm]
Head	LTE Band 13	10	QPSK	A	0946M	1:1	0.00	782.00	23230	0.0	24.0	22.62	1	49	Right Cheek	0	0.085	1.374	0.117	0.073		33.3	
Head	LTE Band 13	10	QPSK	A	0946M	1:1	0.01	782.00	23230	1.0	23.0	21.62	25	25	Right Cheek	0	0.087	1.374	0.092	0.058		33.3	
Head	LTE Band 13	10	QPSK	A	0946M	1:1	-0.02	782.00	23230	0.0	24.0	22.62	1	49	Right Tilt	0	0.049	1.374	0.057	0.042		35.7	
Head	LTE Band 13	10	QPSK	A	0946M	1:1	0.00	782.00	23230	1.0	23.0	21.62	25	25	Right Tilt	0	0.037	1.374	0.051	0.032		35.9	
Head	LTE Band 13	10	QPSK	A	0946M	1:1	-0.01	782.00	23230	0.0	24.0	22.62	1	49	Left Cheek	0	0.086	1.374	0.092	0.058		34.2	
Head	LTE Band 13	10	QPSK	A	0946M	1:1	-0.07	782.00	23230	1.0	23.0	21.62	25	25	Left Cheek	0	0.059	1.374	0.081	0.051		33.9	
Head	LTE Band 13	10	QPSK	A	0946M	1:1	-0.02	782.00	23230	0.0	24.0	22.62	1	49	Left Tilt	0	0.047	1.374	0.065	0.041		35.8	
Head	LTE Band 13	10	QPSK	A	0946M	1:1	-0.08	782.00	23230	1.0	23.0	21.62	25	25	Left Tilt	0	0.031	1.374	0.051	0.032		35.9	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																	Head						
Spatial Peak																	1.6 W/kg (mW/g)						
Uncontrolled Exposure/General Population																	averaged over 1 gram						

Table 12-27 | Plot A17

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]	Exposure Ratio (1g SAR)	Plot #	Limit [dBm]	Overall Limit [dBm]
Head	LTE Band 13	10	QPSK	E	0946M	1:1	-0.01	782.00	23230	0.0	19.0	18.00	1	49	Right Cheek	0	0.572	1.259	0.720	0.450		20.4	
Head	LTE Band 13	10	QPSK	E	0946M	1:1	0.00	782.00	23230	0.0	19.0	18.03	25	12	Right Cheek	0	0.585	1.250	0.731	0.457	Plot	20.3	
Head	LTE Band 13	10	QPSK	E	0946M	1:1	-0.06	782.00	23230	0.0	19.0	18.00	1	49	Right Tilt	0	0.417	1.259	0.525	0.328		21.7	
Head	LTE Band 13	10	QPSK	E	0946M	1:1	-0.02	782.00	23230	0.0	19.0	18.00	25	12	Right Tilt	0	0.411	1.250	0.516	0.321		21.8	
Head	LTE Band 13	10	QPSK	E	0946M	1:1	-0.01	782.00	23230	0.0	19.0	18.00	1	49	Left Cheek	0	0.529	1.259	0.666	0.418		20.7	
Head	LTE Band 13	10	QPSK	E	0946M	1:1	0.06	782.00	23230	0.0	19.0	18.03	25	12	Left Cheek	0	0.546	1.250	0.683	0.427		20.6	
Head	LTE Band 13	10	QPSK	E	0946M	1:1	0.00	782.00	23230	0.0	19.0	18.00	1	49	Left Tilt	0	0.490	1.259	0.617	0.386		21.0	
Head	LTE Band 13	10	QPSK	E	0946M	1:1	-0.00	782.00	23230	0.0	19.0	18.00	25	12	Left Tilt	0	0.499	1.250	0.620	0.388		21.0	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																	Head						
Spatial Peak																	1.6 W/kg (mW/g)						
Uncontrolled Exposure/General Population																	averaged over 1 gram						

Table 12-28

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]	Exposure Ratio (1g SAR)	Plot #	Limit [dBm]	Overall Limit [dBm]
Body-worn/Hotspot	LTE Band 13	10	QPSK	A	0749M	1:1	-0.05	782.00	23230	0.0	24.0	22.62	1	49	Back	5	0.555	1.374	0.763	0.477		25.1	
Body-worn/Hotspot	LTE Band 13	10	QPSK	A	0749M	1:1	-0.06	782.00	23230	1.0	23.0	21.62	25	25	Back	5	0.489	1.374	0.609	0.377		25.1	
Hotspot	LTE Band 13	10	QPSK	A	0749M	1:1	0.01	782.00	23230	0.0	24.0	22.62	1	49	Front	5	0.596	1.374	0.407	0.254		27.9	
Hotspot	LTE Band 13	10	QPSK	A	0749M	1:1	-0.06	782.00	23230	1.0	23.0	21.62	25	25	Front	5	0.513	1.374	0.320	0.200		27.9	
Hotspot	LTE Band 13	10	QPSK	A	0749M	1:1	0.05	782.00	23230	0.0	24.0	22.62	1	49	Bottom	10	0.085	1.374	0.117	0.073		33.3	
Hotspot	LTE Band 13	10	QPSK	A	0749M	1:1	-0.08	782.00	23230	1.0	23.0	21.62	25	25	Bottom	10	0.066	1.374	0.091	0.057		33.4	
Hotspot	LTE Band 13	10	QPSK	A	0749M	1:1	0.03	782.00	23230	0.0	24.0	22.62	1	49	Right	10	0.112	1.374	0.169	0.106		31.7	
Hotspot	LTE Band 13	10	QPSK	A	0749M	1:1	0.04	782.00	23230	0.0	24.0	22.62	1	49	Left	10	0.089	1.374	0.129	0.086		33.6	
Hotspot	LTE Band 13	10	QPSK	A	0749M	1:1	0.09	782.00	23230	1.0	23.0	21.62	25	25	Left	10	0.059	1.374	0.089	0.056		33.4	
Analogues: CENELEC EN 12202 - SAFETY LIMIT																							
Spatial Peak																	Body						
Uncontrolled Exposure (General Public)																	1.6 W/kg (mW/g) averaged over 1 cm						

Table 12-29 | Plot A18

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]	Exposure Ratio (1g SAR)	Plot #	Limit [dBm]	Overall Limit [dBm]
Body worn/Hotspot	LTE Band 13	10	QPSK	E	3008M	1:1	-0.09	782.00	23230	0.0	20.5	19.25	1	49	Back	5	0.563	1.334	0.751	0.469	Plot	21.7	
Body worn/Hotspot	LTE Band 13	10	QPSK	E	3008M	1:1	0.02	782.00	23230	0.0	20.5	19.27	25	25	Back	5	0.544	1.327	0.722	0.451		21.9	
Hotspot	LTE Band 13	10	QPSK	E	3008M	1:1	0.04	782.00	23230	0.0	20.5	19.25	1	49	Front	5	0.594	1.334	0.852	0.520		25.0	
Hotspot	LTE Band 13	10	QPSK	E	3008M	1:1	-0.15	782.00	23230	0.0	20.5	19.27	25	25	Front	5	0.273	1.327	0.362	0.225		24.9	
Hotspot	LTE Band 13	10	QPSK	E	3008M	1:1	0.05	782.00	23230	0.0	20.5	19.25	1	49	Top	10	0.172	1.334	0.279	0.143		26.8	
Hotspot	LTE Band 13	10	QPSK	E	3008M	1:1	0.09	782.00	23230	0.0	20.5	19.27	25	25	Top	10	0.196	1.327	0.260	0.163		26.8	
Hotspot	LTE Band 13	10	QPSK	E	3008M	1:1	-0.09	782.00	23230	0.0	20.5	19.25	1	49	Right	10	0.139	1.334	0.185	0.116		27.8	
Hotspot	LTE Band 13	10	QPSK	E	3008M	1:1	-0.04	782.00	23230	0.0	20.5	19.27	25	25	Right	10	0.135	1.327	0.179	0.112		27.9	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																	Body		1.6 W/kg (mW/g)				
Spatial Peak																	Head		1.6 W/kg (mW/g)				
Uncontrolled Exposure/General Population																	averaged over 1 gram						

12.9 LTE Band 26 (Cell) Standalone SAR

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]	Exposure Ratio (1g SAR)	Plot #	Limit [dBm]	Overall Limit [dBm]
Head	LTE Band 26	15	QPSK	A	0946M	1:1	-0.02	831.50	26865	0.0	25.0	23.71	1	74	Right Cheek	0	0.114	1.346	0.133	0.096		33.1	
Head	LTE Band 26	15	QPSK	A	0946M	1:1	0.03	831.50	26865	1.0	24.0	22.89	36	37	Right Cheek	0	0.087	1.352	0.118	0.074		33.2	
Head	LTE Band 26	15	QPSK	A	0946M	1:1	0.10	831.50	26865	0.0	25.0	23.71	1	74	Right Tilt	0	0.074	1.346	0.100	0.063		35.0	
Head	LTE Band 26	15	QPSK	A	0946M	1:1	-0.01	831.50	26865	1.0	24.0	22.89	36	37	Right Tilt	0	0.095	1.352	0.074	0.046		35.2	
Head	LTE Band 26	15	QPSK	A	0946M	1:1	0.04	831.50	26865	0.0	25.0	23.71	1	74	Left Cheek	0	0.100	1.346	0.135	0.084		33.7	
Head	LTE Band 26	15	QPSK	A	0946M	1:1	-0.14	831.50	26865	1.0	24.0	22.89	36	37	Left Cheek	0	0.079	1.352	0.107	0.067		33.7	
Head	LTE Band 26	15	QPSK	A	0946M	1:1	-0.09	831.50	26865	0.0	25.0	23.71	1	74	Left Tilt	0	0.071	1.346	0.096	0.060		35.1	
Head	LTE Band 26	15	QPSK	A	0946M	1:1	-0.16	831.50	26865	1.0	24.0	22.89	36	37	Left Tilt	0	0.061	1.352	0.082	0.051		34.8	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																	Head		1.6 W/kg (mW/g)				
Spatial Peak																	averaged over 1 gram						
Uncontrolled Exposure/General Population																							

Table 12-31 | Plot A19

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]	Exposure Ratio (1g SAR)	Plot #	Limit [dBm]	Overall Limit [dBm]
Head	LTE Band 26	15	QPSK	E	0946M	1:1	-0.02	831.50	26865	0.0	20.0	19.13	1	74	Right Cheek	0	0.492	1.222	0.601	0.376		22.2	
Head	LTE Band 26	15	QPSK	E	0946M	1:1	-0.02	831.50	26865	0.0	20.0	19.10	36	37	Right Cheek	0	0.514	1.230	0.623	0.395	Plot	21.9	
Head	LTE Band 26	15	QPSK	E	0946M	1:1	-0.11	831.50	26865	0.0	20.0	19.13	1	74	Right Tilt	0	0.388	1.222	0.474	0.296		23.2	
Head	LTE Band 26	15	QPSK	E	0946M	1:1	-0.09	831.50	26865	0.0	20.0	19.10	36	37	Right Tilt	0	0.388	1.230	0.477	0.298		23.2	
Head	LTE Band 26	15	QPSK	E	0946M	1:1	-0.07	831.50	26865	0.0	20.0	19.13	1	74	Left Cheek	0	0.470	1.222	0.574	0.359		23.4	
Head	LTE Band 26	15	QPSK	E	0946M	1:1	0.00	831.50	26865	0.0	20.0	19.10	36	37	Left Cheek	0	0.476	1.230	0.585	0.366		23.2	
Head	LTE Band 26	15	QPSK	E	0946M	1:1	0.04	831.50	26865	0.0	20.0	19.13	1	74	Left Tilt	0	0.453	1.222	0.514	0.346		22.6	
Head	LTE Band 26	15	QPSK	E	0946M	1:1	-0.01	831.50	26865	0.0	20.0	19.10	36	37	Left Tilt	0	0.448	1.230	0.549	0.343		22.5	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																	Head		1.6 W/kg (mW/g)				
Spatial Peak																	averaged over 1 gram						
Uncontrolled Exposure/General Population																							

Table 12-32 | Plot A20

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]	Exposure Ratio (1g SAR)	Plot #	Limit [dBm]	Overall Limit [dBm]
Body worn/Hotspot	LTE Band 26	15	QPSK	A	0749M	1:1	-0.02	831.50	26865	0.0	24.0	23.13	1	74	Back	5	0.605	1.222	0.813	0.508	Plot	24.9	
Body worn/Hotspot	LTE Band 26	15	QPSK	A	0749M	1:1	-0.05	831.50	26865	0.0	24.0	22.94	36	37	Back	5	0.530	1.276	0.676	0.423		25.6	
Body worn/Hotspot	LTE Band 26	15	QPSK	A	0749M	1:1	-0.08	831.50	26865	0.0	24.0	22.75	75	0	Back	5	0.526	1.334	0.702	0.439		25.5	
Hotspot	LTE Band 26	15	QPSK	A	0749M	1:1	0.00	831.50	26865	0.0	24.0	23.14	1	74	Front	5	0.185	1.272	0.170	0.294		27.2	
Hotspot	LTE Band 26	15	QPSK	A	0749M	1:1	-0.07	831.50	26865	0.0	24.0	22.94	36	37	Front	5	0.106	1.276	0.190	0.244		28.0	
Hotspot	LTE Band 26	15	QPSK	A	0749M	1:1	0.02	831.50	26865	0.0	24.0	23.13	1	74	Bottom	10	0.085	1.222	0.104	0.065		33.8	
Hotspot	LTE Band 26	15	QPSK	A	0749M	1:1	-0.16	831.50	26865	0.0	24.0	22.94	36	37	Bottom	10	0.054	1.276	0.080	0.051		34.8	
Hotspot	LTE Band 26	15	QPSK	A	0749M	1:1	-0.12	831.50	26865	0.0	24.0	23.13	1	74	Right	10	0.094	1.222	0.115	0.072		33.3	
Hotspot	LTE Band 26	15	QPSK	A	0749M	1:1	0.01	831.50	26865	0.0	24.0	22.94	36	37	Right	10	0.077	1.276	0.098	0.061		34.0	
Hotspot	LTE Band 26	15	QPSK	A	0749M	1:1	-0.03	831.50	26865	0.0	24.0	23.14	1	74	Left	10	0.084	1.222	0.104	0.065		33.8	
Hotspot	LTE Band 26	15	QPSK	A	0749M	1:1	-0.17	831.50	26865	0.0	24.0	22.94	36	37	Left	10	0.073	1.276	0.093	0.058		34.3	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																	Body		1.6 W/kg (mW/g)				
Spatial Peak																	averaged over 1 gram						
Uncontrolled Exposure/General Population																							

Table 12-33

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]	Exposure Ratio (1g SAR)	Plot #	Limit [dBm]	Overall Limit [dBm]	
Body worn/hotspot	LTE Band 26	15	QPSK	E	0321M	1:1	-0.02	831.50	26865	0.0	21.5	20.35	1	74	Back	5	0.612	1.303	0.797	0.458		22.4		
Body worn/hotspot	LTE Band 26	15	QPSK	E	0749M	1:1	-0.17	831.50	26865	0.0	21.5	20.34	36	37	Back	5	0.590	1.306	0.771	0.462		22.6		
Hotspot	LTE Band 26	15	QPSK	E	0321M	1:1	0.00	831.50	26865	0.0	21.5	20.35	1	74	Front	5	0.618	1.303	0.675	0.422		23.2		
Hotspot	LTE Band 26	15	QPSK	E	0321M	1:1	-0.09	831.50	26865	0.0	21.5	20.34	36	37	Front	5	0.490	1.306	0.640	0.400		23.4		
Hotspot	LTE Band 26	15	QPSK	E	0321M	1:1	0.04	831.50	26865	0.0	21.5	20.35	1	74	Top	10	0.619	1.303	0.724	0.171		27.1	22.4	
Hotspot	LTE Band 26	15	QPSK	E	0321M	1:1	0.07	831.50	26865	0.0	21.5	20.34	36	37	Top	10	0.199	1.306	0.260	0.163		27.3		
Hotspot	LTE Band 26	15	QPSK	E	0321M	1:1	0.04	831.50	26865	0.0	21.5	20.35	1	74	Right	10	0.618	1.303	0.722	0.163		28.0		
Hotspot	LTE Band 26	15	QPSK	E	0321M	1:1	0.07	831.50	26865	0.0	21.5	20.34	36	37	Right	10	0.199	1.306	0.208	0.130		28.1		
ANSI/IEEE C95.1.1992 - SAFETY LIMIT																								
Spatial Peak																						Body		
Uncontrolled Exposure/General Population																						1.4 W/kg (mW/g)		
																						averaged over 1 gram		

Table 12-35 | Plot A21

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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Head	LTE Band 66	20	QPSK	F	3008M	1:1	-0.02	1745.00	132322	0.0	17.0	16.04	1	99	Right Cheek	0	0.501	1.247	0.625	0.391		19.0	
Head	LTE Band 66	20	QPSK	F	3008M	1:1	0.04	1745.00	132322	0.0	17.0	15.91	50	50	Right Cheek	0	0.498	1.285	0.640	0.400		18.9	
Head	LTE Band 66	20	QPSK	F	3008M	1:1	0.01	1745.00	132322	0.0	17.0	16.04	1	99	Right Tilt	0	0.508	1.247	0.625	0.435		18.9	
Head	LTE Band 66	20	QPSK	F	3008M	1:1	-0.01	1745.00	132322	0.0	17.0	15.91	50	50	Right Tilt	0	0.508	1.285	0.730	0.468	Plot	18.3	
Head	LTE Band 66	20	QPSK	F	3008M	1:1	-0.02	1745.00	132322	0.0	17.0	16.04	1	99	Left Cheek	0	0.504	1.247	0.379	0.237		21.2	
Head	LTE Band 66	20	QPSK	F	3008M	1:1	-0.05	1745.00	132322	0.0	17.0	15.91	50	50	Left Cheek	0	0.502	1.285	0.388	0.243		21.1	
Head	LTE Band 66	20	QPSK	F	3008M	1:1	-0.01	1745.00	132322	0.0	17.0	16.04	1	99	Left Tilt	0	0.412	1.247	0.514	0.311		19.8	
Head	LTE Band 66	20	QPSK	F	3008M	1:1	0.01	1745.00	132322	0.0	17.0	15.91	50	50	Left Tilt	0	0.417	1.285	0.536	0.335		19.7	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																	Head						
Spatial Peak																	1.6 W/kg (mW/g)						
Uncontrolled Exposure/General Population																	averaged over 1 gram						

Table 12-36 | Plot A22

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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body-worn/Hotspot	LTE Band 66	20	QPSK	A	0760M	1:1	-0.01	1720.00	132072	0.0	18.5	18.00	1	0	Back	5	0.702	1.122	0.788	0.493		19.5	
Body-worn/Hotspot	LTE Band 66	20	QPSK	A	0760M	1:1	0.01	1745.00	132322	0.0	18.5	18.14	1	99	Back	5	0.747	1.086	0.813	0.521		19.2	
Body-worn/Hotspot	LTE Band 66	20	QPSK	A	0760M	1:1	-0.00	1720.00	132072	0.0	18.5	18.12	1	0	Back	5	0.709	1.091	0.839	0.524	Plot	19.2	
Body-worn/Hotspot	LTE Band 66	20	QPSK	A	0760M	1:1	0.01	1720.00	132072	0.0	18.5	18.06	50	0	Back	5	0.733	1.109	0.813	0.508		19.3	
Body-worn/Hotspot	LTE Band 66	20	QPSK	A	0760M	1:1	-0.02	1745.00	132322	0.0	18.5	18.19	50	50	Back	5	0.746	1.074	0.823	0.514		19.3	
Body-worn/Hotspot	LTE Band 66	20	QPSK	A	0760M	1:1	-0.00	1720.00	132072	0.0	18.5	18.00	50	25	Back	5	0.761	1.117	0.900	0.531		19.2	
Body-worn/Hotspot	LTE Band 66	20	QPSK	A	0760M	1:1	0.01	1745.00	132322	0.0	18.5	18.13	100	0	Back	5	0.756	1.089	0.823	0.514		19.3	
Hotspot	LTE Band 66	20	QPSK	A	0760M	1:1	0.00	1745.00	132322	0.0	18.5	18.14	1	99	Front	5	0.701	1.086	0.761	0.476		19.6	
Hotspot	LTE Band 66	20	QPSK	A	0760M	1:1	-0.01	1745.00	132322	0.0	18.5	18.19	50	50	Front	5	0.735	1.074	0.789	0.485		19.5	
Hotspot	LTE Band 66	20	QPSK	A	0760M	1:1	0.04	1745.00	132322	0.0	18.5	18.14	1	99	Bottom	10	0.604	1.086	0.439	0.274		22.0	
Hotspot	LTE Band 66	20	QPSK	A	0760M	1:1	-0.12	1745.00	132322	0.0	18.5	18.19	50	50	Bottom	10	0.449	1.074	0.462	0.261		21.6	
Hotspot	LTE Band 66	20	QPSK	A	0760M	1:1	0.01	1745.00	132322	0.0	18.5	18.14	1	99	Right	10	0.650	1.086	0.564	0.354		21.3	
Hotspot	LTE Band 66	20	QPSK	A	0760M	1:1	0.06	1745.00	132322	0.0	18.5	18.19	50	50	Right	10	0.645	1.074	0.648	0.350		21.6	
Hotspot	LTE Band 66	20	QPSK	A	0760M	1:1	-0.05	1745.00	132322	0.0	18.5	18.14	1	99	Left	10	0.687	1.086	0.604	0.359		28.7	
Hotspot	LTE Band 66	20	QPSK	A	0760M	1:1	0.04	1745.00	132322	0.0	18.5	18.19	50	50	Left	10	0.687	1.074	0.693	0.358		28.7	
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 12-37

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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body-worn/hotspot	LTE Band 66	20	QPSK	F	0760M	1:1	-0.02	1720.00	132072	0.0	19.5	18.53	1	0	Back	5	0.593	1.250	0.741	0.463		20.7	
Body-worn/hotspot	LTE Band 66	20	QPSK	F	0760M	1:1	-0.02	1720.00	132072	0.0	19.5	18.42	50	50	Back	5	0.576	1.282	0.738	0.461		20.8	
Hotspot	LTE Band 66	20	QPSK	F	0760M	1:1	0.00	1720.00	132072	0.0	19.5	18.53	1	0	Front	5	0.484	1.250	0.605	0.378		21.6	
Hotspot	LTE Band 66	20	QPSK	F	0760M	1:1	-0.02	1720.00	132072	0.0	19.5	18.42	50	50	Front	5	0.475	1.282	0.609	0.381		21.6	
Hotspot	LTE Band 66	20	QPSK	F	0760M	1:1	-0.06	1720.00	132072	0.0	19.5	18.53	1	0	Top	10	0.375	1.250	0.469	0.293		22.7	
Hotspot	LTE Band 66	20	QPSK	F	0760M	1:1	0.00	1720.00	132072	0.0	19.5	18.42	50	50	Top	10	0.339	1.282	0.460	0.288		22.8	
Hotspot	LTE Band 66	20	QPSK	F	0760M	1:1	-0.00	1720.00	132072	0.0	19.5	18.53	1	0	Left	10	0.689	1.250	0.311	0.269		29.0	
Hotspot	LTE Band 66	20	QPSK	F	0760M	1:1	0.05	1720.00	132072	0.0	19.5	18.42	50	50	Left	10	0.690	1.282	0.313	0.272		28.8	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																	Body						
Spatial Peak																	1.6 W/kg (mW/g)						
Uncontrolled Exposure/General Population																	averaged over 1 gram						

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 10g SAR [W/kg]	Power Scaling Factor	Reported 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Phabnet	LTE Band 66	20	QPSK	A	3008M	1:1	-0.06	1745.00	132322	0.0	18.5	18.14	1	99	Bottom	0	0.627	1.086	0.681	0.170		24.1	
Phabnet	LTE Band 66	20	QPSK	A	3008M	1:1	-0.04	1745.00	132322	0.0	18.5	18.19	50	50	Bottom	0	0.643	1.074	0.691	0.173		24.0	24.0
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																	Phabnet						
Spatial Peak																	4.0 W/kg (mW/g)						
Uncontrolled Exposure/General Population																	averaged over 10 grams						

Table 12-39 | Plot A23

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 10g SAR [W/kg]	Power Scaling Factor	Reported 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Phabnet	LTE Band 66	20	QPSK	F	3008M	1:1	-0.01	1720.00	132072	0.0	19.5	18.53	1	0	Top	0	1.290	1.350	1.613	0.403	Plot	21.4	
Phabnet	LTE Band 66	20	QPSK	F	3008M	1:1	-0.03	1720.00	132072	0.0	19.5	18.42	50	0	Top	0	1.240	1.282	1.590	0.398		21.4	21.4
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																	Phabnet						
Spatial Peak																	4.0 W/kg (mW/g)						
Uncontrolled Exposure/General Population																	averaged over 10 grams						

12.11 LTE Band 25 (PCS) Standalone SAR

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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Head	LTE Band 25	20	QPSK	A	09A98	1:1	0.12	1905.00	26590	1.0	24.0	22.66	1	0	Right Cheek	0	0.069	1.361	0.004	0.039		34.2	
Head	LTE Band 25	20	QPSK	A	09A98	1:1	0.06	1905.00	26590	1.0	23.0	21.60	50	0	Right Cheek	0	0.053	1.360	0.073	0.046		34.3	
Head	LTE Band 25	20	QPSK	A	09A98	1:1	-0.08	1905.00	26590	1.0	24.0	22.66	1	0	Right Tilt	0	0.057	1.361	0.078	0.049		35.1	
Head	LTE Band 25	20	QPSK	A	09A98	1:1	-0.06	1905.00	26590	1.0	23.0	21.60	50	0	Right Tilt	0	0.053	1.360	0.051	0.032		35.9	
Head	LTE Band 25	20	QPSK	A	09A98	1:1	0.04	1905.00	26590	1.0	24.0	22.66	1	0	Left Cheek	0	0.117	1.361	0.339	0.099		31.9	
Head	LTE Band 25	20	QPSK	A	09A98	1:1	-0.01	1905.00	26590	1.0	23.0	21.60	50	0	Left Cheek	0	0.094	1.360	0.130	0.081		31.8	
Head	LTE Band 25	20	QPSK	A	09A98	1:1	-0.01	1905.00	26590	1.0	24.0	22.66	1	0	Left Thr	0	0.048	1.361	0.079	0.049		35.0	
Head	LTE Band 25	20	QPSK	A	09A98	1:1	0.11	1905.00	26590	1.0	23.0	21.60	50	0	Left Thr	0	0.041	1.360	0.059	0.037		35.2	
ANSI/IEEE C95.1-1992 - SAFETY LIMIT																							
Spatial Peak																	Head						
Uncontrolled Exposure/General Population																	1.6 W/kg (mW/g)						
																	averaged over 10 min						

Table 12-41 | Plot A24

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]	Exposure Ratio (1g SAR)	Plot #	Limit [dBm]	Overall Limit [dBm]
Head	LTE Band 25	20	QPSK	F	0760M	1:1	-0.03	1882.50	26365	0.0	17.5	17.43	1	99	Right Cheek	0	0.616	1.016	0.626	0.391		19.5	
Head	LTE Band 25	20	QPSK	F	0760M	1:1	0.00	1882.50	26365	0.0	17.5	17.40	50	0	Right Cheek	0	0.660	1.023	0.675	0.422		19.2	
Head	LTE Band 25	20	QPSK	F	0760M	1:1	0.02	1860.00	26140	0.0	17.5	17.33	1	0	Right Tilt	0	0.652	1.040	0.686	0.554		18.0	
Head	LTE Band 25	20	QPSK	F	0760M	1:1	0.00	1882.50	26365	0.0	17.5	17.43	1	99	Right Tilt	0	0.640	1.016	0.653	0.333		18.1	
Head	LTE Band 25	20	QPSK	F	0760M	1:1	0.03	1905.00	26590	0.0	17.5	17.32	1	99	Right Tilt	0	0.768	1.042	0.800	0.500		18.4	
Head	LTE Band 25	20	QPSK	F	0760M	1:1	0.03	1860.00	26140	0.0	17.5	17.36	50	0	Right Tilt	0	0.657	1.033	0.685	0.553	Plot	18.0	
Head	LTE Band 25	20	QPSK	F	0760M	1:1	0.06	1882.50	26365	0.0	17.5	17.40	50	0	Right Tilt	0	0.643	1.023	0.662	0.539		18.1	
Head	LTE Band 25	20	QPSK	F	0760M	1:1	0.02	1905.00	26590	0.0	17.5	17.36	50	50	Right Tilt	0	0.656	1.033	0.684	0.553		18.0	
Head	LTE Band 25	20	QPSK	F	0760M	1:1	0.03	1882.50	26365	0.0	17.5	17.39	100	0	Right Tilt	0	0.646	1.026	0.668	0.543		18.1	
Head	LTE Band 25	20	QPSK	F	0760M	1:1	0.01	1882.50	26365	0.0	17.5	17.43	1	99	Left Cheek	0	0.385	1.016	0.391	0.244		21.5	
Head	LTE Band 25	20	QPSK	F	0760M	1:1	-0.03	1882.50	26365	0.0	17.5	17.40	50	0	Left Cheek	0	0.382	1.023	0.391	0.244		21.5	
Head	LTE Band 25	20	QPSK	F	0760M	1:1	0.01	1882.50	26365	0.0	17.5	17.43	1	99	Left Tilt	0	0.490	1.016	0.498	0.311		20.5	
Head	LTE Band 25	20	QPSK	F	0760M	1:1	-0.01	1882.50	26365	0.0	17.5	17.40	50	0	Left Tilt	0	0.477	1.023	0.488	0.305		20.6	
ANS/IEEE C63.1 1992 - SAFETY LIMIT																	Head						
Spatial Peak																	1.6 W/kg (mW/g)						
Uncontrolled Exposure/General Population																	averaged over 1 gram						

