



RF EXPOSURE TEST REPORT

Applicant Name:
Samsung Electronics Co., Ltd.
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Yeongtong-gu, Suwon-si
Gyeonggi-do, 16677, Korea

Date of Testing:
12/15/2025 - 02/12/2026
Test Site/Location:
Element, Columbia, MD, USA
Document Serial No.:
1M2512010100-01.A3L (Rev1)

FCC ID: A3LSMA576JPN

APPLICANT: SAMSUNG ELECTRONICS CO., LTD.

DUT Type: Portable Handset
Application Type: Certification
FCC Rule Part(s): CFR §2.1093
Model(s): SC-54G

Equipment Class	Band & Mode	Tx Frequency	SAR				
			1g Head (W/kg)	1g Body-Worn (W/kg)	1g Hotspot (W/kg)	10g Phablet (W/kg)	
PCE	GSM/GPRS/EDGE 850	824.20 - 848.80 MHz	0.41	0.46	0.46	N/A	
PCE	GSM/GPRS/EDGE 1900	1850.20 - 1909.80 MHz	<0.1	0.97	0.97	N/A	
PCE	UMTS 850	826.40 - 846.60 MHz	0.79	0.78	0.78	N/A	
PCE	LTE Band 12	699.7 - 715.3 MHz	0.44	0.48	0.48	N/A	
PCE	LTE Band 5	824.7 - 848.3 MHz	0.66	0.55	0.55	N/A	
PCE	LTE Band 66	1710.7 - 1779.3 MHz	0.69	0.65	0.65	0.73	
PCE	LTE Band 2	1850.7 - 1909.3 MHz	0.71	0.73	0.73	0.95	
PCE	LTE Band 41	2498.5 - 2687.5 MHz	0.89	0.50	0.50	N/A	
PCE	NR Band n5	826.5 - 846.5 MHz	0.67	0.88	0.88	N/A	
PCE	NR Band n41	2501.01 - 2685 MHz	0.20	0.88	0.88	1.61	
DTS	2.4 GHz WIFI	2412 - 2462 MHz	0.62	0.40	0.40	N/A	
NII	5 GHz WIFI	U-NII-1: 5180 - 5240 MHz	0.79	1.00	0.68	1.58	
		U-NII-2A: 5260 - 5320 MHz					
		U-NII-2C: 5500 - 5720 MHz					
		U-NII-3: 5745 - 5825 MHz					
		U-NII-4: 5845 - 5885 MHz					
6CD/5VL	6 GHz WIFI	U-NII-5: 5935 - 6415 MHz	0.14	<0.1	<0.1	N/A	
		U-NII-6: 6435 - 6515 MHz					
		U-NII-7: 6535 - 6875 MHz					
		U-NII-8: 6895 - 7115 MHz					
DSS	2.4 GHz Bluetooth	2402 - 2480 MHz	0.56	0.34	0.34	N/A	
DX	NFC	13.56 MHz	N/A	N/A	N/A	<0.1	
Simultaneous SAR per KDB 690783 D01v01r03:			1.16	1.59	1.58	1.61	
Equipment Class	Band & Mode	Tx Frequency	APD (W/m ²)				Reported PD (W/m ²)
			Head	Body-Worn	Hotspot	Phablet	
6CD/5VL	6 GHz WIFI	U-NII-5: 5935 - 6415 MHz U-NII-6: 6435 - 6515 MHz U-NII-7: 6535 - 6875 MHz U-NII-8: 6895 - 7115 MHz	0.78	0.23	0.23	N/A	2.02
Overall SAR Summary							
RF Exposure Condition	Head	Body-Worn		Product-Specific (Wireless Router)		Simultaneous Transmission	
SAR (W/kg)	0.89	1.00		0.97		1.59	
Distance (mm)	0			5, 10		N/A	

Note: This revised Test Report supersedes and replaces the previously issued test report on the same subject device for the same type of testing as indicated. Please discard or destroy the previously issued test report(s) and dispose of it accordingly.

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

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

RJ Ortañez
Executive Vice President



The SAR Tick is an initiative of the Mobile & Wireless Forum (MWF). While a product may be considered eligible, use of the SAR Tick logo requires an agreement with the MWF. Further details can be obtained by emailing: sartick@mwfi.info.

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Revision	Description	Issue Date	Revised by:
-	Initial Release	02/07/2026	
R1	Updated per TCB Request	02/18/2026	WKR023556

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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
	 CERT #2041.01
Measurement system No.	G, J, L, M, N, O, Q, 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
	 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
LTE Band 12	Voice/Data	699.7 - 715.3 MHz
LTE Band 5	Voice/Data	824.7 - 848.3 MHz
LTE Band 66	Voice/Data	1710.7 - 1779.3 MHz
LTE Band 2	Voice/Data	1850.7 - 1909.3 MHz
LTE Band 41	Voice/Data	2498.5 - 2687.5 MHz
NR Band n5	Voice/Data	826.5 - 846.5 MHz
NR Band n41	Voice/Data	2501.01 - 2685 MHz
2.4 GHz WIFI	Voice/Data	2412 - 2462 MHz
5 GHz WIFI	Voice/Data	U-NII-1: 5180 - 5240 MHz U-NII-2A: 5260 - 5320 MHz U-NII-2C: 5500 - 5720 MHz U-NII-3: 5745 - 5825 MHz U-NII-4: 5845 - 5885 MHz
6 GHz WIFI	Voice/Data	U-NII-5: 5935 - 6415 MHz U-NII-6: 6435 - 6515 MHz U-NII-7: 6535 - 6875 MHz U-NII-8: 6895 - 7115 MHz
2.4 GHz Bluetooth	Data	2402 - 2480 MHz

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2.2 Data Referencing

Reference Device	Variant Device	Equipment Class	Mode	Comments
FCC: A3LSMA576U	FCC: A3LSMA576JPN	DTS	2.4 GHz WIFI	See Section 13 for spot-check data
		NII	5 GHz WIFI	See Section 12 for fully tested data and Section 13 for spot-check data
		6CD/6VL	6 GHz WIFI	See Section 12 for fully tested data
		DSS	2.4 GHz Bluetooth	See Section 12 for fully tested data
		DXX	NFC	See Section 12 for fully tested data

Per manufacturer declaration, there are two portable handset devices FCC ID: A3LSMA576U and FCC ID: A3LSMA576JPN, with high degree of similarity, reference model FCC ID: A3LSMA576U and variant model FCC ID: A3LSMA576JPN. Both models share the same material, form factor, circuit design, and components, including antennas and their locations. The reference and variant models have the same tune-up tolerances at WIFI/BT.

Based on the Data Referencing Test Plan, testing was done fully on the reference model FCC ID: A3LSMA576U, while spot-check verification has been performed on variant model FCC ID: A3LSMA576JPN. The spot check verification has been performed in the worst case for each exposure condition and if the spot check SAR value was higher, it was applied to the simultaneous transmission results and SAR CHAR on variant model FCC ID: A3LSMA576JPN. The reference and variant model comparison data summary is included in section 13. Please see unlicensed SAR reference test data in Appendix K: for complete compliance evaluation for the reference model.

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2.3 Time-Averaging Algorithm for RF Exposure Compliance

This device incorporates the Samsung S.LSI proprietary TAS (Time-Averaged SAR) feature for 2G, 3G, 4G, 5G, WLAN, and Bluetooth operations. The TAS feature implements a real-time time-averaging algorithm to dynamically control and manage the transmit power, such that the time-averaged RF exposure remains compliant with FCC requirements over the applicable averaging duration. A detailed description of the S.LSI TAS features and compliance framework is provided in the Compliance Summary document (the corresponding report serial number is listed in Section 2.11 – Bibliography).

NFC operation is not subject to TAS control.

The S.LSI TAS algorithm maintains the time-averaged transmit power, and consequently the time-averaged RF exposure, corresponding to the defined SAR design target (SAR_design_target), below a predefined time-averaged power limit (Plimit for sub-6 GHz radios) for each characterized radio access technology and frequency band. The characterization process determines Plimit for each band and operating mode based on the applicable exposure design targets, after accounting for device-specific design uncertainties, where the SAR_design_target is set below the FCC SAR regulatory limit for sub-6 GHz operation. The resulting SAR characterization data are denoted as SAR CHAR in this report and are documented in the RF Exposure Part 0 Test Report (report serial number listed in Section 2.11 – Bibliography).

While enforcing the time-averaged power constraint, the TAS algorithm allows instantaneous transmit power to increase up to the maximum configured power level (Pmax), when required by system operation, provided that the time-averaged transmit power over the applicable averaging window remains bounded by Plimit.

The table below summarizes the final Plimit settings and the corresponding maximum tune-up output power (Pmax) configured for this equipment under test (EUT) across the supported transmit conditions, as indexed by the S.LSI Radio State Index (RSI). The device-related uncertainty applied to WWAN, WLAN, and Bluetooth transmitters for this EUT is 1.0 dB.

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			Maximum Tune-Up Output Power*	Body-Worn, Hotspot, or Phablet	Head
Exposure Scenario				1g/10g	1g
Averaging Volume				10mm, 5mm, 0mm	0mm
Spacing				0	1
RSI					
Technology/Band	Antenna	Antenna Group	P _{max}	P _{limit}	P _{limit}
GSM 850	A	AG0	24.6	20.8	42.4
GSM 850	E	AG1	24.8	18.8	18.8
GSM 1900	A	AG0	21.3	17.3	33.7
UMTS 850	A	AG0	24.0	22.0	32.9
UMTS 850	E	AG1	23.5	21.0	21.0
LTE Band 12	A	AG0	24.5	22.0	32.9
LTE Band 12	E	AG1	24.0	19.0	19.0
LTE Band 5	A	AG0	24.0	21.5	31.2
LTE Band 5	E	AG1	23.5	19.5	19.5
LTE Band 66	A	AG0	23.5	17.0	32.1
LTE Band 66	F	AG1	23.0	17.0	17.0
LTE Band 2	A	AG0	23.5	17.0	32.1
LTE Band 2	F	AG1	23.0	18.0	18.0
LTE Band 41	B	AG0	21.0	16.0	31.9
LTE Band 41	F	AG1	21.0	15.0	15.0
NR Band n5	A	AG0	24.0	22.0	31.8
NR Band n5	E	AG1	23.5	19.0	19.0
NR Band n41 PC3	B	AG0	23.5	17.5	32.8
NR Band n41 PC2	B	AG0	25.5	17.5	32.8
2.4 GHz WIFI	H	AG1	18.0	16.0	14.0
2.4 GHz WIFI MIMO	H	AG1	18.0	16.0	14.0
2.4 GHz WIFI MIMO	J	AG1	16.0	14.0	12.0
5 GHz WIFI	G	AG1	16.0	16.9	13.0
5 GHz WIFI MIMO	E	AG1	14.0	14.6	11.0
5 GHz WIFI MIMO	G	AG1	16.0	17.8	13.0
6 GHz WIFI	G	AG1	9.0	21.4	18.5
6 GHz WIFI MIMO	E	AG1	6.0	19.0	13.0
6 GHz WIFI MIMO	G	AG1	9.0	21.7	16.7
2.4 GHz Bluetooth	H	AG1	16.4	20.7	19.9

Notes:

1. All Final Plimit and maximum tune up output power P_{max} levels entered in above Table correspond to average power levels after accounting for duty cycle in the case of TDD modulation schemes (e.g. GSM and LTE TDD).
2. Maximum tune up output power P_{max} is used to configure EUT during RF tune up procedure. The maximum allowed output power is equal to maximum Tune up output power + 1dB device design uncertainty.
3. The maximum time-averaged output power (dBm) for any Sub6 WWAN technology, band, and RSI = minimum of "final Plimit " and "Maximum tune up output power P_{max} " + 1dB device uncertainty. SAR values in this report were scaled to this maximum time-averaged output power to determine compliance per KDB Publication 447498 D04v01.
4. All MIMO P_{max} 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.

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

2.4.1 Licensed Output Power

GSM/GPRS/EDGE 850										
Antenna A										
Power Level		Voice (in dBm)	Data - Burst Average GMSK (in dBm)				Data - Burst Average 8-PSK (in dBm)			
		1 TX Slot	1 TX Slots	2 TX Slots	3 TX Slots	4 TX Slots	1 TX Slots	2 TX Slots	3 TX Slots	4 TX Slots
Pmax	Max Allowed Power	34.0	34.0	31.0	30.0	28.5	29.0	26.5	25.5	23.5
	Nominal	33.0	33.0	30.0	29.0	27.5	28.0	25.5	24.5	22.5
RSI = 0 (Body-Worn, Hotspot, or Phablet)	Max Allowed Power	30.0	30.0	28.0	26.0	25.0	29.0	26.5	25.5	23.5
	Nominal	29.0	29.0	27.0	25.0	24.0	28.0	25.5	24.5	22.5
RSI = 1 (Head)	Max Allowed Power	34.0	34.0	31.0	30.0	28.5	29.0	26.5	25.5	23.5
	Nominal	33.0	33.0	30.0	29.0	27.5	28.0	25.5	24.5	22.5
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
Pmax	Max Allowed Power	34.0	34.0	32.0	29.0	27.5	28.5	26.0	24.5	23.0
	Nominal	33.0	33.0	31.0	28.0	26.5	27.5	25.0	23.5	22.0
RSI = 0 (Body-Worn, Hotspot, or Phablet)	Max Allowed Power	28.5	28.5	26.0	24.0	22.5	28.5	26.0	23.7	22.5
	Nominal	27.5	27.5	25.0	23.0	21.5	27.5	25.0	22.7	21.5
RSI = 1 (Head)	Max Allowed Power	28.5	28.5	26.0	24.0	22.5	28.5	26.0	23.7	22.5
	Nominal	27.5	27.5	25.0	23.0	21.5	27.5	25.0	22.7	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
Pmax	Max Allowed Power	31.0	31.0	28.5	26.0	25.0	26.0	23.5	21.5	21.0
	Nominal	30.0	30.0	27.5	25.0	24.0	25.0	22.5	20.5	20.0
RSI = 0 (Body-Worn, Hotspot, or Phablet)	Max Allowed Power	27.5	27.5	23.5	21.5	20.5	26.0	23.5	21.5	21.0
	Nominal	26.5	26.5	22.5	20.5	19.5	25.0	22.5	20.5	20.0
RSI = 1 (Head)	Max Allowed Power	31.0	31.0	28.5	26.0	25.0	26.0	23.5	21.5	21.0
	Nominal	30.0	30.0	27.5	25.0	24.0	25.0	22.5	20.5	20.0

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

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UMTS Band 5 (850 MHz)					
Antenna A					
Power Level		Modulated Average Output Power (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	23.0	24.0
	Nominal	24.0	23.0	22.0	23.0
RSI = 0 (Body-Worn, Hotspot, or Phablet)	Max Allowed Power	23.0	21.0	19.5	21.0
	Nominal	22.0	20.0	18.5	20.0
RSI = 1 (Head)	Max Allowed Power	25.0	24.0	23.0	24.0
	Nominal	24.0	23.0	22.0	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	24.5	24.0	23.0	24.0
	Nominal	23.5	23.0	22.0	23.0
RSI = 0 (Body-Worn, Hotspot, or Phablet)	Max Allowed Power	22.0	21.0	19.5	21.0
	Nominal	21.0	20.0	18.5	20.0
RSI = 1 (Head)	Max Allowed Power	22.0	21.0	19.5	21.0
	Nominal	21.0	20.0	18.5	20.0