Table 12-42 | Plot A25, A26

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]	Exposure Ratio (1g SAR)	Plot #	Limit [dBm]	Overall Limit [dBm]
Body-worn/Hotspot	LTE Band 25	20	QPSK	A	0760M	1:1	-0.01	1860.00	26140	0.0	18.0	17.18	1	99	Back	5	0.685	1.208	0.627	0.517		18.8	
Body-worn/Hotspot	LTE Band 25	20	QPSK	A	0760M	1:1	0.00	1882.50	26365	0.0	18.0	17.27	1	99	Back	5	0.727	1.183	0.660	0.538		18.6	
Body-worn/Hotspot	LTE Band 25	20	QPSK	A	0760M	1:1	-0.02	1905.00	26590	0.0	18.0	17.32	1	0	Back	5	0.744	1.169	0.670	0.544		18.6	
Body-worn/Hotspot	LTE Band 25	20	QPSK	A	0760M	1:1	0.00	1860.00	26140	0.0	18.0	17.18	50	50	Back	5	0.673	1.206	0.613	0.509		18.8	
Body-worn/Hotspot	LTE Band 25	20	QPSK	A	0760M	1:1	-0.01	1882.50	26365	0.0	18.0	17.30	50	50	Back	5	0.738	1.175	0.687	0.542		18.6	
Body-worn/Hotspot	LTE Band 25	20	QPSK	A	0760M	1:1	0.00	1905.00	26590	0.0	18.0	17.33	50	0	Back	5	0.756	1.167	0.682	0.551		18.5	
Body-worn/Hotspot	LTE Band 25	20	QPSK	A	0760M	1:1	0.00	1905.00	26590	0.0	18.0	17.31	100	0	Back	5	0.746	1.172	0.686	0.554	Plot	18.5	
Hotspot	LTE Band 25	20	QPSK	A	0760M	1:1	-0.01	1860.00	26140	0.0	18.0	17.18	1	99	Front	5	0.733	1.208	0.685	0.553		18.5	
Hotspot	LTE Band 25	20	QPSK	A	0760M	1:1	-0.01	1882.50	26365	0.0	18.0	17.27	1	99	Front	5	0.743	1.183	0.679	0.549		18.5	
Hotspot	LTE Band 25	20	QPSK	A	0760M	1:1	-0.01	1905.00	26590	0.0	18.0	17.32	1	0	Front	5	0.761	1.169	0.680	0.561		18.2	
Hotspot	LTE Band 25	20	QPSK	A	0760M	1:1	-0.01	1860.00	26140	0.0	18.0	17.18	50	50	Front	5	0.721	1.208	0.673	0.544		18.6	
Hotspot	LTE Band 25	20	QPSK	A	0760M	1:1	0.00	1882.50	26365	0.0	18.0	17.30	50	50	Front	5	0.797	1.175	0.636	0.585		18.2	
Hotspot	LTE Band 25	20	QPSK	A	0760M	1:1	-0.01	1905.00	26590	0.0	18.0	17.33	50	0	Front	5	0.813	1.167	0.649	0.593		18.2	
Hotspot	LTE Band 25	20	QPSK	A	0760M	1:1	0.00	1905.00	26590	0.0	18.0	17.31	100	0	Front	5	0.823	1.172	0.665	0.603	Plot	18.1	
Hotspot	LTE Band 25	20	QPSK	A	0760M	1:1	-0.03	1905.00	26590	0.0	18.0	17.32	1	0	Bottom	10	0.679	1.169	0.794	0.496		19.0	
Hotspot	LTE Band 25	20	QPSK	A	0760M	1:1	0.00	1905.00	26590	0.0	18.0	17.33	50	0	Bottom	10	0.685	1.167	0.799	0.499		18.9	
Hotspot	LTE Band 25	20	QPSK	A	0760M	1:1	-0.02	1905.00	26590	0.0	18.0	17.32	1	0	Right	10	0.664	1.169	0.675	0.347		19.2	
Hotspot	LTE Band 25	20	QPSK	A	0760M	1:1	0.00	1905.00	26590	0.0	18.0	17.33	50	0	Right	10	0.665	1.167	0.676	0.348		19.2	
Hotspot	LTE Band 25	20	QPSK	A	0760M	1:1	-0.19	1905.00	26590	0.0	18.0	17.32	1	0	Left	10	0.677	1.169	0.652	0.320		19.0	
Hotspot	LTE Band 25	20	QPSK	A	0760M	1:1	0.04	1905.00	26590	0.0	18.0	17.33	50	0	Left	10	0.629	1.167	0.634	0.321		19.7	
ANS/IEEE C63.1 1992 - SAFETY LIMIT																	Body						
Uncontrolled Exposure/General Population																	1.6 W/kg (mW/g) averaged over 1 gram						

Table 12-43

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]	Exposure Ratio (1g SAR)	Plot #	Limit [dBm]	Overall Limit [dBm]
Body-worn/Hotspot	LTE Band 25	20	QPSK	F	0760M	1:1	-0.01	1905.00	26590	0.0	21.0	19.66	1	99	Back	5	0.491	1.361	0.668	0.418		22.7	
Body-worn/Hotspot	LTE Band 25	20	QPSK	F	0760M	1:1	0.00	1905.00	26590	0.0	21.0	19.67	50	25	Back	5	0.498	1.422	0.708	0.443		22.4	
Hotspot	LTE Band 25	20	QPSK	F	0760M	1:1	-0.01	1905.00	26590	0.0	21.0	19.66	1	99	Front	5	0.495	1.361	0.636	0.328		23.6	
Hotspot	LTE Band 25	20	QPSK	F	0760M	1:1	-0.01	1905.00	26590	0.0	21.0	19.67	50	25	Front	5	0.496	1.422	0.677	0.351		23.3	
Hotspot	LTE Band 25	20	QPSK	F	0760M	1:1	0.00	1905.00	26590	0.0	21.0	19.66	1	99	Top	10	0.431	1.361	0.587	0.367		23.3	
Hotspot	LTE Band 25	20	QPSK	F	0760M	1:1	-0.01	1905.00	26590	0.0	21.0	19.67	50	25	Top	10	0.451	1.422	0.643	0.405		23.9	
Hotspot	LTE Band 25	20	QPSK	F	0760M	1:1	0.00	1905.00	26590	0.0	21.0	19.66	1	99	Left	10	0.101	1.361	0.137	0.086		29.6	
Hotspot	LTE Band 25	20	QPSK	F	0760M	1:1	-0.13	1905.00	26590	0.0	21.0	19.67	50	25	Left	10	0.100	1.422	0.142	0.089		29.4	
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 12-44

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 10g SAR [W/kg]	Power Scaling Factor	Reported 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #	Limit [dBm]	Overall Limit [dBm]
Phablet	LTE Band 25	20	QPSK	A	3008M	1:1	0.01	1905.00	26590	0.0	18.0	17.32	1	0	Bottom	0 mm	0.149	1.169	0.642	0.161		23.9	
Phablet	LTE Band 25	20	QPSK	A	3008M	1:1	-0.01	1905.00	26590	0.0	18.0	17.33	50	0	Bottom	0 mm	0.150	1.167	0.643	0.161		23.9	23.9
ANSI/IEEE C63.1 1992 - SAFETY LIMIT Spatial Peak																	Phablet 4.0 W/kg (mW/g) averaged over 10 grams						
Uncontrolled Exposure/General Population																							

Table 12-45 | Plot A27

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 10g SAR [W/kg]	Power Scaling Factor	Reported 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #	Limit [dBm]	Overall Limit [dBm]
Phablet	LTE Band 25	20	QPSK	F	3008M	1:1	-0.06	1860.00	26140	0.0	21.0	19.45	1	99	Top	0	1.750	1.429	2.501	0.625		20.9	
Phablet	LTE Band 25	20	QPSK	F	3008M	1:1	-0.02	1882.50	26365	0.0	21.0	19.40	1	99	Top	0	1.900	1.445	2.746	0.687	Plot	20.5	
Phablet	LTE Band 25	20	QPSK	F	3008M	1:1	-0.07	1905.00	26590	0.0	21.0	19.66	1	99	Top	0	1.640	1.361	2.232	0.558		21.4	
Phablet	LTE Band 25	20	QPSK	F	3008M	1:1	-0.04	1860.00	26140	0.0	21.0	19.33	50	50	Top	0	1.840	1.469	2.703	0.676		20.6	
Phablet	LTE Band 25	20	QPSK	F	3008M	1:1	-0.02	1882.50	26365	0.0	21.0	19.36	50	25	Top	0	1.760	1.459	2.568	0.642		20.8	
Phablet	LTE Band 25	20	QPSK	F	3008M	1:1	-0.06	1905.00	26590	0.0	21.0	19.65	50	25	Top	0	1.780	1.429	2.533	0.635		20.9	
Phablet	LTE Band 25	20	QPSK	F	3008M	1:1	-0.00	1905.00	26590	0.0	21.0	19.46	100	0	Top	0	1.780	1.456	2.538	0.635		20.9	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																	Phablet						
Spatial Peak																	4.0 W/kg (mW/g)						
Uncontrolled Exposure (General Population)																	averaged over 10 grams						

12.12 LTE Band 41 Standalone SAR

Table 12-46

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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Head	LTE Band 41	20	QPSK	B	0940M	1:1.58	0.03	2549.50	40185	0.0	25.0	24.03	1	0	Right Cheek	0	0.052	1.253	0.065	0.041		34.8	
Head	LTE Band 41	20	QPSK	B	0940M	1:1.58	0.08	2549.50	40185	1.0	24.0	23.11	50	0	Right Cheek	0	0.043	1.227	0.053	0.033		34.7	
Head	LTE Band 41	20	QPSK	B	0940M	1:1.58	-0.06	2549.50	40185	0.0	25.0	24.02	1	0	Right Tilt	0	0.039	1.253	0.049	0.021		36.1	
Head	LTE Band 41	20	QPSK	B	0940M	1:1.58	0.17	2549.50	40185	1.0	24.0	23.11	50	0	Right Tilt	0	0.031	1.227	0.038	0.024		36.2	
Head	LTE Band 41	20	QPSK	B	0940M	1:1.58	-0.12	2549.50	40185	0.0	25.0	24.02	1	0	Left Cheek	0	0.123	1.253	0.152	0.095		31.2	
Head	LTE Band 41	20	QPSK	B	0940M	1:2.31	-0.08	2549.50	40185	0.0	26.0	25.11	1	0	Left Cheek	0	0.109	1.227	0.134	0.084		31.1	
Head	LTE Band 41	20	QPSK	B	0940M	1:1.58	-0.01	2549.50	40185	1.0	24.0	23.11	50	0	Left Cheek	0	0.090	1.227	0.117	0.073		31.3	
Head	LTE Band 41	20	QPSK	B	0940M	1:1.58	0.05	2549.50	40185	0.0	25.0	24.02	1	0	Left Tilt	0	0.039	1.253	0.049	0.031		36.1	
Head	LTE Band 41	20	QPSK	B	0940M	1:1.58	0.06	2549.50	40185	1.0	24.0	23.11	50	0	Left Tilt	0	0.027	1.227	0.033	0.021		36.8	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Head 1.6 W/kg (mW/g) averaged over 1 gram						

Note: Green entry represents HPUE measurement

Table 12-47 | Plot A28

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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Head	LTE Band 41	20	QPSK	F	0940M	1:1.58	0.04	2549.50	40185	0.0	16.0	15.10	1	0	Right Cheek	0	0.237	1.230	0.292	0.183		19.3	
Head	LTE Band 41	20	QPSK	F	0940M	1:1.58	-0.01	2549.50	40185	0.0	16.0	15.16	50	0	Right Cheek	0	0.238	1.213	0.286	0.179		19.4	
Head	LTE Band 41	20	QPSK	F	0940M	1:1.58	-0.02	2549.50	40185	0.0	16.0	15.10	1	0	Right Tilt	0	0.294	1.230	0.362	0.226		18.4	
Head	LTE Band 41	20	QPSK	F	0940M	1:2.31	-0.07	2549.50	40185	0.0	17.6	16.49	1	0	Right Tilt	0	0.303	1.291	0.391	0.244	Plot	18.0	
Head	LTE Band 41	20	QPSK	F	0940M	1:1.58	-0.02	2549.50	40185	0.0	16.0	15.16	50	0	Right Tilt	0	0.289	1.213	0.351	0.219		18.5	
Head	LTE Band 41	20	QPSK	F	0940M	1:1.58	-0.07	2549.50	40185	0.0	16.0	15.10	1	0	Left Cheek	0	0.135	1.230	0.164	0.103		21.8	
Head	LTE Band 41	20	QPSK	F	0940M	1:1.58	-0.07	2549.50	40185	0.0	16.0	15.16	50	0	Left Cheek	0	0.136	1.213	0.164	0.103		21.8	
Head	LTE Band 41	20	QPSK	F	0940M	1:1.58	0.17	2549.50	40185	0.0	16.0	15.10	1	0	Left Tilt	0	0.123	1.230	0.151	0.094		22.2	
Head	LTE Band 41	20	QPSK	F	0940M	1:1.58	0.08	2549.50	40185	0.0	16.0	15.16	50	0	Left Tilt	0	0.122	1.213	0.148	0.093		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						

Note: Green entry represents HPUE measurement

Table 12-48 | Plot A29

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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body-worn/Hotspot	LTE Band 41	20	QPSK	B	0940M	1:1.58	0.02	2506.00	39750	0.0	20.5	19.57	1	99	Back	5	0.519	1.229	0.643	0.402		20.4	
Body-worn/Hotspot	LTE Band 41	20	QPSK	B	0940M	1:1.58	-0.04	2549.50	40185	0.0	20.5	19.84	1	0	Back	5	0.529	1.164	0.616	0.385		20.6	
Body-worn/Hotspot	LTE Band 41	20	QPSK	B	0940M	1:1.58	-0.03	2593.00	40620	0.0	20.5	19.50	1	0	Back	5	0.606	1.259	0.763	0.477		19.6	
Body-worn/Hotspot	LTE Band 41	20	QPSK	B	0940M	1:2.31	-0.02	2593.00	40620	0.0	22.1	21.20	1	0	Back	5	0.639	1.230	0.786	0.493	Plot	19.5	
Body-worn/Hotspot	LTE Band 41	20	QPSK	B	0940M	1:1.58	-0.01	2636.50	41055	0.0	20.5	19.18	1	99	Back	5	0.564	1.324	0.717	0.457		19.7	
Body-worn/Hotspot	LTE Band 41	20	QPSK	B	0940M	1:1.58	0.00	2680.00	41490	0.0	20.5	19.27	1	99	Back	5	0.543	1.327	0.721	0.451		19.9	
Body-worn/Hotspot	LTE Band 41	20	QPSK	B	0940M	1:1.58	-0.02	2506.00	39750	0.0	20.5	19.74	50	0	Back	5	0.531	1.191	0.612	0.395		20.5	
Body-worn/Hotspot	LTE Band 41	20	QPSK	B	0940M	1:1.58	-0.03	2549.50	40185	0.0	20.5	19.86	50	0	Back	5	0.543	1.159	0.629	0.393		20.5	
Body-worn/Hotspot	LTE Band 41	20	QPSK	B	0940M	1:1.58	-0.01	2596.00	40600	0.0	20.5	19.65	50	0	Back	5	0.625	1.216	0.760	0.475		19.7	
Body-worn/Hotspot	LTE Band 41	20	QPSK	B	0940M	1:1.58	0.01	2636.50	41055	0.0	20.5	19.43	50	50	Back	5	0.595	1.279	0.761	0.476		19.7	
Body-worn/Hotspot	LTE Band 41	20	QPSK	B	0940M	1:1.58	0.01	2680.00	41490	0.0	20.5	19.42	50	50	Back	5	0.564	1.282	0.723	0.452		19.9	
Hotspot	LTE Band 41	20	QPSK	B	0940M	1:1.58	0.02	2549.50	40185	0.0	20.5	19.84	1	0	Front	5	0.354	1.164	0.400	0.250		22.4	
Hotspot	LTE Band 41	20	QPSK	B	0940M	1:1.58	-0.03	2549.50	40185	0.0	20.5	19.86	50	0	Front	5	0.359	1.159	0.435	0.255		22.3	
Hotspot	LTE Band 41	20	QPSK	B	0940M	1:1.58	-0.03	2549.50	40185	0.0	20.5	19.84	1	0	Bottom	10	0.158	1.164	0.184	0.115		25.8	
Hotspot	LTE Band 41	20	QPSK	B	0940M	1:1.58	-0.07	2549.50	40185	0.0	20.5	19.86	50	0	Bottom	10	0.166	1.159	0.191	0.119		25.7	
Hotspot	LTE Band 41	20	QPSK	B	0940M	1:1.58	-0.02	2549.50	40185	0.0	20.5	19.84	1	0	Left	10	0.176	1.164	0.207	0.129		25.3	
Hotspot	LTE Band 41	20	QPSK	B	0940M	1:1.58	0.02	2549.50	40185	0.0	20.5	19.86	50	0	Left	10	0.190	1.159	0.220	0.138		25.0	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Body 1.6 W/kg (mW/g) averaged over 1 gram						

Note: Green entry represents HPUE measurement

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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body-worn/Hotspot	LTE Band 41	20	QPSK	F	0940M	1:1.58	-0.12	2506.00	39750	0.0	17.5	16.96	1	0	Back	5	0.192	1.132	0.217	0.136		22.1	
Body-worn/Hotspot	LTE Band 41	20	QPSK	F	0940M	1:1.58	-0.08	2506.00	39750	0.0	17.5	16.65	50	25	Back	5	0.194	1.216	0.236	0.148	21.7		
Body-worn/Hotspot	LTE Band 41	20	QPSK	F	0940M	1:2.31	0.00	2506.00	39750	0.0	19.1	19.05	50	25	Back	5	0.246	1.012	0.249	0.156	21.5		
Hotspot	LTE Band 41	20	QPSK	F	0940M	1:1.58	0.01	2506.00	39750	0.0	17.5	16.96	1	0	Front	5	0.119	1.132	0.135	0.084	24.2		
Hotspot	LTE Band 41	20	QPSK	F	0940M	1:1.58	-0.02	2506.00	39750	0.0	17.5	16.65	50	25	Front	5	0.118	1.216	0.143	0.089	23.9		
Hotspot	LTE Band 41	20	QPSK	F	0940M	1:1.58	-0.01	2506.00	39750	0.0	17.5	16.96	1	0	Top	10	0.116	1.132	0.131	0.082	24.3		
Hotspot	LTE Band 41	20	QPSK	F	0940M	1:1.58	0.04	2506.00	39750	0.0	17.5	16.65	50	25	Top	10	0.097	1.216	0.118	0.074	24.7		
Hotspot	LTE Band 41	20	QPSK	F	0940M	1:1.58	-0.02	2506.00	39750	0.0	17.5	16.96	1	0	Left	10	0.012	1.132	0.014	0.009	34.1		
Hotspot	LTE Band 41	20	QPSK	F	0940M	1:1.58	0.03	2506.00	39750	0.0	17.5	16.65	50	25	Left	10	0.009	1.216	0.011	0.007	35.1		
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Body 1.6 W/kg (mW/g) averaged over 1 gram						

Note: Green entry represents HPUE measurement

12.13 NR Band n12 Standalone SAR

Table 12-50

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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Head	NR Band n12	15	QPSK	A	0739M	1:1	-0.01	707.50	141500	QFT+CPDM	0.0	25.0	24.06	1	1	Right Cheek	0	0.118	1.242	0.119	0.099		32.0	
Head	NR Band n12	15	QPSK	A	0739M	1:1	-0.10	707.50	141500	QFT+CPDM	0.0	25.0	24.05	36	22	Right Cheek	0	0.116	1.256	0.116	0.091		33.1	
Head	NR Band n12	15	QPSK	A	0739M	1:1	0.21	707.50	141500	CPDM	1.5	23.5	22.40	1	1	Right Cheek	0	0.090	1.274	0.115	0.072		32.9	
Head	NR Band n12	15	QPSK	A	0739M	1:1	0.04	707.50	141500	QFT+CPDM	0.0	25.0	24.98	1	1	Right Thigh	0	0.071	1.143	0.071	0.044		36.5	
Head	NR Band n12	15	QPSK	A	0739M	1:1	0.06	707.50	141500	QFT+CPDM	0.0	25.0	24.01	36	22	Right Thigh	0	0.066	1.156	0.070	0.044		36.5	32.9
Head	NR Band n12	15	QPSK	A	0739M	1:1	0.08	707.50	141500	CPDM	0.0	25.0	24.06	1	1	Left Cheek	0	0.108	1.242	0.119	0.081		33.1	
Head	NR Band n12	15	QPSK	A	0739M	1:1	0.04	707.50	141500	QFT+CPDM	0.0	25.0	24.98	36	22	Left Cheek	0	0.106	1.256	0.118	0.071		33.1	
Head	NR Band n12	15	QPSK	A	0739M	1:1	0.02	707.50	141500	QFT+CPDM	0.0	25.0	24.06	1	1	Left Thigh	0	0.081	1.242	0.063	0.039		36.6	
Head	NR Band n12	15	QPSK	A	0739M	1:1	0.08	707.50	141500	CPDM	0.0	25.0	24.01	36	22	Left Thigh	0	0.080	1.156	0.080	0.043		36.6	
ANIS/IEEE C95.1 1992 - SAFETY LIMIT																		Head						
Spatial Peak																		1.6 W/kg (mW/g)						
Uncontrolled Exposure General Population																		35 mW/kg (mW/g)						

Table 12-51 | Plot A30

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Text Position	Spacing [mm]	Measured E1 SAR [W/kg]	Power Scaling Factor	Reported E1 SAR [W/kg]	Exposure Rate [g SAR]	Plot #	PLimit [dBm]	Overall PLimit [dBm]
Head	NB Band n12	15	QPSK	E	2933M	1:1	-0.03	707.50	141500	QF-Tx-OFDM	0.0	20.0	18.86	1	77	Right Cheek	0	0.355	1.300	0.462	0.289	23.3		
Head	NB Band n12	15	QPSK	E	2933M	1:1	-0.03	707.50	141500	QF-Tx-OFDM	0.0	20.0	18.83	16	0	Left Cheek	0	0.343	1.309	0.449	0.281	23.4		
Head	NB Band n12	15	QPSK	E	2933M	1:1	-0.03	707.50	141500	QF-Tx-OFDM	0.0	20.0	18.86	1	77	Right Tibia	0	0.355	1.300	0.462	0.289	23.3		
Head	NB Band n12	15	QPSK	E	02121M	1:1	-0.03	707.50	141500	QF-Tx-OFDM	0.0	20.0	18.83	16	0	Right Tibia	0	0.343	1.309	0.568	0.355	22.6		
Head	NB Band n12	15	QPSK	E	02121M	1:1	-0.06	707.50	141500	QF-Tx-OFDM	0.0	20.0	18.86	1	77	Left Cheek	0	0.475	1.300	0.638	0.386	23.0		
Head	NB Band n12	15	QPSK	E	2933M	1:1	-0.03	707.50	141500	QF-Tx-OFDM	0.0	20.0	18.83	16	0	Left Tibia	0	0.530	1.309	0.683	0.426	21.6		
Head	NB Band n12	15	QPSK	E	02121M	1:1	-0.20	707.50	141500	QF-Tx-OFDM	0.0	20.0	18.86	1	77	Left Tibia	0	0.958	1.300	0.775	0.472	21.1		
Head	NB Band n12	15	QPSK	E	02121M	1:1	-1.12	707.50	141500	QF-Tx-OFDM	0.0	20.0	18.83	16	0	Right Tibia	0	0.621	1.309	0.823	0.520	20.8		
Head	NB Band n12	15	QPSK	E	02121M	1:1	-0.17	707.50	141500	QF-Tx-OFDM	0.0	20.0	18.83	75	0	Left Tibia	0	0.664	1.315	0.847	0.529	20.7		
Head	NB Band n12	15	QPSK	E	0214M	1:1	-1.14	707.50	141500	CP-OFDM	0.0	20.0	19.09	1	1	Left Tibia	0	0.673	1.259	0.847	0.529	20.7		
ANSI/IEEE C63.19-2 SAFETY LIMIT																						Special Peak		
Uncontrolled Exposure: General Population																						1.6 Head (W/kg) averaged over 6 gram		

Table 12-52

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 E1 SAR [W/kg]	Power Scaling Factor	Reported E1 SAR [W/kg]	Exposure Rate [μg SAR]	Plot #	PLimit [dBm]	Overall PLimit [dBm]
Body-worn/Hotspot	NR Band n12	15	QPSK	A	0738M	1:1	-0.06	707.50	141500	DFT-F-OFDM	0.0	25.0	24.06	1	1	Back	5	0.776	1.242	0.964	0.603		25.1	
Body-worn/Hotspot	NR Band n12	15	QPSK	A	0738M	1:1	0.07	707.50	141500	DFT-F-OFDM	0.0	25.0	24.03	36	22	Back	5	0.791	1.246	0.993	0.621		25.0	
Body-worn/Hotspot	NR Band n12	15	QPSK	A	0738M	1:1	-0.03	707.50	141500	DFT-F-OFDM	1.0	24.0	22.96	75	0	Back	5	0.629	1.224	0.801	0.301		24.9	
Body-worn/Hotspot	NR Band n12	15	QPSK	A	0738M	1:1	0.08	707.50	141500	CP-OFDM	1.5	23.5	21.85	1	1	Back	5	0.862	1.274	0.905	0.432		25.1	
Hotspot	NR Band n12	15	QPSK	A	0738M	1:1	-0.03	707.50	141500	DFT-F-OFDM	0.0	25.0	24.06	1	1	Front	5	0.366	1.242	0.455	0.284		24.8	
Hotspot	NR Band n12	15	QPSK	A	0738M	1:1	0.06	707.50	141500	DFT-F-OFDM	0.0	25.0	24.06	1	1	Front	5	0.366	1.242	0.455	0.284		24.8	
Hotspot	NR Band n12	15	QPSK	A	0738M	1:1	-0.06	707.50	141500	DFT-F-OFDM	0.0	25.0	24.06	1	1	Bottom	10	0.130	1.242	0.161	0.101		32.0	
Hotspot	NR Band n12	15	QPSK	A	0738M	1:1	-0.09	707.50	141500	DFT-F-OFDM	0.0	25.0	24.06	1	1	Bottom	10	0.137	1.246	0.169	0.100		32.0	
Hotspot	NR Band n12	15	QPSK	A	0738M	1:1	0.03	707.50	141500	DFT-F-OFDM	0.0	25.0	24.06	36	22	Bottom	10	0.138	1.242	0.173	0.108		32.0	
Hotspot	NR Band n12	15	QPSK	A	0738M	1:1	-0.04	707.50	141500	DFT-F-OFDM	0.0	25.0	24.03	36	22	Right	10	0.148	1.256	0.188	0.116		32.0	
Hotspot	NR Band n12	15	QPSK	A	0738M	1:1	0.04	707.50	141500	DFT-F-OFDM	0.0	25.0	24.06	1	1	Left	10	0.087	1.242	0.108	0.088		32.6	
Hotspot	NR Band n12	15	QPSK	A	0738M	1:1	0.03	707.50	141500	DFT-F-OFDM	0.0	25.0	24.03	36	22	Left	10	0.097	1.256	0.122	0.076		36.1	
ANSI/IEEE C63.1982 - SAFETY LIMIT																								
Spatial Peak																								
Uncontrolled Exposure/General Population																								
																							1.6 W/kg (body averaged over 1 gram)	

Table 12-53 | Plot A31

[illegible]

12.14 NR Band n26 Standalone SAR

Table 12-54

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 L1c [W/kg]	Power Scaling Factor	Reported L1c SAE [W/kg]	Exposure Ratio [W/kg]	Pilot #	Pilot (dBm)	Overall Pilot (dBm)
Head	NR Band n26	20	QPSK	A	0749M	1-1	-0.04	831.50	166300	DFT-s-OFDM	0.0	25.5	24.05	1	104	Right Cheek	0	0.121	1.409	0.120	0.106	32.1		
Head	NR Band n26	20	QPSK	A	0749M	1-1	0.05	831.50	166300	DFT-s-OFDM	0.0	25.5	23.96	50	28	Right Cheek	0	0.131	1.426	0.137	0.117	32.7		
Head	NR Band n26	20	QPSK	A	0749M	1-1	-0.11	831.50	166300	C-POFDM	1.5	24.0	22.87	1	1	Right Cheek	0	0.088	1.560	0.153	0.098	32.1		
Head	NR Band n26	20	QPSK	A	0739M	1-1	0.02	831.50	166300	DFT-s-OFDM	0.0	25.5	24.03	1	104	Right Tib	0	0.068	1.409	0.066	0.060	35.6		
Head	NR Band n26	20	QPSK	A	0739M	1-1	-0.05	831.50	166300	DFT-s-OFDM	0.0	25.5	23.96	50	28	Right Tib	0	0.076	1.426	0.088	0.068	35.1		32.1
Head	NR Band n26	20	QPSK	A	0739M	1-1	0.06	831.50	166300	DFT-s-OFDM	0.0	25.5	24.03	1	104	Left Cheek	0	0.097	1.409	0.117	0.086	34.1		
Head	NR Band n26	20	QPSK	A	0739M	1-1	-0.03	831.50	166300	DFT-s-OFDM	0.0	25.5	23.96	50	28	Left Cheek	0	0.076	1.426	0.100	0.077	33.7		
Head	NR Band n26	20	QPSK	A	0739M	1-1	0.07	831.50	166300	DFT-s-OFDM	0.0	25.5	24.03	1	104	Left Tib	0	0.072	1.409	0.103	0.063	35.4		
Head	NR Band n26	20	QPSK	A	0739M	1-1	-0.04	831.50	166300	DFT-s-OFDM	0.0	25.5	23.96	50	28	Left Tib	0	0.076	1.426	0.121	0.076	34.6		
ANSI/IEEE C95.1992 - SAFETY LIMIT Spatial Peak Unmodulated Exposure/General Population																							Head 1.6 W/kg (mW/g) non-averaging 6 min	

Table 12-55 | Plot A32

[illegible]

FCC ID: A3LSMS947B	RF EXPOSURE PART 1 TEST REPORT	Approved by: Technical Manager
Document S/N: 1M2508270083-01.A3L (Rev 1)	DUT Type: Portable Handset	Page 115 of 147