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			Pmax	RSI = 0 (Body Worn, Hotspot, or Phablet)	RSI = 1 (Head)
LTE Band 12	A	Max Allowed Power	25.5	23.0	25.5
		Nominal	24.5	22.0	24.5
LTE Band 12	E	Max Allowed Power	25.0	20.0	20.0
		Nominal	24.0	19.0	19.0
LTE Band 5	A	Max Allowed Power	25.0	22.5	25.0
		Nominal	24.0	21.5	24.0
LTE Band 5	E	Max Allowed Power	24.5	20.5	20.5
		Nominal	23.5	19.5	19.5
LTE Band 66	A	Max Allowed Power	24.5	18.0	24.5
		Nominal	23.5	17.0	23.5
LTE Band 66	F	Max Allowed Power	24.0	18.0	18.0
		Nominal	23.0	17.0	17.0
LTE Band 2	A	Max Allowed Power	24.5	18.0	24.5
		Nominal	23.5	17.0	23.5
LTE Band 2	F	Max Allowed Power	24.0	19.0	19.0
		Nominal	23.0	18.0	18.0
LTE Band 41	B	Max Allowed Power	24.0	19.0	24.0
		Nominal	23.0	18.0	23.0
LTE Band 41	F	Max Allowed Power	24.0	18.0	18.0
		Nominal	23.0	17.0	17.0

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

Mode / Band	Antenna		Modulated Average Output Power (in dBm)		
			Pmax	RSI = 0 (Body Worn, Hotspot, or Phablet)	RSI = 1 (Head)
NR Band n5	A	Max Allowed Power	25.0	23.0	25.0
		Nominal	24.0	22.0	24.0
NR Band n5	E	Max Allowed Power	24.5	20.0	20.0
		Nominal	23.5	19.0	19.0
NR Band n41 PC3	B	Max Allowed Power	24.5	18.5	24.5
		Nominal	23.5	17.5	23.5
NR Band n41 PC2	B	Max Allowed Power	26.5	18.5	26.5
		Nominal	25.5	17.5	25.5

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

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2.4.1 2.4 GHz WLAN Output Power

The below table is applicable in the following conditions:

- Pmax

Band	IEEE 802.11 Modulated/Frames Output Power (in dBm)																							
	SSSO								SSSO in MIMO								SSSO in MIMO							
	Antenna H				Antenna H				Antenna H				Antenna H				Antenna J				Antenna J			
Maximum / Nominal Power	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max
2.4 GHz WLAN	19.0	18.0	18.0	17.0	18.0	17.0	18.0	17.0	19.0	18.0	18.0	17.0	18.0	17.0	18.0	17.0	17.0	16.0	16.0	15.0	16.0	15.0	16.0	15.0
	ch 12 -2.5	-3.5	ch 11 15.5	14.5	ch 11 15.5	14.5	ch 11 15.5	14.5	ch 11 15.5	14.5	ch 11 15.5	14.5	ch 11 15.5	14.5	ch 11 15.5	14.5	ch 11 13.5	12.5	ch 11 13.5	12.5	ch 11 13.5	12.5	ch 11 13.5	12.5
	ch 13 -2.5	-3.5	ch 12 -2.5	-3.5	ch 12 -2.5	-3.5	ch 12 -2.5	-3.5	ch 12 -2.5	-3.5	ch 12 -2.5	-3.5	ch 12 -2.5	-3.5	ch 12 -2.5	-3.5	ch 12 -2.5	-3.5	ch 12 -2.5	-3.5	ch 12 -2.5	-3.5	ch 12 -2.5	-3.5
	ch 13 -2.5	-3.5	ch 13 -2.5	-3.5	ch 13 -2.5	-3.5	ch 13 -2.5	-3.5	ch 13 -2.5	-3.5	ch 13 -2.5	-3.5	ch 13 -2.5	-3.5	ch 13 -2.5	-3.5	ch 13 -2.5	-3.5	ch 13 -2.5	-3.5	ch 13 -2.5	-3.5	ch 13 -2.5	-3.5

The below table is applicable in the following conditions:

- RSI = 0 (Body-Worn, Hotspot or Phablet)

Band	IEEE 802.11 Modulated/Frames Output Power (in dBm)																							
	SSSO								SSSO in MIMO								SSSO in MIMO							
	Antenna H				Antenna H				Antenna H				Antenna H				Antenna J				Antenna J			
Maximum / Nominal Power	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max
2.4 GHz WLAN	17.0	16.0	17.0	16.0	17.0	16.0	17.0	16.0	17.0	16.0	17.0	16.0	17.0	16.0	17.0	16.0	15.0	14.0	14.0	15.0	14.0	15.0	14.0	14.0
	ch 12 -2.5	-3.5	ch 11 15.5	14.5	ch 11 15.5	14.5	ch 11 15.5	14.5	ch 11 15.5	14.5	ch 11 15.5	14.5	ch 11 15.5	14.5	ch 11 15.5	14.5	ch 11 13.5	12.5	ch 11 13.5	12.5	ch 11 13.5	12.5	ch 11 13.5	12.5
	ch 13 -2.5	-3.5	ch 12 -2.5	-3.5	ch 12 -2.5	-3.5	ch 12 -2.5	-3.5	ch 12 -2.5	-3.5	ch 12 -2.5	-3.5	ch 12 -2.5	-3.5	ch 12 -2.5	-3.5	ch 12 -2.5	-3.5	ch 12 -2.5	-3.5	ch 12 -2.5	-3.5	ch 12 -2.5	-3.5
	ch 13 -2.5	-3.5	ch 13 -2.5	-3.5	ch 13 -2.5	-3.5	ch 13 -2.5	-3.5	ch 13 -2.5	-3.5	ch 13 -2.5	-3.5	ch 13 -2.5	-3.5	ch 13 -2.5	-3.5	ch 13 -2.5	-3.5	ch 13 -2.5	-3.5	ch 13 -2.5	-3.5	ch 13 -2.5	-3.5

The below table is applicable in the following conditions:

- RSI = 1 (Head)

Band	IEEE 802.11 Modulated/Frames Output Power (in dBm)																							
	SSSO								SSSO in MIMO								SSSO in MIMO							
	Antenna H				Antenna H				Antenna H				Antenna H				Antenna J				Antenna J			
Maximum / Nominal Power	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max
2.4 GHz WLAN	15.0	14.0	15.0	14.0	15.0	14.0	15.0	14.0	15.0	14.0	15.0	14.0	15.0	14.0	15.0	14.0	13.0	12.0	13.0	12.0	13.0	12.0	13.0	12.0
	ch 12 -2.5	-3.5	ch 11 15.5	14.5	ch 11 15.5	14.5	ch 11 15.5	14.5	ch 11 15.5	14.5	ch 11 15.5	14.5	ch 11 15.5	14.5	ch 11 15.5	14.5	ch 11 13.5	12.5	ch 11 13.5	12.5	ch 11 13.5	12.5	ch 11 13.5	12.5
	ch 13 -2.5	-3.5	ch 12 -2.5	-3.5	ch 12 -2.5	-3.5	ch 12 -2.5	-3.5	ch 12 -2.5	-3.5	ch 12 -2.5	-3.5	ch 12 -2.5	-3.5	ch 12 -2.5	-3.5	ch 12 -2.5	-3.5	ch 12 -2.5	-3.5	ch 12 -2.5	-3.5	ch 12 -2.5	-3.5
	ch 13 -2.5	-3.5	ch 13 -2.5	-3.5	ch 13 -2.5	-3.5	ch 13 -2.5	-3.5	ch 13 -2.5	-3.5	ch 13 -2.5	-3.5	ch 13 -2.5	-3.5	ch 13 -2.5	-3.5	ch 13 -2.5	-3.5	ch 13 -2.5	-3.5	ch 13 -2.5	-3.5	ch 13 -2.5	-3.5

2.4.2 5 GHz Maximum WLAN Output Power

The below table is applicable in the following conditions:

- Pmax, RSI = 0 (Body-Worn, Hotspot or Phablet)

Mode	Band	IEEE 802.11 Modulated/Frames Output Power (in dBm)																						
		SSSO								SSSO in MIMO								SSSO in MIMO						
		Antenna G				Antenna E				Antenna G				Antenna G				Antenna G				Antenna G		
Maximum / Nominal Power		Max	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max	Max
5 GHz WPI (SMA/BW)	UNI-1	17.0	16.0	17.0	16.0	17.0	16.0	17.0	16.0	15.0	14.0	15.0	14.0	15.0	14.0	15.0	14.0	17.0	16.0	17.0	16.0	17.0	16.0	16.0
	UNI-2A	17.0	16.0	17.0	16.0	17.0	16.0	17.0	16.0	15.0	14.0	15.0	14.0	15.0	14.0	15.0	14.0	17.0	16.0	17.0	16.0	17.0	16.0	16.0
	UNI-2C	17.0	16.0	17.0	16.0	17.0	16.0	17.0	16.0	15.0	14.0	15.0	14.0	15.0	14.0	15.0	14.0	17.0	16.0	17.0	16.0	17.0	16.0	16.0
	UNI-3	17.0	16.0	17.0	16.0	17.0	16.0	17.0	16.0	15.0	14.0	15.0	14.0	15.0	14.0	15.0	14.0	17.0	16.0	17.0	16.0	17.0	16.0	16.0
	UNI-4	17.0	16.0	17.0	16.0	17.0	16.0	17.0	16.0	15.0	14.0	15.0	14.0	15.0	14.0	15.0	14.0	17.0	16.0	17.0	16.0	17.0	16.0	16.0
5 GHz WPI (SMA/BW)	UNI-1	16.0				15.0				14.0				13.0				16.0				15.0		
	UNI-2A	16.0				15.0				14.0				13.0				16.0				15.0		
	UNI-2C	16.0				15.0				14.0				13.0				16.0				15.0		
	UNI-3	16.0				15.0				14.0				13.0				16.0				15.0		
	UNI-4	16.0				15.0				14.0				13.0				16.0				15.0		
5 GHz WPI (SMA/BW)	UNI-1	12.5				11.5				10.5				9.5				12.5				11.5		
	UNI-2A	12.5				11.5				10.5				9.5				12.5				11.5		
	UNI-2C	12.5				11.5				10.5				9.5				12.5				11.5		
	UNI-3	12.5				11.5				10.5				9.5				12.5				11.5		
	UNI-4	12.5				11.5				10.5				9.5				12.5				11.5		

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- RSI = 1 (Head)

Mode	Band	IEEE 802.11 Modulated/Frame Output Power (in dBm)																												
		SISO								SISO in MIMO								SISO in MIMO												
		Antenna G				Antenna E				Antenna G				Antenna E				Antenna G				Antenna E								
Maximum / Nominal Power	a		ax (SU)		a		ax (SU)		a		ax (SU)		a		ax (SU)		a		ax (SU)		a		ax (SU)		a		ax (SU)			
	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 WIF (20MHz BW)	UNII-1	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	
	UNII-2A	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	
	UNII-2C	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	
	UNII-3	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	
	UNII-4	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	
5 GHz WIF (40MHz BW)	UNII-1			14.0	13.0	14.0	13.0	14.0	13.0			12.0	11.0	12.0	11.0	12.0	11.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	
	UNII-2A	ch. 36		12.5	11.5	ch. 38	12.5	11.5	ch. 36	12.5	11.5	ch. 38	11.0	10.0	ch. 36	11.0	10.0	ch. 38	14.0	13.0	11.5	ch. 36	12.5	11.5	ch. 38	12.5	11.5	ch. 36	12.5	11.5
	UNII-2C			14.0	13.0	14.0	13.0	14.0	13.0			12.0	11.0	12.0	11.0	12.0	11.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	
	UNII-3			14.0	13.0	14.0	13.0	14.0	13.0			12.0	11.0	12.0	11.0	12.0	11.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	
	UNII-4			14.0	13.0	14.0	13.0	14.0	13.0			12.0	11.0	12.0	11.0	12.0	11.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	
5 GHz WIF (80MHz BW)	UNII-1					12.5	11.5	12.5	11.5					10.5	9.5	10.5	9.5					12.5	11.5	12.5	11.5					
	UNII-2A					12.5	11.5	12.5	11.5					10.5	9.5	10.5	9.5					12.5	11.5	12.5	11.5					
	UNII-2C					12.5	11.5	12.5	11.5					10.5	9.5	10.5	9.5					12.5	11.5	12.5	11.5					
	UNII-3					12.5	11.5	12.5	11.5					10.5	9.5	10.5	9.5					12.5	11.5	12.5	11.5					
	UNII-4					12.5	11.5	12.5	11.5					10.5	9.5	10.5	9.5					12.5	11.5	12.5	11.5					

2.4.3 6 GHz Maximum WLAN Output Power

The below table is applicable in the following conditions:

- Pmax, RSI = 0 (Body-Worn, Hotspot or Phablet), RSI = 1 (Head)

Mode	Band	IEEE 802.11 Modulated/Frame Output Power (in dBm)											
		SISO				SISO in MIMO				SISO in MIMO			
		Antenna G				Antenna E				Antenna G			
		a		ax (SU)		a		ax (SU)		a (CDD + STBC)		ax (SU) (CDD + STBC, SDM)	
Maximum / Nominal Power		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	7.0	6.0	7.0	6.0	10.0	9.0	10.0	9.0
	UNII-6	10.0	9.0	10.0	9.0	7.0	6.0	7.0	6.0	10.0	9.0	10.0	9.0
	UNII-7	10.0	9.0	10.0	9.0	7.0	6.0	7.0	6.0	10.0	9.0	10.0	9.0
	UNII-8	10.0	9.0	10.0	9.0	7.0	6.0	7.0	6.0	10.0	9.0	10.0	9.0
6 GHz WiFi (40MHz BW) - LPI	UNII-5			10.0	9.0			7.0	6.0			10.0	9.0
	UNII-6			10.0	9.0			7.0	6.0			10.0	9.0
	UNII-7			10.0	9.0			7.0	6.0			10.0	9.0
	UNII-8			10.0	9.0			7.0	6.0			10.0	9.0
6 GHz WiFi (80MHz BW) - LPI	UNII-5			10.0	9.0			7.0	6.0			10.0	9.0
	UNII-6			10.0	9.0			7.0	6.0			10.0	9.0
	UNII-7			10.0	9.0			7.0	6.0			10.0	9.0
	UNII-8			10.0	9.0			7.0	6.0			10.0	9.0
Mode	Band	IEEE 802.11 Modulated/Frame Output Power (in dBm)											
		SISO				SISO in MIMO				SISO in MIMO			
		Antenna G				Antenna E				Antenna G			
		a		ax (SU)		a		ax (SU)		a (CDD + STBC)		ax (SU) (CDD + STBC, SDM)	
Maximum / Nominal Power		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	7.0	6.0	7.0	6.0	10.0	9.0	10.0	9.0
	UNII-7	10.0	9.0	10.0	9.0	7.0	6.0	7.0	6.0	10.0	9.0	10.0	9.0
6 GHz WiFi (40MHz BW) - SP	UNII-5			10.0	9.0			7.0	6.0			10.0	9.0
	UNII-7			10.0	9.0			7.0	6.0			10.0	9.0
6 GHz WiFi (80MHz BW) - SP	UNII-5			10.0	9.0			7.0	6.0			10.0	9.0
	UNII-7			10.0	9.0			7.0	6.0			10.0	9.0