Table 12-56 | Plot A33

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]	Exposure Ratio (1g SAR)	Plot #	Limit [dBm]	Overall Limit [dBm]
Body worn/Hotspot	NR Band n26	20	QPSK	A	0739M	1:1	-0.03	831.50	166300	DFT-s-OFDM	0.0	25.5	24.01	1	104	Back	5	0.717	1.409	1.050	0.631		25.4	
Body worn/Hotspot	NR Band n26	20	QPSK	A	0739M	1:1	0.09	831.50	166300	DFT-s-OFDM	0.0	25.5	23.96	50	28	Back	5	0.733	1.426	1.046	0.633	Plot	25.3	
Body worn/Hotspot	NR Band n26	20	QPSK	A	0739M	1:1	0.00	831.50	166300	DFT-s-OFDM	1.0	24.5	22.96	280	0	Back	5	0.726	1.409	0.940	0.632		25.2	
Body worn/Hotspot	NR Band n26	20	QPSK	A	0739M	1:1	-0.04	831.50	166300	CP-OFDM	1.5	24.0	22.07	1	5	Back	5	0.496	1.560	0.777	0.486		25.0	
Hotspot	NR Band n26	20	QPSK	A	0739M	1:1	-0.04	831.50	166300	DFT-s-OFDM	0.0	25.5	24.01	1	104	Front	5	0.363	1.409	0.511	0.319		28.4	
Hotspot	NR Band n26	20	QPSK	A	0739M	1:1	-0.07	831.50	166300	DFT-s-OFDM	0.0	25.5	23.96	50	28	Front	5	0.320	1.426	0.528	0.320		28.2	
Hotspot	NR Band n26	20	QPSK	A	0739M	1:1	0.06	831.50	166300	DFT-s-OFDM	0.0	25.5	24.01	1	104	Bottom	10	0.079	1.409	0.111	0.069		35.0	
Hotspot	NR Band n26	20	QPSK	A	0739M	1:1	-0.10	831.50	166300	DFT-s-OFDM	0.0	25.5	23.96	50	28	Bottom	10	0.077	1.426	0.110	0.069		35.0	
Hotspot	NR Band n26	20	QPSK	A	0739M	1:1	0.03	831.50	166300	DFT-s-OFDM	0.0	25.5	24.01	1	104	Right	10	0.122	1.409	0.172	0.106		33.1	
Hotspot	NR Band n26	20	QPSK	A	0739M	1:1	-0.02	831.50	166300	DFT-s-OFDM	0.0	25.5	23.96	50	28	Right	10	0.119	1.426	0.164	0.115		32.8	
Hotspot	NR Band n26	20	QPSK	A	0739M	1:1	-0.14	831.50	166300	DFT-s-OFDM	0.0	25.5	24.01	1	104	Left	10	0.085	1.409	0.120	0.075		34.7	
Hotspot	NR Band n26	20	QPSK	A	0739M	1:1	-0.07	831.50	166300	DFT-s-OFDM	0.0	25.5	23.96	50	28	Left	10	0.084	1.426	0.134	0.084		34.2	
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 12-57

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]	Exposure Ratio (1g SAR)	Plot #	Limit [dBm]	Overall Limit [dBm]
Body worn/Hotspot	NR Band n26	20	QPSK	E	3008M	1:1	-0.03	831.50	166300	DFT-s-OFDM	0.0	20.0	19.87	1	53	Back	5	0.665	1.079	0.718	0.449		21.4	
Body worn/Hotspot	NR Band n26	20	QPSK	E	3008M	1:1	-0.01	831.50	166300	DFT-s-OFDM	0.0	20.0	19.68	50	0	Back	5	0.681	1.076	0.735	0.459		21.3	
Body worn/Hotspot	NR Band n26	20	QPSK	E	3008M	1:1	-0.16	831.50	166300	CP-OFDM	0.0	20.0	19.70	1	1	Back	5	0.668	1.072	0.716	0.448		21.4	
Hotspot	NR Band n26	20	QPSK	E	3008M	1:1	-0.02	831.50	166300	DFT-s-OFDM	0.0	20.0	19.87	1	53	Front	5	0.664	1.077	0.501	0.312		23.0	
Hotspot	NR Band n26	20	QPSK	E	3008M	1:1	0.17	831.50	166300	DFT-s-OFDM	0.0	20.0	19.68	50	0	Front	5	0.665	1.076	0.500	0.313		23.0	
Hotspot	NR Band n26	20	QPSK	E	3008M	1:1	-0.13	831.50	166300	DFT-s-OFDM	0.0	20.0	19.87	1	53	Top	10	0.215	1.079	0.232	0.145		26.4	
Hotspot	NR Band n26	20	QPSK	E	3008M	1:1	-0.03	831.50	166300	DFT-s-OFDM	0.0	20.0	19.68	50	0	Top	10	0.214	1.076	0.230	0.144		26.3	
Hotspot	NR Band n26	20	QPSK	E	3008M	1:1	0.05	831.50	166300	DFT-s-OFDM	0.0	20.0	19.67	1	53	Right	10	0.176	1.079	0.190	0.119		27.2	
Hotspot	NR Band n26	20	QPSK	E	3008M	1:1	-0.07	831.50	166300	DFT-s-OFDM	0.0	20.0	19.68	50	0	Right	10	0.178	1.076	0.192	0.120		27.1	
ANSI/IEEE C63.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		Body 1.6 W/kg (mW/g) averaged over 1 gram						

12.15 NR Band n66 Standalone SAR

Table 12-58

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]	Exposure Ratio (1g SAR)	Plot #	Limit [dBm]	Overall Limit [dBm]
Head	NR Band n66	40	QPSK	A	0729M	1:1	0.03	1745.00	349000	DFT-s-OFDM	0.0	24.0	23.41	1	108	Right Cheek	0	0.082	1.146	0.094	0.059		34.2	
Head	NR Band n66	40	QPSK	A	0729M	1:1	-0.02	1745.00	349000	DFT-s-OFDM	0.0	24.0	23.33	108	54	Right Cheek	0	0.080	1.167	0.093	0.058		34.2	
Head	NR Band n66	40	QPSK	A	0729M	1:1	-0.13	1745.00	349000	DFT-s-OFDM	0.0	24.0	23.41	1	108	Right Tilt	0	0.051	1.146	0.058	0.036		36.2	
Head	NR Band n66	40	QPSK	A	0729M	1:1	0.03	1745.00	349000	DFT-s-OFDM	0.0	24.0	23.33	108	54	Right Tilt	0	0.041	1.167	0.050	0.031		36.5	
Head	NR Band n66	40	QPSK	A	0729M	1:1	0.08	1745.00	349000	DFT-s-OFDM	0.0	24.0	23.41	1	108	Left Cheek	0	0.215	1.146	0.246	0.100		30.0	
Head	NR Band n66	40	QPSK	A	0729M	1:1	-0.03	1745.00	349000	DFT-s-OFDM	0.0	24.0	23.33	108	54	Left Cheek	0	0.205	1.167	0.239	0.100		30.2	
Head	NR Band n66	40	QPSK	A	0729M	1:1	0.21	1745.00	349000	CP-OFDM	0.5	23.5	22.38	1	1	Left Cheek	0	0.190	1.294	0.194	0.121		30.6	
Head	NR Band n66	40	QPSK	A	0729M	1:1	0.08	1745.00	349000	DFT-s-OFDM	0.0	24.0	23.41	1	108	Left Tilt	0	0.134	1.146	0.154	0.096		32.1	
Head	NR Band n66	40	QPSK	A	0729M	1:1	-0.03	1745.00	349000	DFT-s-OFDM	0.0	24.0	23.33	108	54	Left Tilt	0	0.128	1.167	0.149	0.093		32.2	
ANSI/IEEE C63.1 1992 - SAFETY LIMIT																		Head						
Uncontrolled Exposure/General Population																		1.6 W/kg (mW/g) averaged over 1 gram						

Table 12-59 | Plot A34

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]	Exposure Ratio (1g SAR)	Plot #	Limit [dBm]	Overall Limit [dBm]
Head	NR Band n66	40	QPSK	F	2960M	1:1	-0.02	1745.00	349000	DFT-s-OFDM	0.0	17.0	15.98	1	108	Right Cheek	0	0.487	1.265	0.616	0.385		19.1	
Head	NR Band n66	40	QPSK	F	2960M	1:1	-0.03	1745.00	349000	DFT-s-OFDM	0.0	17.0	15.97	108	108	Right Cheek	0	0.499	1.268	0.633	0.396		18.9	
Head	NR Band n66	40	QPSK	F	2960M	1:1	0.00	1745.00	349000	DFT-s-OFDM	0.0	17.0	15.98	1	108	Right Tilt	0	0.618	1.265	0.832	0.520		17.7	
Head	NR Band n66	40	QPSK	F	2960M	1:1	0.00	1745.00	349000	DFT-s-OFDM	0.0	17.0	15.97	108	108	Right Tilt	0	0.676	1.268	0.857	0.536	Plot	17.6	
Head	NR Band n66	40	QPSK	F	2960M	1:1	0.00	1745.00	349000	DFT-s-OFDM	0.0	17.0	15.93	216	0	Right Tilt	0	0.670	1.279	0.857	0.536		17.6	
Head	NR Band n66	40	QPSK	F	2960M	1:1	0.03	1745.00	349000	CP-OFDM	0.0	17.0	15.72	1	1	Right Tilt	0	0.651	1.343	0.874	0.546		17.5	
Head	NR Band n66	40	QPSK	F	2960M	1:1	-0.13	1745.00	349000	DFT-s-OFDM	0.0	17.0	15.98	1	108	Left Cheek	0	0.398	1.265	0.390	0.244		21.0	
Head	NR Band n66	40	QPSK	F	2960M	1:1	0.03	1745.00	349000	DFT-s-OFDM	0.0	17.0	15.97	108	108	Left Cheek	0	0.411	1.268	0.394	0.246		21.0	
Head	NR Band n66	40	QPSK	F	2960M	1:1	0.01	1745.00	349000	DFT-s-OFDM	0.0	17.0	15.98	1	108	Left Tilt	0	0.417	1.265	0.528	0.340		19.7	
Head	NR Band n66	40	QPSK	F	2960M	1:1	-0.03	1745.00	349000	DFT-s-OFDM	0.0	17.0	15.97	108	108	Left Tilt	0	0.430	1.268	0.545	0.341		19.6	
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 12-60 | Plot A35

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]	Exposure Ratio (1g SAR)	Plot #	Limit [dBm]	Overall Limit [dBm]
Body worn/Hotspot	NR Band n66	40	QPSK	A	0729M	1:1	0.11	1745.00	349000	DFT-s-OFDM	0.0	19.5	18.28	1	214	Back	5	0.766	1.324	1.054	0.634		19.4	
Body worn/Hotspot	NR Band n66	40	QPSK	A	0729M	1:1	-0.03	1745.00	349000	DFT-s-OFDM	0.0	19.5	18.28	108	108	Back	5	0.720	1.324	1.019	0.617	Plot	19.4	
Body worn/Hotspot	NR Band n66	40	QPSK	A	0729M	1:1	-0.04	1745.00	349000	DFT-s-OFDM	0.0	19.5	18.10	216	0	Back	5	0.769	1.380	1.034	0.648		19.3	
Body worn/Hotspot	NR Band n66	40	QPSK	A	0729M	1:1	-0.06	1745.00	349000	CP-OFDM	0.0	19.5	18.16	1	1	Back	5	0.724	1.393	1.009	0.631		19.4	
Hotspot	NR Band n66	40	QPSK	A	0729M	1:1	0.00	1745.00	349000	DFT-s-OFDM	0.0	19.5	18.28	1	214	Front	5	0.625	1.324	0.894	0.515		19.1	
Hotspot	NR Band n66	40	QPSK	A	0729M	1:1	0.00	1745.00	349000	DFT-s-OFDM	0.0	19.5	18.28	108	108	Front	5	0.675	1.324	0.918	0.519		19.1	
Hotspot	NR Band n66	40	QPSK	A	0729M	1:1	-0.01	1745.00	349000	CP-OFDM	0.0	19.5	18.66	216	0	Front	5	0.666	1.380	0.913	0.514		19.1	
Hotspot	NR Band n66	40	QPSK	A	0729M	1:1	0.00	1745.00	349000	DFT-s-OFDM	0.0	19.5	18.28	1	214	Bottom	10	0.689	1.324	0.892	0.570		19.1	
Hotspot	NR Band n66	40	QPSK	A	0729M	1:1	0.01	1745.00	349000	DFT-s-OFDM	0.0	19.5	18.28	108	108	Bottom	10	0.716	1.324	0.948	0.591		19.2	
Hotspot	NR Band n66	40	QPSK	A	0729M	1:1	0.00	1745.00	349000	DFT-s-OFDM	0.0	19.5	18.28	216	0	Bottom	10	0.689	1.380	0.913	0.571	Plot	19.1	
Hotspot	NR Band n66	40	QPSK	A	0729M	1:1	0.07	1745.00	349000	DFT-s-OFDM	0.0	19.5	18.28	1	214	Right	10	0.652	1.324	0.842	0.626		19.3	
Hotspot	NR Band n66	40	QPSK	A	0729M	1:1	-0.08	1745.00	349000	DFT-s-OFDM	0.0	19.5	18.28	108	108	Right	10	0.655	1.324	0.846	0.620		19.2	
Hotspot	NR Band n66	40	QPSK	A	0729M	1:1	-0.15	1745.00	349000	CP-OFDM	0.0	19.5	18.28	1	214	Left	10	0.624	1.324	0.821	0.603		19.1	
Hotspot	NR Band n66	40	QPSK	A	0729M	1:1	-0.08	1745.00	349000	DFT-s-OFDM	0.0	19.5	18.28	108	108	Left	10	0.707	1.324	0.912	0.689		19.1	
ANRS/IEEE CS-1.1992 - SAFETY LIMIT																		Body						
Uncontrolled Exposure/General Population																		Special Peak						
																		1.6 W/kg (mW/g) averaged over 1 gram						

Table 12-61

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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body worn/Hotspot	NR Band n66	40	QPSK	F	0729M	1:1	-0.13	1745.00	349000	DFT-s-OFDM	0.0	21.0	20.04	1	214	Back	5	0.645	1.247	0.804	0.503		21.5	
Body worn/Hotspot	NR Band n66	40	QPSK	F	0729M	1:1	-0.03	1745.00	349000	DFT-s-OFDM	0.0	21.0	20.09	108	108	Back	5	0.658	1.233	0.811	0.507		21.5	
Body worn/Hotspot	NR Band n66	40	QPSK	F	0729M	1:1	0.06	1745.00	349000	DFT-s-OFDM	0.0	21.0	20.03	216	0	Back	5	0.638	1.250	0.798	0.499		21.5	
Hotspot	NR Band n66	40	QPSK	F	0729M	1:1	-0.10	1745.00	349000	DFT-s-OFDM	0.0	21.0	20.09	1	214	Front	5	0.668	1.247	0.833	0.521		21.7	
Hotspot	NR Band n66	40	QPSK	F	0729M	1:1	-0.05	1745.00	349000	DFT-s-OFDM	0.0	21.0	20.09	108	108	Front	5	0.659	1.233	0.813	0.508		21.5	
Hotspot	NR Band n66	40	QPSK	F	0729M	1:1	-0.07	1745.00	349000	DFT-s-OFDM	0.0	21.0	20.03	216	0	Front	5	0.633	1.250	0.791	0.494		21.5	
Hotspot	NR Band n66	40	QPSK	F	0729M	1:1	-0.20	1745.00	349000	CP-OFDM	0.0	21.0	19.98	1	1	Front	5	0.649	1.265	0.821	0.513		21.8	
Hotspot	NR Band n66	40	QPSK	F	0729M	1:1	-0.12	1745.00	349000	DFT-s-OFDM	0.0	21.0	20.04	1	214	Top	10	0.437	1.247	0.545	0.341		23.6	
Hotspot	NR Band n66	40	QPSK	F	0729M	1:1	-0.03	1745.00	349000	DFT-s-OFDM	0.0	21.0	20.09	108	108	Top	10	0.422	1.233	0.520	0.325		23.8	
Hotspot	NR Band n66	40	QPSK	F	0729M	1:1	-0.01	1745.00	349000	DFT-s-OFDM	0.0	21.0	20.04	1	214	Left	10	0.099	1.247	0.123	0.077		30.0	
Hotspot	NR Band n66	40	QPSK	F	0729M	1:1	-0.09	1745.00	349000	DFT-s-OFDM	0.0	21.0	20.09	108	108	Left	10	0.101	1.233	0.125	0.078		30.0	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																		Body		1.6 W/kg (mW/g)				
Spatial Peak																		Uncontrolled Exposure/General Population		averaged over 1 gram				

Table 12-62

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 10g SAR [W/kg]	Power Scaling Factor	Reported 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Phablet	NR Band n66	40	QPSK	A	3008M	1:1	0.03	1745.00	349000	DFT-s-OFDM	0.0	19.5	18.29	1	214	Bottom	0	0.836	1.324	1.133	0.283		22.9	
Phablet	NR Band n66	40	QPSK	A	3008M	1:1	0.00	1745.00	349000	DFT-s-OFDM	0.0	19.5	18.28	108	108	Bottom	0	0.865	1.324	0.880	0.220		24.0	
Phablet	NR Band n66	40	QPSK	A	3008M	1:1	0.01	1745.00	349000	CP-OFDM	0.0	19.5	18.06	1	1	Bottom	0	1.060	1.265	1.193	0.381		23.1	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																		Phablet		4.0 W/kg (mW/g)				
Spatial Peak																		Uncontrolled Exposure/General Population		averaged over 10 grams				

Table 12-63 | Plot A36

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 10g SAR [W/kg]	Power Scaling Factor	Reported 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Phablet	NR Band n66	40	QPSK	F	3008M	1:1	-0.04	1745.00	349000	DFT-s-OFDM	0.0	21.0	20.04	1	214	Top	0	1.670	1.247	2.082	0.521		21.7	
Phablet	NR Band n66	40	QPSK	F	3008M	1:1	0.00	1745.00	349000	DFT-s-OFDM	0.0	21.0	20.09	108	108	Top	0	1.720	1.233	2.121	0.530		Plot	
Phablet	NR Band n66	40	QPSK	F	3008M	1:1	0.00	1745.00	349000	DFT-s-OFDM	0.0	21.0	20.03	216	0	Top	0	1.700	1.250	2.125	0.531		21.7	
Phablet	NR Band n66	40	QPSK	F	3008M	1:1	-0.01	1745.00	349000	CP-OFDM	0.0	21.0	19.96	1	1	Top	0	1.680	1.265	2.125	0.531		21.7	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																		Phablet		4.0 W/kg (mW/g)				
Spatial Peak																		Uncontrolled Exposure/General Population		averaged over 10 grams				

12.16 NR Band n25 Standalone SAR

Table 12-64

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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Head	NR Band n25	40	QPSK	A	0729M	1:1	-0.17	1882.50	376500	DFT-s-OFDM	0.0	24.5	23.40	1	108	Right Cheek	0	0.097	1.274	0.124	0.078		33.5	
Head	NR Band n25	40	QPSK	A	0729M	1:1	-0.08	1882.50	376500	DFT-s-OFDM	0.0	24.5	23.40	108	54	Right Cheek	0	0.094	1.288	0.121	0.076		33.6	
Head	NR Band n25	40	QPSK	A	0729M	1:1	-0.04	1882.50	376500	DFT-s-OFDM	0.0	24.5	23.40	1	108	Right Tilt	0	0.067	1.274	0.085	0.053		35.1	
Head	NR Band n25	40	QPSK	A	0729M	1:1	-0.17	1882.50	376500	DFT-s-OFDM	0.0	24.5	23.40	108	54	Right Tilt	0	0.064	1.288	0.082	0.051		35.3	
Head	NR Band n25	40	QPSK	A	0729M	1:1	-0.06	1882.50	376500	DFT-s-OFDM	0.0	24.5	23.45	1	108	Left Cheek	0	0.107	1.274	0.136	0.085		33.0	
Head	NR Band n25	40	QPSK	A	0729M	1:1	0.01	1882.50	376500	DFT-s-OFDM	0.0	24.5	23.40	108	54	Left Cheek	0	0.109	1.288	0.140	0.088		33.1	
Head	NR Band n25	40	QPSK	A	0729M	1:1	-0.01	1882.50	376500	CP-OFDM	0.0	24.5	23.40	108	54	Left Cheek	0	0.076	1.260	0.076	0.048		32.9	
Head	NR Band n25	40	QPSK	A	0729M	1:1	-0.17	1882.50	376500	DFT-s-OFDM	0.0	24.5	23.45	1	108	Left Tilt	0	0.093	1.274	0.060	0.041		36.3	
Head	NR Band n25	40	QPSK	A	0729M	1:1	-0.19	1882.50	376500	DFT-s-OFDM	0.0	24.5	23.40	108	54	Left Tilt	0	0.052	1.288	0.067	0.042		36.2	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																		Head		1.6 W/kg (mW/g)				
Spatial Peak																		Uncontrolled Exposure/General Population		averaged over 1 gram				

Table 12-65 | Plot A37

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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Head	NR Band n25	40	QPSK	F	0729M	1:1	0.03	1882.50	376500	DFT-s-OFDM	0.0	17.5	17.40	1	108	Right Cheek	0	0.627	1.023	0.641	0.401		19.4	
Head	NR Band n25	40	QPSK	F	0729M	1:1	0.01	1882.50	376500	DFT-s-OFDM	0.0	17.5	17.40	108	108	Right Cheek	0	0.634	1.021	0.647	0.404		19.3	
Head	NR Band n25	40	QPSK	F	0729M	1:1	0.01	1882.50	376500	DFT-s-OFDM	0.0	17.5	17.37	216	0	Back	5	0.617	1.030	0.636	0.398		19.4	
Head	NR Band n25	40	QPSK	F	0729M	1:1	0.03	1882.50	376500	DFT-s-OFDM	0.0	17.5	17.40	1	108	Right Tilt	0	0.641	1.023	0.656	0.410		19.3	
Head	NR Band n25	40	QPSK	F	0729M	1:1	-0.02	1882.50	376500	DFT-s-OFDM	0.0	17.5	17.41	108	108	Right Tilt	0	0.663	1.021	0.675	0.427		19.2	
Head	NR Band n25	40	QPSK	F	0729M	1:1	-0.04	1882.50	376500	DFT-s-OFDM	0.0	17.5	17.37	216	0	Right Tilt	0	0.634	1.030	0.653	0.408		19.3	
Head	NR Band n25	40	QPSK	F	0729M	1:1	0.00	1882.50	376500	CP-OFDM	0.0	17.5	17.40	1	1	Right Tilt	0	0.663	1.023	0.676	0.423		Plot	
Head	NR Band n25	40	QPSK	F	0729M	1:1	-0.01	1882.50	376500	DFT-s-OFDM	0.0	17.5	17.40	108	108	Left Cheek	0	0.609	1.023	0.618	0.385		21.2	
Head	NR Band n25	40	QPSK	F	0729M	1:1	0.01	1882.50	376500	DFT-s-OFDM	0.0	17.5	17.41	108	108	Left Cheek	0	0.413	1.021	0.422	0.264		21.2	
Head	NR Band n25	40	QPSK	F	0729M	1:1	0.04	1882.50	376500	DFT-s-OFDM	0.0	17.5	17.40	1	108	Left Tilt	0	0.455	1.023	0.465	0.291		20.8	
Head	NR Band n25	40	QPSK	F	0729M	1:1	-0.09	1882.50	376500	DFT-s-OFDM	0.0	17.5	17.41	108	108	Left Tilt	0	0.552	1.021	0.533	0.342		20.2	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																		Head		1.6 W/kg (mW/g)				
Spatial Peak																		Uncontrolled Exposure/General Population		averaged over 1 gram				

Table 12-66 | Plot A38

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]
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Table 12-67

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]	Exposure Ratio (1g SAR)	Plot #	Plimt [dBm]	Overall Plimt [dBm]
Body worn/Hotspot	NR Band n25	40	QPSK	F	0729M	1:1	0.03	1882.50	376500	DFT-s-OFDM	0.0	21.0	19.48	1	1	Back	5	0.646	1.419	0.917	0.573		21.3	
Body worn/Hotspot	NR Band n25	40	QPSK	F	0729M	1:1	-0.16	1882.50	376500	DFT-s-OFDM	0.0	21.0	19.50	108	108	Back	5	0.633	1.413	0.894	0.559		21.4	
Body worn/Hotspot	NR Band n25	40	QPSK	F	0729M	1:1	-0.15	1882.50	376500	CP-OFDM	0.0	21.0	19.28	1	1	Back	5	0.566	1.486	0.845	0.526		21.7	
Hotspot	NR Band n25	40	QPSK	F	0729M	1:1	-0.16	1882.50	376500	DFT-s-OFDM	0.0	21.0	19.48	1	1	Front	5	0.574	1.419	0.913	0.599		21.8	
Hotspot	NR Band n25	40	QPSK	F	0729M	1:1	-0.03	1882.50	376500	DFT-s-OFDM	0.0	21.0	19.50	108	108	Front	5	0.546	1.413	0.771	0.482		22.1	
Hotspot	NR Band n25	40	QPSK	F	0729M	1:1	0.00	1882.50	376500	DFT-s-OFDM	0.0	21.0	19.48	1	1	Top	10	0.472	1.419	0.670	0.419		22.7	
Hotspot	NR Band n25	40	QPSK	F	0729M	1:1	0.01	1882.50	376500	DFT-s-OFDM	0.0	21.0	19.50	108	108	Top	10	0.478	1.413	0.675	0.422		22.7	
Hotspot	NR Band n25	40	QPSK	F	0729M	1:1	-0.16	1882.50	376500	DFT-s-OFDM	0.0	21.0	19.48	1	1	Left	10	0.074	1.419	0.105	0.066		30.7	
Hotspot	NR Band n25	40	QPSK	F	0729M	1:1	0.01	1882.50	376500	DFT-s-OFDM	0.0	21.0	19.50	108	108	Left	10	0.073	1.413	0.103	0.064		30.8	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																		Body		1.6 W/kg (mW/g) averaged over 1 gram				
Spatial Peak																		Head						
Uncontrolled Exposure/General Population																								

Table 12-68

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPRE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Reported 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #	Limit [dBm]	Overall Limit [dBm]
Phablet	NR Band n25	40	QPSK	A	3008M	1:1	-0.01	1882.50	376500	DFT-s-OFDM	0.0	19.0	17.56	1	214	Bottom	0	0.673	1.393	0.937	0.234		23.2	
Phablet	NR Band n25	40	QPSK	A	3008M	1:1	-0.03	1882.50	376500	DFT-s-OFDM	0.0	19.0	17.47	108	108	Bottom	0	0.682	1.422	0.970	0.243	23.1	22.7	
Phablet	NR Band n25	40	QPSK	A	3008M	1:1	0.02	1882.50	376500	CP-OFDM	0.0	19.0	17.44	1	1	Bottom	0	0.728	1.412	1.042	0.261	22.7		
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																		Phablet						
Spatial Peak																		4.0 W/kg (mW/g) averaged over 10 grams						
Uncontrolled Exposure/General Population																								

Table 12-69 | Plot A39

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 10g SAR [W/kg]	Power Scaling Factor	Reported 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #	Plimt [dBm]	Overall Plimt [dBm]			
Phablet	NR Band n25	40	QPSK	F	3008M	1:1	-0.10	1882.50	376500	DFT-s-OFDM	0.0	21.0	19.48	1	1	Top	0	1.880	1.419	2.668	0.667		20.7	20.4			
	NR Band n25	40	QPSK	F	3008M	1:1	-0.02	1882.50	376500	DFT-s-OFDM	0.0	21.0	19.50	108	108	Top	0	1.940	1.413	2.741	0.685	Plot	20.6				
	NR Band n25	40	QPSK	F	3008M	1:1	0.00	1882.50	376500	DFT-s-OFDM	0.0	21.0	19.43	216	0	Top	0	1.900	1.429	2.715	0.679		20.6				
	NR Band n25	40	QPSK	F	3008M	1:1	-0.03	1882.50	376500	CP-OFDM	0.0	21.0	19.28	1	1	Top	0	1.890	1.486	2.809	0.702		20.4				
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																		Phablet						4.0 W/kg (mW/g) averaged over 10 grams			
Spatial Peak																		Head									
Uncontrolled Exposure/General Population																											

12.17 NR Band n41 Standalone SAR

Table 12-70 | Plot A40

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Path	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]	Exposure Ratio (1g SAR)	Plot #	Plimt [dBm]	Overall Plimt [dBm]
Head	NR Band n41	100	QPSK	F	1	0993M	1:1	0.02	2592.99	518598	DFT-s-OFDM	0.0	17.0	16.54	1	137	Right Cheek	0	0.612	1.112	0.681	0.426		18.6	
Head	NR Band n41	100	QPSK	F	1	0993M	1:1	-0.02	2592.99	518598	DFT-s-OFDM	0.0	17.0	16.52	135	69	Right Cheek	0	0.588	1.117	0.957	0.411		18.8	
Head	NR Band n41	100	QPSK	F	1	0993M	1:1	-0.01	2592.99	518598	DFT-s-OFDM	0.0	17.0	16.48	270	0	Right Cheek	0	0.580	1.127	0.654	0.409		18.8	
Head	NR Band n41	100	QPSK	F	1	0993M	1:1	-0.01	2592.99	518598	DFT-s-OFDM	0.0	17.0	16.54	1	137	Right Tib	0	0.517	1.112	0.620	0.313		17.8	
Head	NR Band n41	100	QPSK	F	1	0993M	1:1	0.01	2592.99	518598	DFT-s-OFDM	0.0	17.0	16.52	135	69	Right Tib	0	0.581	1.117	0.972	0.345		17.5	
Head	NR Band n41	100	QPSK	F	1	0993M	1:1	-0.02	2592.99	518598	DFT-s-OFDM	0.0	17.0	16.48	270	0	Right Tib	0	0.563	1.127	0.860	0.338		17.6	17.5
Head	NR Band n41	100	QPSK	F	1	0993M	1:1	0.01	2592.99	518598	CP-OFDM	0.0	17.0	16.51	1	137	Right Tib	0	0.516	1.108	0.861	0.338		17.6	
Head	NR Band n41	100	QPSK	F	1	0993M	1:1	-0.02	2592.99	518598	DFT-s-OFDM	0.0	17.0	16.54	1	137	Left Cheek	0	0.619	1.112	0.635	0.222		21.9	
Head	NR Band n41	100	QPSK	F	1	0993M	1:1	0.01	2592.99	518598	DFT-s-OFDM	0.0	17.0	16.52	135	69	Left Cheek	0	0.545	1.117	0.585	0.241		21.1	
Head	NR Band n41	100	QPSK	F	1	0993M	1:1	-0.00	2592.99	518598	DFT-s-OFDM	0.0	17.0	16.54	1	137	Left Tib	0	0.610	1.112	0.496	0.295		20.4	
Head	NR Band n41	100	QPSK	F	1	0993M	1:1	0.01	2592.99	518598	DFT-s-OFDM	0.0	17.0	16.52	135	69	Left Tib	0	0.433	1.117	0.484	0.303		20.1	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																		Head		1.6 W/kg (mW/g) averaged over 1 gram					
Spatial Peak																		Head							
Uncontrolled Exposure/General Population																									
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]	Exposure Ratio (1g SAR)	Plot #	Plimt [dBm]	Overall Plimt [dBm]				
Head	NR Band n41	100	F	2	0993M	1:1	-0.01	2592.99	518598	CW/SRS	17.0	16.75	Right Tib	0	0.796	1.059	0.843	0.527	Plot	17.7	17.7				
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																		Head		1.6 W/kg (mW/g) averaged over 1 gram					
Spatial Peak																		Head							
Uncontrolled Exposure/General Population																									

Table 12-71

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Path	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]	Exposure Ratio (1g SAR)	Plot #	Plimt [dBm]	Overall Plimt [dBm]
Head	NR Band n41	100	QPSK	B	2	0993M	1:1	0.09	2592.99	518598	DFT-s-OFDM	0.0	22.5	20.94	1	137	Right Cheek	0	0.031	1.432	0.064	0.028		36.0	
Head	NR Band n41	100	QPSK	B	2	0993M	1:1	-0.13	2592.99	518598	DFT-s-OFDM	0.0	22.5	20.93	135	0	Right Cheek	0	0.031	1.435	0.064	0.028		36.0	
Head	NR Band n41	100	QPSK	B	2	0993M	1:1	-0.10	2592.99	518598	DFT-s-OFDM	0.0	22.5	20.94	1	137	Right Tib	0	0.025	1.432	0.026	0.023		36.9	
Head	NR Band n41	100	QPSK	B	2	0993M	1:1	0.02	2592.99	518598	DFT-s-OFDM	0.0	22.5	20.93	135	0	Right Tib	0	0.022	1.430	0.028	0.021		37.4	
Head	NR Band n41	100	QPSK	B	2	0993M	1:1	0.03	2592.99	518598	DFT-s-OFDM	0.0	22.5	20.94	1	137	Left Cheek	0	0.085	1.432	0.122	0.076		31.6	
Head	NR Band n41	100	QPSK	B	2	0993M	1:1	0.04	2592.99	518598	DFT-s-OFDM	0.0	22.5	20.93	135	0	Left Cheek	0	0.077	1.435	0.110	0.069		32.0	
Head	NR Band n41	100	QPSK	B	2	0993M	1:1	0.07	2592.99	518598	CP-OFDM	0.0	22.5	20.93	1	137	Left Tib	0	0.076	1.430	0.120	0.069		34.9	
Head	NR Band n41	100	QPSK	B	2	0993M	1:1	0.05	2592.99	518598	DFT-s-OFDM	0.0	22.5	20.94	1	137	Left Tib	0	0.026	1.432	0.037	0.023		37.7	
Head	NR Band n41	100	QPSK	B	2	0993M	1:1	0.02	2592.99	518598	DFT-s-OFDM	0.0	22.5	20.93	135	0	Left Tib	0	0.019	1.435	0.027	0.017		38.1	
ANSI/IEEE C63.1-1992 - SAFETY LIMIT																		Head							
Spatial Peak																		1.6 W/kg (mW/g)							
Uncontrolled Exposure/General Population																		averaged over 1 gram							
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]	Exposure Ratio (1g SAR)	Plot #	Plimt [dBm]	Overall Plimt [dBm]				
Head	NR Band n41	100	B	1	0993M	1:1	-0.10	2592.99	518598	CW/JRS	22.5	21.29	Left Cheek	0	0.074	1.321	0.098	0.061		32.5	32.5				
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 12-76

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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body-worn/Hotspot	NR Band n41	100	E	1	0993M	1:1	0.04	2592.99	518598	CW/SRS	16.5	15.94	Back	5	0.411	1.138	0.468	0.293		19.8	
Hotspot	NR Band n41	100	E	1	0993M	1:1	-0.20	2592.99	518598	CW/SRS	16.5	15.94	Front	5	0.350	1.138	0.398	0.249		20.4	
Hotspot	NR Band n41	100	E	1	0993M	1:1	0.17	2592.99	518598	CW/SRS	16.5	15.94	Top	10	0.102	1.138	0.116	0.073		25.8	
Hotspot	NR Band n41	100	E	1	0993M	1:1	-0.06	2592.99	518598	CW/SRS	16.5	15.94	Right	10	0.092	1.138	0.105	0.066		26.3	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																					
															Body 1.6 W/kg (mW/g) averaged over 1 gram						
Body-worn/Hotspot	NR Band n41	100	E	2	0993M	1:1	0.08	2592.99	518598	CW/SRS	16.5	16.11	Back	5	0.477	1.094	0.522	0.326		19.3	19.3
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 12-77 | Plot A41

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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body-worn/Hotspot	NR Band n41	100	D	1	0993M	1:1	0.06	2592.99	518598	CW/SRS	18.5	18.07	Back	5	0.770	1.104	0.850	0.531		19.2	
Hotspot	NR Band n41	100	D	1	0993M	1:1	-0.06	2592.99	518598	CW/SRS	18.5	18.07	Front	5	0.108	1.104	0.119	0.074		27.7	
Hotspot	NR Band n41	100	D	1	0993M	1:1	0.03	2592.99	518598	CW/SRS	18.5	18.07	Bottom	10	0.060	1.104	0.066	0.041		30.2	
Hotspot	NR Band n41	100	D	1	0993M	1:1	0.03	2592.99	518598	CW/SRS	18.5	18.07	Right	10	0.005	1.104	0.006	0.004		41.0	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																					
															Body 1.6 W/kg (mW/g) averaged over 1 gram						
Body-worn/Hotspot	NR Band n41	100	D	2	0993M	1:1	-0.03	2592.99	518598	CW/SRS	18.5	18.07	Back	5	0.828	1.104	0.914	0.571	Plot	18.8	18.8
Body-worn/Hotspot	NR Band n41	100	D	2	2883M	1:1	-0.01	2592.99	518598	CW/SRS	18.5	18.07	Back	5	0.195	1.104	0.882	0.551		19.0	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																					
															Body 1.6 W/kg (mW/g) averaged over 1 gram						

Note: Blue entry represents variability measurement

Table 12-78

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 10g SAR [W/kg]	Power Scaling Factor	Reported 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Phablet	NR Band n41	100	GPSK	B	2	2845M	1:1	0.03	2592.99	518598	DFT-s-OFDM	0.0	18.0	17.70	1	137	Bottom	0	0.735	1.072	0.788	0.197		23.0	
Phablet	NR Band n41	100	GPSK	B	2	2845M	1:1	-0.06	2592.99	518598	QPT-s-OFDM	0.0	18.0	17.77	135	0	Bottom	0	0.746	1.054	0.785	0.197		23.0	21.4
Phablet	NR Band n41	100	GPSK	B	2	2845M	1:1	0.04	2592.99	518598	CP-OFDM	0.0	18.0	17.65	1	1	Bottom	0	0.728	1.084	0.787	0.197		23.0	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Phablet 4.0 W/kg (mW/g) averaged over 10 grams								
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 10g SAR [W/kg]	Power Scaling Factor	Reported 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]				
Phablet	NR Band n41	100	B	1	2845M	1:1	0.01	2592.99	518598	CW/SRS	18.0	17.60	Bottom	0	0.796	1.096	0.872	0.218		22.5	22.5				
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Phablet 4.0 W/kg (mW/g) averaged over 10 grams								

Table 12-79 | Plot A42

TABLE 1: 5G NR BAND n41																												
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 10g SAR [W/kg]	Power Scaling Factor	Reported 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]			
Phablet	NR Band n41	100	QPSK	F	1	0993M	1:1	-0.01	2592.99	518598	DFT-s-OFDM	0.0	19.0	17.57	1	137	Top	0	1.420	1.390	1.974	0.494		20.0				
Phablet	NR Band n41	100	QPSK	F	1	0993M	1:1	0.02	2592.99	518598	DFT-s-OFDM	0.0	19.0	17.55	135	69	Top	0	1.420	1.396	1.982	0.496		20.0				
Phablet	NR Band n41	100	QPSK	F	1	0993M	1:1	-0.04	2592.99	518598	DFT-s-OFDM	0.0	19.0	17.53	270	0	Top	0	1.460	1.409	2.057	0.514		19.8				
Phablet	NR Band n41	100	QPSK	F	1	0993M	1:1	-0.01	2592.99	518598	CP-OFDM	0.0	19.0	17.77	1	1	Top	0	1.500	1.489	2.234	0.559	Plot	19.4				
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Phablet 4.0 W/kg (mW/g) averaged over 10 grams												
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 10g SAR [W/kg]	Power Scaling Factor	Reported 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]							
Phablet	NR Band n41	100	F	2	2845M	1:1	0.04	2592.99	518598	CW/SRS	19.0	17.08	Top	0	1.150	1.556	1.789	0.447		20.4	20.4							
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Phablet 4.0 W/kg (mW/g) averaged over 10 grams												

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12.18 NR Band n77 Standalone SAR

Table 12-80 | Plot A43

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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Head	NR Band n77 DoD	100	QPSK	F	0904M	1:1	-0.02	3500.01	633334	DFT-s-OFDM	0.0	15.0	14.50	1	271	Right Cheek	0	0.618	1.122	0.693	0.433		16.5	
Head	NR Band n77	100	QPSK	F	0904M	1:1	0.00	3750.00	650000	DFT-s-OFDM	0.0	15.0	14.51	1	137	Right Cheek	0	0.520	1.129	0.705	0.441		16.5	
Head	NR Band n77	100	QPSK	F	0904M	1:1	-0.02	3930.00	662000	DFT-s-OFDM	0.0	15.0	14.46	1	137	Right Cheek	0	0.645	1.132	0.725	0.456		16.3	
Head	NR Band n77	100	QPSK	F	0904M	1:1	-0.01	3750.00	650000	DFT-s-OFDM	0.0	15.0	14.58	135	0	Right Cheek	0	0.578	1.102	0.637	0.388		16.6	
Head	NR Band n77	100	QPSK	F	0904M	1:1	0.10	3930.00	662000	DFT-s-OFDM	0.0	15.0	14.51	135	138	Right Cheek	0	0.661	1.104	0.739	0.466		16.3	
Head	NR Band n77	100	QPSK	F	0904M	1:1	-0.01	3750.00	650000	DFT-s-OFDM	0.0	15.0	14.45	270	0	Right Cheek	0	0.582	1.135	0.638	0.399		16.6	
Head	NR Band n77	100	QPSK	F	0904M	1:1	0.01	3930.00	662000	DFT-s-OFDM	0.0	15.0	14.51	1	137	Right Tilt	0	0.632	1.119	0.707	0.442		16.5	
Head	NR Band n77	100	QPSK	F	0904M	1:1	-0.01	3930.00	662000	DFT-s-OFDM	0.0	15.0	14.46	1	137	Right Tilt	0	0.704	1.112	0.797	0.488		15.8	
Head	NR Band n77	100	QPSK	F	0904M	1:1	-0.02	3750.00	650000	DFT-s-OFDM	0.0	15.0	14.58	135	0	Right Tilt	0	0.609	1.102	0.671	0.419		16.7	
Head	NR Band n77	100	QPSK	F	0904M	1:1	0.01	3930.00	662000	DFT-s-OFDM	0.0	15.0	14.57	135	138	Right Tilt	0	0.747	1.104	0.825	0.516	Plot	15.8	
Head	NR Band n77	100	QPSK	F	0904M	1:1	-0.06	3750.00	650000	DFT-s-OFDM	0.0	15.0	14.43	270	0	Right Tilt	0	0.616	1.115	0.697	0.436		16.5	
Head	NR Band n77	100	QPSK	F	0904M	1:1	-0.01	3750.00	650000	CP-OFDM	0.0	15.0	14.52	1	1	Right Tilt	0	0.464	1.169	0.542	0.339		17.6	
Head	NR Band n77	100	QPSK	F	0904M	1:1	-0.01	3930.00	662000	DFT-s-OFDM	0.0	15.0	14.51	1	137	Left Cheek	0	0.294	1.119	0.329	0.206		19.8	
Head	NR Band n77	100	QPSK	F	0904M	1:1	-0.01	3930.00	662000	DFT-s-OFDM	0.0	15.0	14.46	1	137	Left Cheek	0	0.511	1.112	0.552	0.220		19.5	
Head	NR Band n77	100	QPSK	F	0904M	1:1	-0.01	3750.00	650000	DFT-s-OFDM	0.0	15.0	14.58	135	0	Left Cheek	0	0.271	1.102	0.299	0.187		20.2	
Head	NR Band n77	100	QPSK	F	0904M	1:1	-0.01	3930.00	662000	DFT-s-OFDM	0.0	15.0	14.57	135	138	Left Cheek	0	0.323	1.104	0.357	0.223		19.4	
Head	NR Band n77	100	QPSK	F	0904M	1:1	-0.04	3750.00	650000	DFT-s-OFDM	0.0	15.0	14.51	1	137	Left Tilt	0	0.279	1.119	0.312	0.195		20.0	
Head	NR Band n77	100	QPSK	F	0904M	1:1	0.00	3930.00	662000	DFT-s-OFDM	0.0	15.0	14.46	1	137	Left Tilt	0	0.298	1.132	0.337	0.211		19.7	
Head	NR Band n77	100	QPSK	F	0904M	1:1	0.02	3750.00	650000	DFT-s-OFDM	0.0	15.0	14.58	135	0	Left Tilt	0	0.300	1.102	0.331	0.207		19.8	
Head	NR Band n77	100	QPSK	F	0904M	1:1	-0.06	3930.00	662000	DFT-s-OFDM	0.0	15.0	14.57	135	138	Left Tilt	0	0.344	1.104	0.380	0.238		19.2	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																		Head		1.6 W/kg (mW/g)				
Spatial Peak																		Body		averaged over 1 gram				
Uncontrolled Exposure/General Population																								

Table 12-81

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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Head	NR Band n77	100	C	0904M	1:1	-0.14	3930.00	662000	CW/SRS	18.0	17.64	Right Cheek	0	0.016	1.086	0.017	0.011		35.5	31.5
Head	NR Band n77 DoD	100	C	0904M	1:1	0.01	3500.01	633334	CW/SRS	18.0	16.01	Right Tilt	0	0.018	1.581	0.028	0.018		33.4	
Head	NR Band n77	100	C	0904M	1:1	0.04	3930.00	662000	CW/SRS	18.0	17.64	Right Tilt	0	0.041	1.086	0.045	0.028		31.5	
Head	NR Band n77	100	C	0904M	1:1	0.08	3930.00	662000	CW/SRS	18.0	17.64	Left Cheek	0	0.039	1.086	0.042	0.026		31.7	
Head	NR Band n77	100	C	0904M	1:1	0.01	3930.00	662000	CW/SRS	18.0	17.64	Left Tilt	0	0.014	1.086	0.015	0.009		36.1	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT														Head		1.6 W/kg (mW/g)				
Spatial Peak														Body		averaged over 1 gram				
Uncontrolled Exposure/General Population																				

Table 12-82

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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]				
Head	NR Band n77	100	D	0904M	1:1	0.04	3750.00	650000	CW/SRS	16.0	15.28	Right Cheek	0	0.000	1.180	0.000	0.000		55.2	55.2				
Head	NR Band n77	100	D	0904M	1:1	0.08	3750.00	650000	CW/SRS	16.0	15.28	Right Tilt	0	0.000	1.180	0.000	0.000		55.2					
Head	NR Band n77	100	D	0904M	1:1	-0.03	3750.00	650000	CW/SRS	16.0	15.28	Left Cheek	0	0.000	1.180	0.000	0.000		55.2					
Head	NR Band n77 DoD	100	D	0904M	1:1	0.04	3500.01	633334	CW/SRS	16.0	15.88	Left Tilt	0	0.000	1.028	0.000	0.000		55.8					
Head	NR Band n77	100	D	0904M	1:1	0.02	3750.00	650000	CW/SRS	16.0	15.28	Left Tilt	0	0.000	1.180	0.000	0.000		55.2					
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																		Head		1.6 W/kg (mW/g)				
Spatial Peak																		Body		averaged over 1 gram				
Uncontrolled Exposure/General Population																								

Table 12-83

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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Head	NR Band n77 DoD	100	H	2883M	1:1	-0.05	3500.01	633334	CW/SRS	14.0	13.24	Right Cheek	0	0.317	1.191	0.378	0.236		18.2	
Head	NR Band n77	100	H	2883M	1:1	0.06	3930.00	662000	CW/SRS	14.0	13.49	Right Cheek	0	0.129	1.125	0.145	0.091		22.3	
Head	NR Band n77	100	H	2883M	1:1	0.08	3930.00	662000	CW/SRS	14.0	13.49	Right Tilt	0	0.003	1.125	0.003	0.002		38.7	18.2
Head	NR Band n77	100	H	2883M	1:1	0.17	3930.00	662000	CW/SRS	14.0	13.49	Left Cheek	0	0.076	1.125	0.086	0.054		24.6	
Head	NR Band n77	100	H	2883M	1:1	0.09	3930.00	662000	CW/SRS	14.0	13.49	Left Tilt	0	0.000	1.125	0.000	0.000		53.4	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT															Head		1.6 W/kg (mW/g)			
Spatial Peak															Body		averaged over 1 gram			
Uncontrolled Exposure/General Population																				

Table 12-84

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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]					
Body-worn/Hotspot	NR Band n77 DoD	100	QPSK	F	0904M	1:1	-0.08	3500.01	633334	DFT-s-OFDM	0.0	16.0	15.55	1	271	Back	5	0.460	1.109	0.732	0.458		17.3						
Body-worn/Hotspot	NR Band n77	100	QPSK	F	0904M	1:1	-0.03	3750.00	650000	DFT-s-OFDM	0.0	16.0	15.41	1	137	Back	5	0.523	1.146	0.599	0.374		18.2						
Body-worn/Hotspot	NR Band n77	100	QPSK	F	0904M	1:1	-0.11	3930.00	662000	DFT-s-OFDM	0.0	16.0	15.38	1	271	Back	5	0.559	1.208	0.675	0.422		17.7						
Body-worn/Hotspot	NR Band n77	100	QPSK	F	0904M	1:1	-0.06	3750.00	650000	DFT-s-OFDM	0.0	16.0	15.41	135	0	Back	5	0.508	1.146	0.582	0.364		18.1						
Body-worn/Hotspot	NR Band n77	100	QPSK	F	0904M	1:1	-0.03	3930.00	662000	DFT-s-OFDM	0.0	16.0	15.38	135	188	Back	5	0.485	1.172	0.615	0.397		18.3						
Body-worn/Hotspot	NR Band n77	100	QPSK	F	0904M	1:1	-0.01	3750.00	650000	CP-OFDM	0.0	16.0	15.14	1	1	Back	5	0.477	1.219	0.581	0.363		18.3						
Hotspot	NR Band n77	100	QPSK	F	0904M	1:1	-0.15	3750.00	650000	DFT-s-OFDM	0.0	16.0	15.41	1	137	Front	5	0.538	1.146	0.610	0.256		19.8						
Hotspot	NR Band n77	100	QPSK	F	0904M	1:1	-0.01	3930.00	662000	DFT-s-OFDM	0.0	16.0	15.38	1	271	Front	5	0.505	1.146	0.605	0.250		19.8						
Hotspot	NR Band n77	100	QPSK	F	0904M	1:1	-0.16	3750.00	650000	DFT-s-OFDM	0.0	16.0	15.41	135	0	Front	5	0.584	1.146	0.606	0.254		19.8						
Hotspot	NR Band n77	100	QPSK	F	0904M	1:1	-0.07	3930.00	662000	DFT-s-OFDM	0.0	16.0	15.31	135	188	Front	5	0.359	1.172	0.421	0.263		19.7						
Hotspot	NR Band n77	100	QPSK	F	0904M	1:1	-0.03	3750.00	650000	DFT-s-OFDM	0.0	16.0	15.41	1	137	Left	10	0.437	1.146	0.577	0.317		19.4						
Hotspot	NR Band n77	100	QPSK	F	0904M	1:1	-0.18	3750.00	650000	DFT-s-OFDM	0.0	16.0	15.41	135	1	Top	10	0.372	1.146	0.597	0.123		23.0						
Hotspot	NR Band n77	100	QPSK	F	0904M	1:1	-0.03	3750.00	650000	DFT-s-OFDM	0.0	16.0	15.41	135	137	Left	10	0.335	1.146	0.604	0.025		29.9						
Hotspot	NR Band n77	100	QPSK	F	0904M	1:1	-0.02	3750.00	650000	DFT-s-OFDM	0.0	16.0	15.41	135	0	Left	10	0.288	1.146	0.604	0.026		29.8						
AND/IEEE C95.1.1 1992 - SAFETY LIMIT																		Spatial Peak						1.6 W/kg (body/g)					
Uncontrolled Exposure/General Population																		averaged over 30 min											

Table 12-85

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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	
Body-worn/Hotspot	NR Band n77 DoD	100	C	0904M	1:1	-0.15	3500.01	633334	CW/SRS	19.0	17.01	Back	5	0.440	1.581	0.696	0.435		20.5	19.2	
Body-worn/Hotspot	NR Band n77	100	C	0904M	1:1	-0.12	3750.00	650000	CW/SRS	19.0	17.24	Back	5	0.634	1.500	0.951	0.594		19.2		
Body-worn/Hotspot	NR Band n77	100	C	0904M	1:1	-0.12	3930.00	662000	CW/SRS	19.0	18.64	Back	5	0.584	1.086	0.634	0.396		20.9		
Hotspot	NR Band n77	100	C	0904M	1:1	0.05	3930.00	662000	CW/SRS	19.0	18.64	Front	5	0.311	1.086	0.338	0.211		23.7		
Hotspot	NR Band n77	100	C	0904M	1:1	0.03	3930.00	662000	CW/SRS	19.0	18.64	Bottom	10	0.063	1.086	0.068	0.043		30.6		
Hotspot	NR Band n77	100	C	0904M	1:1	-0.15	3930.00	662000	CW/SRS	19.0	18.64	Left	10	0.245	1.086	0.266	0.166		24.7		
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 12-86 | Plot A44

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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body-worn/Hotspot	NR Band n77 DoD	100	D	0904M	1:1	-0.07	3500.01	633334	CW/SRS	14.0	13.96	Back	5	0.685	1.009	0.691	0.432			15.6
Body-worn/Hotspot	NR Band n77	100	D	0904M	1:1	-0.05	3750.00	650000	CW/SRS	14.0	13.87	Back	5	0.693	1.030	0.714	0.446	Plot		15.4
Body-worn/Hotspot	NR Band n77	100	D	0904M	1:1	0.03	3930.00	662000	CW/SRS	14.0	12.78	Back	5	0.432	1.324	0.572	0.358			16.4
Hotspot	NR Band n77	100	D	0904M	1:1	0.08	3750.00	650000	CW/SRS	14.0	13.87	Front	5	0.016	1.030	0.016	0.010			31.8
Hotspot	NR Band n77	100	D	0904M	1:1	0.05	3750.00	650000	CW/SRS	14.0	13.87	Bottom	10	0.030	1.030	0.031	0.019			29.0
Hotspot	NR Band n77	100	D	0904M	1:1	0.07	3750.00	650000	CW/SRS	14.0	13.87	Right	10	0.011	1.030	0.011	0.007			33.4
ANSI/IEEE C95.1 1992 - SAFETY LIMIT										Body Spatial Peak Uncontrolled Exposure/General Population										
										1.6 W/kg (mW/g) averaged over 1 gram										

Table 12-87

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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body-worn/Hotspot	NR Band n77 DoD	100	H	0904M	1:1	0.01	3500.01	633334	CW/SRS	14.0	12.94	Back	5	0.377	1.276	0.481	0.301		17.1	17.1
Body-worn/Hotspot	NR Band n77	100	H	0904M	1:1	0.21	3930.00	662000	CW/SRS	14.0	13.49	Back	5	0.241	1.125	0.271	0.169		19.6	
Hotspot	NR Band n77 DoD	100	H	0904M	1:1	-0.03	3500.01	633334	CW/SRS	14.0	12.94	Front	5	0.280	1.276	0.357	0.223		18.4	
Hotspot	NR Band n77	100	H	0904M	1:1	0.20	3930.00	662000	CW/SRS	14.0	13.49	Front	5	0.272	1.125	0.306	0.191		19.1	
Hotspot	NR Band n77 DoD	100	H	0904M	1:1	0.04	3500.01	633334	CW/SRS	14.0	12.94	Left	10	0.052	1.276	0.066	0.041		25.7	
Hotspot	NR Band n77	100	H	0904M	1:1	0.06	3930.00	662000	CW/SRS	14.0	13.49	Left	10	0.022	1.125	0.025	0.016		30.0	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT										Body Spatial Peak Uncontrolled Exposure/General Population										
										1.6 W/kg (mW/g) averaged over 1 gram										

Table 12-88 | Plot A45

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 10g SAR [W/kg]	Power Scaling Factor	Reported 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Phablet	NR Band n77 DoD	100	QPSK	F	0904M	1:1	0.00	3500.01	633334	DFT-s-OFDM	0.0	16.0	15.55	1	271	Top	0	0.829	1.109	0.919	0.230	Plot	20.3	20.3
Phablet	NR Band n77	100	QPSK	F	0904M	1:1	-0.02	3750.00	650000	DFT-s-OFDM	0.0	16.0	15.41	1	237	Top	0	0.706	1.146	0.803	0.201		20.8	
Phablet	NR Band n77	100	QPSK	F	0904M	1:1	-0.03	3750.00	650000	DFT-s-OFDM	0.0	16.0	15.41	135	0	Top	0	0.701	1.146	0.803	0.201		20.9	
Phablet	NR Band n77	100	QPSK	F	0904M	1:1	0.00	3750.00	650000	CP-OFDM	0.0	16.0	15.14	1	1	Top	0	0.662	1.219	0.807	0.202		20.8	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																							Phablet	
Spatial Peak																							4.0 W/kg (mW/g)	
Uncontrolled Exposure/General Population																							averaged over 10 grams	

12.19 2.4 GHz WIFI SISO Standalone SAR

Table 12-89 | Plot A46

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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Head	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	G	2957M	97.63	-0.01	2437.00	6	1.0	14.0	13.74	Right Cheek	0	0.428	1.062	1.024	0.465	0.291	Plot	17.3	17.3
Head	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	G	2957M	97.63	-0.09	2437.00	6	1.0	14.0	13.74	Right Tilt	0	0.142	1.062	1.024	0.154	0.096		22.1	
Head	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	G	2957M	97.63	-0.01	2437.00	6	1.0	14.0	13.74	Left Cheek	0	0.094	1.062	1.024	0.102	0.064		23.9	
Head	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	G	2957M	97.63	-0.15	2437.00	6	1.0	14.0	13.74	Left Tilt	0	0.047	1.062	1.024	0.051	0.032		26.9	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT										Head Spatial Peak Uncontrolled Exposure/General Population 1.6 W/kg (mW/g) averaged over 1 gram												

Table 12-90

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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Head	2.4 GHz WFI/ IEEE 802.11b	22	DSSS	I	2957M	97.68	-0.09	2437.00	1	1.0	14.0	12.53	Right Cheek	0	0.189	1.403	1.024	0.272	0.170		19.6	16.8
Head	2.4 GHz WFI/ IEEE 802.11b	22	DSSS	I	2957M	97.68	-0.02	2437.00	1	1.0	14.0	12.53	Right Tilt	0	0.027	1.403	1.024	0.039	0.024		28.1	
Head	2.4 GHz WFI/ IEEE 802.11b	22	DSSS	I	2957M	97.68	-0.09	2437.00	1	1.0	14.0	12.53	Left Cheek	0	0.566	1.403	1.024	0.643	0.323		16.8	
Head	2.4 GHz WFI/ IEEE 802.11b	22	DSSS	I	2957M	97.68	-0.02	2437.00	1	1.0	14.0	12.53	Left Tilt	0	0.048	1.403	1.024	0.065	0.043		25.6	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT										Head Spatial Peak Uncontrolled Exposure/General Population 1.6 W/kg (mW/g) averaged over 1 gram												

Table 12-91

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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]		
Body-worn/Hotspot	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	G	2957M	97.63	-0.08	2437.00	6	1.0	16.0	15.14	Back	5	0.385	1.219	1.024	0.481	0.301		19.1	19.1		
Hotspot	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	G	2957M	97.63	0.06	2437.00	6	1.0	16.0	15.14	Front	5	0.189	1.219	1.024	0.236	0.148		22.2			
Hotspot	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	G	2806M	97.63	0.06	2437.00	6	1.0	16.0	15.14	Top	10	0.053	1.219	1.024	0.066	0.041		27.7			
Hotspot	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	G	2806M	97.63	-0.07	2437.00	6	1.0	16.0	15.14	Left	10	0.231	1.219	1.024	0.291	0.182		21.3			
ANSI/IEEE C95.1 1992 - SAFETY LIMIT										Body Spatial Peak Uncontrolled Exposure/General Population 1.6 W/kg (mW/g) averaged over 1 gram														

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Table 12-92

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]	Exposure Ratio (1g SAR)	Plot #	Limit [dBm]	Overall Limit [dBm]
Body worn/Hotspot	2.4 GHz WIF/ IEEE 802.11b	22	DSSS	I	2957M	97.68	0.03	2437.00	6	1.0	16.0	15.96	Back	5	0.302	1.009	1.024	0.105	0.066		25.7	21.9
Hotspot	2.4 GHz WIF/ IEEE 802.11b	22	DSSS	I	2957M	97.68	-0.04	2437.00	6	1.0	16.0	15.96	Front	5	0.345	1.009	1.024	0.263	0.158		21.9	
Hotspot	2.4 GHz WIF/ IEEE 802.11b	22	DSSS	I	2806M	97.68	0.08	2437.00	6	1.0	16.0	15.96	Top	10	0.006	1.009	1.024	0.006	0.004		38.0	
Hotspot	2.4 GHz WIF/ IEEE 802.11b	22	DSSS	I	2806M	97.68	0.07	2437.00	6	1.0	16.0	15.96	Right	10	0.043	1.009	1.024	0.044	0.028		29.5	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Body 1.6 W/kg (mW/g) averaged over 1 gram						

12.20 2.4 GHz WIFI MIMO Standalone SAR

Table 12-93

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]	Exposure Ratio (1g SAR)	Plot #	Limit [dBm]	Overall Limit [dBm]
Head	2.4 GHz WIF/ IEEE 802.11b	22	DSSS	MIMO	2957M	98.72	0.04	2462.00	11	1.0	14.0	13.50	14.0	12.42	Right Cheek	0	0.116	1.439	1.013	0.463	0.286		17.3	17.3
Head	2.4 GHz WIF/ IEEE 802.11b	22	DSSS	MIMO	2957M	98.72	0.14	2462.00	11	1.0	14.0	13.50	14.0	12.42	Right Tib	0	0.120	1.439	1.013	0.175	0.109		21.5	
Head	2.4 GHz WIF/ IEEE 802.11b	22	DSSS	MIMO	2957M	98.72	-0.02	2462.00	11	1.0	14.0	13.50	14.0	12.42	Left Cheek	0	0.307	1.439	1.013	0.448	0.280		17.4	
Head	2.4 GHz WIF/ IEEE 802.11b	22	DSSS	MIMO	2957M	98.72	0.09	2462.00	11	1.0	14.0	13.50	14.0	12.42	Left Tib	0	0.055	1.439	1.013	0.080	0.050		24.5	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																Head 1.6 W/kg (mW/g) averaged over 1 gram								

Note: To achieve the 17 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 14 dBm.