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Mode	Band	IEEE 802.11 Modulated/Frame Output Power (in dBm)											
		SISO				SISO in MIMO				SISO in MIMO			
		Antenna G				Antenna E				Antenna G			
		a		ax (SU)		a		ax (SU)		a (CDD + STBC)		ax (SU) (CDD + STBC, SDM)	
Maximum / Nominal Power		Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.
6 GHz WiFi (20MHz BW) - VLP	UNII-5	5.5	4.5	5.5	4.5	2.5	1.5	2.5	1.5	5.5	4.5	5.5	4.5
	UNII-6	5.5	4.5	5.5	4.5	2.5	1.5	2.5	1.5	5.5	4.5	5.5	4.5
	UNII-7	5.5	4.5	5.5	4.5	2.5	1.5	2.5	1.5	5.5	4.5	5.5	4.5
	UNII-8	5.5	4.5	5.5	4.5	2.5	1.5	2.5	1.5	5.5	4.5	5.5	4.5
6 GHz WiFi (40MHz BW) - VLP	UNII-5			5.5	4.5			2.5	1.5			5.5	4.5
	UNII-6			5.5	4.5			2.5	1.5			5.5	4.5
	UNII-7			5.5	4.5			2.5	1.5			5.5	4.5
	UNII-8			5.5	4.5			2.5	1.5			5.5	4.5
6 GHz WiFi (80MHz BW) - VLP	UNII-5			5.5	4.5			2.5	1.5			5.5	4.5
	UNII-6			5.5	4.5			2.5	1.5			5.5	4.5
	UNII-7			5.5	4.5			2.5	1.5			5.5	4.5
	UNII-8			5.5	4.5			2.5	1.5			5.5	4.5

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2.4.4 2.4 GHz Bluetooth Maximum Output Power

The below table is applicable in the following conditions:

- Pmax, RSI = 0 (Body-Worn, Hotspot, or Phablet), RSI = 1 (Head)

Mode	Data Rate	Modulated Output Power (in dBm)	
		Single Antenna	
		Antenna H	
Maximum / Nominal Power		Max	Nom.
Bluetooth	1Mbps	18.5	17.5
Bluetooth EDR	2Mbps	13.5	12.5
Bluetooth EDR	3Mbps	13.5	12.5
Bluetooth LE	1Mbps	9.5	8.5
Bluetooth LE	2Mbps	9.5	8.5
Bluetooth LE	125kbps	9.5	8.5
Bluetooth LE	500kbps	9.5	8.5

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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
E	Yes	Yes	Yes	No	Yes	No
F	Yes	Yes	Yes	No	No	Yes
G	Yes	Yes	Yes	No	No	Yes
H	Yes	Yes	Yes	No	No	Yes
J	Yes	Yes	Yes	No	Yes	No
MIMO	Yes	Yes	Yes	No	Yes	Yes

Note: Particular DUT edges were not required to be evaluated for wireless router SAR or phablet SAR if the edges were greater than 2.5 cm from the transmitting antenna according to FCC KDB Publication 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-1, 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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2.7 Simultaneous Transmission Capabilities

According to FCC KDB Publication 447498 D04v01, transmitters are considered to be operating simultaneously when there is overlapping transmission, with the exception of transmissions during network hand-offs with maximum hand-off duration less than 30 seconds.

This device contains multiple transmitters that may operate simultaneously, and therefore requires a simultaneous transmission analysis according to FCC KDB Publication 447498 D04v01 procedures.

Table 2-2
Simultaneous Transmission Scenarios

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

1. No other simultaneous scenarios besides described above is supported for this model.
2. When the user utilizes multiple services in UMTS 3G mode it uses multi-Radio Access Bearer or multi-RAB. The power control is based on a physical control channel (Dedicated Physical Control Channel [DPCCH]) and power control will be adjusted to meet the needs of both services. Therefore, the UMTS+WLAN scenario also represents the UMTS Voice/DATA + WLAN Hotspot scenario.
3. Per the manufacturer, WIFI Direct is not expected to be used in conjunction with a held-to-ear or body-worn accessory voice call. Therefore, there are no simultaneous transmission scenarios involving WIFI direct beyond that listed in the above table.
4. 5 GHz Wireless Router is only supported for U-NII-3 by S/W, therefore U-NII-1, U-NII-2A, U-NII-2C, and U-NII-4 were not evaluated for wireless router conditions.
5. 6 GHz Wireless Router is only supported for VLP, therefore SP and LPI were not evaluated for wireless router conditions.

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6. This device supports 2x2 MIMO Tx for WLAN 802.11a/b/g/n/ac/ax/be. 802.11a/b/g/n/ac/ax/be supports CDD and STBC and 802.11n/ac/ax/be additionally supports SDM.
7. This device supports VoWiFi.
8. This device supports Bluetooth Tethering.
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. NFC was evaluated for phablet based on expected usage conditions.

2.8 Miscellaneous SAR Test Considerations

(A) WIFI/BT

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

Since Wireless Router operations are not allowed by the chipset firmware using U-NII-1, U-NII-2A, U-NII-2C, U-NII-4 WIFI and 6 GHz SP/LPI, only 2.4 GHz WIFI, 2.4 GHz Bluetooth Ant H, 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 with the following features:

- a) Up to 80 MHz Bandwidth only for 5/6 GHz
- b) Up to 20 MHz Bandwidth only for 2.4 GHz
- c) 2 Tx antenna output
- d) Up to 4KQAM is supported
- e) TDWR and Band gap channels are supported for 5/6 GHz
- f) MU-MIMO UL Operations are not supported

Per FCC KDB Publication 648474 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 supported for U-NII-1, U-NII-2A, U-NII-2C, U-NII-4 WIFI and 6 GHz SP/LPI, phablet SAR tests were performed. Phablet SAR was not evaluated for 2.4 GHz WLAN, 2.4 GHz Bluetooth, U-NII-3, and 6 GHz VLP 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 follows initial test configuration procedures of KDB 248227, with 802.11ax considered a higher order 802.11 mode.

Per FCC guidance, SAR was performed using 6.5 GHz SAR probe calibration factors for WIFI 6GHz. 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.

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

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. Therefore, phablet SAR tests are required when wireless router mode does not apply or if wireless router 1g SAR > 1.2 W/kg.

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

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

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

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

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

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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 D01v06r03 (Phablet Procedures)
- October 2013 TCB Workshop Notes (GPRS Testing Considerations)
- May 2017 TCB Workshop Notes (LTE 4x4 Downlink MIMO)
- November 2017, April 2018, October 2018 TCB Workshop Notes (LTE Carrier Aggregation)
- April 2019 TCB Workshop Notes (IEEE 802.11ax)
- 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

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 Section 12, Section 13, and Section 14.

2.11 Bibliography

Report Type	Report Serial Number
RF Exposure Part 2 Test Report	1M2512010100-03.A3L
RF Exposure Compliance Summary Report	1M2512010100-04.A3L
RF Exposure Part 0 Test Report	1M2512010100-02.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 5: 824.7 - 848.3 MHz				
	LTE Band 66: 1710.7 - 1779.3 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 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 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 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 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 16, DL UE Cat 5				
Modulations Supported in UL	QPSK, 16QAM, 64QAM				
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 and 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, eICIC, eMBMS, Wifi 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 n5: 826.5 - 846.5 MHz				
	NR Band n41: 2501.01 - 2685 MHz				
Channel Bandwidths	NR Band n5: 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	NR Band n41: 10 MHz, 15 MHz, 20 MHz, 30 MHz, 35 MHz, 40 MHz, 45 MHz, 60 MHz, 70 MHz, 80 MHz, 90 MHz, 100 MHz				
Channel Numbers and Frequencies (MHz)					
NR Band n5: 5 MHz	826.5 (165300)		836.5 (167300)		846.5 (169300)
NR Band n5: 10 MHz	829 (165800)		836.5 (167300)		844 (168800)
NR Band n5: 15 MHz	831.5 (166300)		836.5 (167300)		841.5 (168300)
NR Band n5: 20 MHz	834 (166800)		836.5 (167300)		839 (167800)
NR Band n41: 10 MHz	2501.01 (500202)	2547 (509400)	2592.99 (518598)	2639.01 (527802)	2685 (537000)
NR Band n41: 15 MHz	2503.5 (500700)	2548.26 (509652)	2592.99 (518598)	2637.75 (527550)	2682.51 (536502)
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: 35 MHz	2513.52 (502704)	2553.24 (510648)	2592.99 (518598)	2632.74 (526548)	2672.49 (534498)
NR Band n41: 40 MHz	2616.01 (523202)	2567.34 (513468)	(N/A)	2618.67 (523734)	2670 (534000)
NR Band n41: 45 MHz	2518.5 (503700)	2568.18 (513636)	(N/A)	2617.83 (523566)	2667.48 (533496)
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)
SCS for NR Band n5	15 kHz				
SCS for NR Band n41	30 kHz				
Modulations Supported in UL	DFT-s-OFDM: $\pi/2$ -BPSK, QPSK, 16QAM, 64QAM, 256QAM CP-OFDM: QPSK, 16QAM, 64QAM, 256QAM				
A-MPR (Additional MPR) disabled for SAR Testing?	YES				
EN-DC and NR Carrier Aggregation Possible Combinations	The technical description includes all the possible carrier aggregation combinations				
LTE Anchor Bands for NR Band n5	66				
LTE Anchor Bands for NR Band n41	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.

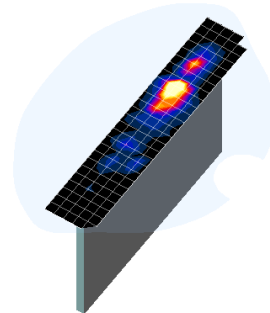


Figure 5-1
Sample SAR Area
Scan

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

*Also compliant to IEEE 1528-2013 Table 6

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6 DEFINITION OF REFERENCE POINTS

6.1 EAR REFERENCE POINT

Figure 6-2 shows the front, back and side views of the SAM Twin Phantom. The point “M” is the reference point for the center of the mouth, “LE” is the left ear reference point (ERP), and “RE” is the right ERP. The ERP is 15mm posterior to the entrance to the ear canal (EEC) along the B-M line (Back-Mouth), as shown in Figure 6-1. The plane passing through the two ear canals and M is defined as the Reference Plane. The line N-F (Neck-Front), also called the Reference Pivoting Line, is not perpendicular to the reference plane (see Figure 6-1). Line B-M is perpendicular to the N-F line. Both N-F and B-M lines are marked on the external phantom shell to facilitate handset positioning [5].

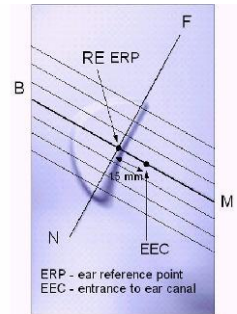


Figure 6-1
Close-Up Side view
of ERP

6.2 HANDSET REFERENCE POINTS

Two imaginary lines on the handset were established: the vertical centerline and the horizontal line. The test device was placed in a normal operating position with the acoustic output located along the “vertical centerline” on the front of the device aligned to the “ear reference point” (See Figure 6-3). The acoustic output was then located at the same level as the center of the ear reference point. The test device was positioned so that the “vertical centerline” was bisecting the front surface of the handset at its top and bottom edges, positioning the “ear reference point” on the outer surface of the both the left and right head phantoms on the ear reference point.



Figure 6-2
Front, back and side view of SAM Twin Phantom

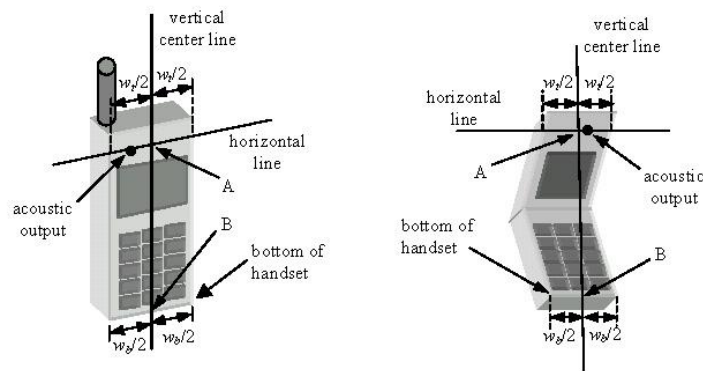


Figure 6-3
Handset Vertical Center & Horizontal Line Reference Points

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7 TEST CONFIGURATION POSITIONS

7.1 Device Holder

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

7.2 Positioning for Cheek

1. The test device was positioned with the device close to the surface of the phantom such that point A is on the (virtual) extension of the line passing through points RE and LE on the phantom (see Figure 7-1), such that the plane defined by the vertical center line and the horizontal line of the phone is approximately parallel to the sagittal plane of the phantom.

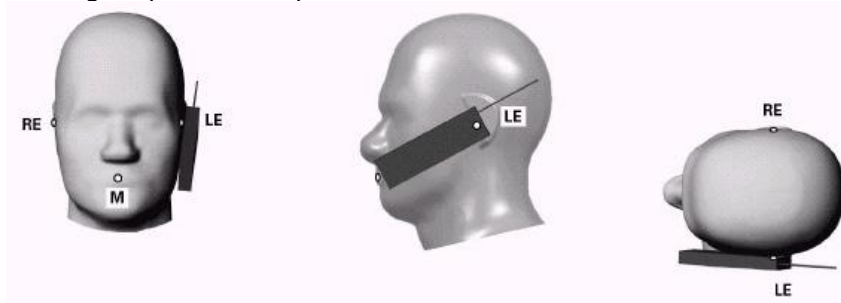


Figure 7-1 Front, Side and Top View of Cheek Position

2. The handset was translated towards the phantom along the line passing through RE & LE until the handset touches the pinna.
3. While maintaining the handset in this plane, the handset was rotated around the LE-RE line until the vertical centerline was in the reference plane.
4. The phone was then rotated around the vertical centerline until the phone (horizontal line) was symmetrical with respect to the line NF.
5. While maintaining the vertical centerline in the reference plane, keeping point A on the line passing through RE and LE, and maintaining the device contact with the ear, the device was rotated about the NF line until any point on the handset made contact with a phantom point below the ear (cheek) (See Figure 7-2).

7.3 Positioning for Ear / 15° Tilt

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

1. While maintaining the orientation of the phone, the phone was retracted parallel to the reference plane far enough to enable a rotation of the phone by 15 degrees.
2. The phone was then rotated around the horizontal line by 15 degrees.
3. While maintaining the orientation of the phone, the phone was moved parallel to the reference plane until any part of the handset touched the head. (In this position, point A was located on the line RE-LE). The tilted position is obtained when the contact is on the pinna. If the contact was at any location other than the pinna, the angle of the phone would then be reduced. In this situation, the tilted position was obtained when any part of the phone was in contact of the ear as well as a second part of the phone was in contact with the head (see Figure 7-2).

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

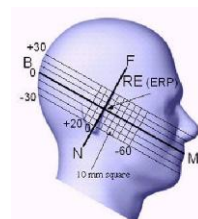


Figure 7-3 Side view w/ relevant markings

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

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

Under these circumstances, the following procedures apply, adopted from the FCC guidance on SAR handsets document FCC KDB Publication 648474 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.