Table 12-94 | Plot A47

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]	Exposure Ratio (1g SAR)	Plot #	Limit [dBm]	Overall Limit [dBm]			
Body-worn/Hotspot	2.4 GHz WIF/ IEEE 802.11b	22	DSSS	MIMO	2957M	98.72	0.05	2412.00	1	1.0	16.0	15.03	16.0	15.99	Back	5	0.406	1.250	1.013	0.534	0.321	Plot	18.8	18.8			
Hotspot	2.4 GHz WIF/ IEEE 802.11b	22	DSSS	MIMO	2956M	98.72	0.13	2412.00	1	1.0	16.0	15.03	16.0	15.99	Front	5	0.297	1.250	1.013	0.376	0.235		20.2				
Hotspot	2.4 GHz WIF/ IEEE 802.11b	22	DSSS	MIMO	2956M	98.72	0.09	2412.00	1	1.0	16.0	15.03	16.0	15.99	Top	10	0.086	1.250	1.013	0.071	0.044		27.4				
Hotspot	2.4 GHz WIF/ IEEE 802.11b	22	DSSS	MIMO	2956M	98.72	0.04	2412.00	1	1.0	16.0	15.03	16.0	15.99	Right	10	0.061	1.250	1.013	0.077	0.048		27.2				
Hotspot	2.4 GHz WIF/ IEEE 802.11b	22	DSSS	MIMO	2805M	98.72	0.04	2412.00	1	1.0	16.0	15.03	16.0	15.99	Left	10	0.055	1.250	1.013	0.086	0.123		23.0				
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																Body						1.6 W/kg (mW/g) averaged over 1 gram					
Uncontrolled Exposure/General Population																											

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.

12.21 5 GHz WIFI SISO Standalone SAR

Table 12-95 | Plot A48

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII 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]	Exposure Ratio (1g SAR)	Plot #	Limit [dBm]	Overall Limit [dBm]
Head	5 GHz WIF/ IEEE 802.11ac	80	OFDM	G	2933M	94.47	0.04	5290.00	58	U-NII-2A	29.3	12.0	11.79	Right Cheek	0	0.331	1.050	1.059	0.508	0.230	Plot	16.3	16.3
Head	5 GHz WIF/ IEEE 802.11ac	80	OFDM	G	2933M	94.47	0.03	5690.00	138	U-NII-2C	29.3	12.0	11.46	Right Cheek	0	0.157	1.132	1.059	0.188	0.118		19.2	
Head	5 GHz WIF/ IEEE 802.11ac	80	OFDM	G	2933M	94.47	0.02	5775.00	155	U-NII-3	29.3	12.0	11.37	Right Cheek	0	0.106	1.156	1.059	0.130	0.081		20.8	
Head	5 GHz WIF/ IEEE 802.11ac	80	OFDM	G	2933M	94.47	0.03	5855.00	171	U-NII-4	29.3	12.0	11.28	Right Cheek	0	0.108	1.180	1.059	0.135	0.084		20.6	
Head	5 GHz WIF/ IEEE 802.11ac	80	OFDM	G	2933M	94.47	0.12	5290.00	58	U-NII-2A	29.3	12.0	11.79	Right Tib	0	0.163	1.050	1.059	0.181	0.113		19.4	
Head	5 GHz WIF/ IEEE 802.11ac	80	OFDM	G	2933M	94.47	0.09	5690.00	138	U-NII-2C	29.3	12.0	11.46	Right Tib	0	0.109	1.132	1.059	0.130	0.075		19.3	
Head	5 GHz WIF/ IEEE 802.11ac	80	OFDM	G	2933M	94.47	0.07	5775.00	155	U-NII-3	29.3	12.0	11.37	Right Tib	0	0.075	1.156	1.059	0.092	0.058		22.3	
Head	5 GHz WIF/ IEEE 802.11ac	80	OFDM	G	2933M	94.47	0.03	5855.00	171	U-NII-4	29.3	12.0	11.28	Right Tib	0	0.073	1.180	1.059	0.091	0.057		22.3	
Head	5 GHz WIF/ IEEE 802.11ac	80	OFDM	G	2933M	94.47	0.02	5290.00	58	U-NII-2A	29.3	12.0	11.29	Left Cheek	0	0.056	1.050	1.059	0.056	0.035		24.5	
Head	5 GHz WIF/ IEEE 802.11ac	80	OFDM	G	2933M	94.47	0.09	5690.00	138	U-NII-2C	29.3	12.0	11.46	Left Cheek	0	0.029	1.132	1.059	0.035	0.022		26.5	
Head	5 GHz WIF/ IEEE 802.11ac	80	OFDM	G	2933M	94.47	0.03	5775.00	155	U-NII-3	29.3	12.0	11.37	Left Cheek	0	0.018	1.156	1.059	0.022	0.014		28.5	
Head	5 GHz WIF/ IEEE 802.11ac	80	OFDM	G	2933M	94.47	0.04	5855.00	171	U-NII-4	29.3	12.0	11.28	Left Cheek	0	0.017	1.180	1.059	0.021	0.013		28.7	
Head	5 GHz WIF/ IEEE 802.11ac	80	OFDM	G	2933M	94.47	0.03	5290.00	58	U-NII-2A	29.3	12.0	11.79	Left Tib	0	0.025	1.050	1.059	0.028	0.018		27.5	
Head	5 GHz WIF/ IEEE 802.11ac	80	OFDM	G	2933M	94.47	0.06	5690.00	138	U-NII-2C	29.3	12.0	11.46	Left Tib	0	0.022	1.132	1.059	0.026	0.016		27.7	
Head	5 GHz WIF/ IEEE 802.11ac	80	OFDM	G	2933M	94.47	0.07	5775.00	155	U-NII-3	29.3	12.0	11.37	Left Tib	0	0.024	1.156	1.059	0.018	0.011		29.3	
Head	5 GHz WIF/ IEEE 802.11ac	80	OFDM	G	2933M	94.47	0.05	5855.00	171	U-NII-4	29.3	12.0	11.28	Left Tib	0	0.017	1.180	1.059	0.021	0.013		28.7	
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 12-96

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]	Exposure Ratio (1g SAR)	Plot #	Limit [dBm]	Overall Limit [dBm]
Head	5 GHz WIF/ IEEE 802.11ac	80	OFDM	E	2935M	94.99	0.02	5290.00	58	U-NI-2A	29.3	12.0	11.25	Right Cheek	0	0.041	1.189	1.053	0.051	0.052		24.8	
Head	5 GHz WIF/ IEEE 802.11ac	80	OFDM	E	2935M	94.99	-0.05	5530.00	306	U-NI-2C	29.3	12.0	11.82	Right Cheek	0	0.112	1.042	1.053	0.123	0.077		21.1	
Head	5 GHz WIF/ IEEE 802.11ac	80	OFDM	E	2935M	94.99	0.03	5775.00	155	U-NI-3	29.3	12.0	11.96	Right Cheek	0	0.126	1.009	1.053	0.137	0.079		30.8	
Head	5 GHz WIF/ IEEE 802.11ac	80	OFDM	E	2935M	94.99	0.04	5855.00	171	U-NI-4	29.3	12.0	11.59	Right Cheek	0	0.104	1.009	1.053	0.120	0.075		21.1	
Head	5 GHz WIF/ IEEE 802.11ac	80	OFDM	E	2935M	94.99	-0.11	5290.00	58	U-NI-2A	29.3	12.0	11.25	Right TIR	0	0.047	1.189	1.053	0.059	0.057		24.3	
Head	5 GHz WIF/ IEEE 802.11ac	80	OFDM	E	2935M	94.99	0.08	5530.00	306	U-NI-2C	29.3	12.0	11.82	Right TIR	0	0.073	1.042	1.053	0.080	0.050		23.9	
Head	5 GHz WIF/ IEEE 802.11ac	80	OFDM	E	2935M	94.99	0.06	5775.00	155	U-NI-3	29.3	12.0	11.96	Right TIR	0	0.111	1.009	1.053	0.118	0.074		21.2	
Head	5 GHz WIF/ IEEE 802.11ac	80	OFDM	E	2935M	94.99	0.04	5855.00	171	U-NI-4	29.3	12.0	11.59	Right TIR	0	0.102	1.009	1.053	0.118	0.074		21.2	
Head	5 GHz WIF/ IEEE 802.11ac	80	OFDM	E	2935M	94.99	-0.09	5290.00	58	U-NI-2A	29.3	12.0	11.25	Left Cheek	0	0.125	1.189	1.053	0.144	0.090		20.4	
Head	5 GHz WIF/ IEEE 802.11ac	80	OFDM	E	2935M	94.99	0.05	5530.00	306	U-NI-2C	29.3	12.0	11.82	Left Cheek	0	0.127	1.042	1.053	0.139	0.087		20.5	
Head	5 GHz WIF/ IEEE 802.11ac	80	OFDM	E	2935M	94.99	-0.02	5775.00	155	U-NI-3	29.3	12.0	11.96	Left Cheek	0	0.142	1.009	1.053	0.151	0.094		20.2	
Head	5 GHz WIF/ IEEE 802.11ac	80	OFDM	E	2935M	94.99	0.03	5855.00	171	U-NI-4	29.3	12.0	11.59	Left Cheek	0	0.127	1.009	1.053	0.147	0.092		30.3	
Head	5 GHz WIF/ IEEE 802.11ac	80	OFDM	E	2935M	94.99	0.01	5290.00	58	U-NI-2A	29.3	12.0	11.25	Left TIR	0	0.099	1.189	1.053	0.124	0.078		21.0	
Head	5 GHz WIF/ IEEE 802.11ac	80	OFDM	E	2935M	94.99	0.06	5530.00	306	U-NI-2A	29.3	12.0	11.82	Left TIR	0	0.118	1.042	1.053	0.129	0.081		20.8	
Head	5 GHz WIF/ IEEE 802.11ac	80	OFDM	E	2935M	94.99	0.10	5775.00	155	U-NI-3	29.3	12.0	11.96	Left TIR	0	0.147	1.009	1.053	0.156	0.098		20.0	
Head	5 GHz WIF/ IEEE 802.11ac	80	OFDM	E	2935M	94.99	-0.16	5855.00	171	U-NI-4	29.3	12.0	11.59	Left TIR	0	0.139	1.009	1.053	0.161	0.101		19.9	
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 12-97

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]	Exposure Ratio (1g SAR)	Plot #	Limit [dBm]	Overall Limit [dBm]
Body worn	5 GHz WIF/ IEEE 802.11ac	80	OFDM	G	2935M	94.47	0.06	5290.00	58	U-NI-2A	29.3	12.0	11.79	Back	5	0.187	1.050	1.059	0.208	0.130		18.8	
Body worn	5 GHz WIF/ IEEE 802.11ac	80	OFDM	G	2935M	94.47	0.07	5690.00	138	U-NI-2C	29.3	12.0	11.46	Back	5	0.163	1.132	1.059	0.195	0.122		19.0	
Body worn	5 GHz WIF/ IEEE 802.11ac	80	OFDM	G	2935M	94.47	0.01	5530.00	306	U-NI-2C	29.3	12.0	11.82	Back	5	0.160	1.009	1.053	0.205	0.126		18.9	
Body worn/Hotspot	5 GHz WIF/ IEEE 802.11ac	80	OFDM	G	2956M	94.47	0.01	5210.00	42	U-NI-1	29.3	12.0	11.64	Back	5	0.195	1.086	1.059	0.225	0.141		18.4	
Body worn/Hotspot	5 GHz WIF/ IEEE 802.11ac	80	OFDM	G	2935M	94.47	0.02	5775.00	155	U-NI-3	29.3	12.0	11.97	Back	5	0.134	1.156	1.059	0.164	0.103		19.8	
Hotspot	5 GHz WIF/ IEEE 802.11ac	80	OFDM	G	2956M	94.49	0.04	5210.00	42	U-NI-1	29.3	12.0	11.64	Front	5	0.113	1.086	1.053	0.230	0.138		20.8	
Hotspot	5 GHz WIF/ IEEE 802.11ac	80	OFDM	G	2935M	94.47	0.01	5775.00	155	U-NI-3	29.3	12.0	11.97	Front	5	0.090	1.156	1.059	0.103	0.069		21.5	
Hotspot	5 GHz WIF/ IEEE 802.11ac	80	OFDM	G	2956M	94.47	0.06	5210.00	42	U-NI-1	29.3	12.0	11.64	Top	10	0.003	1.086	1.059	0.003	0.002		36.6	
Hotspot	5 GHz WIF/ IEEE 802.11ac	80	OFDM	G	2935M	94.47	0.07	5775.00	155	U-NI-3	29.3	12.0	11.97	Top	10	0.003	1.156	1.059	0.004	0.004		36.3	
Hotspot	5 GHz WIF/ IEEE 802.11ac	80	OFDM	G	2956M	94.47	0.04	5210.00	42	U-NI-1	29.3	12.0	11.64	Left	10	0.070	1.086	1.059	0.081	0.051		22.9	
Hotspot	5 GHz WIF/ IEEE 802.11ac	80	OFDM	G	2957M	94.47	0.01	5775.00	155	U-NI-3	29.3	12.0	11.97	Left	10	0.042	1.156	1.059	0.051	0.032		24.8	
ANSI/IEEE C63.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																							
																Body 1.6 W/kg (mW/g) averaged over 1 gram							

Table 12-98 | Plot A49

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]	Exposure Ratio (1g SAR)	Plot #	Limit [dBm]	Overall Limit [dBm]
Body worn	5 GHz WIF/ IEEE 802.11ac	80	OFDM	E	2935M	94.99	0.06	5290.00	58	U-NI-2A	29.3	12.0	11.25	Back	5	0.198	1.189	1.053	0.248	0.155		18.0	
Body worn	5 GHz WIF/ IEEE 802.11ac	80	OFDM	E	2935M	94.99	0.01	5530.00	306	U-NI-2C	29.3	12.0	11.82	Back	5	0.229	1.042	1.053	0.241	0.151		18.1	
Body worn	5 GHz WIF/ IEEE 802.11ac	80	OFDM	E	2935M	94.99	0.01	5855.00	171	U-NI-4	29.3	12.0	11.59	Back	5	0.240	1.009	1.053	0.278	0.174		17.5	
Body worn/Hotspot	5 GHz WIF/ IEEE 802.11ac	80	OFDM	E	2956M	94.99	0.05	5210.00	42	U-NI-1	29.3	12.0	11.07	Back	5	0.244	1.239	1.053	0.318	0.199		16.9	
Body worn/Hotspot	5 GHz WIF/ IEEE 802.11ac	80	OFDM	E	2935M	94.99	0.01	5775.00	155	U-NI-3	29.3	12.0	11.96	Back	5	0.207	1.009	1.053	0.230	0.145		18.5	
Hotspot	5 GHz WIF/ IEEE 802.11ac	80	OFDM	E	2956M	94.99	0.05	5210.00	42	U-NI-1	29.3	12.0	11.07	Front	5	0.025	1.239	1.053	0.033	0.021		28.8	
Hotspot	5 GHz WIF/ IEEE 802.11ac	80	OFDM	E	2935M	94.99	0.06	5775.00	155	U-NI-3	29.3	12.0	11.96	Front	5	0.072	1.009	1.053	0.076	0.048		23.1	
Hotspot	5 GHz WIF/ IEEE 802.11ac	80	OFDM	E	2956M	94.99	0.04	5210.00	42	U-NI-1	29.3	12.0	11.07	Top	10	0.024	1.239	1.053	0.030	0.019		27.0	
Hotspot	5 GHz WIF/ IEEE 802.11ac	80	OFDM	E	2956M	94.99	0.08	5775.00	155	U-NI-3	29.3	12.0	11.96	Top	10	0.045	1.009	1.053	0.048	0.030		25.2	
Hotspot	5 GHz WIF/ IEEE 802.11ac	80	OFDM	E	2956M	94.99	0.08	5210.00	42	U-NI-1	29.3	12.0	11.07	Right	10	0.004	1.239	1.053	0.005	0.003		34.8	
Hotspot	5 GHz WIF/ IEEE 802.11ac	80	OFDM	E	2956M	94.99	0.04	5775.00	155	U-NI-3	29.3	12.0	11.96	Right	10	0.000	1.009	1.053	0.000	0.000		51.7	
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 12-99

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 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #	Limit [dBm]	Overall Limit [dBm]	
Phablet	5 GHz WIF/ IEEE 802.11ac	80	OFDM	G	2956M	94.47	0.06	5290.00	58	U-NI-2A	29.3	12.0	11.79	Back	0	0.154	1.050	1.059	0.349	0.087	20.5			
	5 GHz WIF/ IEEE 802.11ac	80	OFDM	G	2956M	94.47	0.03	5530.00	138	U-NI-2C	29.3	12.0	11.46	Back	0	0.241	1.132	1.059	0.291	0.073	21.3			
	5 GHz WIF/ IEEE 802.11ac	80	OFDM	G	2956M	94.47	0.09	5855.00	171	U-NI-4	29.3	12.0	11.28	Back	0	0.145	1.180	1.059	0.179	0.045	23.6			
	5 GHz WIF/ IEEE 802.11ac	80	OFDM	G	2956M	94.47	0.00	5290.00	58	U-NI-2A	29.3	12.0	11.79	Front	0	0.201	1.050	1.059	0.155	0.084	20.7			
	5 GHz WIF/ IEEE 802.11ac	80	OFDM	G	2956M	94.47	0.01	5530.00	138	U-NI-2C	29.3	12.0	11.46	Front	0	0.159	1.132	1.059	0.191	0.048	23.1			
	5 GHz WIF/ IEEE 802.11ac	80	OFDM	G	2956M	94.47	0.02	5855.00	171	U-NI-4	29.3	12.0	11.28	Front	0	0.112	1.180	1.059	0.140	0.035	24.5			
	5 GHz WIF/ IEEE 802.11ac	80	OFDM	G	2956M	94.47	0.01	5290.00	58	U-NI-2A	29.3	12.0	11.79	Top	0	0.061	1.050	1.059	0.068	0.017	27.6			
	5 GHz WIF/ IEEE 802.11ac	80	OFDM	G	2956M	94.47	0.01	5530.00	138	U-NI-2C	29.3	12.0	11.46	Top	0	0.055	1.132	1.059	0.066	0.017	27.7			
	5 GHz WIF/ IEEE 802.11ac	80	OFDM	G	2956M	94.47	0.01	5855.00	171	U-NI-4	29.3	12.0	11.28	Top	0	0.009	1.180	1.059	0.010	0.002	30.2			
	5 GHz WIF/ IEEE 802.11ac	80	OFDM	G	2956M	94.47	0.07	5290.00	58	U-NI-2A	29.3	12.0	11.79	Left	0	0.328	1.050	1.059	0.305	0.091	20.3			
	5 GHz WIF/ IEEE 802.11ac	80	OFDM	G	2956M	94.47	0.01	5530.00	138	U-NI-2C	29.3	12.0	11.46	Left	0	0.395	1.132	1.059	0.428	0.119	19.2			
	5 GHz WIF/ IEEE 802.11ac	80	OFDM	G	2956M	94.47	0.01	5855.00	171	U-NI-4	29.3	12.0	11.28	Left	0	0.343	1.180	1.059	0.429	0.107	19.6			
ANSI/IEEE C95.1-1992 - SAFETY LIMIT																Phablet								
Spatial Peak																4.0 W/kg (avg)								
Uncontrolled Exposure (General Population)																averaged over 10 grams								

12.22 5 GHz WIFI MIMO Standalone SAR

Table 12-101

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]	Max Allowed Power (2nd int) [dBm]	Conducted Power (2nd int) [dBm]	Test Position	Spacing [mm]	Measured E ₁ SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported E ₁ SAR [W/kg]	Exposure Rate (µg SAR)	P10 #	P10T [dBm]	Overall P10T [dBm]
Head	5 GHz WPU / IEEE 802.11ac	80	OFDM	MIMO	2956AM	90.95	-0.07	5790.00	18	U-NI 2A	58.5	12.0	11.59	12.0	11.55	Right Cheek	0	0.240	1.245	1.100	0.400	0.250	15.9		
Head	5 GHz WPU / IEEE 802.11ac	80	OFDM	MIMO	2956AM	90.95	0.86	5530.00	106	U-NI 2C	58.5	12.0	11.66	12.0	11.66	Right Cheek	0	0.210	1.200	1.100	0.280	0.175	17.5		
Head	5 GHz WPU / IEEE 802.11ac	80	OFDM	MIMO	2956AM	90.95	-0.73	5570.00	106	U-NI 2C	58.5	12.0	11.67	12.0	11.67	Right Cheek	0	0.200	1.200	1.100	0.280	0.175	17.5		
Head	5 GHz WPU / IEEE 802.11ac	80	OFDM	MIMO	2956AM	90.95	0.11	5855.00	171	U-NI 4A	58.5	12.0	11.44	12.0	11.43	Right Cheek	0	0.144	1.210	1.100	0.093	0.121	18.1		
Head	5 GHz WPU / IEEE 802.11ac	80	OFDM	MIMO	2956AM	90.95	0.14	5200.00	108	U-NI 2A	58.5	12.0	11.66	12.0	11.65	Right TH	0	0.154	1.205	1.100	0.111	0.132	18.7		
Head	5 GHz WPU / IEEE 802.11ac	80	OFDM	MIMO	2956AM	90.95	-0.15	5530.00	106	U-NI 2C	58.5	12.0	11.67	12.0	11.67	Right TH	0	0.191	1.205	1.100	0.076	0.121	21.1		
Head	5 GHz WPU / IEEE 802.11ac	80	OFDM	MIMO	2956AM	90.95	0.19	5770.00	155	U-NI 3	58.5	12.0	11.67	12.0	11.87	Right TH	0	0.105	1.197	1.100	0.133	0.083	20.7		
Head	5 GHz WPU / IEEE 802.11ac	80	OFDM	MIMO	2956AM	90.95	-0.17	5530.00	106	U-NI 2C	58.5	12.0	11.67	12.0	11.67	Right TH	0	0.191	1.205	1.100	0.133	0.083	20.7		
Head	5 GHz WPU / IEEE 802.11ac	80	OFDM	MIMO	2956AM	90.95	0.04	5200.00	158	U-NI 3A	58.5	12.0	11.42	12.0	11.50	Left Cheek	0	0.088	1.245	1.100	0.134	0.084	20.7		
Head	5 GHz WPU / IEEE 802.11ac	80	OFDM	MIMO	2956AM	90.95	-0.03	5530.00	106	U-NI 2C	58.5	12.0	11.59	12.0	11.59	Left Cheek	0	0.206	1.205	1.100	0.074	0.021	19.6		
Head	5 GHz WPU / IEEE 802.11ac	80	OFDM	MIMO	2956AM	90.95	0.15	5770.00	155	U-NI 3	58.5	12.0	11.67	12.0	11.87	Left Cheek	0	0.197	1.199	1.100	0.133	0.083	20.7		
Head	5 GHz WPU / IEEE 802.11ac	80	OFDM	MIMO	2933AM	90.95	0.13	4895.00	171	U-NI 4A	58.5	12.0	11.14	12.0	11.13	Left Cheek	0	0.126	1.210	1.100	0.169	0.106	20.8		
Head	5 GHz WPU / IEEE 802.11ac	80	OFDM	MIMO	2933AM	90.95	0.15	5770.00	155	U-NI 3	58.5	12.0	11.67	12.0	11.87	Left TH	0	0.145	1.199	1.100	0.133	0.083	20.7		
Head	5 GHz WPU / IEEE 802.11ac	80	OFDM	MIMO	2933AM	90.95	0.05	5530.00	106	U-NI 2C	58.5	12.0	11.67	12.0	11.65	Left TH	0	0.193	1.205	1.100	0.123	0.077	21.1		
Head	5 GHz WPU / IEEE 802.11ac	80	OFDM	MIMO	2956AM	90.95	0.08	5775.00	155	U-NI 3	58.5	12.0	11.67	12.0	11.87	Left TH	0	0.139	1.197	1.100	0.183	0.114	19.4		
Head	5 GHz WPU / IEEE 802.11ac	80	OFDM	MIMO	2933AM	90.95	0.09	4895.00	171	U-NI 4A	58.5	12.0	11.14	12.0	11.13	Left TH	0	0.111	1.200	1.100	0.149	0.093	20.2		
AND/ENF CIS 159.92 - SAFETY LIMIT																									
Spatial Peak																									
Uncontrolled Exposure: General Population																									
																		Head							
																		E ₁ W/kg (avg/g)							
																		averaged over 1 g/m							

Note: To achieve the 15 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 12 dBm.

Table 12-102

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power [dBm]	Power Delt [dB]	Frequency [MHz]	Channel #	U-NII 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 E1 SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported E1 SAR [W/kg]	Exposure Rate [q SAR]	Plot #	Plot [dBm]	Overall Plot [dBm]	
Body-worn	5 GHz WIFW / IEEE 802.11ac	80	OFDM	MMIMO	2933M	90.95	0.07	5750.00	58	U-NII-2A	58.5	12.0	11.96	12.0	11.95	Back	5	0.066	1.245	1.100	0.090	0.056			22.4		
Body-worn	5 GHz WIFW / IEEE 802.11ac	80	OFDM	MMIMO	2933M	90.95	0.07	5750.00	106	U-NII-2C	58.5	12.0	11.91	12.0	11.96	Back	5	0.232	1.205	1.100	0.294	0.184			47.3		
Body-worn	5 GHz WIFW / IEEE 802.11ac	80	OFDM	MMIMO	2933M	90.95	0.07	5750.00	110	U-NII-2C	58.5	12.0	11.91	12.0	11.96	Back	5	0.232	1.205	1.100	0.294	0.184			47.3		
Body-worn/Hotspot	5 GHz WIFW / IEEE 802.11ac	80	OFDM	MMIMO	2933M	90.95	0.03	5260.00	42	U-NII-1	58.5	12.0	11.61	12.0	11.62	Back	5	0.118	1.253	1.100	0.330	0.188			17.7		
Body-worn/Hotspot	5 GHz WIFW / IEEE 802.11ac	80	OFDM	MMIMO	2933M	90.95	0.03	5775.00	155	U-NII-3	58.5	12.0	11.42	12.0	11.87	Back	5	0.212	1.291	1.100	0.266	0.166			17.7		
Hotspot	5 GHz WIFW / IEEE 802.11ac	80	OFDM	MMIMO	2933M	90.95	0.03	5260.00	42	U-NII-1	58.5	12.0	11.61	12.0	11.62	Front	10	0.123	1.253	1.100	0.156	0.105			18.2		
Hotspot	5 GHz WIFW / IEEE 802.11ac	85	OFDM	MMIMO	2933M	90.95	0.03	5775.00	155	U-NII-3	58.5	12.0	11.27	12.0	11.87	Front	5	0.104	1.197	1.100	0.137	0.085			20.5	17.2	
Hotspot	5 GHz WIFW / IEEE 802.11ac	85	OFDM	MMIMO	2933M	90.95	0.03	5775.00	155	U-NII-3	58.5	12.0	11.27	12.0	11.87	Top	10	0.083	1.253	1.100	0.093	0.063			21.1		
Hotspot	5 GHz WIFW / IEEE 802.11ac	85	OFDM	MMIMO	2933M	90.95	0.02	5775.00	155	U-NII-3	58.5	12.0	11.27	12.0	11.87	Top	10	0.042	1.197	1.100	0.035	0.034			24.6		
Hotspot	5 GHz WIFW / IEEE 802.11ac	85	OFDM	MMIMO	2933M	90.95	0.05	6210.00	42	U-NII-1	58.5	12.0	11.61	12.0	11.62	Left	10	0.000	1.253	1.100	0.000	0.000			50.6		
Hotspot	5 GHz WIFW / IEEE 802.11ac	85	OFDM	MMIMO	2933M	90.95	0.09	5775.00	155	U-NII-3	58.5	12.0	11.91	12.0	11.92	Right	10	0.004	1.197	1.100	0.001	0.001			50.6		
Hotspot	5 GHz WIFW / IEEE 802.11ac	85	OFDM	MMIMO	2933M	90.95	0.03	6210.00	42	U-NII-1	58.5	12.0	11.61	12.0	11.62	Right	10	0.044	1.253	1.100	0.061	0.038			24.1		
Hotspot	5 GHz WIFW / IEEE 802.11ac	80	OFDM	MMIMO	2933M	90.95	0.07	5775.00	155	U-NII-3	58.5	12.0	11.32	12.0	11.87	Left	10	0.007	1.100	0.036	0.023				36.4		
ANQ/EUTRA CEN 1.1092 - SAFETY LIMIT																				Spatial Peak				Body			
Unintentional Exposure - General Population																				averaged over 1 g/m				1.6 W/kg (mW/g)			

Note: To achieve the 15 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 12 dBm.

Table 12-103 | Plot A50

Exposure	Band / Mode	Bandwidth [nm]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power DfB [dBm]	Frequency [GHz]	Channel #	N-Ref Band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Max Allowed Power (2nd ant) [dBm]	Conducted Power (2nd ant) [dBm]	Tilt Position	Spacing [mm]	Measured Sfg Lat [dBSM]	Power Scaling factor	Cycle Skewing Factor	Reported Sfg Lat [dBSM]	Exposure Rate [DjG SatS]	Pilot #	FIMT [dBm]	Overall PIMT [dBm]		
Phubtest	5 GHz WIFW IEEE 802.11ac	80	OFDM	MIMO	2976AM	90.95	-0.04	5280.00	58	U-NII-3A	58.5	12.0	+11.88	12.0	+11.95	Back	0	0.193	1.248	1.100	0.400	0.100	21.9				
	5 GHz WIFW IEEE 802.11ac	80	OFDM	MIMO	2976AM	90.95	-0.05	5550.00	106	U-NII-2C	58.5	12.0	+11.39	12.0	+11.66	Back	0	0.185	1.205	1.100	0.253	0.061	21.9				
	5 GHz WIFW IEEE 802.11ac	80	OFDM	MIMO	2976AM	90.95	0.06	5855.00	173	U-NII-4A	58.5	12.0	+11.14	12.0	+11.33	Front	0	0.127	1.210	1.100	0.170	0.043	23.6				
	5 GHz WIFW IEEE 802.11ac	80	OFDM	MIMO	2976AM	90.95	0.06	5280.00	58	U-NII-3C	58.5	12.0	+11.88	12.0	+11.95	Front	0	0.193	1.248	1.100	0.400	0.100	21.9				
	5 GHz WIFW IEEE 802.11ac	80	OFDM	MIMO	2976AM	90.95	0.09	5550.00	106	U-NII-2C	58.5	12.0	+11.14	12.0	+11.56	Back	0	0.127	1.205	1.100	0.278	0.057	22.4				
	5 GHz WIFW IEEE 802.11ac	80	OFDM	MIMO	2976AM	90.95	0.04	5855.00	173	U-NII-4A	58.5	12.0	+11.14	12.0	+11.33	Front	0	0.109	1.210	1.100	0.138	0.035	24.5				
	5 GHz WIFW IEEE 802.11ac	80	OFDM	MIMO	2976AM	90.95	0.06	5280.00	58	U-NII-3A	58.5	12.0	+11.88	12.0	+11.95	Top	0	0.193	1.248	1.100	0.400	0.100	21.9				
	5 GHz WIFW IEEE 802.11ac	80	OFDM	MIMO	2976AM	90.95	-0.12	5300.00	106	U-NII-2C	58.5	12.0	+11.49	12.0	+11.56	Top	0	0.085	1.205	1.100	0.133	0.028	25.4				
	5 GHz WIFW IEEE 802.11ac	80	OFDM	MIMO	2976AM	90.95	-0.03	5855.00	173	U-NII-4A	58.5	12.0	+11.14	12.0	+11.33	Top	0	0.074	1.210	1.100	0.099	0.025	26.0				
	5 GHz WIFW IEEE 802.11ac	80	OFDM	MIMO	2976AM	90.95	0.10	5280.00	58	U-NII-3A	58.5	12.0	+11.88	12.0	+11.95	Right	0	0.193	1.248	1.100	0.400	0.100	21.9				
	5 GHz WIFW IEEE 802.11ac	80	OFDM	MIMO	2976AM	90.95	0.05	5550.00	106	U-NII-2C	58.5	12.0	+11.49	12.0	+11.56	Right	0	0.014	1.205	1.100	0.039	0.005	33.2				
	5 GHz WIFW IEEE 802.11ac	80	OFDM	MIMO	2976AM	90.95	0.06	5280.00	58	U-NII-2A	58.5	12.0	+11.66	12.0	+11.85	Left	0	0.089	1.245	1.100	0.341	0.130	Pilot	18.6			
5 GHz WIFW IEEE 802.11ac	80	OFDM	MIMO	2976AM	90.95	0.09	5300.00	106	U-NII-2C	58.5	12.0	+11.39	12.0	+11.56	Left	0	0.133	1.205	1.100	0.444	0.110	19.5					
Phubtest	5 GHz WIFW IEEE 802.11ac	80	OFDM	MIMO	2976AM	90.95	0.08	5855.00	173	U-NII-4A	58.5	12.0	+11.14	12.0	+11.33	Left	0	0.128	1.210	1.100	0.440	0.110	19.5				
Uncontrolled Exposure/Spatial Peak																								4.6 W/m ² @ 10 m		Spatial Peak	
Uncontrolled Exposure/General Population																								averaged over 10 grams		General Population	
Note: To achieve the 15 dBm maximum allowed MPE, power shown in the documentation, each antenna transmits at a maximum allowed power of 12 dBm.																											

Note: To achieve the 15 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 12 dBm.

12.23 6 GHz WIFI SISO Standalone SAR

Table 12-104

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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Head	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	G	2846M	99.65	0.07	6025.00	15	68.1	10.0	8.74	Right Cheek	0	0.074	1.337	1.004	0.099	0.062	29.0	18.0	
Head	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	G	2846M	99.65	0.15	6345.00	79	68.1	10.0	8.90	Right Cheek	0	0.121	1.388	1.004	0.158	0.089	29.6		
Head	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	G	2846M	99.65	0.01	6505.00	111	68.1	10.0	9.25	Right Cheek	0	0.131	1.189	1.004	0.156	0.089	18.0		
Head	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	G	2846M	99.65	0.17	6665.00	143	68.1	10.0	8.83	Right Cheek	0	0.102	1.309	1.004	0.134	0.084	18.7		
Head	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	G	2846M	99.65	0.05	6985.00	207	68.1	10.0	8.80	Right Cheek	0	0.118	1.168	1.004	0.107	0.054	20.4		
Head	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	G	2846M	99.65	0.06	6505.00	111	68.1	10.0	9.25	Right Tilt	0	0.093	1.189	1.004	0.039	0.024	24.0		
Head	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	G	2846M	99.65	0.08	6505.00	111	68.1	10.0	9.25	Left Cheek	0	0.026	1.189	1.004	0.031	0.019	25.0		
Head	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	G	2846M	99.65	0.05	6505.00	111	68.1	10.0	9.25	Left Tilt	0	0.005	1.189	1.004	0.006	0.004	32.2		
ANSI/IEEE C95.1-1992 - SAFETY LIMIT																Head						
Spatial Peak																1.6 W/kg (mW/g)						
Uncontrolled Exposure/General Population																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 APO [W/(cm²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APO [W/(cm²)]	APO Exposure Ratio	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Head	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	G	2846M	99.65	0.07	6025.00	15	68.1	10.0	8.74	Right Cheek	0	0.505	1.337	1.004	0.673	0.034	22.7	21.2	
Head	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	G	2846M	99.65	0.15	6345.00	79	68.1	10.0	8.90	Right Cheek	0	0.728	1.288	1.004	0.941	0.047	21.2		
Head	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	G	2846M	99.65	0.01	6520.00	111	68.1	10.0	9.25	Right Cheek	0	0.752	1.189	1.004	0.897	0.045	21.4		
Head	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	G	2846M	99.65	0.17	6665.00	143	68.1	10.0	8.83	Right Cheek	0	0.540	1.309	1.004	0.710	0.036	22.4		
Head	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	G	2846M	99.65	0.05	6985.00	207	68.1	10.0	8.80	Right Cheek	0	0.346	1.118	1.004	0.458	0.023	24.4		
Head	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	G	2846M	99.65	0.06	6505.00	111	68.1	10.0	9.25	Right Tilt	0	0.193	1.189	1.004	0.230	0.012	27.7		
Head	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	G	2846M	99.65	0.08	6505.00	111	68.1	10.0	9.25	Left Cheek	0	0.144	1.189	1.004	0.172	0.009	28.6		
Head	6 GHz WiFi/ IEEE 802.11ax	160	OFDM	G	2846M	99.65	0.05	6505.00	111	68.1	10.0	9.25	Left Tilt	0	0.005	1.189	1.004	0.006	0.004	32.2		
ANSI/IEEE C95.1-1992 - SAFETY LIMIT																Head						
Spatial Peak																1.6 W/kg (mW/g)						
Uncontrolled Exposure/General Population																averaged over 1 gram						

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Table 12-105

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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Head	6 GHz WUFI / IEEE 802.11ax	160	OFDM	E	2806M	99.65	0.04	6505.00	111	68.1	10.0	9.41	Right Cheek	0	0.129	1.146	1.004	0.148	0.093		18.2	17.8
Head	6 GHz WUFI / IEEE 802.11ax	160	OFDM	E	2806M	99.65	0.05	6505.00	111	68.1	10.0	9.41	Right Tilt	0	0.119	1.146	1.004	0.136	0.085		18.6	
Head	6 GHz WUFI / IEEE 802.11ax	160	OFDM	E	2846M	99.65	0.06	6505.00	111	68.1	10.0	9.41	Left Cheek	0	0.144	1.146	1.004	0.166	0.104		17.8	
Head	6 GHz WUFI / IEEE 802.11ax	160	OFDM	E	2846M	99.65	0.01	6505.00	111	68.1	10.0	9.41	Left Tilt	0	0.141	1.146	1.004	0.162	0.101		17.9	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT													Head 1.6 W/kg (mW/g) averaged over 1 gram									
Spatial Peak Uncontrolled Exposure/General Population																						
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)]	APD Exposure Ratio	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Head	6 GHz WUFI / IEEE 802.11ax	160	OFDM	E	2806M	99.65	0.04	6505.00	111	68.1	10.0	9.41	Right Cheek	0	0.810	1.146	1.004	0.932	0.047		21.3	20.6
Head	6 GHz WUFI / IEEE 802.11ax	160	OFDM	E	2806M	99.65	0.05	6505.00	111	68.1	10.0	9.41	Right Tilt	0	0.746	1.146	1.004	0.858	0.043		21.6	
Head	6 GHz WUFI / IEEE 802.11ax	160	OFDM	E	2846M	99.65	0.06	6505.00	111	68.1	10.0	9.41	Left Cheek	0	0.941	1.146	1.004	1.084	0.054		20.6	
Head	6 GHz WUFI / IEEE 802.11ax	160	OFDM	E	2846M	99.65	0.01	6505.00	111	68.1	10.0	9.41	Left Tilt	0	0.928	1.146	1.004	1.068	0.053		20.7	

Table 12-106

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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body-worn/hotspot	6 GHz WUFI / IEEE 802.11ax	160	OFDM	G	2846M	99.65	0.03	6505.00	111	68.1	10.0	9.25	Back	5	0.056	1.189	1.004	0.067	0.042		21.7	21.7
Hotspot	6 GHz WUFI / IEEE 802.11ax	160	OFDM	G	2846M	99.65	0.07	6505.00	111	68.1	10.0	9.25	Front	5	0.044	1.189	1.004	0.053	0.033		22.8	
Hotspot	6 GHz WUFI / IEEE 802.11ax	160	OFDM	G	2846M	99.65	0.03	6505.00	111	68.1	10.0	9.25	Top	10	0.012	1.189	1.004	0.014	0.009		28.4	
Hotspot	6 GHz WUFI / IEEE 802.11ax	160	OFDM	G	2846M	99.65	0.08	6505.00	111	68.1	10.0	9.25	Left	10	0.039	1.189	1.004	0.047	0.029		23.3	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																						
Spatial Peak													Body									
Uncontrolled Exposure/General Population													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)]	APD Exposure Ratio	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body-worn/hotspot	6 GHz WUFI / IEEE 802.11ax	160	OFDM	G	2846M	99.65	0.03	6505.00	111	68.1	10.0	9.25	Back	5	0.399	1.189	1.004	0.476	0.024		24.2	24.2
Hotspot	6 GHz WUFI / IEEE 802.11ax	160	OFDM	G	2846M	99.65	0.07	6505.00	111	68.1	10.0	9.25	Front	5	0.289	1.189	1.004	0.345	0.017		25.6	
Hotspot	6 GHz WUFI / IEEE 802.11ax	160	OFDM	G	2846M	99.65	0.03	6505.00	111	68.1	10.0	9.25	Top	10	0.055	1.189	1.004	0.125	0.006		30.0	
Hotspot	6 GHz WUFI / IEEE 802.11ax	160	OFDM	G	2846M	99.65	0.08	6505.00	111	68.1	10.0	9.25	Left	10	0.299	1.189	1.004	0.357	0.018		25.4	

Table 12-107

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]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body-worn/hotspot	6 GHz WUFI / IEEE 802.11ax	160	OFDM	E	2846M	99.65	0.06	6505.00	15	68.1	10.0	8.74	Back	5	0.117	1.137	1.004	0.157	0.098		18.0	15.8
Body-worn/hotspot	6 GHz WUFI / IEEE 802.11ax	160	OFDM	E	2846M	99.65	0.08	6345.00	79	68.1	10.0	9.07	Back	5	0.164	1.239	1.004	0.204	0.128		16.9	
Body-worn/hotspot	6 GHz WUFI / IEEE 802.11ax	160	OFDM	E	2846M	99.65	0.04	6505.00	111	68.1	10.0	9.41	Back	5	0.216	1.146	1.004	0.249	0.156		16.0	
Body-worn/hotspot	6 GHz WUFI / IEEE 802.11ax	160	OFDM	E	2846M	99.65	-0.20	6665.00	143	68.1	10.0	9.12	Back	5	0.140	1.225	1.004	0.182	0.093		18.3	
Body-worn/hotspot	6 GHz WUFI / IEEE 802.11ax	160	OFDM	E	2846M	99.65	-0.21	6985.00	207	68.1	10.0	9.00	Back	5	0.185	1.259	1.004	0.238	0.145		16.2	
Hotspot	6 GHz WUFI / IEEE 802.11ax	160	OFDM	E	2846M	99.65	0.03	6505.00	111	68.1	10.0	9.41	Front	5	0.046	1.146	1.004	0.053	0.033		22.7	
Hotspot	6 GHz WUFI / IEEE 802.11ax	160	OFDM	E	2846M	99.65	0.05	6505.00	111	68.1	10.0	9.41	Top	10	0.024	1.146	1.004	0.060	0.038		22.2	
Hotspot	6 GHz WUFI / IEEE 802.11ax	160	OFDM	E	2846M	99.65	0.05	6505.00	111	68.1	10.0	9.41	Right	10	0.005	1.146	1.004	0.000	0.000		49.3	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT															Body		1.6 W/kg (mW/g)					
Spatial Peak Uncontrolled Exposure/General Population															averaged over 1 gram							

Table 12-108

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]	Exposure Ratio (10g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Phablet	6GHz WUFI / IEEE 802.11ax	160	OFDM	G	2846M	99.65	0.05	6505.00	111	68.1	10.0	9.25	Back	0	0.105	1.189	1.004	0.125	0.031		23.0	21.0
Phablet	6GHz WUFI / IEEE 802.11ax	160	OFDM	G	2846M	99.65	0.07	6505.00	111	68.1	10.0	9.25	Front	0	0.061	1.189	1.004	0.073	0.018		25.3	
Phablet	6GHz WUFI / IEEE 802.11ax	160	OFDM	G	2846M	99.65	0.06	6505.00	111	68.1	10.0	9.25	Top	0	0.014	1.189	1.004	0.017	0.004		31.7	
Phablet	6GHz WUFI / IEEE 802.11ax	160	OFDM	G	2956M	99.65	0.04	6505.00	15	68.1	10.0	8.74	Left	0	0.123	1.137	1.004	0.165	0.041		21.8	
Phablet	6GHz WUFI / IEEE 802.11ax	160	OFDM	G	2957M	99.65	0.03	6345.00	79	68.1	10.0	8.90	Left	0	0.151	1.288	1.004	0.195	0.049		21.0	
Phablet	6GHz WUFI / IEEE 802.11ax	160	OFDM	G	2957M	99.65	0.09	6505.00	111	68.1	10.0	9.25	Left	0	0.161	1.189	1.004	0.192	0.048		21.1	
Phablet	6GHz WUFI / IEEE 802.11ax	160	OFDM	G	2957M	99.65	0.09	6665.00	143	68.1	10.0	8.83	Left	0	0.122	1.309	1.004	0.160	0.040		21.9	
Phablet	6GHz WUFI / IEEE 802.11ax	160	OFDM	G	2957M	99.65	0.06	6985.00	207	68.1	10.0	8.80	Left	0	0.065	1.318	1.004	0.086	0.022		24.6	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT															Phablet		4.0 W/kg (mW/g)					
Spatial Peak 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/m ² /4cm ²]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APD [W/m ² /4cm ²]	APD Exposure Ratio	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Phablet	6GHz WUFI / IEEE 802.11ax	160	OFDM	G	2846M	99.65	0.05	6505.00	111	68.1	10.0	9.25	Back	0	2.420	1.189	1.004	2.889	0.144		16.4	14.3
Phablet	6GHz WUFI / IEEE 802.11ax	160	OFDM	G	2846M	99.65	0.07	6505.00	111	68.1	10.0	9.25	Front	0	1.430	1.189	1.004	1.707	0.085		18.6	
Phablet	6GHz WUFI / IEEE 802.11ax	160	OFDM	G	2846M	99.65	0.06	6505.00	111	68.1	10.0	9.25	Top	0	0.335	1.189	1.004	0.400	0.020		24.9	
Phablet	6GHz WUFI / IEEE 802.11ax	160	OFDM	G	2956M	99.65	0.04	6505.00	15	68.1	10.0	8.74	Left	0	2.889	1.137	1.004	3.865	0.193		15.1	
Phablet	6GHz WUFI / IEEE 802.11ax	160	OFDM	G	2957M	99.65	0.03	6345.00	79	68.1	10.0	8.90	Left	0	3.550	1.288	1.004	4.591	0.230		14.3	
Phablet	6GHz WUFI / IEEE 802.11ax	160	OFDM	G	2957M	99.65	0.09	6505.00	111	68.1	10.0	9.25	Left	0	3.800	1.189	1.004	4.536	0.227		14.4	
Phablet	6GHz WUFI / IEEE 802.11ax	160	OFDM	G	2957M	99.65	0.09	6665.00	143	68.1	10.0	8.83	Left	0	2.890	1.309	1.004	3.798	0.190		15.2	
Phablet	6GHz WUFI / IEEE 802.11ax	160	OFDM	G	2957M	99.65	0.06	6985.00	207	68.1	10.0	8.80	Left	0	1.561	1.318	1.004	1.938	0.102		17.9	

Table 12-109

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]	Exposure Ratio (1g SAR)	Plot #	Limit [dBm]	Overall Limit [dBm]
Phablet	6 GHz W/FW / IEEE 802.11ax	160	OFDM	E	2957M	99.65	0.05	6025.00	15	68.1	10.0	8.74	Back	0	0.882	1.337	1.004	0.110	0.038		23.5	22.1
Phablet	6 GHz W/FW / IEEE 802.11ax	160	OFDM	E	2957M	99.65	0.05	6345.00	79	68.1	10.0	9.07	Back	0	0.590	1.239	1.004	0.124	0.031		23.0	
Phablet	6 GHz W/FW / IEEE 802.11ax	160	OFDM	E	2957M	99.65	0.05	6505.00	111	68.1	10.0	9.41	Back	0	0.694	1.146	1.004	0.108	0.027		23.6	
Phablet	6 GHz W/FW / IEEE 802.11ax	160	OFDM	E	2957M	99.65	0.05	6665.00	143	68.1	10.0	9.12	Back	0	0.118	1.225	1.004	0.145	0.036		22.9	
Phablet	6 GHz W/FW / IEEE 802.11ax	160	OFDM	E	2957M	99.65	0.06	6885.00	207	68.1	10.0	9.80	Back	0	0.127	1.259	1.004	0.154	0.039		22.1	
Phablet	6 GHz W/FW / IEEE 802.11ax	160	OFDM	E	2957M	99.65	0.09	6505.00	111	68.1	10.0	9.41	Front	0	0.026	1.146	1.004	0.030	0.008		29.2	
Phablet	6 GHz W/FW / IEEE 802.11ax	160	OFDM	E	2957M	99.65	0.06	6505.00	111	68.1	10.0	9.41	Top	0	0.051	1.146	1.004	0.061	0.015		26.1	
Phablet	6 GHz W/FW / IEEE 802.11ax	160	OFDM	E	2957M	99.65	0.04	6505.00	111	68.1	10.0	9.41	Right	0	0.009	1.146	1.004	0.009	0.000		41.3	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT														Phablet 4.0 W/kg (mW/g) averaged over 10 grams								
Spatial Peak Uncontrolled Exposure/General Population																						

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 (dcm²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APD [W/m² (dcm²)]	APD Exposure Ratio	Plot #	Limit [dBm]	Overall Limit [dBm]
Phablet	6 GHz W/FW / IEEE 802.11ax	160	OFDM	E	2957M	99.65	0.05	6025.00	15	68.1	10.0	8.74	Back	0	1.850	1.337	1.004	2.483	0.124		17.0	15.5
Phablet	6 GHz W/FW / IEEE 802.11ax	160	OFDM	E	2957M	99.65	0.05	6345.00	79	68.1	10.0	9.07	Back	0	2.270	1.239	1.004	2.824	0.141		16.9	
Phablet	6 GHz W/FW / IEEE 802.11ax	160	OFDM	E	2957M	99.65	0.05	6505.00	111	68.1	10.0	9.41	Back	0	2.150	1.146	1.004	2.474	0.124		17.0	
Phablet	6 GHz W/FW / IEEE 802.11ax	160	OFDM	E	2957M	99.65	0.09	6665.00	143	68.1	10.0	9.12	Back	0	2.690	1.225	1.004	3.308	0.160		15.8	
Phablet	6 GHz W/FW / IEEE 802.11ax	160	OFDM	E	2957M	99.65	0.06	6885.00	207	68.1	10.0	9.80	Back	0	2.810	1.259	1.004	3.552	0.176		15.9	
Phablet	6 GHz W/FW / IEEE 802.11ax	160	OFDM	E	2957M	99.65	0.09	6505.00	111	68.1	10.0	9.41	Front	0	0.518	1.146	1.004	0.661	0.031		22.7	
Phablet	6 GHz W/FW / IEEE 802.11ax	160	OFDM	E	2957M	99.65	0.06	6505.00	111	68.1	10.0	9.41	Top	0	1.200	1.146	1.004	1.381	0.069		19.6	
Phablet	6 GHz W/FW / IEEE 802.11ax	160	OFDM	E	2957M	99.65	0.04	6505.00	111	68.1	10.0	9.41	Right	0	0.008	1.146	1.004	0.009	0.000		41.3	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT														Head 1.6 W/kg (mW/g) averaged over 10 grams								
Spatial Peak Uncontrolled Exposure/General Population																						

12.24 6 GHz WIFI MIMO Standalone SAR

Table 12-110 | Plot A51

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]	Exposure Ratio (1g SAR)	Plot #	Limit [dBm]	Overall Limit [dBm]
Head	6 GHz W/FW / IEEE 802.11ax	160	OFDM	MIMO	2846M	99.65	-0.10	6505.00	111	136.1	10.0	9.30	10.0	9.46	Right Cheek	0	0.179	1.175	1.004	0.211	0.132	Plot	16.7	16.7
Head	6 GHz W/FW / IEEE 802.11ax	160	OFDM	MIMO	2846M	99.65	-0.03	6505.00	111	136.1	10.0	9.30	10.0	9.46	Right TIR	0	0.141	1.175	1.004	0.166	0.104		17.2	
Head	6 GHz W/FW / IEEE 802.11ax	160	OFDM	MIMO	2846M	99.65	-0.14	6505.00	111	136.1	10.0	9.30	10.0	9.46	Left Cheek	0	0.145	1.175	1.004	0.177	0.107		17.6	
Head	6 GHz W/FW / IEEE 802.11ax	160	OFDM	MIMO	2846M	99.65	-0.07	6505.00	111	136.1	10.0	9.30	10.0	9.46	Left TIR	0	0.128	1.175	1.004	0.151	0.094		18.2	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT														Head 1.6 W/kg (mW/g) averaged over 10 grams										
Spatial Peak Uncontrolled Exposure/General Population																								

Note: To achieve the 13 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 10 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]	Conducted Power [dBm]	Max Allowed Power (2nd ant) [dBm]	Conducted Power (2nd ant) [dBm]	Test Position	Spacing [mm]	Measured APD [W/(kg/(dcm²))]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APD [W/(kg/(dcm²))]	APD Exposure Ratio	Plot #	Limit [dBm]	Overall Limit [dBm]
Head	6 GHz W/FW / IEEE 802.11ax	160	OFDM	MIMO	2846M	99.65	-0.10	6505.00	111	136.1	10.0	9.30	10.0	9.46	Right Cheek	0	1.290	1.175	1.004	1.475	0.074		19.3	19.3
Head	6 GHz W/FW / IEEE 802.11ax	160	OFDM	MIMO	2846M	99.65	-0.03	6505.00	111	136.1	10.0	9.30	10.0	9.46	Right Tilt	0	0.944	1.175	1.004	1.144	0.056		20.1	
Head	6 GHz W/FW / IEEE 802.11ax	160	OFDM	MIMO	2846M	99.65	-0.14	6505.00	111	136.1	10.0	9.30	10.0	9.46	Left Cheek	0	0.903	1.175	1.004	1.065	0.053		20.7	
Head	6 GHz W/FW / IEEE 802.11ax	160	OFDM	MIMO	2846M	99.65	-0.07	6505.00	111	136.1	10.0	9.30	10.0	9.46	Left Tilt	0	0.835	1.175	1.004	0.985	0.049		21.0	
Note: To achieve the 13 dBm maximum allowed MIMO power shown in the accompanying graphs, each antenna must radiate a minimum allowed power of 10 dBm.																								

Note: To achieve the 13 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 10 dBm.

Table 12-111 | Plot A52

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]	Exposure Ratio (1g SAR)	Plot #	Limit [dBm]	Overall Limit [dBm]
Body worn/Hotspot	6 GHz W/FW / IEEE 802.11ax	160	OFDM	MIMO	2846M	99.65	0.01	6025.00	15	136.1	10.0	8.78	10.0	8.81	Back	5	0.126	1.324	1.004	0.167	0.104		17.7	15.5
Body worn/Hotspot	6 GHz W/FW / IEEE 802.11ax	160	OFDM	MIMO	2846M	99.65	0.03	6345.00	79	136.1	10.0	9.10	10.0	9.17	Back	5	0.201	1.230	1.004	0.248	0.155		18.0	
Body worn/Hotspot	6 GHz W/FW / IEEE 802.11ax	160	OFDM	MIMO	2846M	99.65	0.07	6505.00	111	136.1	10.0	9.30	10.0	9.46	Back	5	0.175	1.175	1.004	0.277	0.171	Plot	17.7	
Body worn/Hotspot	6 GHz W/FW / IEEE 802.11ax	160	OFDM	MIMO	2846M	99.65	0.09	6665.00	143	136.1	10.0	8.83	10.0	9.20	Back	5	0.213	1.309	1.004	0.280	0.175		15.5	
Body worn/Hotspot	6 GHz W/FW / IEEE 802.11ax	160	OFDM	MIMO	2846M	99.65	0.06	6885.00	207	136.1	10.0	8.86	10.0	9.30	Back	5	0.188	1.300	1.004	0.258	0.161		15.8	
Hotspot	6 GHz W/FW / IEEE 802.11ax	160	OFDM	MIMO	2846M	99.65	0.03	6505.00	111	136.1	10.0	9.30	10.0	9.46	Front	5	0.089	1.175	1.004	0.091	0.061		20.8	
Hotspot	6 GHz W/FW / IEEE 802.11ax	160	OFDM	MIMO	2846M	99.65	0.01	6505.00	111	136.1	10.0	9.30	10.0	9.46	Top	10	0.055	1.175	1.004	0.065	0.041		21.8	
Hotspot	6 GHz W/FW / IEEE 802.11ax	160	OFDM	MIMO	2846M	99.65	0.07	6505.00	111	136.1	10.0	9.30	10.0	9.46	Right	10	0.040	1.175	1.004	0.040	0.030		49.2	
Hotspot	6 GHz W/FW / IEEE 802.11ax	160	OFDM	MIMO	2846M	99.65	0.01	6505.00	111	136.1	10.0	9.30	10.0	9.46	Left	10	0.002	1.175	1.004	0.002	0.008		22.1	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT														Body 1.6 W/kg (mW/g) averaged over 1 gram										
Spatial Peak Uncontrolled Exposure/General Population																								

average over 1 gram																								
To achieve the 11 dBm maximum allowed MIMO power shown in the documentation, each antenna must be at a maximum allowed power of 10 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]	Conducted Power [dBm]	Max Allowed Power (2nd ant) [dBm]	Conducted Power (2nd ant) [dBm]	Test Position	Spacing [mm]	Measured APD [W/m² (dcm²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APD [W/m² (dcm²)]	APD Exposure Ratio	Plot #	Limit [dBm]	Overall Limit [dBm]
Body worn/Hotspot	6 GHz W/FW / IEEE 802.11ax	160	OFDM	MIMO	2846M	99.65	0.01	6025.00	15	136.1	10.0	8.78	10.0	8.81	Back	5	0.935	1.324	1.004	1.243	0.062		20.0	17.7
Body worn/Hotspot	6 GHz W/FW / IEEE 802.11ax	160	OFDM	MIMO	2846M	99.65	0.01	6345.00	79	136.1	10.0	9.10	10.0	9.17	Back	5	1.370	1.230	1.004	1.939	0.097		18.1	
Body worn/Hotspot	6 GHz W/FW / IEEE 802.11ax	160	OFDM	MIMO	2846M	99.65	0.07	6505.00	111	136.1	10.0	9.30	10.0	9.46	Back	5	1.790	1.175	1.004	2.112	0.106		17.7	
Body worn/Hotspot	6 GHz W/FW / IEEE 802.11ax	160	OFDM	MIMO	2846M	99.65	0.07	6665.00	143	136.1	10.0	9.83	10.0	9.96	Back	5	2.560	2.060	1.003	2.788	0.133		17.8	
Body worn/Hotspot	6 GHz W/FW / IEEE 802.11ax	160	OFDM	MIMO	2846M	99.65	0.08	6985.00	207	136.1	10.0	10.86	10.0	10.90	Back	5	1.240	1.300	1.004	1.618	0.081		18.5	
Hotspot	6 GHz W/FW / IEEE 802.11ax	160	OFDM	MIMO	2846M	99.65	0.05	6505.00	111	136.1	10.0	9.30	10.0	9.46	Front	10	0.947	1.175	1.004	1.266	0.062		23.5	
Hotspot	6 GHz W/FW / IEEE 802.11ax	160	OFDM	MIMO	2846M	99.65	0.03	6505.00	111	136.1	10.0	9.30	10.0	9.46	Front	10	0.687	1.175	1.004	0.957	0.026		23.7	
Hotspot	6 GHz W/FW / IEEE 802.11ax	160	OFDM	MIMO	2846M	99.65	0.07	6505.00	111	136.1	10.0	9.30	10.0	9.46	Front	10	0.026	1.175	1.004	0.005	0.000		44.2	
Hotspot	6 GHz W/FW / IEEE 802.11ax	160	OFDM	MIMO	2846M	99.65	0.05	6505.00	111	136.1	10.0	9.30	10.0	9.46	Front	10	0.048	1.175	1.004	0.005	0.000		44.2	
Hotspot	6 GHz W/FW / IEEE 802.11ax	160	OFDM	MIMO	2846M	99.65	0.05	6505.00	111	136.1	10.0	9.30	10.0	9.46	Front	10	0.048	1.175	1.004	0.005	0.000		44.2	

Table 12-112 | Plot A53

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]	Exposure Ratio (1g SAR)	Plot #	Pinnt [dBm]	Overall Plimit [dBm]
Phablet	6 GHz WiFi / IEEE 802.11ax	160	OFDM	MIMO	2957M	99.65	0.01	6505.00	111	136.1	10.0	9.30	10.0	9.46	Back	0	0.130	1.175	1.004	0.151	0.038		22.1	
Phablet	6 GHz WiFi / IEEE 802.11ax	160	OFDM	MIMO	2957M	99.65	0.08	6505.00	111	136.1	10.0	9.30	10.0	9.46	Front	0	0.080	1.175	1.004	0.094	0.024		24.5	
Phablet	6 GHz WiFi / IEEE 802.11ax	160	OFDM	MIMO	2957M	99.65	-0.20	6505.00	111	136.1	10.0	9.30	10.0	9.46	Top	0	0.050	1.175	1.004	0.059	0.015		26.2	
Phablet	6 GHz WiFi / IEEE 802.11ax	160	OFDM	MIMO	2957M	99.65	0.01	6505.00	111	136.1	10.0	9.30	10.0	9.46	Right	0	0.040	1.175	1.004	0.030	0.000		53.2	
Phablet	6 GHz WiFi / IEEE 802.11ax	160	OFDM	MIMO	2957M	99.65	0.01	6505.00	15	136.1	10.0	9.78	10.0	8.81	Left	0	0.151	1.324	1.004	0.201	0.050		20.5	
Phablet	6 GHz WiFi / IEEE 802.11ax	160	OFDM	MIMO	2957M	99.65	0.01	6345.00	79	136.1	10.0	9.10	10.0	9.17	Left	0	0.178	1.230	1.004	0.220	0.055	Plot	20.5	
Phablet	6 GHz WiFi / IEEE 802.11ax	160	OFDM	MIMO	2956M	99.65	-0.13	6505.00	111	136.1	10.0	9.30	10.0	9.46	Left	0	0.136	1.175	1.004	0.160	0.040		21.5	
Phablet	6 GHz WiFi / IEEE 802.11ax	160	OFDM	MIMO	2957M	99.65	0.07	6465.00	143	136.1	10.0	8.81	10.0	9.20	Left	0	0.148	1.309	1.004	0.195	0.049		21.0	
Phablet	6 GHz WiFi / IEEE 802.11ax	160	OFDM	MIMO	2957M	99.65	0.06	6985.00	207	136.1	10.0	8.86	10.0	9.30	Left	0	0.095	1.300	1.004	0.124	0.031		23.0	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																						Phablet 4.0 W/kg (mW/g) averaged over 10 grams		

Note: To achieve the 13 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 10 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]	Conducted Power [dBm]	Max Allowed Power (2nd ant) [dBm]	Conducted Power (2nd ant) [dBm]	Test Position	Spacing [mm]	Measured APD [W/m ² (4cm ²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APD [W/m ² (4cm ²)]	APD Exposure Ratio	Plot #	Pinnt [dBm]	Overall Plimit [dBm]
Phablet	6 GHz WiFi / IEEE 802.11ax	160	OFDM	MIMO	2957M	99.65	0.01	6505.00	111	136.1	10.0	9.30	10.0	9.46	Back	0	2.960	1.175	1.004	3.492	0.175		15.5	
Phablet	6 GHz WiFi / IEEE 802.11ax	160	OFDM	MIMO	2957M	99.65	0.08	6505.00	111	136.1	10.0	9.30	10.0	9.46	Front	0	1.830	1.175	1.004	2.159	0.108		17.6	
Phablet	6 GHz WiFi / IEEE 802.11ax	160	OFDM	MIMO	2957M	99.65	-0.20	6505.00	111	136.1	10.0	9.30	10.0	9.46	Top	0	1.490	1.175	1.004	1.945	0.087		19.7	
Phablet	6 GHz WiFi / IEEE 802.11ax	160	OFDM	MIMO	2957M	99.65	0.01	6505.00	111	136.1	10.0	9.30	10.0	9.46	Right	0	0.015	1.175	1.004	0.018	0.001		88.5	
Phablet	6 GHz WiFi / IEEE 802.11ax	160	OFDM	MIMO	2957M	99.65	0.01	6505.00	15	136.1	10.0	8.78	10.0	8.81	Left	0	1.530	1.324	1.004	4.492	0.235		14.2	
Phablet	6 GHz WiFi / IEEE 802.11ax	160	OFDM	MIMO	2957M	99.65	0.01	6345.00	79	136.1	10.0	9.10	10.0	9.17	Left	0	4.000	1.230	1.004	1.187	0.209		13.8	
Phablet	6 GHz WiFi / IEEE 802.11ax	160	OFDM	MIMO	2956M	99.65	-0.13	6505.00	111	136.1	10.0	9.30	10.0	9.46	Left	0	1.740	1.175	1.004	3.810	0.191		15.2	
Phablet	6 GHz WiFi / IEEE 802.11ax	160	OFDM	MIMO	2957M	99.65	0.07	6465.00	143	136.1	10.0	8.81	10.0	9.20	Left	0	1.470	1.309	1.004	4.560	0.228		14.4	
Phablet	6 GHz WiFi / IEEE 802.11ax	160	OFDM	MIMO	2957M	99.65	0.06	6985.00	207	136.1	10.0	8.86	10.0	9.30	Left	0	2.220	1.300	1.004	2.898	0.145		16.1	
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: To achieve the 13 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 10 dBm.