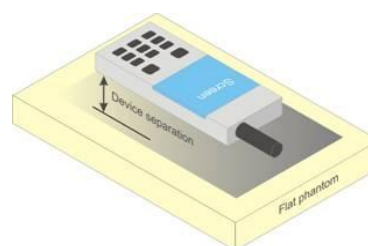


Figure 7-4 Sample Body-Worn Diagram

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.

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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 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.

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All uplink communications and acknowledgements remain identical to specifications when downlink 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_{limit} for RSI = 0 (Body-worn, Hotspot, or Phablet) for GSM 850/1900 Ant A

Maximum Burst-Averaged Output Power										
		Voice	GPRS/EDGE Data (GMSK)				EDGE Data (8-PSK)			
Band	Channel	GSM [dBm] CS (1 Slot)	GPRS [dBm] 1 Tx Slot	GPRS [dBm] 2 Tx Slot	GPRS [dBm] 3 Tx Slot	GPRS [dBm] 4 Tx Slot	EDGE [dBm] 1 Tx Slot	EDGE [dBm] 2 Tx Slot	EDGE [dBm] 3 Tx Slot	EDGE [dBm] 4 Tx Slot
GSM 850	128	29.60	29.79	27.14	25.11	23.60	28.18	26.27	24.77	23.05
	190	29.64	29.83	27.43	25.26	23.81	28.38	26.49	24.94	23.25
	251	29.77	29.81	27.41	25.18	23.93	28.78	26.46	25.19	23.47
GSM 1900	512	26.17	26.38	22.91	20.75	19.56	25.79	22.64	20.52	20.74
	661	26.08	26.31	22.70	20.66	19.36	25.76	22.70	20.02	20.82
	810	25.98	26.22	22.56	20.51	19.27	25.89	22.56	19.63	20.65

Calculated Maximum Frame-Averaged Output Power										
		Voice	GPRS/EDGE Data (GMSK)				EDGE Data (8-PSK)			
Band	Channel	GSM [dBm] CS (1 Slot)	GPRS [dBm] 1 Tx Slot	GPRS [dBm] 2 Tx Slot	GPRS [dBm] 3 Tx Slot	GPRS [dBm] 4 Tx Slot	EDGE [dBm] 1 Tx Slot	EDGE [dBm] 2 Tx Slot	EDGE [dBm] 3 Tx Slot	EDGE [dBm] 4 Tx Slot
GSM 850	128	20.40	20.59	20.95	20.68	20.42	18.98	20.08	20.34	19.87
	190	20.44	20.63	21.24	20.83	20.63	19.18	20.30	20.51	20.07
	251	20.57	20.61	21.22	20.75	20.75	19.58	20.27	20.76	20.29
GSM 1900	512	16.97	17.18	16.72	16.32	16.38	16.59	16.45	16.09	17.56
	661	16.88	17.11	16.51	16.23	16.18	16.56	16.51	15.59	17.64
	810	16.78	17.02	16.37	16.08	16.09	16.69	16.37	15.20	17.47

GSM 850	Frame	19.80	19.80	20.81	20.57	20.82	18.80	19.31	20.07	19.32
GSM 1900	Avg.Targets:	17.30	17.30	16.31	16.07	16.32	15.80	16.31	16.07	16.82

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Table 10-2
Measured P_{max} for RSI = 1 (Head) for GSM 850/1900 Ant A

Maximum Burst-Averaged Output Power										
		Voice	GPRS/EDGE Data (GMSK)				EDGE Data (8-PSK)			
Band	Channel	GSM [dBm] CS (1 Slot)	GPRS [dBm] 1 Tx Slot	GPRS [dBm] 2 Tx Slot	GPRS [dBm] 3 Tx Slot	GPRS [dBm] 4 Tx Slot	EDGE [dBm] 1 Tx Slot	EDGE [dBm] 2 Tx Slot	EDGE [dBm] 3 Tx Slot	EDGE [dBm] 4 Tx Slot
GSM 850	128	33.66	33.57	30.39	29.36	28.26	28.18	26.27	24.77	23.05
	190	33.53	33.54	30.46	29.53	28.39	28.38	26.49	24.94	23.25
	251	33.50	33.51	30.44	29.50	28.42	28.78	26.46	25.19	23.47
GSM 1900	512	29.74	29.92	27.36	25.78	24.42	25.79	22.64	21.41	20.74
	661	29.97	30.14	27.32	25.56	24.16	25.76	22.70	21.08	20.82
	810	30.16	30.48	27.27	25.34	23.98	25.89	22.56	20.63	20.65

Calculated Maximum Frame-Averaged Output Power										
		Voice	GPRS/EDGE Data (GMSK)				EDGE Data (8-PSK)			
Band	Channel	GSM [dBm] CS (1 Slot)	GPRS [dBm] 1 Tx Slot	GPRS [dBm] 2 Tx Slot	GPRS [dBm] 3 Tx Slot	GPRS [dBm] 4 Tx Slot	EDGE [dBm] 1 Tx Slot	EDGE [dBm] 2 Tx Slot	EDGE [dBm] 3 Tx Slot	EDGE [dBm] 4 Tx Slot
GSM 850	128	24.46	24.37	24.20	24.93	25.08	18.98	20.08	20.34	19.87
	190	24.33	24.34	24.27	25.10	25.21	19.18	20.30	20.51	20.07
	251	24.30	24.31	24.25	25.07	25.24	19.58	20.27	20.76	20.29
GSM 1900	512	20.54	20.72	21.17	21.35	21.24	16.59	16.45	16.98	17.56
	661	20.77	20.94	21.13	21.13	20.98	16.56	16.51	16.65	17.64
	810	20.96	21.28	21.08	20.91	20.80	16.69	16.37	16.20	17.47

GSM 850	Frame	23.80	23.80	23.81	24.57	24.32	18.80	19.31	20.07	19.32
GSM 1900	Avg.Targets:	20.80	20.80	21.31	20.57	20.82	15.80	16.31	16.07	16.82

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Table 10-3
Measured P_{limit} for all RSI for GSM 850 Ant E

Maximum Burst-Averaged Output Power										
		Voice	GPRS/EDGE Data (GMSK)				EDGE Data (8-PSK)			
Band	Channel	GSM [dBm] CS (1 Slot)	GPRS [dBm] 1 Tx Slot	GPRS [dBm] 2 Tx Slot	GPRS [dBm] 3 Tx Slot	GPRS [dBm] 4 Tx Slot	EDGE [dBm] 1 Tx Slot	EDGE [dBm] 2 Tx Slot	EDGE [dBm] 3 Tx Slot	EDGE [dBm] 4 Tx Slot
GSM 850	128	27.95	28.14	25.34	22.98	21.80	28.22	25.38	23.08	22.45
	190	28.07	28.26	25.44	23.23	22.13	28.47	25.98	23.35	22.30
	251	28.34	28.35	25.69	23.24	22.18	28.49	25.99	23.70	22.48

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	18.75	18.94	19.15	18.55	18.62	19.02	19.19	18.65	19.27
	190	18.87	19.06	19.25	18.80	18.95	19.27	19.79	18.92	19.12
	251	19.14	19.15	19.50	18.81	19.00	19.29	19.80	19.27	19.30

GSM 850	Frame Avg. Targets:	18.30	18.30	18.81	18.57	18.32	18.30	18.81	18.27	18.32
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Note:

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

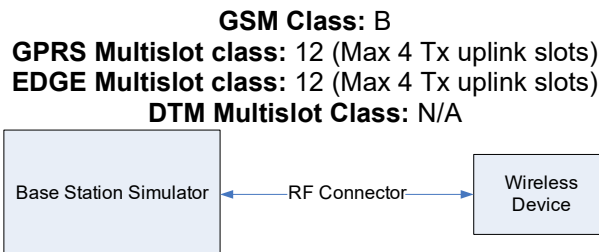


Figure 10-1
Power Measurement Setup

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10.2 UMTS Conducted Powers

Table 10-4
Measured P_{limit} for RSI = 0 (Body-worn, Hotspot, or Phablet) for UMTS 850 Ant A

3GPP Release Version	Mode	3GPP 34.121 Subtest	Cellular Band [dBm]			MPR [dB]
			4132	4183	4233	
99	WCDMA	12.2 kbps RMC	21.75	21.61	21.59	-
99		12.2 kbps AMR	21.77	21.67	21.66	-
6	HSDPA	Subtest 1	20.54	20.77	20.76	0
6		Subtest 2	20.55	20.77	20.78	0
6		Subtest 3	20.55	20.77	20.78	0
6		Subtest 4	20.56	20.79	20.79	0
6	HSUPA	Subtest 1	18.56	18.57	18.51	0
6		Subtest 2	18.38	18.55	18.52	0
6		Subtest 3	18.31	18.52	18.54	0
6		Subtest 4	18.30	18.49	18.54	0
6		Subtest 5	18.57	18.83	18.92	0
8	DC-HSDPA	Subtest 1	20.62	20.78	20.60	0
8		Subtest 2	20.62	20.74	20.60	0
8		Subtest 3	20.66	20.77	20.64	0
8		Subtest 4	20.62	20.75	20.65	0

Table 10-5
Measured P_{max} for RSI = 1 (Head) for UMTS 850 Ant A

3GPP Release Version	Mode	3GPP 34.121 Subtest	Cellular Band [dBm]			3GPP MPR [dB]
			4132	4183	4233	
99	WCDMA	12.2 kbps RMC	24.64	24.50	24.40	-
99		12.2 kbps AMR	24.04	23.95	23.91	-
6	HSDPA	Subtest 1	23.64	23.54	23.49	0
6		Subtest 2	22.59	22.51	22.49	0
6		Subtest 3	21.59	21.55	21.51	0.5
6		Subtest 4	21.61	21.56	21.50	0.5
6	HSUPA	Subtest 1	22.43	22.47	22.42	0
6		Subtest 2	20.43	20.36	20.26	2
6		Subtest 3	21.51	21.47	21.38	1
6		Subtest 4	20.45	20.38	20.31	2
6		Subtest 5	22.82	22.93	22.90	0
8	DC-HSDPA	Subtest 1	23.60	23.64	23.52	0
8		Subtest 2	22.71	22.70	22.68	0
8		Subtest 3	21.88	21.65	21.63	0.5
8		Subtest 4	21.66	21.57	21.50	0.5

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Table 10-6
Measured P_{limit} for all RSI for UMTS 850 Ant E

3GPP Release Version	Mode	3GPP 34.121 Subtest	Cellular Band [dBm]			MPR [dB]
			4132	4183	4233	
99	WCDMA	12.2 kbps RMC	20.19	20.17	20.09	-
99		12.2 kbps AMR	20.25	20.23	20.12	-
6	HSDPA	Subtest 1	19.23	19.16	19.06	0
6		Subtest 2	19.66	19.67	19.57	0
6		Subtest 3	19.22	19.18	19.14	0
6		Subtest 4	19.74	19.71	19.55	0
6	HSUPA	Subtest 1	18.25	18.23	18.11	0
6		Subtest 2	18.22	18.20	18.13	0
6		Subtest 3	18.22	18.17	18.07	0
6		Subtest 4	18.18	18.18	18.05	0
6		Subtest 5	19.25	19.20	19.09	0
8	DC-HSDPA	Subtest 1	19.35	19.18	19.09	0
8		Subtest 2	19.88	19.72	19.86	0
8		Subtest 3	19.72	19.64	19.62	0
8		Subtest 4	19.86	19.74	19.68	0

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 10-7
LTE Band 12 Ant A Measured P_{limit} for RSI = 0 (Body-Worn, Hotspot, or Phablet) - 10 MHz Bandwidth

LTE Band 12 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23095.0 (707.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	21.91	0	0
	1	25	22.03		0
	1	49	22.06		0
	25	0	21.99	0-1	0
	25	12	22.00		0
	25	25	22.06		0
	50	0	21.99		0
	50	0	21.99		0
16QAM	1	0	21.63	0-1	0
	1	25	21.74		0
	1	49	21.77		0
	25	0	22.00	0-2	0
	25	12	22.05		0
	25	25	22.06		0
	50	0	22.01		0
	50	0	22.01		0
64QAM	1	0	22.20	0-2	0
	1	25	22.20		0
	1	49	22.37		0
	25	0	21.23	0-3	0.5
	25	12	21.27		0.5
	25	25	21.33		0.5
	50	0	21.31		0.5
	50	0	21.31		0.5

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Table 10-8
LTE Band 12 Ant A Measured P_{max} for RSI = 1(Head) - 10 MHz Bandwidth

LTE Band 12 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23095.0 (707.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	24.32	0	0
	1	25	24.39		0
	1	49	24.49		0
	25	0	23.33	0-1	1
	25	12	23.40		1
	25	25	23.42		1
16QAM	50	0	23.36	0-1	1
	1	0	23.70		1
	1	25	23.75		1
	1	49	23.81	0-2	1
	25	0	22.33		2
	25	12	22.41		2
64QAM	25	25	22.43	0-2	2
	50	0	22.37		2
	1	0	22.30	0-2	2
	1	25	22.37		2
	1	49	22.45		2
	25	0	21.26	0-3	3
	25	12	21.30		3
	25	25	21.35		3
	50	0	21.33		3

Table 10-9
LTE Band 12 Ant E Measured P_{limit} for all RSI - 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	19.25	0	0
	1	25	19.36		0
	1	49	19.44		0
	25	0	19.38	0-1	0
	25	12	19.40		0
	25	25	19.44		0
16QAM	50	0	19.42	0-1	0
	1	0	19.57		0
	1	25	19.64		0
	1	49	19.68	0-2	0
	25	0	19.34		0
	25	12	19.41		0
64QAM	25	25	19.45	0-2	0
	50	0	19.44		0
	1	0	19.38	0-2	0
	1	25	19.47		0
	1	49	19.48		0
	25	0	19.38	0-3	0
	25	12	19.45		0
	25	25	19.47		0
	50	0	19.38		0

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10.3.2 LTE Band 5

Table 10-10

LTE Band 5 Ant A Measured P_{limit} for RSI = 0(Body-Worn, Hotspot, or Phablet) - 10 MHz Bandwidth

LTE Band 5 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20525.0 (836.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	21.65	0	0
	1	25	21.02		0
	1	49	21.13		0
	25	0	21.63	0-1	0
	25	12	21.59		0
	25	25	21.59		0
	50	0	21.58		0
	50	0	21.58		0
16QAM	1	0	21.54	0-1	0
	1	25	21.37		0
	1	49	21.43		0
	25	0	21.58	0-2	0
	25	12	21.57		0
	25	25	21.50		0
	50	0	21.48		0
	50	0	21.48		0
64QAM	1	0	21.51	0-2	0
	1	25	21.27		0
	1	49	21.39		0
	25	0	21.42	0-3	0.5
	25	12	21.49		0.5
	25	25	21.47		0.5
	50	0	21.20		0.5
	50	0	21.20		0.5

Table 10-11

LTE Band 5 Ant A Measured P_{max} for RSI = 1(Head) - 10 MHz Bandwidth

LTE Band 5 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20525.0 (836.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	24.14	0	0
	1	25	23.93		0
	1	49	24.05		0
	25	0	23.44	0-1	1
	25	12	23.41		1
	25	25	23.39		1
	50	0	23.37		1
	50	0	23.37		1
16QAM	1	0	23.37	0-1	1
	1	25	23.23		1
	1	49	23.30		1
	25	0	22.38	0-2	2
	25	12	22.34		2
	25	25	22.30		2
	50	0	22.28		2
	50	0	22.28		2
64QAM	1	0	22.27	0-2	2
	1	25	22.05		2
	1	49	22.14		2
	25	0	21.54	0-3	3
	25	12	21.47		3
	25	25	21.47		3
	50	0	21.18		3
	50	0	21.18		3