12.25 BT Standalone SISO SAR

Table 12-113 | Plot A54

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]	Exposure Ratio (1g SAR)	Plot #
Head	2.4 GHz Bluetooth	FHSS	G	2935M	77.1	0.01	2441.00	78	1	15.0	14.02	Right Cheek	0	0.327	1.253	1.025	0.420	0.263	
Head	2.4 GHz Bluetooth LE	DSSS	G	2840M	85.5	0.05	2480.00	39	1	15.0	14.46	Right Cheek	0	0.399	1.132	1.018	0.460	0.288	Plot
Head	2.4 GHz Bluetooth	FHSS	G	2840M	77.1	-0.12	2441.00	78	1	15.0	14.02	Right Tilt	0	0.183	1.253	1.025	0.235	0.147	
Head	2.4 GHz Bluetooth	FHSS	G	2840M	77.1	-0.15	2441.00	78	1	15.0	14.02	Left Cheek	0	0.101	1.253	1.025	0.130	0.081	
Head	2.4 GHz Bluetooth	FHSS	G	2840M	77.1	0.04	2441.00	78	1	15.0	14.02	Left Tilt	0	0.045	1.253	1.025	0.058	0.036	
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 12-114

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]	Exposure Ratio (1g SAR)	Plot #
Head	2.4 GHz Bluetooth	FHSS	I	2840M	77.1	0.08	2441.00	39	1	16.0	15.63	Right Cheek	0	0.121	1.089	1.025	0.135	0.084	
Head	2.4 GHz Bluetooth	FHSS	I	2840M	77.1	0.06	2441.00	39	1	16.0	15.63	Right Tilt	0	0.021	1.089	1.025	0.023	0.014	
Head	2.4 GHz Bluetooth	FHSS	I	2840M	77.1	0.02	2441.00	39	1	16.0	15.63	Left Cheek	0	0.206	1.089	1.025	0.230	0.144	
Head	2.4 GHz Bluetooth LE	DSSS	I	2840M	85.4	-0.03	2480.00	39	1	16.0	15.81	Left Cheek	0	0.277	1.045	1.019	0.242	0.151	
Head	2.4 GHz Bluetooth	FHSS	I	2840M	77.1	0.01	2441.00	39	1	16.0	15.63	Left Tilt	0	0.038	1.089	1.025	0.042	0.026	
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 12-115 | Plot A56

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]	Exposure Ratio (1g SAR)	Plot #
Body-worn	2.4 GHz Bluetooth LE	DSSS	G	2879M	85.50	0.07	2402.00	0	1	16.5	16.08	Back	5	0.219	1.102	1.018	0.246	0.154	
Body-worn/Hotspot	2.4 GHz Bluetooth	FHSS	G	2935M	77.10	0.13	2480.00	78	1	16.5	16.30	Back	5	0.187	1.047	1.025	0.201	0.126	
Hotspot	2.4 GHz Bluetooth	FHSS	G	2974M	77.10	-0.11	2480.00	78	1	16.5	16.30	Front	5	0.460	1.047	1.025	0.494	0.309	Plot
Hotspot	2.4 GHz Bluetooth	FHSS	G	2974M	77.10	0.04	2480.00	78	1	16.5	16.30	Top	10	0.115	1.047	1.025	0.123	0.077	
Hotspot	2.4 GHz Bluetooth	FHSS	G	2974M	77.10	-0.17	2480.00	78	1	16.5	16.30	Left	10	0.268	1.047	1.025	0.288	0.180	
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 | Plot A55

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]	Exposure Ratio (1g SAR)	Plot #
Body-worn	2.4 GHz Bluetooth	FHSS	I	2879M	77.10	-0.19	2480.00	78	1	18.5	18.25	Back	5	0.305	1.059	1.025	0.331	0.207	Plot
Body-worn	2.4 GHz Bluetooth LE	DSSS	I	2879M	85.40	-0.08	2402.00	0	1	18.5	18.36	Back	5	0.142	1.033	1.019	0.149	0.093	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Body 1.6 W/kg (mW/g) averaged over 1 gram		

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Table 12-117

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 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #
Phablet	2.4 GHz Bluetooth LE	DSSS	G	2957M	85.50	-0.05	2402.00	0	1	16.5	16.08	Back	0	0.330	1.102	1.018	0.370	0.093	
Phablet	2.4 GHz Bluetooth LE	DSSS	G	2957M	85.50	-0.05	2402.00	0	1	16.5	16.08	Front	0	0.244	1.102	1.018	0.274	0.069	
Phablet	2.4 GHz Bluetooth LE	DSSS	G	2957M	85.50	-0.08	2402.00	0	1	16.5	16.08	Top	0	0.074	1.102	1.018	0.083	0.021	
Phablet	2.4 GHz Bluetooth LE	DSSS	G	2957M	85.50	-0.02	2402.00	0	1	16.5	16.08	Left	0	0.666	1.102	1.018	0.747	0.187	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population												Phablet 4.0 W/kg (mW/g) averaged over 10 grams							

Table 12-118 | Plot A57

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 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #
Phablet	2.4 GHz Bluetooth LE	DSSS	I	2957M	85.40	0.18	2402.00	0	1	18.5	18.36	Back	0	0.183	1.033	1.019	0.193	0.048	
Phablet	2.4 GHz Bluetooth	FHSS	I	2957M	77.10	0.02	2480.00	78	1	18.5	18.25	Front	0	0.697	1.059	1.025	0.757	0.189	
Phablet	2.4 GHz Bluetooth LE	DSSS	I	2957M	85.40	0.05	2402.00	0	1	18.5	18.36	Front	0	0.861	1.033	1.019	0.906	0.227	Plot
Phablet	2.4 GHz Bluetooth LE	DSSS	I	2957M	85.40	0.05	2402.00	0	1	18.5	18.36	Top	0	0.006	1.033	1.019	0.006	0.002	
Phablet	2.4 GHz Bluetooth LE	DSSS	I	2957M	85.40	0.01	2402.00	0	1	18.5	18.36	Right	0	0.233	1.033	1.019	0.245	0.061	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population												Phablet 4.0 W/kg (mW/g) averaged over 10 grams							

12.26 BT Standalone MIMO SAR

Table 12-119

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]	Exposure Ratio (1g SAR)	Plot #
Head	2.4 GHz Bluetooth	FHSS	MIMO	2840M	77.1	-0.09	2402.00	0	1	14.0	13.31	14.0	13.64	Right Cheek	0	0.260	1.171	1.025	0.312	0.195	
Head	2.4 GHz Bluetooth LE	DSSS	MIMO	2840M	85.5	0.01	2402.00	37	1	14.0	13.64	14.0	13.88	Right Cheek	0	0.311	1.087	1.018	0.344	0.215	
Head	2.4 GHz Bluetooth	FHSS	MIMO	2840M	77.1	0.06	2402.00	0	1	14.0	13.31	14.0	13.64	Right Thigh	0	0.114	1.171	1.025	0.137	0.086	
Head	2.4 GHz Bluetooth	FHSS	MIMO	2840M	77.1	0.06	2402.00	0	1	14.0	13.31	14.0	13.64	Left Cheek	0	0.180	1.171	1.025	0.216	0.135	
Head	2.4 GHz Bluetooth	FHSS	MIMO	2840M	77.1	0.08	2402.00	0	1	14.0	13.31	14.0	13.64	Left Thigh	0	0.042	1.171	1.025	0.050	0.031	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT												Head									
Spatial Peak												1.6 W/kg (mW/g)									
Uncontrolled Exposure/General Population												averaged over 1 gram									
Note: To achieve the 17 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 14 dBm.																					

Table 12-120

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]	Exposure Ratio (1g SAR)	Plot #
Body-worn	2.4 GHz Bluetooth	FHSS	MIMO	2957M	77.10	-0.02	2402.00	0	1	14.0	13.31	14.0	13.64	Back	5	0.162	1.172	1.025	0.195	0.122	122
Body-worn	2.4 GHz Bluetooth LE	DSSS	MIMO	2879M	85.50	-0.03	2402.00	0	1	14.0	13.64	14.0	13.88	Back	5	0.271	1.087	1.018	0.300	0.188	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population												Body 1.6 W/kg (mW/g) averaged over 1 gram									

Note: To achieve the 17 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 14 dBm.

Table 12-121

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 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #
Phablet	2.4 GHz Bluetooth	FHSS	MIMO	2957M	77.10	0.03	2402.00	0	1	14.0	13.31	14.0	13.64	Back	0	0.190	1.172	1.025	0.228	0.057	
Phablet	2.4 GHz Bluetooth	FHSS	MIMO	2957M	77.10	0.05	2402.00	0	1	14.0	13.31	14.0	13.64	Front	0	0.480	1.172	1.025	0.577	0.144	
Phablet	2.4 GHz Bluetooth LE	DSSS	MIMO	2957M	85.50	0.04	2402.00	0	1	14.0	13.64	14.0	13.88	Front	0	0.253	1.087	1.018	0.280	0.070	
Phablet	2.4 GHz Bluetooth	FHSS	MIMO	2957M	77.10	0.02	2402.00	0	1	14.0	13.31	14.0	13.64	Top	0	0.006	1.172	1.025	0.007	0.002	
Phablet	2.4 GHz Bluetooth	FHSS	MIMO	2957M	77.10	0.05	2402.00	0	1	14.0	13.31	14.0	13.64	Right	0	0.164	1.172	1.025	0.197	0.049	
Phablet	2.4 GHz Bluetooth	FHSS	MIMO	2957M	77.10	0.03	2402.00	0	1	14.0	13.31	14.0	13.64	Left	0	0.005	1.172	1.025	0.006	0.002	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																Phablet					
Spatial Peak																4.0 W/kg (mW/g)					
Uncontrolled Exposure/General Population																averaged over 10 grams					

Note: To achieve the 17 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 14 dBm.

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12.27 UWB Standalone SAR

Table 12-122 | Plot A58

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Head	UWB	CW	H	2960M	1:1	0.07	6489.60	5	Right Cheek	0	0.000	0.000	
Head	UWB	CW	H	2960M	1:1	0.01	7987.20	9	Right Cheek	0	0.000	0.000	
Head	UWB	CW	H	2960M	1:1	0.01	6489.60	5	Right Tilt	0	0.003	0.002	Plot
Head	UWB	CW	H	2960M	1:1	0.01	7987.20	9	Right Tilt	0	0.002	0.001	
Head	UWB	CW	H	2960M	1:1	0.09	6489.60	5	Left Cheek	0	0.001	0.001	
Head	UWB	CW	H	2960M	1:1	0.09	7987.20	9	Left Cheek	0	0.000	0.000	
Head	UWB	CW	H	2960M	1:1	0.03	6489.60	5	Left Tilt	0	0.002	0.001	
Head	UWB	CW	H	2960M	1:1	0.06	7987.20	9	Left Tilt	0	0.001	0.001	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population									Head 1.6 W/kg (mW/g) averaged over 1 gram				
Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Test Position	Spacing [mm]	Measured APD [W/m² (4cm²)]	APD Exposure Ratio	Plot #
Head	UWB	CW	H	2960M	1:1	0.07	6489.60	5	Right Cheek	0	0.004	0.000	
Head	UWB	CW	H	2960M	1:1	0.01	7987.20	9	Right Cheek	0	0.000	0.000	
Head	UWB	CW	H	2960M	1:1	0.01	6489.60	5	Right Tilt	0	0.022	0.001	
Head	UWB	CW	H	2960M	1:1	0.01	7987.20	9	Right Tilt	0	0.011	0.001	
Head	UWB	CW	H	2960M	1:1	0.09	6489.60	5	Left Cheek	0	0.004	0.000	
Head	UWB	CW	H	2960M	1:1	0.09	7987.20	9	Left Cheek	0	0.008	0.000	
Head	UWB	CW	H	2960M	1:1	0.03	6489.60	5	Left Tilt	0	0.004	0.000	
Head	UWB	CW	H	2960M	1:1	0.06	7987.20	9	Left Tilt	0	0.008	0.000	

Table 12-123 | Plot A59

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body-Worn	UWB	CW	H	2960M	1:1	0.05	6489.60	5	Back	0	0.000	0.000	
Body-Worn	UWB	CW	H	2960M	1:1	0.07	7987.20	9	Back	0	0.001	0.001	Plot
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population									Body 1.6 W/kg (mW/g) averaged over 1 gram				
Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Test Position	Spacing [mm]	Measured APD [W/m² (4cm²)]	APD Exposure Ratio	Plot #
Body-Worn	UWB	CW	H	2960M	1:1	0.05	6489.60	5	Back	0	0.004	0.000	
Body-Worn	UWB	CW	H	2960M	1:1	0.07	7987.20	9	Back	0	0.013	0.001	

Note: The 0 mm Body-worn 1 g SAR result was used instead of 5 mm, as it represents the more conservative case at the same power level

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Table 12-124 | Plot A60

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	H	2960M	1:1	0.08	6489.60	5	Back	0	0.000	0.000	
Phablet	UWB	CW	H	2960M	1:1	0.05	7987.20	9	Back	0	0.000	0.000	
Phablet	UWB	CW	H	2960M	1:1	0.07	6489.60	5	Front	0	0.000	0.000	
Phablet	UWB	CW	H	2960M	1:1	0.08	7987.20	9	Front	0	0.002	0.001	
Phablet	UWB	CW	H	2960M	1:1	0.01	6489.60	5	Top	0	0.001	0.000	
Phablet	UWB	CW	H	2960M	1:1	0.05	7987.20	9	Top	0	0.000	0.000	
Phablet	UWB	CW	H	2960M	1:1	0.01	6489.60	5	Bottom	0	0.000	0.000	
Phablet	UWB	CW	H	2960M	1:1	0.02	7987.20	9	Bottom	0	0.000	0.000	
Phablet	UWB	CW	H	2960M	1:1	0.06	6489.60	5	Right	0	0.000	0.000	
Phablet	UWB	CW	H	2960M	1:1	0.02	7987.20	9	Right	0	0.002	0.001	Plot
Phablet	UWB	CW	H	2960M	1:1	0.01	6489.60	5	Left	0	0.000	0.000	
Phablet	UWB	CW	H	2960M	1:1	0.07	7987.20	9	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			

Exposure	Band/ Mode	Service/ Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Test Position	Spacing [mm]	Measured APD [W/m² (4cm²)]	APD Exposure Ratio	Plot #
Phablet	UWB	CW	H	2960M	1:1	0.08	6489.60	5	Back	0	0.020	0.001	
Phablet	UWB	CW	H	2960M	1:1	0.05	7987.20	9	Back	0	0.018	0.001	
Phablet	UWB	CW	H	2960M	1:1	0.07	6489.60	5	Front	0	0.005	0.000	
Phablet	UWB	CW	H	2960M	1:1	0.08	7987.20	9	Front	0	0.038	0.002	
Phablet	UWB	CW	H	2960M	1:1	0.01	6489.60	5	Top	0	0.022	0.001	
Phablet	UWB	CW	H	2960M	1:1	0.05	7987.20	9	Top	0	0.009	0.000	
Phablet	UWB	CW	H	2960M	1:1	0.01	6489.60	5	Bottom	0	0.004	0.000	
Phablet	UWB	CW	H	2960M	1:1	0.02	7987.20	9	Bottom	0	0.006	0.000	
Phablet	UWB	CW	H	2960M	1:1	0.06	6489.60	5	Right	0	0.006	0.000	
Phablet	UWB	CW	H	2960M	1:1	0.02	7987.20	9	Right	0	0.034	0.002	
Phablet	UWB	CW	H	2960M	1:1	0.01	6489.60	5	Left	0	0.014	0.001	
Phablet	UWB	CW	H	2960M	1:1	0.07	7987.20	9	Left	0	0.016	0.001	

12.28 NFC Standalone SAR

Table 12-125 | Plot A61

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	2974M	0.06	13.60	Back	0	0.012	0.003	Plot
Phablet	NFC	B	NFC	2974M	0.01	13.60	Front	0	0.000	0.000	
Phablet	NFC	B	NFC	2974M	0.05	13.60	Top	0	0.000	0.000	
Phablet	NFC	B	NFC	2974M	0.03	13.60	Bottom	0	0.000	0.000	
Phablet	NFC	B	NFC	2974M	0.07	13.60	Right	0	0.000	0.000	
Phablet	NFC	B	NFC	2974M	0.03	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			

12.29 SAR Test Notes

General Notes:

- The test data reported are the worst-case SAR values according to test procedures specified in IEEE 1528-2013, and FCC KDB Publication 447498 D04v01.
- Batteries are fully charged at the beginning of the SAR measurements.
- Liquid tissue depth was at least 15.0 cm for all frequencies.
- The manufacturer has confirmed that the device(s) tested have the same physical, mechanical and thermal characteristics and are within operational tolerances expected for production units.
- SAR results were scaled to the maximum allowed power to demonstrate compliance per FCC KDB Publication 447498 D04v01.
- Device was tested using a fixed spacing for body-worn accessory testing. A separation distance of 5 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.

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7. Per FCC KDB Publication 648474 D04v01r03, body-worn SAR was evaluated without a headset connected to the device. Since the standalone reported body-worn SAR was ≤ 1.2 W/kg, no additional body-worn SAR evaluations using a headset cable were required.
8. Per FCC KDB 865664 D01v01r04, variability SAR tests were performed when the measured SAR results for a frequency band were greater than or equal to 0.8 W/kg. Repeated SAR measurements are highlighted in the tables above for clarity. Please see section 14 for variability analysis.
9. During SAR Testing for the Wireless Router conditions per FCC KDB Publication 941225 D06v02r01, the actual Portable Hotspot operation (with actual simultaneous transmission of a transmitter with WIFI) was not activated (See Section 7.7 for more details).
10. Per FCC KDB Publication 648474 D04v01r03, this device is considered a "phablet" since the display diagonal dimension is > 150 mm and < 200 mm. Therefore, phablet SAR tests are required when wireless router mode does not apply or if wireless router 1g SAR > 1.2 W/kg.
11. 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.
12. This device uses S.LSI TAS for WWAN and Qualcomm FastConnect TAS for WIFI 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 (RSI/DSI).
13. 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. Per FCC guidance, since the frame average target of GPRS is higher than GSM, GPRS was evaluated for body-worn SAR.
2. Justification for reduced test configurations per KDB Publication 941225 D01v03r01 and October 2013 TCB Workshop Notes: The source-based frame-averaged output power was evaluated for all GPRS/EDGE slot configurations. The configuration with the highest target frame averaged output power was evaluated for hotspot SAR. When the maximum frame-averaged powers are equivalent across two or more slots (within 0.25 dB), the configuration with the most number of time slots was tested.
3. Per FCC KDB Publication 447498 D04v01, if the reported (scaled) SAR measured at the highest output power channel for each test configuration is ≤ 0.8 W/kg for 1g evaluations then testing at the other channels is not required for such test configuration(s).

UMTS Notes:

1. UMTS mode was tested under RMC 12.2 kbps with HSPA Inactive per KDB Publication 941225 D01v03r01. AMR and HSPA SAR was not required per the 3G Test Reduction Procedure in KDB Publication 941225 D01v03r01.
2. Per FCC KDB Publication 447498 D04v01, if the reported (scaled) SAR measured at the highest output power channel for each test configuration is ≤ 0.8 W/kg for 1g evaluations then testing at the other channels is not required for such test configuration(s).

LTE Notes:

1. LTE test configurations are determined according to SAR Evaluation Considerations for LTE Devices in FCC KDB Publication 941225 D05v02r04. The general test procedures used for testing can be found in Section 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).

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4. Per FCC KDB Publication 447498 D04v01, when the reported 1g SAR measured at the highest output power channel in a given a test configuration was > 0.6 W/kg for LTE B41 or LTE B48, testing at the other channels was required for such test configurations.
5. TDD LTE was tested per the guidance provided in FCC KDB Publication 941225 D05v02r04. Testing was performed using UL-DL configuration 0 with 6 UL subframes and 2 S subframes using extended cyclic prefix only and special subframe configuration 6. SAR tests were performed at maximum output power and worst-case transmission duty factor in extended cyclic prefix. Per 3GPP 36.211 Section 4, the duty factor for special subframe configuration 6 using extended cyclic prefix is 0.633.
6. Per KDB Publication 941225 D05Av01r02, SAR for downlink only LTE CA operations was not needed since the maximum average output power in LTE CA mode was not >0.25 dB higher than the maximum output power when downlink carrier aggregation was inactive.
7. This device supports Power Class 2 and Power Class 3 operations for LTE Band 41. The highest available duty cycle for Power Class 2 operations is 43.3 % using UL-DL configuration 1. Per FCC Guidance, all SAR tests were performed using Power Class 3. SAR with power class 2 at the available duty factor was additionally performed for the power class 3 configuration with the highest SAR configuration for each exposure conditions. Please see Section 15 for linearity results.

NR Notes:

1. NR implementation supports SA and NSA mode. In EN-DC mode, NR operates with the LTE Bands shown in the NR FR1 checklist acting as anchor bands. Per FCC guidance, SAR tests for NR Bands and LTE Anchors Bands were performed separately due to limitations in SAR probe calibration factors.
2. Due to test setup limitations, SAR testing for NR TDD was performed using test mode software to establish the connection.
3. Simultaneous transmission analysis for EN-DC operations is addressed in the Part 2 Test Report (Serial Number can be found in the bibliography).
4. This device additionally supports some EN-DC conditions where additional LTE carriers are added on the downlink only.
5. Per FCC Guidance, NR modulations and RB Sizes/Offsets were selected for testing such that configurations with the highest output power were evaluated for SAR tests.
6. Per FCC KDB Publication 447498 D04v01, when the reported NR Band n77 C-Band SAR measured at the highest output power channel in a given a test configuration was > 0.4 W/kg for 1g evaluations and > 1 W/kg for 10g evaluation, testing at the other channels was required for such test configurations.
7. Per FCC KDB Publication 447498 D04v01, when the reported NR Band n41 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 S.LSI guidance.
9. For final implementation, NR Band n41, and n77 slot configuration is synchronized using maximum duty cycle of 100%. SAR testing was performed using FTM mode with a 100% duty cycle applied to match final duty cycle.
10. Per FCC Guidance, C-Band for NR n77 (3705 – 3975 MHz) was fully tested according to FCC procedures. For each exposure condition and antenna, the worst-case position was additionally evaluated for the NR n77 DoD (3455.01 – 3544.98 MHz).

WLAN Notes:

1. For held-to-ear, 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 D04v01 by either evaluating the sum of the 1g SAR values of each antenna transmitting independently or making a SAR measurement with both antennas transmitting simultaneously. Please see Multi-TX and Antenna SAR Considerations Appendix for complete analysis.
5. When the maximum reported 1g averaged SAR is ≤ 0.8 W/kg, SAR testing on additional channels was not required. Otherwise, SAR for the next highest output power channel was required until the reported SAR result was ≤ 1.20 W/kg for 1g evaluations or all test channels were measured.
6. The device was configured to transmit continuously at the required data rate, channel bandwidth and signal modulation, using the highest transmission duty factor supported by the test mode tools. The reported SAR was scaled to the 100% transmission duty factor to determine compliance. Procedures used to measure the duty factor are identical to that in the associated EMC test reports.
7. When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.
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 head, body-worn, and phablet based on expected usage conditions.
2. Per FCC guidance, SAR was performed using 6.5 GHz/8GHz probe calibration factor for UWB.

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13 POWER DENSITY DATA SUMMARY

13.1 6 GHz WIFI Power Density Results

Table 13-1 | Plot A62

MEASUREMENT RESULTS																									
Frequency (MHz)	Channel	Mode	Service	Bandwidth (MHz)	Maximum Allowed Power (Ant 1) [dBm]	Conducted Power (Ant 1) [dBm]	Maximum Allowed Power (Ant 2) [dBm]	Conducted Power (Ant 2) [dBm]	Power Drift [dB]	Spacing (mm)	Antenna Config.	DUT Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	Grid Step (λ)	iPD (W/m²)	Scaling Factor for Measurement Uncertainty per IEC 62479	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Normal psPD (W/m²)	Scaled Normal psPD (W/m²)	Total psPD (W/m²)	Scaled Total psPD (W/m²)	Plot #
6505.00	111	802.11ax	OFDM	160	10.00	9.25	N/A	N/A	-0.04	2	G	2009M	68.1	Back	99.65	0.05	-	1.554	1.189	1.004	0.906	1.681	0.999	1.853	
6345.00	79	802.11ax	OFDM	160	10.00	8.90	N/A	N/A	-0.09	2	G	2009M	68.1	Front	99.65	0.05	0.945	1.554	1.288	1.004	0.701	1.409	0.886	1.780	
6345.00	79	802.11ax	OFDM	160	10.00	8.90	N/A	N/A	0.15	9.45	G	2009M	68.1	Front	99.65	0.125	1.100	1.554	1.288	1.004	0.303	0.609	0.323	0.649	
6345.00	79	802.11ax	OFDM	160	10.00	8.90	N/A	N/A	0.03	2	G	2009M	68.1	Left	99.65	0.05	-	1.554	1.288	1.004	1.450	2.914	1.810	3.637	
6665.00	143	802.11ax	OFDM	160	N/A	N/A	10.00	9.12	-0.10	2	E	2009M	68.1	Back	99.65	0.05	-	1.554	1.225	1.004	1.410	2.695	1.710	3.268	
6505.00	111	802.11ax	OFDM	160	N/A	N/A	10.00	9.41	0.14	2	E	2009M	68.1	Front	99.65	0.05	0.901	1.554	1.146	1.004	0.345	0.617	0.606	1.084	
6505.00	111	802.11ax	OFDM	160	N/A	N/A	10.00	9.41	0.11	9.22	E	2009M	68.1	Front	99.65	0.25	0.328	1.554	1.146	1.004	0.094	0.168	0.104	0.186	
6985.00	207	802.11ax	OFDM	160	N/A	N/A	10.00	9.00	-0.12	2	E	2009M	68.1	Back	99.65	0.05	-	1.554	1.259	1.004	2.350	4.616	2.800	5.500	Plot
6665.00	143	802.11ax	OFDM	160	10.00	8.83	10.00	9.20	-0.12	2	MMMO	2067M	136.1	Back	99.65	0.05	-	1.554	1.309	1.004	1.690	3.370	1.910	3.901	
6505.00	111	802.11ax	OFDM	160	10.00	9.30	10.00	9.46	0.15	2	MMMO	2009M	136.1	Front	99.65	0.05	4.420	1.554	1.175	1.004	1.900	3.483	2.000	3.667	
6505.00	111	802.11ax	OFDM	160	10.00	9.30	10.00	9.46	0.10	9.22	MMMO	2009M	136.1	Front	99.65	0.05	2.600	1.554	1.175	1.004	0.684	1.254	0.727	1.333	
6345.00	79	802.11ax	OFDM	160	10.00	9.10	10.00	9.17	0.04	2	MMMO	2009M	136.1	Left	99.65	0.05	-	1.554	1.230	1.006	1.690	3.250	2.090	3.942	
47 CFR §1.1310 - SAFETY LIMIT Spatial Average Uncontrolled Exposure / General Population																		Power Density 10 W/m² averaged over 4 cm²							

13.2 UWB Power Density Results

Table 13-2 | Plot A63

MEASUREMENT RESULTS															
Frequency (MHz)	Channel	Mode	Power Drift (dB)	Spacing (mm)	Antenna Config.	DUT Serial Number	Side	Grid Step (λ)	iPD (W/m²)	Scaling Factor for Measurement Uncertainty per IEC 62479	Normal psPD (W/m²)	Scaled Normal psPD (W/m²)	Total psPD (W/m²)	Scaled Total psPD (W/m²)	Plot #
6489.60	5	CW	0.12	2	H	2960M	Front	0.05	-	1.554	0.081	0.126	0.082	0.127	Plot
7987.20	9	CW	0.15	2	H	2960M	Back	0.067	0.409	1.554	0.069	0.107	0.071	0.110	
7987.20	9	CW	-0.13	7.51	H	2960M	Back	0.125	0.341	1.554	0.069	0.107	0.072	0.112	
7987.20	9	CW	0.10	2	H	2960M	Right	0.067	-	1.554	0.070	0.109	0.072	0.112	
47 CFR §1.1310 - SAFETY LIMIT Spatial Average Uncontrolled Exposure / General Population						Power Density 10 W/m² averaged over 4 cm²									

Power Density General Notes

- 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.
- 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.
- Power density was calculated by repeated E-field measurements on two measurement planes separated by $\lambda/4$.
- 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.