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Table 10-12
LTE Band 5 Ant E Measured P_{limit} for all RSI - 10 MHz Bandwidth

LTE Band 5 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			20525.0 (836.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	19.01	0	0
	1	25	18.85		0
	1	49	18.90		0
	25	0	19.12	0-1	0
	25	12	19.11		0
	25	25	19.08		0
16QAM	50	0	18.99	0-1	0
	1	0	19.50		0
	1	25	19.31		0
	1	49	19.39	0-2	0
	25	0	19.18		0
	25	12	19.16		0
64QAM	25	25	19.17	0-2	0
	50	0	19.04		0
	1	0	18.99	0-2	0
	1	25	18.84		0
	1	49	18.89	0-3	0
	25	0	18.97		0
64QAM	25	12	18.94		0
	25	25	18.93		0
	50	0	19.22		0

10.3.3 LTE Band 66

Table 10-13
LTE Band 66 (AWS) Ant A Measured P_{limit} for RSI = 0 (Body-Worn, Hotspot, or Phablet) - 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	17.71	17.22	17.41	0	0
	1	50	17.31	17.47	17.13		0
	1	99	17.19	17.45	17.12		0
	50	0	17.54	17.50	17.33	0-1	0
	50	25	17.37	17.61	17.19		0
	50	50	17.20	17.63	17.05		0
16QAM	100	0	17.35	17.62	17.18	0-1	0
	1	0	17.62	17.30	17.67		0
	1	50	17.29	17.54	17.35		0
	1	99	17.02	17.50	17.39	0-2	0
	50	0	17.51	17.40	17.29		0
	50	25	17.35	17.54	17.11		0
64QAM	50	50	17.20	17.54	16.97	0-2	0
	100	0	17.33	17.58	17.14		0
	1	0	18.00	17.67	17.45	0-2	0
	1	50	17.66	17.89	17.20		0
	1	99	17.58	17.89	17.21	0-3	0
	50	0	17.55	17.46	17.29		0
64QAM	50	25	17.38	17.58	17.13	0-3	0
	50	50	17.26	17.59	16.98		0
	100	0	17.46	17.60	17.17		0

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Table 10-14
LTE Band 66 (AWS) Ant A Measured P_{max} for RSI = 1(Head) - 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	23.84	23.48	23.53	0	0
	1	50	23.42	23.68	23.24		0
	1	99	23.33	23.69	23.25		0
	50	0	22.72	22.62	22.41	0-1	1
	50	25	22.56	22.77	22.29		1
	50	50	22.37	22.76	22.15		1
	100	0	22.58	22.76	22.31	1	
	1	0	22.81	22.42	22.79	0-1	1
	1	50	22.41	22.62	22.47		1
	1	99	22.24	22.61	22.48		1
16QAM	50	0	21.71	21.50	21.40	0-2	2
	50	25	21.56	21.65	21.25		2
	50	50	21.37	21.68	21.09		2
	100	0	21.56	21.73	21.29	2	
	1	0	22.22	21.83	21.56	0-2	2
	1	50	21.80	22.06	21.27		2
	1	99	21.72	21.99	21.31		2
	50	0	20.73	20.59	20.41	0-3	3
	50	25	20.56	20.73	20.27		3
	50	50	20.38	20.72	20.12		3
64QAM	100	0	20.59	20.74	20.30		3

Table 10-15
LTE Band 66 (AWS) Ant F Measured P_{limit} for all RSI - 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	17.42	17.24	17.17	0	0
	1	50	17.20	17.43	17.06		0
	1	99	17.24	17.64	16.99		0
	50	0	17.34	17.38	17.35	0-1	0
	50	25	17.27	17.50	17.26		0
	50	50	17.21	17.64	17.14		0
	100	0	17.26	17.50	17.24	0	
	1	0	17.67	17.19	17.26	0-1	0
	1	50	17.49	17.41	17.14		0
	1	99	17.59	17.56	17.07		0
16QAM	50	0	17.32	17.38	17.25	0-2	0
	50	25	17.28	17.52	17.18		0
	50	50	17.23	17.65	17.07		0
	100	0	17.29	17.49	17.23	0-2	0
	1	0	17.45	17.61	17.60		0
	1	50	17.29	17.75	17.53		0-2
	1	99	17.38	18.00	17.48	0	
	50	0	17.33	17.42	17.36	0-3	
	50	25	17.28	17.53	17.26		0
	50	50	17.25	17.67	17.16		0
64QAM	100	0	17.31	17.55	17.26	0	0

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10.3.4 LTE Band 2

Table 10-16

LTE Band 2 (PCS) Ant A Measured P_{limit} for RSI = 0(Body-Worn, Hotspot, or Phablet) - 20 MHz Bandwidth

LTE Band 2 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18900.0 (1880.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	17.07	0	0
	1	50	16.99		0
	1	99	17.17		0
	50	0	17.07	0-1	0
	50	25	17.07		0
	50	50	17.08		0
	100	0	17.06		0
16QAM	1	0	17.40	0-1	0
	1	50	17.31		0
	1	99	17.45		0
	50	0	17.12	0-2	0
	50	25	17.11		0
	50	50	17.13		0
	100	0	17.12		0
64QAM	1	0	17.14	0-2	0
	1	50	17.09		0
	1	99	17.24		0
	50	0	17.09	0-3	0
	50	25	17.13		0
	50	50	17.11		0
	100	0	17.13		0

Table 10-17

LTE Band 2 (PCS) Ant A Measured P_{max} for RSI = 1(Head) - 20 MHz Bandwidth

LTE Band 2 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18900.0 (1880.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	23.36	0	0
	1	50	23.33		0
	1	99	23.48		0
	50	0	22.38	0-1	1
	50	25	22.38		1
	50	50	22.41		1
	100	0	22.37		1
16QAM	1	0	22.28	0-1	1
	1	50	22.25		1
	1	99	22.34		1
	50	0	21.39	0-2	2
	50	25	21.37		2
	50	50	21.41		2
	100	0	21.35		2
64QAM	1	0	21.67	0-2	2
	1	50	21.63		2
	1	99	21.81		2
	50	0	20.39	0-3	3
	50	25	20.39		3
	50	50	20.39		3
	100	0	20.39		3

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Table 10-18
LTE Band 2 (PCS) Ant F Measured P_{limit} for all RSI - 20 MHz Bandwidth

LTE Band 2 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			18900.0 (1880.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	17.09	0	0
	1	50	17.31		0
	1	99	17.63		0
	50	0	17.34	0-1	0
	50	25	17.51		0
	50	50	17.61		0
16QAM	100	0	17.51	0-1	0
	1	0	17.20		0
	1	50	17.41		0
	1	99	17.70	0-2	0
	50	0	17.29		0
	50	25	17.44		0
64QAM	50	50	17.56	0-2	0
	100	0	17.51		0
	1	0	17.51	0-2	0
	1	50	17.79		0
	1	99	18.09		0
	50	0	17.35	0-3	0
	50	25	17.52		0
	50	50	17.62		0
	100	0	17.53		0

10.3.5 LTE Band 41

Table 10-19
LTE Band 41 Ant B Measured P_{limit} for RSI = 0 (Body-Worn, Hotspot, or Phablet) - 20 MHz Bandwidth

LTE Band 41									
20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750.0 (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	18.91	18.45	18.28	18.15	18.40	0	0
	1	50	18.68	18.34	18.14	18.12	18.48		0
	1	99	18.67	18.49	18.10	18.26	18.66		0
	50	0	18.75	18.44	18.29	18.09	18.58	0-1	0
	50	25	18.71	18.46	18.29	18.15	18.64		0
	50	50	18.68	18.47	18.25	18.17	18.67		0
16QAM	100	0	18.72	18.48	18.27	18.14	18.62	0-1	0
	1	0	18.81	18.18	17.95	18.09	18.16		0
	1	50	18.56	18.08	17.84	18.01	18.23		0
	1	99	18.57	18.17	17.84	18.19	18.34	0-2	0
	50	0	18.71	18.46	18.25	18.08	18.60		0
	50	25	18.66	18.48	18.23	18.12	18.64		0
64QAM	50	50	18.68	18.49	18.21	18.17	18.70	0-2	0
	100	0	18.72	18.44	18.31	18.15	18.62		0
	1	0	18.79	18.60	18.53	18.07	18.57	0-2	0
	1	50	18.59	18.53	18.44	18.06	18.69		0
	1	99	18.61	18.59	18.45	18.22	18.76		0
	64QAM	50	0	18.77	18.48	18.33	18.11	18.59	0-3
50		25	18.72	18.47	18.32	18.16	18.66	0	
50		50	18.71	18.48	18.28	18.21	18.69	0	
100		0	18.76	18.51	18.33	18.21	18.66	0	

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Table 10-20
LTE Band 41 Ant B Measured P_{max} for RSI = 1(Head) - 20 MHz Bandwidth

LTE Band 41									
20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750.0 (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	23.56	23.37	23.50	23.04	23.40	0	0
	1	50	23.32	23.30	23.17	22.86	23.19		0
	1	99	23.36	23.40	23.07	22.92	23.20		0
	50	0	22.38	22.35	22.29	21.91	22.31	0-1	1
	50	25	22.32	22.33	22.16	21.87	22.27		1
	50	50	22.26	22.37	22.07	21.86	22.19		1
16QAM	100	0	22.33	22.36	22.21	21.91	22.27	0-1	1
	1	0	22.52	22.36	22.43	22.01	22.34		1
	1	50	22.35	22.29	22.18	21.88	22.22		1
	1	99	22.34	22.43	22.08	21.91	22.20	0-2	1
	50	0	21.46	21.37	21.38	21.00	21.38		2
	50	25	21.42	21.39	21.25	21.00	21.33		2
64QAM	50	50	21.38	21.40	21.18	20.97	21.25	0-2	2
	100	0	21.44	21.43	21.31	21.03	21.38		2
	1	0	21.23	21.08	21.23	20.74	21.12		0-2
	1	50	21.08	21.04	20.97	20.64	20.99	2	
	1	99	21.05	21.12	20.79	20.63	20.93	2	
	64QAM	50	0	20.52	20.42	20.45	20.10	20.45	0-3
50		25	20.49	20.45	20.36	20.05	20.41	3	
50		50	20.47	20.47	20.24	20.05	20.34	3	
100		0	20.48	20.40	20.32	20.03	20.38		3

Table 10-21
LTE Band 41 Ant F Measured P_{limit} for all RSI - 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	16.85	16.70	16.72	16.73	16.78	0	0
	1	50	16.71	16.49	16.52	16.62	16.56		0
	1	99	16.79	16.46	16.56	16.66	16.55		0
	50	0	16.89	16.62	16.68	16.79	16.76	0-1	0
	50	25	16.86	16.57	16.60	16.77	16.73		0
	50	50	16.83	16.51	16.60	16.77	16.70		0
16QAM	100	0	16.84	16.58	16.62	16.78	16.73	0-1	0
	1	0	16.80	16.67	16.70	16.68	16.67		0
	1	50	16.72	16.49	16.50	16.58	16.51		0
	1	99	16.81	16.45	16.58	16.65	16.55	0-2	0
	50	0	16.87	16.63	16.69	16.75	16.72		0
	50	25	16.86	16.59	16.63	16.75	16.69		0
64QAM	50	50	16.82	16.51	16.60	16.73	16.65	0-2	0
	100	0	16.89	16.60	16.64	16.79	16.73		0
	1	0	16.68	16.52	16.56	16.57	16.57		0-3
	1	50	16.67	16.43	16.47	16.57	16.49	0	
	1	99	16.63	16.25	16.38	16.48	16.37	0	
	50	0	16.87	16.58	16.65	16.75	16.72	0	
	50	25	16.83	16.55	16.60	16.75	16.69	0-3	0
	50	50	16.81	16.47	16.58	16.73	16.65		0
	100	0	16.90	16.59	16.66	16.80	16.75		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 n5

Table 10-22
NR Band n5 Ant A Measured P_{limit} for RSI = 0 (Body-Worn, Hotspot, or Phablet) - 20 MHz Bandwidth

NR Band n5 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			167300 (836.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	21.49	0	0.0
	1	53	21.61		0.0
	1	104	21.63		0.0
	50	0	21.53	0-1	0.0
	50	28	21.57	0	0.0
	50	56	21.61	0-1	0.0
	100	0	21.60		0.0
DFT-s-OFDM 16QAM	1	1	21.54	0-1	0.0
CP-OFDM QPSK	1	1	21.62	0-1.5	0.0

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Table 10-23
NR Band n5 Ant A Measured P_{max} for RSI = 1(Head) - 20 MHz Bandwidth

NR Band n5 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			167300 (836.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	24.56	0	0.0
	1	53	24.70		0.0
	1	104	24.63		0.0
	50	0	23.50	0-1	1.0
	50	28	24.61	0	0.0
	50	56	23.65	0-1	1.0
	100	0	23.58		1.0
DFT-s-OFDM 16QAM	1	1	23.47	0-1	1.0
CP-OFDM QPSK	1	1	22.94	0-1.5	1.5

Table 10-24
NR Band n5 Ant E Measured P_{limit} for all RSI - 20 MHz Bandwidth

NR Band n5 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			167300 (836.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	19.03	0	0.0
	1	53	18.95		0.0
	1	104	18.91		0.0
	50	0	18.98	0-1	0.0
	50	28	18.93	0	0.0
	50	56	18.91	0-1	0.0
	100	0	18.95		0.0
DFT-s-OFDM 16QAM	1	1	19.04	0-1	0.0
CP-OFDM QPSK	1	1	19.06	0-1.5	0.0

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10.4.2 NR Band n41

Table 10-25
NR Band n41 PC2 Ant B Measured P_{limit} for RSI = 0 (Body-Worn, Hotspot, or Phablet) – 100 MHz Bandwidth

NR Band n41 100 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			518598 (2592.99 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	17.40	0	0.0
	1	137	17.34		0.0
	1	271	17.00		0.0
	135	0	17.53	0-1	0.0
	135	69	17.27	0	0.0
	135	138	17.01	0-1	0.0
	270	0	17.16		0.0
DFT-s-OFDM 16QAM	1	1	17.40	0-1	0.0
CP-OFDM QPSK	1	1	17.34	0-1.5	0.0

Table 10-26
NR Band n41 PC2 Ant B Measured P_{max} for RSI = 1 (Head) – 100 MHz Bandwidth

NR Band n41 100 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			518598 (2592.99 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	25.28	0	0.0
	1	137	25.33		0.0
	1	271	25.30		0.0
	135	0	25.27	0-1	1.0
	135	69	25.28	0	0.0
	135	138	24.30	0-1	1.0
	270	0	24.90		1.0
DFT-s-OFDM 16QAM	1	1	25.12	0-1	1.0
CP-OFDM QPSK	1	1	24.38	0-1.5	1.5

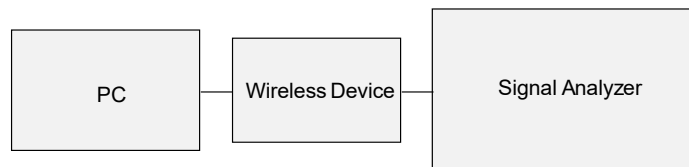


Figure 10-4
Power Measurement Setup – NR

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10.5 WLAN Conducted Powers

Table 10-27

5 GHz WLAN Measured P_{Max} Average RF Power for RSI = 0 (Body-Worn, Hotspot or Phablet) – Ant G

5GHz WIFI (20MHz 802.11a SISO ANT2)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5180	36	15.28
	5200	40	16.35
	5220	44	16.79
	5240	48	15.49
UNII-2A	5260	52	16.41
	5280	56	16.61
	5300	60	16.25
	5320	64	15.62
UNII-2C	5500	100	16.60
	5600	120	16.96
	5620	124	16.68
	5720	144	16.72
UNII-3	5745	149	16.66
	5785	157	16.81
	5825	165	16.10
UNII-4	5845	169	16.32
	5865	173	16.24
	5885	177	15.82
5GHz WIFI (20MHz 802.11n SISO ANT2)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5180	36	13.85
	5200	40	15.86
	5220	44	16.77
	5240	48	15.12
UNII-2A	5260	52	16.34
	5280	56	16.55
	5300	60	16.10
	5320	64	14.31
UNII-2C	5500	100	16.83
	5600	120	16.53
	5620	124	16.51
	5720	144	16.68
UNII-3	5745	149	16.77
	5785	157	16.60
	5825	165	16.68
UNII-4	5845	169	16.94
	5865	173	16.45
	5885	177	16.61

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5GHz WIFI (20MHz 802.11ac SISO ANT2)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5180	36	14.04
	5200	40	16.01
	5220	44	16.56
	5240	48	15.28
UNII-2A	5260	52	15.77
	5280	56	16.54
	5300	60	15.93
	5320	64	14.50
UNII-2C	5500	100	16.88
	5600	120	16.97
	5620	124	16.82
	5720	144	16.59
UNII-3	5745	149	16.51
	5785	157	16.57
	5825	165	16.94
UNII-4	5845	169	16.25
	5865	173	16.92
	5885	177	16.37
5GHz WIFI (20MHz 802.11ax SISO ANT2)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5180	36	14.30
	5200	40	15.63
	5220	44	16.37
	5240	48	15.40
UNII-2A	5260	52	16.08
	5280	56	16.39
	5300	60	16.43
	5320	64	13.97
UNII-2C	5500	100	16.71
	5600	120	16.61
	5620	124	16.89
	5720	144	16.73
UNII-3	5745	149	16.91
	5785	157	16.72
	5825	165	16.56
UNII-4	5845	169	16.52
	5865	173	16.13
	5885	177	15.93

Table 10-28

5 GHz WLAN Measured P_{limit} Average RF Power for RSI = 1 (Head) – Ant G

5GHz WIFI (40MHz 802.11n SISO ANT2)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	12.19
	5230	46	13.07
UNII-2A	5270	54	13.22
	5310	62	13.17
UNII-2C	5510	102	13.92
	5590	118	13.96
	5630	126	13.83
	5710	142	13.86
UNII-3	5755	151	13.96
	5795	159	13.98
UNII-4	5835	167	13.99
	5875	175	13.97

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Table 10-29

5 GHz WLAN Measured P_{Max} Average RF Power for RSI = 0 (Body-Worn, Hotspot or Phablet) – MIMO

5GHz WIFI (20MHz 802.11a MIMO)					
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]		
			ANT1	ANT2	MIMO
UNII-1	5180	36	12.59	14.94	16.93
	5200	40	13.07	15.68	17.58
	5220	44	13.08	16.35	18.03
	5240	48	13.05	15.02	17.16
UNII-2A	5260	52	13.04	16.12	17.86
	5280	56	13.01	15.92	17.71
	5300	60	13.11	15.96	17.78
	5320	64	12.52	15.10	17.01
UNII-2C	5500	100	13.57	16.06	18.00
	5600	120	13.20	16.66	18.28
	5620	124	13.25	16.14	17.94
	5720	144	13.01	16.22	17.92
UNII-3	5745	149	13.13	16.05	17.84
	5785	157	13.10	16.48	18.12
	5825	165	13.21	16.68	18.29
UNII-4	5845	169	13.12	16.43	18.09
	5865	173	13.02	16.24	17.93
	5885	177	13.10	16.10	17.86

Table 10-30

6 GHz WLAN Measured P_{Max} for all RSI – Ant G

6GHz WIFI (80MHz 802.11ax SISO ANT2)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	5985	7	9.38
	6305	71	9.07
UNII-6	6465	103	9.24
UNII-7	6705	151	9.74
UNII-8	7025	215	9.40

Table 10-31

6 GHz WLAN Measured P_{Max} for all RSI - MIMO

6GHz WIFI (80MHz 802.11ax MIMO)					
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]		
			ANT1	ANT2	MIMO
UNII-5	5985	7	5.66	9.38	10.92
	6305	71	5.86	8.63	10.47
UNII-6	6465	103	5.88	8.84	10.62
UNII-7	6705	151	5.58	9.40	10.91
UNII-8	7025	215	5.31	8.82	10.42

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

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

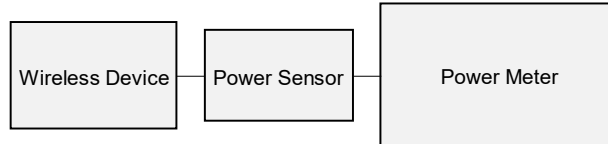


Figure 10-5
Power Measurement Setup

10.6 Bluetooth Conducted Powers

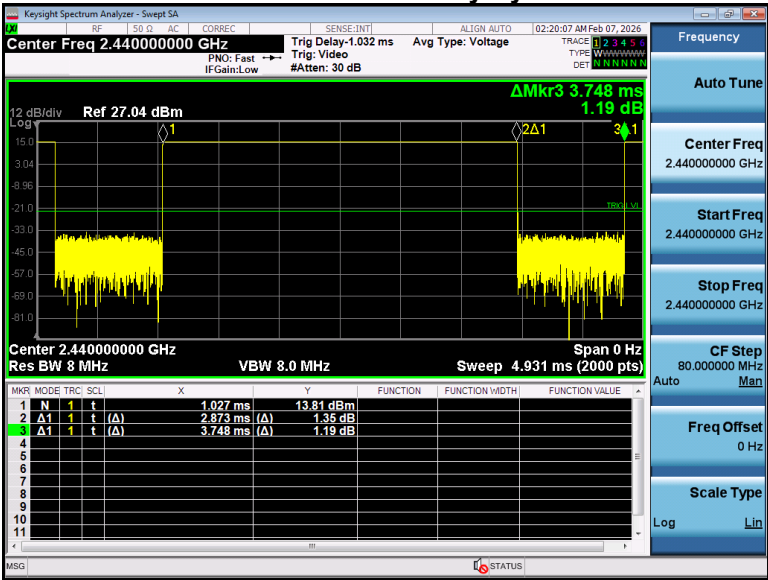
Table 10-32
Bluetooth Measured P_{max} Average RF Power for all RSI – Ant H

Frequency [MHz]	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
			[dBm]	[mW]
2402	1.0	0	16.54	45.082
2441	1.0	39	16.82	48.084
2480	1.0	78	16.55	45.186
2402	2.0	0	11.71	14.825
2441	2.0	39	12.39	17.338
2480	2.0	78	11.91	15.524
2402	3.0	0	11.70	14.791
2441	3.0	39	12.33	17.100
2480	3.0	78	11.85	15.311

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Figure 10-6
Bluetooth Antenna H Duty Cycle Plot



Equation 10-1
Bluetooth Antenna H Duty Cycle Calculation

$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.873\text{ms}}{3.748\text{ms}} * 100\% = 76.65\%$$

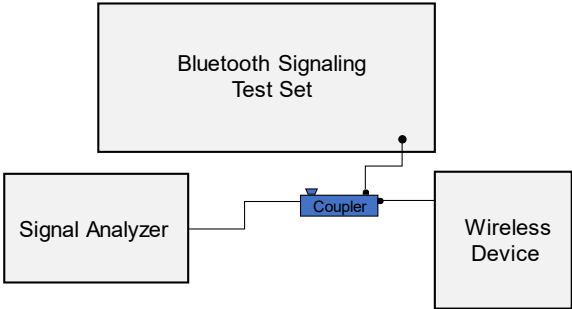


Figure 10-7
Power Measurement Setup

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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
01/15/2026	30 Head	22.5	12	0.780	52.332	0.750	55.000	4.00%	-4.85%
			13	0.780	52.556	0.750	55.000	4.00%	-4.44%
			14	0.780	52.435	0.750	55.000	4.00%	-4.66%
12/15/2025	750 Head	23.6	680	0.851	40.239	0.888	42.305	-4.17%	-4.88%
			695	0.855	40.210	0.889	42.227	-3.82%	-4.78%
			710	0.859	40.167	0.890	42.149	-3.48%	-4.70%
			725	0.864	40.103	0.891	42.071	-3.03%	-4.68%
			750	0.872	40.023	0.894	41.942	-2.46%	-4.58%
			770	0.878	39.971	0.895	41.838	-1.90%	-4.46%
			785	0.882	39.934	0.896	41.760	-1.56%	-4.37%
			800	0.886	39.893	0.897	41.682	-1.23%	-4.29%
12/15/2025	835 Head	23.6	815	0.891	39.841	0.898	41.594	-0.78%	-4.21%
			820	0.893	39.820	0.899	41.578	-0.67%	-4.23%
			835	0.897	39.753	0.900	41.500	-0.33%	-4.21%
			850	0.902	39.718	0.916	41.500	-1.53%	-4.29%
01/05/2026	835 Head	24.0	815	0.891	42.334	0.898	41.594	-0.78%	1.78%
			820	0.893	42.317	0.899	41.578	-0.67%	1.78%
			835	0.898	42.271	0.900	41.500	-0.22%	1.86%
			850	0.904	42.232	0.916	41.500	-1.31%	1.76%
01/07/2026	835 Head	24.0	815	0.900	42.854	0.898	41.594	0.22%	3.03%
			820	0.902	42.838	0.899	41.578	0.33%	3.03%
			835	0.907	42.790	0.900	41.500	0.78%	3.11%
			850	0.912	42.753	0.916	41.500	-0.44%	3.02%
01/19/2026	835 Head	23.3	815	0.913	41.532	0.898	41.594	1.67%	-0.15%
			820	0.915	41.513	0.899	41.578	1.78%	-0.16%
			835	0.920	41.459	0.900	41.500	2.22%	-0.10%
			850	0.925	41.420	0.916	41.500	0.98%	-0.19%
01/19/2026	835 Head	24.0	815	0.895	41.964	0.898	41.594	-0.33%	0.89%
			820	0.897	41.951	0.899	41.578	-0.22%	0.90%
			835	0.902	41.912	0.900	41.500	0.22%	0.99%
			850	0.908	41.879	0.916	41.500	-0.87%	0.91%
02/09/2026	835 Head	19.9	815	0.879	40.789	0.898	41.594	-2.12%	-1.94%
			820	0.881	40.773	0.899	41.578	-2.00%	-1.94%
			835	0.886	40.723	0.900	41.500	-1.56%	-1.87%
			850	0.892	40.682	0.916	41.500	-2.62%	-1.97%

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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
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%
			1790	1.364	41.378	1.394	40.016	-2.15%	3.40%
01/08/2026	1750 Head	20.5	1700	1.287	41.670	1.343	40.145	-4.17%	3.80%
			1705	1.289	41.660	1.345	40.141	-4.16%	3.78%
			1710	1.292	41.651	1.348	40.136	-4.15%	3.77%
			1720	1.297	41.633	1.354	40.126	-4.21%	3.76%
			1745	1.312	41.617	1.368	40.087	-4.09%	3.82%
			1750	1.315	41.615	1.371	40.079	-4.08%	3.83%
			1770	1.326	41.606	1.383	40.047	-4.12%	3.89%
			1790	1.335	41.587	1.394	40.016	-4.23%	3.93%
01/20/2026	1750 Head	20.7	1700	1.306	40.228	1.343	40.145	-2.76%	0.21%
			1705	1.309	40.221	1.345	40.141	-2.68%	0.20%
			1710	1.312	40.215	1.348	40.136	-2.67%	0.20%
			1720	1.317	40.193	1.354	40.126	-2.73%	0.17%
			1745	1.332	40.125	1.368	40.087	-2.63%	0.09%
			1750	1.335	40.110	1.371	40.079	-2.63%	0.08%
			1770	1.348	40.067	1.383	40.047	-2.53%	0.05%
			1790	1.359	40.044	1.394	40.016	-2.51%	0.07%
01/05/2026	1900 Head	21.5	1850	1.397	41.275	1.400	40.000	-0.21%	3.19%
			1860	1.403	41.270	1.400	40.000	0.21%	3.18%
			1880	1.415	41.260	1.400	40.000	1.07%	3.15%
			1900	1.425	41.235	1.400	40.000	1.79%	3.09%
			1905	1.428	41.227	1.400	40.000	2.00%	3.07%
			1910	1.431	41.220	1.400	40.000	2.21%	3.05%
			1920	1.437	41.203	1.400	40.000	2.64%	3.01%
01/05/2026	1900 Head	19.8	1850	1.384	41.718	1.400	40.000	-1.14%	4.30%
			1860	1.391	41.708	1.400	40.000	-0.64%	4.27%
			1880	1.404	41.674	1.400	40.000	0.29%	4.19%
			1900	1.419	41.633	1.400	40.000	1.36%	4.08%
			1905	1.422	41.623	1.400	40.000	1.57%	4.06%
			1910	1.426	41.615	1.400	40.000	1.86%	4.04%
			1920	1.434	41.601	1.400	40.000	2.43%	4.00%
01/12/2026	1900 Head	22.6	1850	1.390	40.212	1.400	40.000	-0.71%	0.53%
			1860	1.398	40.200	1.400	40.000	-0.14%	0.50%
			1880	1.415	40.171	1.400	40.000	1.07%	0.43%
			1900	1.435	40.155	1.400	40.000	2.50%	0.39%
			1905	1.439	40.148	1.400	40.000	2.79%	0.37%
			1910	1.444	40.143	1.400	40.000	3.14%	0.36%
			1920	1.453	40.131	1.400	40.000	3.79%	0.33%
01/20/2026	1900 Head	20.7	1850	1.389	39.948	1.400	40.000	-0.79%	-0.13%
			1860	1.395	39.930	1.400	40.000	-0.36%	-0.18%
			1880	1.407	39.900	1.400	40.000	0.50%	-0.25%
			1900	1.420	39.890	1.400	40.000	1.43%	-0.27%
			1905	1.423	39.888	1.400	40.000	1.64%	-0.28%
			1910	1.426	39.888	1.400	40.000	1.86%	-0.28%
			1920	1.431	39.885	1.400	40.000	2.21%	-0.29%