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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
Body-worn/Hotspot SAR Measurement Variability Results

BODY VARIABILITY RESULTS														
Band	FREQUENCY		Mode	Service	Side	Test Position	Antenna Config	Measured SAR (1g)	1st Repeated SAR (1g)	Ratio	2nd Repeated SAR (1g)	Ratio	3rd Repeated SAR (1g)	Ratio
	MHz	Ch.						(W/kg)	(W/kg)		(W/kg)		(W/kg)	
750	707.50	23095	LTE Band 12, 10 MHz Bandwidth	QPSK, 1 RB, 0 RB Offset	Back	5	A	0.839	0.802	1.05	N/A	N/A	N/A	N/A
850	848.80	251	GSM 850	GPRS 3 Tx Slots	Back	5	A	0.968	0.895	1.08	N/A	N/A	N/A	N/A
1750	1752.60	1513	UMTS 1750	RMC	Back	5	A	0.897	0.882	1.02	N/A	N/A	N/A	N/A
1900	1909.80	810	GSM 1900	GPRS 4 Tx Slots	Back	5	A	0.956	0.934	1.02	N/A	N/A	N/A	N/A
2600	2592.99	518598	NR Band n41, 100 MHz Bandwidth	CW/SRS	Back	5	D	0.828	0.799	1.04	N/A	N/A	N/A	N/A
ANSI / IEEE C95.1 1992 - SAFETY LIMIT						Body								
Spatial Peak						1.6 W/kg (mW/g)								
Uncontrolled Exposure/General Population						averaged over 1 gram								

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

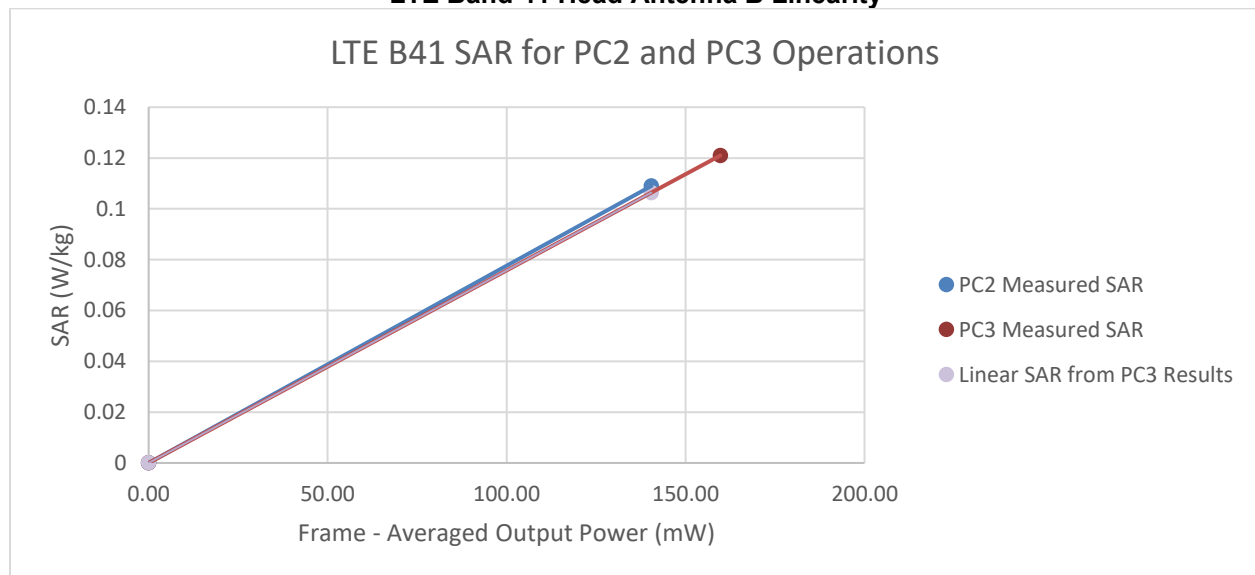
15.1 LTE Band 41 Power Class 2 and Power Class 3 Linearity

This device supports Power Class 2 and Power Class 3 operations for LTE Band 41. The highest available duty cycle for Power Class 2 operations is 43.3 % using UL-DL configuration 1. Per May 2017 TCB Workshop Notes based on the device behavior, all SAR tests were performed using Power Class 3. SAR with Power Class 2 at the highest power and available duty factor was additionally performed for the Power Class 3 configuration with the highest SAR for each exposure condition. The linearity between the Power Class 2 and Power Class 3 SAR results and the respective frame averaged powers was calculated to determine that the results were linear. Per May 2017 TCB Workshop, no additional SAR measurements were required since the linearity between power classes was < 10% and all reported SAR values were < 1.4 W/kg for 1g and < 3.5 W/kg for 10g.

Table 15-1
LTE Band 41 Head Antenna B Linearity Data

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	25.00	26.00
Measured Output Power (dBm)	24.02	25.11
Measured SAR (W/kg)	0.121	0.109
Measured Power (mW)	252.35	324.34
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	159.74	140.44
% deviation from expected linearity		2.46%

Figure 15-1
LTE Band 41 Head Antenna B Linearity



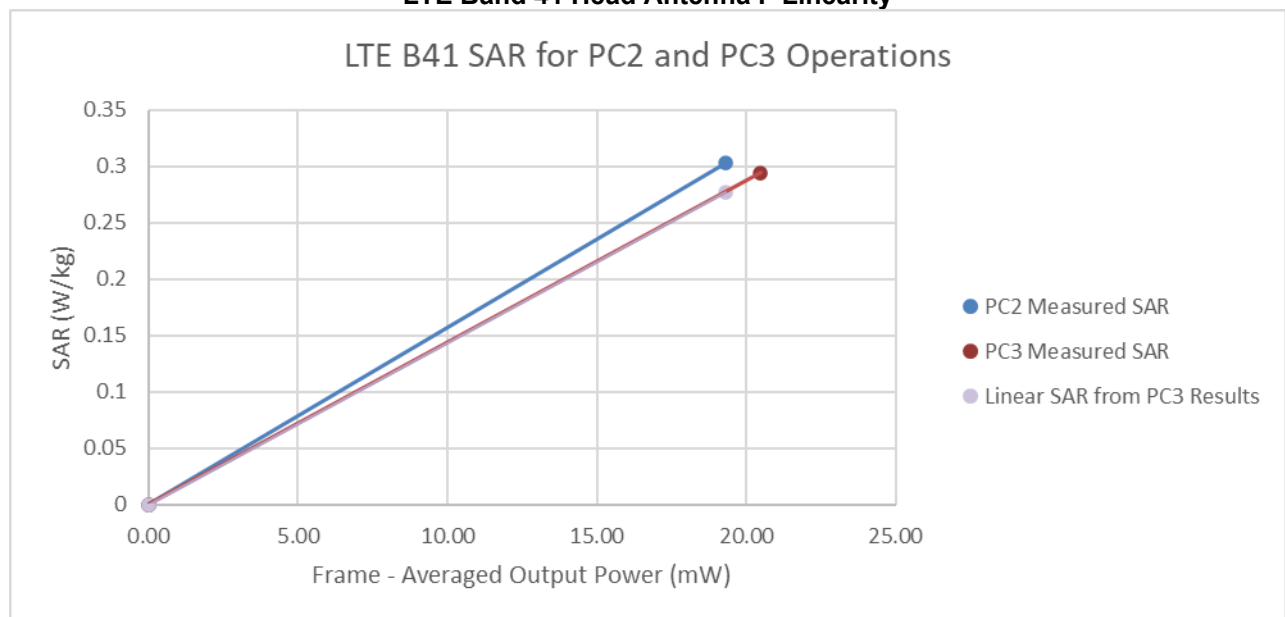
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Table 15-2
LTE Band 41 Head Antenna F Linearity Data

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	16.00	17.60
Measured Output Power (dBm)	15.10	16.49
Measured SAR (W/kg)	0.294	0.303
Measured Power (mW)	32.36	44.57
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	20.48	19.30
% deviation from expected linearity		9.40%

Figure 15-2
LTE Band 41 Head Antenna F Linearity



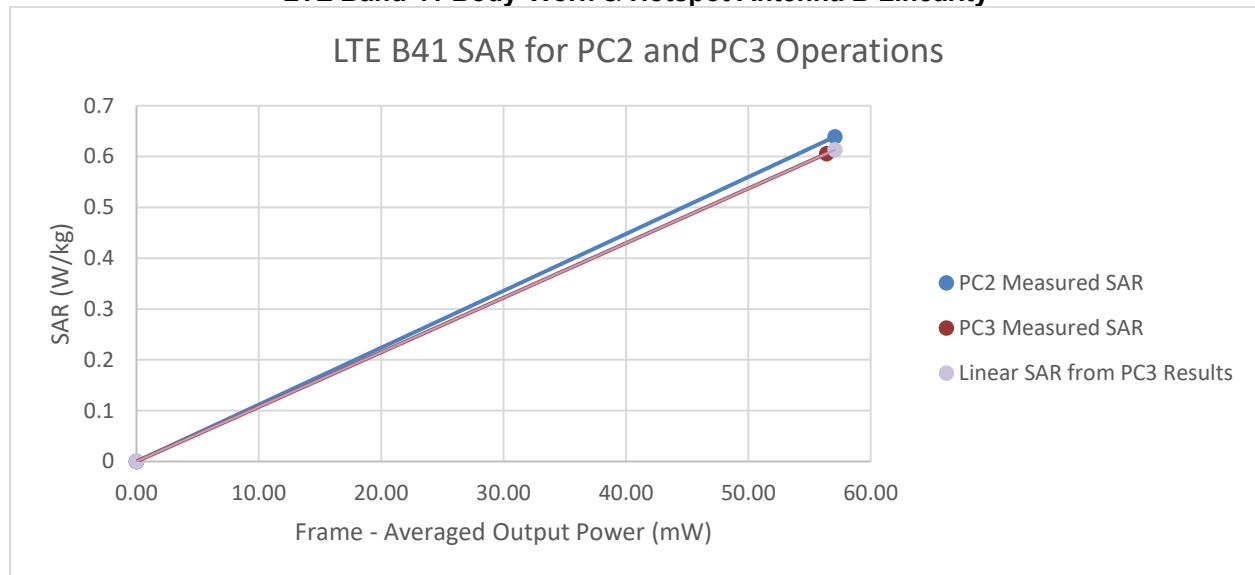
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Table 15-3
LTE Band 41 Body-Worn & Hotspot Antenna B Linearity Data

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	20.50	22.10
Measured Output Power (dBm)	19.50	21.20
Measured SAR (W/kg)	0.606	0.639
Measured Power (mW)	89.13	131.83
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	56.42	57.08
% deviation from expected linearity		4.22%

Figure 15-3
LTE Band 41 Body-Worn & Hotspot Antenna B Linearity



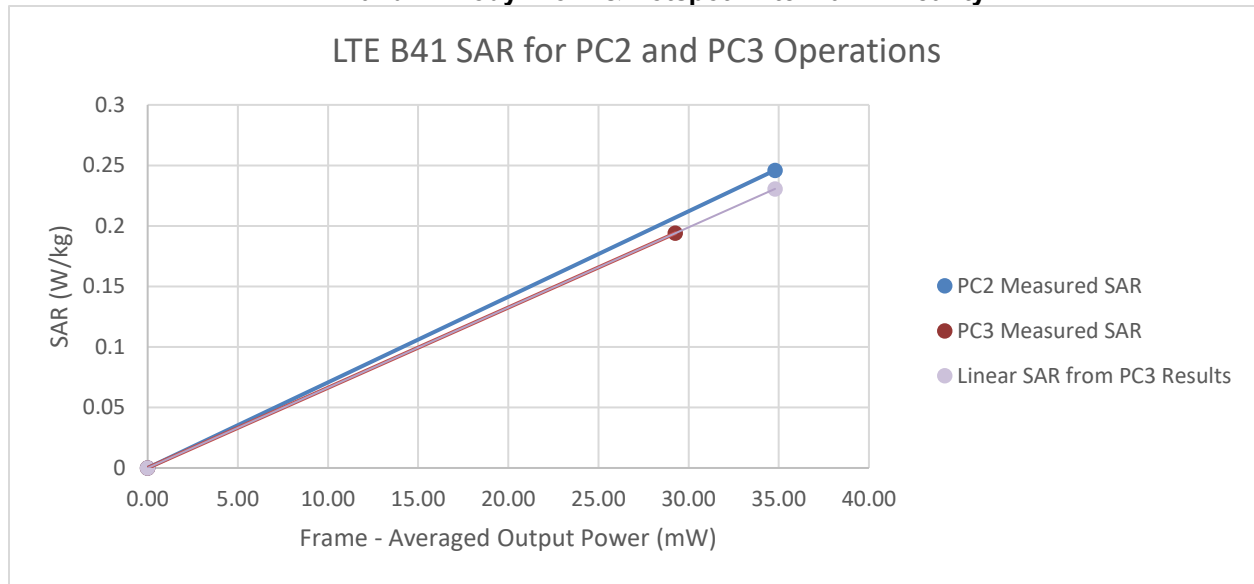
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Table 15-4
LTE Band 41 Body-Worn & Hotspot Antenna F Linearity Data

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	17.50	19.10
Measured Output Power (dBm)	16.65	19.05
Measured SAR (W/kg)	0.194	0.246
Measured Power (mW)	46.24	80.35
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	29.27	34.79
% deviation from expected linearity		6.67%

Figure 15-4
LTE Band 41 Body-Worn & Hotspot Antenna F Linearity



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16 EQUIPMENT LIST

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Agilent	E4408B	Spectrum Analyzer	N/A	N/A	N/A	MV4511242
Agilent	E4438C	ESG Vector Signal Generator	11/2/2025	Annual	11/2/2026	MV45093852
Agilent	E4438C	ESG Vector Signal Generator	5/12/2025	Annual	5/12/2026	MV45093678
Agilent	N5182A	MWG Vector Signal Generator	5/30/2025	Annual	5/30/2026	MV48180366
Agilent	N5182A	MWG Vector Signal Generator	8/2/2025	Annual	8/2/2026	MV48126651
Agilent	87355	S-Parameter Vector Network Analyzer	1/6/2025	Annual	1/6/2026	MV40204272
Agilent	87355	S-Parameter Vector Network Analyzer	10/28/2025	Annual	10/28/2026	MV40003841
Agilent	E5155C	Wireless Communications Test Set	CBT	N/A	CBT	GB4610798
Agilent	E5155C	Wireless Communications Test Set	CBT	N/A	CBT	GB41402075
Agilent	N4100A	Wireless Connectivity Test Set	N/A	N/A	N/A	GB46170684
Amplifier Research	1551G6	Amplifier	CBT	N/A	CBT	433973
Amplifier Research	1551G6	Amplifier	CBT	N/A	CBT	433974
Amplifier Research	150A100C	Amplifier	CBT	N/A	CBT	350132
Anritsu	MR8110B	I/O Adaptor	CBT	N/A	CBT	6261747881
Anritsu	ML2486A	Power Meter	8/21/2025	Annual	8/21/2026	1138051
Anritsu	ML2486A	Power Meter	6/27/2025	Annual	6/27/2026	1840005
Anritsu	MA2411B	Pulse Power Sensor	10/14/2025	Annual	10/14/2026	1756262
Anritsu	MA2411B	Pulse Power Sensor	10/14/2025	Annual	10/14/2026	1027293
Anritsu	MT8821C	Radio Communication Analyzer MT8821C	6/9/2025	Annual	6/9/2026	6201144418
Anritsu	MT8821C	Radio Communication Analyzer MT8821C	3/14/2025	Annual	3/14/2026	626244715
Anritsu	MT8821C	Radio Communication Analyzer MT8821C	9/15/2025	Annual	9/15/2026	6201144419
Anritsu	MT8821C	Radio Communication Analyzer MT8821C	9/15/2025	Annual	9/15/2026	6201381794
Anritsu	MT8800A	Radio Communication Test Station	4/11/2025	Annual	4/11/2026	6261987983
Anritsu	MT8800A	Radio Communication Test Station	3/11/2025	Annual	3/11/2026	6272117499
Anritsu	MT8800A	Radio Communication Test Station	5/4/2025	Annual	5/4/2026	6261914217
Anritsu	MT8800A	Radio Communication Test Station	10/17/2025	Annual	10/17/2026	6273137405
Anritsu	MA24106A	USB Power Sensor	8/4/2025	Annual	8/4/2026	1827530
Anritsu	MA24106A	USB Power Sensor	4/28/2025	Annual	4/28/2026	1520501
Control Company	4052	Long Stem Thermometer	2/27/2024	Biennial	2/27/2026	240134346
Control Company	4052	Long Stem Thermometer	2/27/2024	Biennial	2/27/2026	240171596
Control Company	4052	Long Stem Thermometer	2/27/2024	Biennial	2/27/2026	240171599
Control Company	4040	Therm / Clock / Humidity Monitor	4/15/2024	Biennial	4/15/2026	240102080
Control Company	4040	Therm / Clock / Humidity Monitor	10/15/2024	Biennial	10/15/2026	240103503
Control Company	4040	Therm / Clock / Humidity Monitor	7/17/2025	Biennial	7/17/2027	250404082
Keysight Technologies	N9200A	MXA Signal Analyzer	7/7/2025	Annual	7/7/2026	MV48010233
Agilent	N9200A	MXA Signal Analyzer	7/7/2025	Biennial	7/7/2027	MV56470202
MCL	BW-N6W5+	6dB Attenuator	CBT	N/A	CBT	1139
Mini-Circuits	VLF-600H	Low Pass Filter DC to 6000 MHz	CBT	N/A	CBT	N/A
Mini-Circuits	VLF-600H	Low Pass Filter DC to 6000 MHz	7/8/2025	Annual	7/8/2026	16934
Mini-Circuits	BW-N20W5+	DC to 35 GHz Precision Fixed 20dB Attenuator	CBT	N/A	CBT	N/A
Mini-Circuits	NLP-1200+	Low Pass Filter DC to 1000 MHz	CBT	N/A	CBT	N/A
Mini-Circuits	NLP-2950+	Low Pass Filter DC to 2700 MHz	CBT	N/A	CBT	N/A
Mini-Circuits	BW-N20W5	Power Attenuator	CBT	N/A	CBT	1226
Mini-Circuits	ZUC30-85+V	Directional Coupler	CBT	N/A	CBT	2659
Narda	4772-3	Attenuator (3dB)	CBT	N/A	CBT	9806
Narda	BW-53W2	Attenuator (3dB)	CBT	N/A	CBT	120
Seekonk	NC-100	Torque Wrench	CBT	N/A	CBT	22217
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	9/26/2024	Biennial	9/26/2026	110553
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	4/9/2025	Annual	4/9/2026	147108
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	6/18/2025	Annual	6/18/2026	140148
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	10/24/2025	Annual	10/24/2026	131453
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	10/24/2025	Annual	10/24/2026	131454
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	10/23/2025	Annual	10/23/2026	150117
SPEAG	DAK-1.5	Dielectric Assessment Kit	11/10/2025	Annual	11/10/2026	12177
SPEAG	DAK-3.5	Portable Dielectric Assessment Kit	8/5/2025	Annual	8/5/2026	1041
SPEAG	MAIA	Modulation and Audio Interference Analyzer	N/A	N/A	N/A	1237
SPEAG	MAIA	Modulation and Audio Interference Analyzer	N/A	N/A	N/A	1331
SPEAG	MAIA	Modulation and Audio Interference Analyzer	N/A	N/A	N/A	1280
SPEAG	DAK-12	Dielectric Assessment Kit (40Wx-3GHz)	3/10/2025	Annual	3/10/2026	1202
SPEAG	CLA-13	Confined Loop Antenna	9/4/2025	Annual	9/4/2026	1002
SPEAG	DI750V2	1750 MHz SAR Dipole	1/13/2025	Annual	1/13/2026	1148
SPEAG	DI750V2	1750 MHz SAR Dipole	13/7/2024	Biennial	13/7/2026	1150
SPEAG	DI750V2	1750 MHz SAR Dipole	6/4/2025	Annual	6/4/2026	1492
SPEAG	DI900V2	1900 MHz SAR Dipole	8/7/2025	Annual	8/7/2026	56990
SPEAG	DI900V2	1900 MHz SAR Dipole	6/3/2025	Annual	6/3/2026	58006
SPEAG	DI900V2	1900 MHz SAR Dipole	2/7/2025	Annual	2/7/2026	54148
SPEAG	DI2450V2	2450 MHz SAR Dipole	2/12/2025	Annual	2/12/2026	882
SPEAG	DI2450V2	2450 MHz SAR Dipole	4/9/2025	Annual	4/9/2026	1495
SPEAG	DI2450V2	2450 MHz SAR Dipole	10/7/2025	Annual	10/7/2026	797
SPEAG	DI2600V2	2600 MHz SAR Dipole	8/11/2025	Annual	8/11/2026	1126
SPEAG	DI3500V2	3500 MHz SAR Dipole	6/2/2025	Annual	6/2/2026	1127
SPEAG	DI3700V2	3700 MHz SAR Dipole	6/2/2025	Annual	6/2/2026	1096
SPEAG	DI3800V2	3800 MHz SAR Dipole	6/2/2025	Annual	6/2/2026	1074
SPEAG	DI5GHzV2	5 GHz SAR Dipole	2/21/2024	Biennial	2/21/2026	1057
SPEAG	DE5GHzV2	6.5 GHz SAR Dipole	2/4/2025	Annual	2/4/2026	1111
SPEAG	DBGHzV2	8GHz SAR Dipole	3/6/2025	Annual	3/6/2026	1007
SPEAG	D750V3	750 MHz SAR Dipole	3/4/2025	Annual	3/4/2026	1054
SPEAG	D750V3	750 MHz SAR Dipole	6/9/2025	Annual	6/9/2026	1493
SPEAG	DB35V2	835 MHz SAR Dipole	3/11/2024	Biennial	3/11/2026	46113
SPEAG	DB35V2	835 MHz SAR Dipole	3/4/2025	Annual	3/4/2026	46047
SPEAG	DB35V2	835 MHz SAR Dipole	6/3/2025	Annual	6/3/2026	46180
SPEAG	5G Verification Source 10GHz	10GHz System Verification Antenna	1/4/2025	Annual	1/4/2026	1002
SPEAG	DAE4	Das Data Acquisition Electronics	1/14/2025	Annual	1/14/2026	1466
SPEAG	DAE4	Das Data Acquisition Electronics	10/13/2025	Annual	10/13/2026	1449
SPEAG	DAE4	Das Data Acquisition Electronics	4/7/2025	Annual	4/7/2026	1407
SPEAG	DAE4	Das Data Acquisition Electronics	3/11/2025	Annual	3/11/2026	1415
SPEAG	DAE4	Das Data Acquisition Electronics	6/9/2025	Annual	6/9/2026	1528
SPEAG	DAE4	Das Data Acquisition Electronics	5/26/2025	Annual	5/26/2026	1678
SPEAG	DAE4	Das Data Acquisition Electronics	11/5/2025	Annual	11/5/2026	1677
SPEAG	DAE4	Das Data Acquisition Electronics	4/10/2025	Annual	4/10/2026	1272
SPEAG	DAE4	Das Data Acquisition Electronics	9/10/2025	Annual	9/10/2026	1364
SPEAG	DAE4	Das Data Acquisition Electronics	6/4/2025	Annual	6/4/2026	1461
SPEAG	DAE4	Das Data Acquisition Electronics	6/4/2025	Annual	6/4/2026	1502
SPEAG	DAE4ip	Das Data Acquisition Electronics	2/7/2025	Annual	2/7/2026	1638
SPEAG	DAE4ip	Das Data Acquisition Electronics	2/5/2025	Annual	2/5/2026	1639
SPEAG	EX3DV4	SAR Probe	9/15/2025	Annual	9/15/2026	7558
SPEAG	EX3DV4	SAR Probe	6/11/2025	Annual	6/11/2026	7641
SPEAG	EX3DV4	SAR Probe	4/8/2025	Annual	4/8/2026	7718
SPEAG	EX3DV4	SAR Probe	6/12/2025	Annual	6/12/2026	7637
SPEAG	EX3DV4	SAR Probe	10/14/2025	Annual	10/14/2026	7527
SPEAG	EX3DV4	SAR Probe	5/9/2025	Annual	5/9/2026	7660
SPEAG	EX3DV4	SAR Probe	6/12/2025	Annual	6/12/2026	7409
SPEAG	EX3DV4	SAR Probe	11/7/2025	Annual	11/7/2026	7406
SPEAG	EX3DV4	SAR Probe	3/7/2025	Annual	3/7/2026	7488
SPEAG	EX3DV4	SAR Probe	8/12/2025	Annual	8/12/2026	7491
SPEAG	EX3DV4	SAR Probe	2/10/2025	Annual	2/10/2026	7570
SPEAG	EX3DV4	SAR Probe	4/7/2025	Annual	4/7/2026	7619
SPEAG	ElumMWV3	ElumMWV3 Probe	1/8/2025	Annual	1/8/2026	9389
SPEAG	ElumMWV3	ElumMWV3 Probe	3/12/2025	Annual	3/12/2026	9421

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.

SAR Uncertainty Budget based on IEEE 1528-2013 (0.3 GHz to 10 GHz)

a	b	c	d	e f(d,k)	f	g	h cx/f/e	i cx/g/e	k
Uncertainty component	Reference	Tol. (± %)	Prob. dist.	Dvi.	ci (1g)	ci (10g)	1g ui (± %)	10g ui (± %)	vi
Measurement system									
Probe calibration	E.2.1	9.30	N	1	1	1	9.30	9.30	∞
Axial isotropy	E.2.2	0.25	N	1	0.707	0.707	0.18	0.18	∞
Hemispherical isotropy	E.2.2	1.30	N	1	0.707	0.707	0.92	0.92	∞
Boundary effect	E.2.3	2.00	R	1.73	1	1	1.15	1.15	∞
Linearity	E.2.4	0.30	R	1.73	1	1	0.17	0.17	∞
System detection limits	E.2.4	0.25	R	1.73	1	1	0.14	0.14	∞
Modulation response	E.2.5	4.80	R	1.73	1	1	2.77	2.77	∞
Readout electronics	E.2.6	0.30	N	1	1	1	0.30	0.30	∞
Response time	E.2.7	1.01	R	1.73	1	1	0.58	0.58	∞
Integration time	E.2.8	2.60	R	1.73	1	1	1.50	1.50	∞
RF ambient conditions - noise	E.6.1	3.00	R	1.73	1	1	1.73	1.73	∞
RF ambient conditions - reflections	E.6.1	3.00	R	1.73	1	1	1.73	1.73	∞
Probe positioner mechanical tolerance	E.6.2	0.04	R	1.73	1	1	0.02	0.02	∞
Probe positioning with respect to phantom shell	E.6.3	0.80	R	1.73	1	1	0.46	0.46	∞
Extrapolation, interpolation, and integration algorithms for max. SAR evaluation	E.5	4.00	R	1.73	1	1	2.31	2.31	∞
Test sample related									
Test sample positioning	E.4.2	3.12	N	1	1	1	3.12	3.12	35
Device holder uncertainty	E.4.1	1.67	N	1	1	1	1.67	1.67	5
Output power variation - SAR drift	E.2.9	5.00	R	1.73	1	1	2.89	2.89	∞
SAR scaling	E.6.5	0.00	R	1.73	1	1	0.00	0.00	∞
Phantom and tissue parameters									
Phantom shell uncertainty - shape, thickness and permittivity	E.3.1	7.60	R	1.73	1	1	4.39	4.39	∞
Uncertainty in SAR correction for deviations in permittivity and conductivity	E.3.2	0.00	N	1	1	1	0.00	0.00	∞
Liquid conductivity measurement	E.3.3	4.27	N	1	0.78	0.71	3.33	3.03	55
Liquid permittivity measurement	E.3.3	4.18	N	1	0.23	0.26	0.96	1.09	55
Liquid conductivity - temperature uncertainty	E.3.4	3.40	R	1.73	0.78	0.71	1.53	1.39	∞
Liquid permittivity - temperature uncertainty	E.3.4	0.60	R	1.73	0.23	0.26	0.08	0.09	∞
Liquid Conductivity - deviation from target values	E.3.2	5.00	R	1.73	0.64	0.43	1.85	1.24	∞
Liquid Permittivity - deviation from target values	E.3.2	5.00	R	1.73	0.60	0.49	1.73	1.41	∞
Combined standard uncertainty							13.1	12.9	150
Expanded uncertainty (95% confidence interval)							26.2	25.8	

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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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