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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	2450 Head	20.0	2300	1.639	39.417	1.670	39.500	-1.86%	-0.21%
			2310	1.646	39.405	1.679	39.480	-1.97%	-0.19%
			2320	1.655	39.395	1.687	39.460	-1.90%	-0.16%
			2400	1.719	39.310	1.756	39.289	-2.11%	0.05%
			2450	1.762	39.238	1.800	39.200	-2.11%	0.10%
			2480	1.787	39.172	1.833	39.162	-2.51%	0.03%
			2500	1.803	39.147	1.855	39.136	-2.80%	0.03%
			2510	1.811	39.128	1.866	39.123	-2.95%	0.01%
			2535	1.832	39.072	1.893	39.092	-3.22%	-0.05%
			2550	1.845	39.039	1.909	39.073	-3.35%	-0.09%
			2560	1.854	39.022	1.920	39.060	-3.44%	-0.10%
			2600	1.887	38.964	1.964	39.009	-3.92%	-0.12%
			2650	1.930	38.852	2.018	38.945	-4.36%	-0.24%
			2680	1.954	38.795	2.051	38.907	-4.73%	-0.29%
			2700	1.970	38.743	2.073	38.882	-4.97%	-0.36%
01/05/2026	2450 Head	20.0	2300	1.695	38.770	1.670	39.500	1.50%	-1.85%
			2310	1.703	38.754	1.679	39.480	1.43%	-1.84%
			2320	1.711	38.742	1.687	39.460	1.42%	-1.82%
			2400	1.775	38.646	1.756	39.289	1.08%	-1.64%
			2450	1.815	38.581	1.800	39.200	0.83%	-1.58%
			2480	1.842	38.526	1.833	39.162	0.49%	-1.62%
			2500	1.858	38.505	1.855	39.136	0.16%	-1.61%
			2510	1.866	38.489	1.866	39.123	0.00%	-1.62%
			2535	1.887	38.431	1.893	39.092	-0.32%	-1.69%
			2550	1.901	38.399	1.909	39.073	-0.42%	-1.72%
			2560	1.911	38.385	1.920	39.060	-0.47%	-1.73%
			2600	1.944	38.324	1.964	39.009	-1.02%	-1.76%
			2650	1.989	38.217	2.018	38.945	-1.44%	-1.87%
			2680	2.012	38.159	2.051	38.907	-1.90%	-1.92%
			2700	2.029	38.104	2.073	38.882	-2.12%	-2.00%
01/08/2026	2450 Head	19.6	2300	1.746	38.766	1.670	39.500	4.55%	-1.86%
			2310	1.754	38.745	1.679	39.480	4.47%	-1.86%
			2320	1.761	38.727	1.687	39.460	4.39%	-1.86%
			2400	1.823	38.577	1.756	39.289	3.82%	-1.81%
			2450	1.861	38.484	1.800	39.200	3.39%	-1.83%
			2480	1.884	38.426	1.833	39.162	2.78%	-1.88%
			2500	1.899	38.399	1.855	39.136	2.37%	-1.88%
			2510	1.907	38.382	1.866	39.123	2.20%	-1.89%
			2535	1.927	38.333	1.893	39.092	1.80%	-1.94%
			2550	1.939	38.306	1.909	39.073	1.57%	-1.96%
			2560	1.947	38.291	1.920	39.060	1.41%	-1.97%
			2600	1.980	38.230	1.964	39.009	0.81%	-2.00%
			2650	2.022	38.136	2.018	38.945	0.20%	-2.08%
			2680	2.047	38.086	2.051	38.907	-0.20%	-2.11%
			2700	2.064	38.048	2.073	38.882	-0.43%	-2.14%
01/12/2026	2450 Head	20.3	2300	1.721	39.459	1.670	39.500	3.05%	-0.10%
			2310	1.729	39.443	1.679	39.480	2.98%	-0.09%
			2320	1.737	39.430	1.687	39.460	2.96%	-0.08%
			2400	1.802	39.331	1.756	39.289	2.62%	0.11%
			2450	1.844	39.260	1.800	39.200	2.44%	0.15%
			2480	1.871	39.203	1.833	39.162	2.07%	0.10%
			2500	1.889	39.175	1.855	39.136	1.83%	0.10%
			2510	1.897	39.155	1.866	39.123	1.66%	0.08%
			2535	1.918	39.099	1.893	39.092	1.32%	0.02%
			2550	1.932	39.070	1.909	39.073	1.20%	-0.01%
			2560	1.942	39.055	1.920	39.060	1.15%	-0.01%
			2600	1.975	38.992	1.964	39.009	0.56%	-0.04%
			2650	2.021	38.877	2.018	38.945	0.15%	-0.17%
			2680	2.046	38.818	2.051	38.907	-0.24%	-0.23%
			2700	2.062	38.766	2.073	38.882	-0.53%	-0.30%

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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
01/27/2026	2450 Head	19.0	2300	1.655	37.792	1.670	39.500	-0.90%	-4.32%
			2310	1.663	37.768	1.679	39.480	-0.95%	-4.34%
			2320	1.671	37.748	1.687	39.460	-0.95%	-4.34%
			2400	1.735	37.643	1.756	39.289	-1.20%	-4.19%
			2450	1.776	37.502	1.800	39.200	-1.33%	-4.33%
			2480	1.801	37.458	1.833	39.162	-1.75%	-4.35%
			2500	1.816	37.447	1.855	39.136	-2.10%	-4.32%
			2510	1.824	37.438	1.866	39.123	-2.25%	-4.31%
			2535	1.844	37.383	1.893	39.092	-2.59%	-4.37%
			2550	1.857	37.340	1.909	39.073	-2.72%	-4.44%
			2560	1.865	37.307	1.920	39.060	-2.86%	-4.49%
			2600	1.900	37.238	1.964	39.009	-3.26%	-4.54%
			2650	1.943	37.172	2.018	38.945	-3.72%	-4.55%
			2680	1.969	37.093	2.051	38.907	-4.00%	-4.66%
			2700	1.985	37.043	2.073	38.882	-4.25%	-4.73%
02/05/2026	2450 Head	20.3	2300	1.659	38.345	1.670	39.500	-0.66%	-2.92%
			2310	1.667	38.328	1.679	39.480	-0.71%	-2.92%
			2320	1.676	38.314	1.687	39.460	-0.65%	-2.90%
			2400	1.738	38.203	1.756	39.289	-1.03%	-2.76%
			2450	1.773	38.118	1.800	39.200	-1.50%	-2.76%
			2480	1.799	38.062	1.833	39.162	-1.85%	-2.81%
			2500	1.815	38.041	1.855	39.136	-2.16%	-2.80%
			2510	1.823	38.031	1.866	39.123	-2.30%	-2.79%
			2535	1.841	38.000	1.893	39.092	-2.75%	-2.79%
			2550	1.851	37.977	1.909	39.073	-3.04%	-2.81%
			2560	1.858	37.956	1.920	39.060	-3.23%	-2.83%
			2600	1.891	37.888	1.964	39.009	-3.72%	-2.87%
			2650	1.935	37.807	2.018	38.945	-4.11%	-2.92%
			2680	1.956	37.761	2.051	38.907	-4.63%	-2.95%
			2700	1.970	37.737	2.073	38.882	-4.97%	-2.94%
02/12/2026	2450 Head	19.0	2300	1.658	37.725	1.670	39.500	-0.72%	-4.49%
			2310	1.665	37.714	1.679	39.480	-0.83%	-4.47%
			2320	1.673	37.706	1.687	39.460	-0.83%	-4.45%
			2400	1.733	37.569	1.756	39.289	-1.31%	-4.38%
			2450	1.771	37.480	1.800	39.200	-1.61%	-4.39%
			2480	1.794	37.400	1.833	39.162	-2.13%	-4.50%
			2500	1.812	37.372	1.855	39.136	-2.32%	-4.51%
			2510	1.820	37.362	1.866	39.123	-2.47%	-4.50%
			2535	1.841	37.333	1.893	39.092	-2.75%	-4.50%
			2550	1.853	37.304	1.909	39.073	-2.93%	-4.53%
			2560	1.860	37.275	1.920	39.060	-3.12%	-4.57%
			2600	1.891	37.167	1.964	39.009	-3.72%	-4.72%
			2650	1.935	37.097	2.018	38.945	-4.11%	-4.75%
			2680	1.956	37.019	2.051	38.907	-4.63%	-4.85%
			2700	1.970	36.962	2.073	38.882	-4.97%	-4.94%

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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
02/02/2026	5200-5800 Head	19.0	5150	4.489	36.006	4.608	36.050	-2.58%	-0.12%
			5160	4.500	35.982	4.618	36.040	-2.56%	-0.16%
			5170	4.509	35.962	4.629	36.030	-2.59%	-0.19%
			5180	4.518	35.938	4.635	36.009	-2.52%	-0.20%
			5190	4.530	35.925	4.645	35.998	-2.48%	-0.20%
			5200	4.540	35.908	4.655	35.986	-2.47%	-0.22%
			5210	4.553	35.892	4.666	35.975	-2.42%	-0.23%
			5220	4.564	35.866	4.676	35.963	-2.40%	-0.27%
			5240	4.591	35.819	4.696	35.940	-2.24%	-0.34%
			5250	4.602	35.803	4.706	35.929	-2.21%	-0.35%
			5260	4.613	35.797	4.717	35.917	-2.20%	-0.33%
			5270	4.623	35.792	4.727	35.906	-2.20%	-0.32%
			5280	4.631	35.774	4.737	35.894	-2.24%	-0.33%
			5290	4.640	35.744	4.748	35.883	-2.27%	-0.39%
			5300	4.653	35.714	4.758	35.871	-2.21%	-0.44%
			5310	4.664	35.695	4.768	35.860	-2.18%	-0.46%
			5320	4.674	35.680	4.778	35.849	-2.18%	-0.47%
			5500	4.874	35.343	4.963	35.643	-1.79%	-0.84%
			5510	4.883	35.335	4.973	35.632	-1.81%	-0.83%
			5520	4.894	35.322	4.983	35.620	-1.79%	-0.84%
			5530	4.904	35.300	4.994	35.609	-1.80%	-0.87%
			5540	4.917	35.272	5.004	35.597	-1.74%	-0.91%
			5550	4.928	35.242	5.014	35.586	-1.72%	-0.97%
			5560	4.939	35.218	5.024	35.574	-1.69%	-1.00%
			5580	4.962	35.176	5.045	35.551	-1.65%	-1.05%
			5600	4.989	35.142	5.065	35.529	-1.50%	-1.09%
			5610	4.999	35.121	5.076	35.518	-1.52%	-1.12%
			5620	5.007	35.093	5.086	35.506	-1.55%	-1.16%
			5640	5.033	35.062	5.106	35.483	-1.43%	-1.19%
			5660	5.055	35.050	5.127	35.460	-1.40%	-1.16%
			5670	5.063	35.024	5.137	35.449	-1.44%	-1.20%
			5680	5.074	35.007	5.147	35.437	-1.42%	-1.21%
			5690	5.089	34.990	5.158	35.426	-1.34%	-1.23%
			5700	5.103	34.966	5.168	35.414	-1.26%	-1.27%
			5710	5.116	34.941	5.178	35.403	-1.20%	-1.30%
			5720	5.129	34.919	5.188	35.391	-1.14%	-1.33%
			5745	5.148	34.866	5.214	35.363	-1.27%	-1.41%
			5750	5.154	34.852	5.219	35.357	-1.25%	-1.43%
			5755	5.161	34.843	5.224	35.351	-1.21%	-1.44%
			5765	5.177	34.837	5.234	35.340	-1.09%	-1.42%
			5775	5.189	34.831	5.245	35.329	-1.07%	-1.41%
			5785	5.199	34.815	5.255	35.317	-1.07%	-1.42%
			5795	5.208	34.804	5.265	35.305	-1.08%	-1.42%
			5805	5.219	34.779	5.275	35.294	-1.06%	-1.46%
			5825	5.242	34.734	5.296	35.271	-1.02%	-1.52%
			5835	5.251	34.715	5.305	35.230	-1.02%	-1.46%
			5845	5.259	34.703	5.315	35.210	-1.05%	-1.44%
			5850	5.263	34.690	5.320	35.200	-1.07%	-1.45%
			5855	5.269	34.678	5.325	35.197	-1.05%	-1.47%
			5875	5.298	34.661	5.347	35.183	-0.92%	-1.48%
			5885	5.309	34.647	5.357	35.177	-0.90%	-1.51%
			5905	5.328	34.600	5.379	35.163	-0.95%	-1.60%

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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
02/09/2026	6000 Head	19.3	5935	5.299	34.520	5.411	35.143	-2.07%	-1.77%
			5970	5.314	34.449	5.448	35.120	-2.46%	-1.91%
			5985	5.323	34.371	5.464	35.110	-2.58%	-2.10%
			6000	5.319	34.309	5.480	35.100	-2.94%	-2.25%
			6025	5.347	34.170	5.510	35.070	-2.96%	-2.57%
			6065	5.397	34.083	5.557	35.022	-2.88%	-2.68%
			6075	5.406	34.057	5.569	35.010	-2.93%	-2.72%
			6085	5.416	34.049	5.580	34.998	-2.94%	-2.71%
			6185	5.576	33.917	5.698	34.878	-2.14%	-2.76%
			6275	5.693	33.760	5.805	34.770	-1.93%	-2.90%
			6285	5.697	33.766	5.816	34.758	-2.05%	-2.85%
			6305	5.724	33.784	5.840	34.734	-1.99%	-2.74%
			6345	5.773	33.681	5.887	34.686	-1.94%	-2.90%
			6475	5.943	33.376	6.041	34.530	-1.62%	-3.34%
			6485	5.958	33.384	6.052	34.518	-1.55%	-3.29%
			6500	5.979	33.412	6.070	34.500	-1.50%	-3.15%
			6505	5.980	33.423	6.076	34.494	-1.58%	-3.10%
			6545	6.011	33.343	6.122	34.446	-1.81%	-3.20%
			6665	6.128	33.072	6.265	34.302	-2.19%	-3.59%
			6675	6.151	33.054	6.273	34.290	-1.94%	-3.60%
			6685	6.177	33.012	6.285	34.278	-1.72%	-3.69%
			6715	6.203	32.987	6.319	34.242	-1.84%	-3.67%
			6785	6.284	32.825	6.400	34.158	-1.81%	-3.90%
			6825	6.354	32.768	6.447	34.110	-1.44%	-3.93%
			6985	6.513	32.553	6.633	33.918	-1.81%	-4.02%
			6995	6.500	32.566	6.644	33.906	-2.17%	-3.95%
			7000	6.500	32.569	6.650	33.900	-2.26%	-3.93%
			7005	6.505	32.567	6.656	33.894	-2.27%	-3.92%
			7025	6.553	32.421	6.680	33.870	-1.90%	-4.28%
02/12/2026	6000 Head	20.8	5935	5.520	34.292	5.411	35.143	2.01%	-2.42%
			5970	5.536	34.259	5.448	35.120	1.62%	-2.45%
			5985	5.545	34.184	5.464	35.110	1.48%	-2.64%
			6000	5.528	34.136	5.480	35.100	0.88%	-2.75%
			6025	5.552	34.044	5.510	35.070	0.76%	-2.93%
			6065	5.635	33.984	5.557	35.022	1.40%	-2.96%
			6075	5.635	33.952	5.569	35.010	1.19%	-3.02%
			6085	5.632	33.937	5.580	34.998	0.93%	-3.03%
			6185	5.775	33.714	5.698	34.878	1.35%	-3.34%
			6275	5.886	33.569	5.805	34.770	1.40%	-3.45%
			6285	5.890	33.571	5.816	34.758	1.27%	-3.42%
			6305	5.914	33.584	5.840	34.734	1.27%	-3.31%
			6345	5.970	33.479	5.887	34.686	1.41%	-3.48%
			6475	6.121	33.199	6.041	34.530	1.32%	-3.85%
			6485	6.135	33.201	6.052	34.518	1.37%	-3.82%
			6500	6.154	33.228	6.070	34.500	1.38%	-3.69%
			6505	6.155	33.246	6.076	34.494	1.30%	-3.62%
			6545	6.177	33.138	6.122	34.446	0.90%	-3.80%
			6665	6.282	32.877	6.265	34.302	0.27%	-4.15%
			6675	6.305	32.852	6.273	34.290	0.51%	-4.19%
			6685	6.329	32.807	6.285	34.278	0.70%	-4.29%
			6715	6.363	32.793	6.319	34.242	0.70%	-4.23%
			6785	6.431	32.632	6.400	34.158	0.48%	-4.47%
			6825	6.508	32.569	6.447	34.110	0.95%	-4.52%
			6985	6.643	32.405	6.633	33.918	0.15%	-4.46%
			6995	6.626	32.413	6.644	33.906	-0.27%	-4.40%
			7000	6.624	32.406	6.650	33.900	-0.39%	-4.41%
			7005	6.628	32.384	6.656	33.894	-0.42%	-4.46%
			7025	6.678	32.235	6.680	33.870	-0.03%	-4.83%

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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 11-7
System Verification Results - Head

SAR System	Tissue Frequency (MHz)	Tissue Type	Date	Amb. Temp. (C)	Liquid Temp. (C)	Input Power (W)	Source SN	Probe SN	DAE	Measured SAR 1g (W/kg)	1W Target SAR 1g (W/kg)	1W Normalized SAR 1g (W/kg)	Deviation 1g (%)	Measured SAR 10g (W/kg)	1W Target SAR 10g (W/kg)	1W Normalized SAR 10g (W/kg)	Deviation 10g (%)	Measured 4cm2 APD (W/m2)	1W Target 4cm2 APD (W/m2)	1W Normalized 4cm2 APD (W/m2)	Deviation 4cm2 APD (%)
G	15	HEAD	01/15/2026	21.1	20.7	1.00	1002	7527	1415	0.54	0.50	0.54	6.56%	0.33	0.32	0.33	5.38%	N/A	N/A	N/A	N/A
J	750	HEAD	12/15/2025	20.5	21.6	0.20	1054	7660	1678	1.67	8.68	8.35	-3.80%	1.11	5.61	5.55	-1.07%	N/A	N/A	N/A	N/A
J	835	HEAD	12/15/2025	20.5	21.6	0.20	46132	7660	1678	2.07	9.84	10.35	5.18%	1.57	6.40	6.85	7.03%	N/A	N/A	N/A	N/A
S1	835	HEAD	01/05/2026	23.0	22.6	0.20	46119	7637	1652	1.94	9.47	9.70	2.43%	1.27	6.13	6.35	3.59%	N/A	N/A	N/A	N/A
S1	835	HEAD	01/07/2026	21.8	22.8	0.20	46180	7637	1652	1.96	9.51	9.80	3.05%	1.30	6.17	6.50	5.35%	N/A	N/A	N/A	N/A
S1	835	HEAD	01/19/2026	21.2	22.6	0.20	46180	7637	1652	1.89	9.51	9.45	-0.63%	1.24	6.17	6.20	0.49%	N/A	N/A	N/A	N/A
O	835	HEAD	01/19/2026	20.5	23.3	0.20	46133	7718	1407	2.06	9.94	10.30	3.62%	1.38	6.49	6.90	6.32%	N/A	N/A	N/A	N/A
S1	835	HEAD	02/09/2026	20.0	19.9	0.20	46180	7637	1652	1.85	9.51	9.25	-2.73%	1.22	6.17	6.10	-1.13%	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
M	1750	HEAD	01/08/2026	20.1	20.5	0.10	1150	7406	1677	3.34	36.40	33.40	-8.24%	1.81	19.40	18.10	-6.70%	N/A	N/A	N/A	N/A
M	1750	HEAD	01/20/2026	19.2	19.0	0.10	1150	7406	1677	3.77	36.40	37.70	3.57%	2.05	19.40	20.50	5.67%	N/A	N/A	N/A	N/A
S5	1900	HEAD	01/05/2026	20.1	19.8	0.10	50026	7546	1368	4.00	39.60	40.00	1.01%	2.09	21.00	20.90	-0.48%	N/A	N/A	N/A	N/A
M	1900	HEAD	01/05/2026	19.0	21.5	0.10	54148	7406	1677	4.17	39.60	41.70	5.30%	2.19	20.90	21.90	4.78%	N/A	N/A	N/A	N/A
M	1900	HEAD	01/12/2026	22.4	22.6	0.10	54148	7406	1677	4.21	39.60	42.10	6.31%	2.20	20.90	22.00	5.26%	N/A	N/A	N/A	N/A
M	1900	HEAD	02/20/2026	19.2	19.0	0.10	54148	7406	1677	4.24	39.60	42.40	7.07%	2.23	20.90	22.30	6.70%	N/A	N/A	N/A	N/A
S3	2450	HEAD	01/05/2026	20.8	20.0	0.10	945	7558	1364	5.56	52.90	55.60	5.10%	2.64	25.00	26.40	5.60%	N/A	N/A	N/A	N/A
S2	2450	HEAD	01/12/2026	19.1	20.3	0.10	945	7402	1502	5.16	52.90	51.60	-2.46%	2.40	25.00	24.00	-4.00%	N/A	N/A	N/A	N/A
L	2450	HEAD	01/27/2026	21.0	19.0	0.10	797	7659	1272	5.00	52.60	50.00	-4.94%	2.34	24.80	23.40	-5.65%	N/A	N/A	N/A	N/A
L	2450	HEAD	02/05/2026	20.3	19.3	0.10	797	7659	1272	5.44	52.60	54.40	3.42%	2.55	24.80	25.50	2.82%	N/A	N/A	N/A	N/A
N	2450	HEAD	02/12/2026	22.6	20.3	0.10	797	7670	1449	5.48	52.60	54.80	4.18%	2.60	24.80	26.00	4.84%	N/A	N/A	N/A	N/A
S3	2600	HEAD	01/05/2026	20.8	20.0	0.10	1009	7558	1364	5.84	56.50	58.40	3.36%	2.67	25.40	26.70	5.12%	N/A	N/A	N/A	N/A
S2	2600	HEAD	01/05/2026	20.1	20.0	0.10	1009	7402	1502	5.62	56.50	56.20	-0.53%	2.52	25.40	25.20	-0.79%	N/A	N/A	N/A	N/A
S2	2600	HEAD	01/08/2026	19.4	19.6	0.10	1009	7402	1502	5.90	56.50	59.00	4.42%	2.64	25.40	26.40	3.94%	N/A	N/A	N/A	N/A
S2	2600	HEAD	01/12/2026	19.1	20.3	0.10	1009	7402	1502	5.67	56.50	56.70	0.35%	2.54	25.40	25.40	0.00%	N/A	N/A	N/A	N/A
S	5250	HEAD	02/02/2026	19.6	19.0	0.05	1057	7661	1558	3.76	79.40	75.20	-5.29%	1.08	22.70	21.60	-4.85%	N/A	N/A	N/A	N/A
S	5600	HEAD	02/02/2026	19.6	19.0	0.05	1057	7661	1558	3.99	82.80	79.80	-3.62%	1.15	23.60	23.00	-2.54%	N/A	N/A	N/A	N/A
S	5750	HEAD	02/02/2026	19.6	19.0	0.05	1057	7661	1558	3.67	79.80	73.40	-8.02%	1.04	22.70	20.80	-8.37%	N/A	N/A	N/A	N/A
S	5850	HEAD	02/02/2026	19.6	19.0	0.05	1057	7661	1558	3.93	81.50	78.60	-3.56%	1.11	23.00	22.20	-3.48%	N/A	N/A	N/A	N/A
R	6500	HEAD	02/09/2026	21.2	19.3	0.03	1018	7713	1639	7.79	298.00	311.60	4.56%	1.42	55.70	56.80	1.97%	34.50	1350.00	1380.00	2.22%
M	6500	HEAD	02/12/2026	22.4	20.8	0.03	1018	7406	1677	7.14	298.00	285.60	-4.16%	1.32	55.70	52.80	-5.21%	31.80	1350.00	1272.00	-5.78%

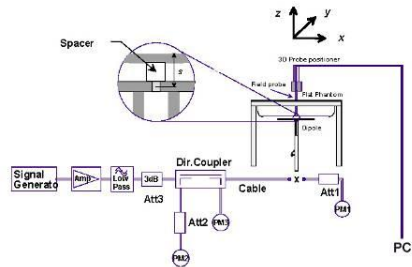


Figure 11-1
System Verification Setup Diagram



Figure 11-2
System Verification Setup Photo

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11.3 Power Density Test System Verification

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

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

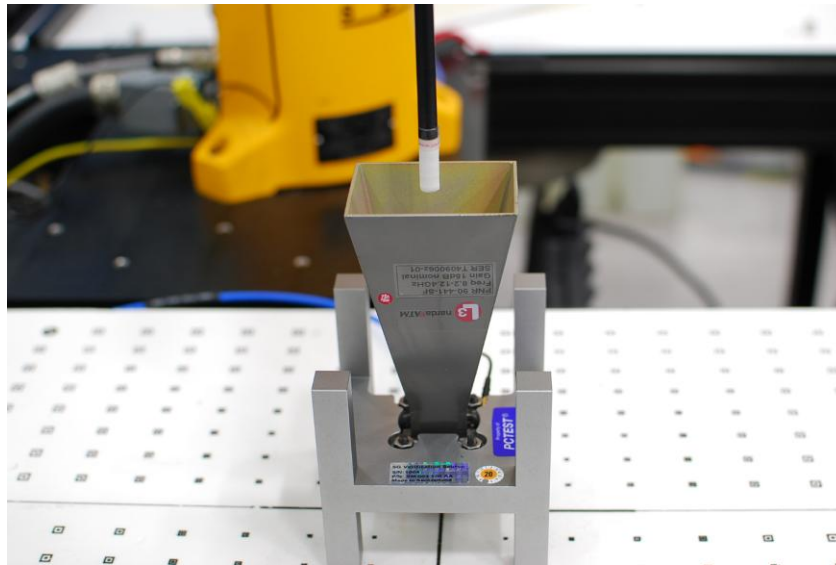


Figure 11-3
System Verification Setup Photo

Table 11-8
10 GHz Verifications

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	02/02/2026	1002	9389	1213	51.40	56.60	-0.21	51.20	56.80	-0.22

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	1816M	1:8.3	-0.12	824.20	128	34.0	33.66	Right Cheek	0	0.016	1.081	0.017	0.011		42.4	
Head	GSM 850	GSM	A	1816M	1:8.3	0.05	824.20	128	34.0	33.66	Right Tilt	0	0.007	1.081	0.008	0.005		46.0	
Head	GSM 850	GSM	A	1816M	1:8.3	-0.11	824.20	128	34.0	33.66	Left Cheek	0	0.011	1.081	0.012	0.008		44.0	
Head	GSM 850	GSM	A	1816M	1:8.3	0.10	824.20	128	34.0	33.66	Left Tilt	0	0.006	1.081	0.006	0.004		46.6	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population											Head 1.6 W/kg (mW/g) averaged over 1 gram								

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	1816M	1:8.3	-0.01	848.80	251	28.5	28.34	Right Cheek	0	0.390	1.038	0.405	0.253		23.2	
Head	GSM 850	GSM	E	1816M	1:8.3	-0.03	848.80	251	28.5	28.34	Right Tilt	0	0.333	1.038	0.346	0.216		23.9	
Head	GSM 850	GSM	E	1816M	1:8.3	-0.20	848.80	251	28.5	28.34	Left Cheek	0	0.392	1.038	0.407	0.254		23.2	
Head	GSM 850	GSM	E	1816M	1:8.3	-0.01	848.80	251	28.5	28.34	Left Tilt	0	0.395	1.038	0.410	0.256	Plot	23.1	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population											Head 1.6 W/kg (mW/g) averaged over 1 gram								

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	GSM 850	GPRS 4 Tx Slots	A	1816M	1:2.076	-0.07	848.80	251	25.0	23.93	Back	5	0.363	1.279	0.464	0.290	Plot	25.1	
Body-worn/Hotspot	GSM 850	GPRS 4 Tx Slots	A	1816M	1:2.076	0.00	848.80	251	25.0	23.93	Front	5	0.204	1.279	0.261	0.163		27.6	
Hotspot	GSM 850	GPRS 4 Tx Slots	A	1816M	1:2.076	0.02	848.80	251	25.0	23.93	Bottom	10	0.041	1.279	0.052	0.033		34.6	
Hotspot	GSM 850	GPRS 4 Tx Slots	A	1816M	1:2.076	-0.04	848.80	251	25.0	23.93	Right	10	0.064	1.279	0.082	0.051		32.6	
Hotspot	GSM 850	GPRS 4 Tx Slots	A	1816M	1:2.076	0.07	848.80	251	25.0	23.93	Left	10	0.026	1.279	0.033	0.021		36.5	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population											Body 1.6 W/kg (mW/g) averaged over 1 gram								

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 3 Tx Slots	E	1816M	1:2.76	-0.03	848.80	251	24.0	23.24	Back	5	0.322	1.191	0.384	0.240		23.7	
Body-worn/Hotspot	GPRS 850	GPRS 3 Tx Slots	E	1816M	1:2.76	-0.08	848.80	251	24.0	23.24	Front	5	0.250	1.191	0.298	0.186		24.8	
Hotspot	GPRS 850	GPRS 3 Tx Slots	E	1816M	1:2.76	0.02	848.80	251	24.0	23.24	Top	10	0.103	1.191	0.123	0.077		28.6	
Hotspot	GPRS 850	GPRS 3 Tx Slots	E	1816M	1:2.76	-0.04	848.80	251	24.0	23.24	Right	10	0.070	1.191	0.083	0.052		30.3	
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	1853M	1:8.3	-0.03	1909.80	810	31.0	30.16	Right Cheek	0	0.053	1.213	0.064	0.040	Plot	33.7	
Head	GSM 1900	GSM	A	1853M	1:8.3	-0.02	1909.80	810	31.0	30.16	Right Tilt	0	0.025	1.213	0.030	0.019		36.9	
Head	GSM 1900	GSM	A	1853M	1:8.3	0.10	1909.80	810	31.0	30.16	Left Cheek	0	0.047	1.213	0.057	0.036		34.2	
Head	GSM 1900	GSM	A	1853M	1:8.3	0.01	1909.80	810	31.0	30.16	Left Tilt	0	0.021	1.213	0.025	0.016		37.7	
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 12-6 | 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 1 Tx Slots	A	1853M	1:4.15	0.00	1850.20	512	27.5	26.38	Back	5	0.741	1.294	0.959	0.599		18.4	
Body-worn/Hotspot	GPRS 1900	GPRS 1 Tx Slots	A	1853M	1:4.15	0.00	1880.00	661	27.5	26.31	Back	5	0.741	1.315	0.974	0.609	Plot	18.4	
Body-worn/Hotspot	GPRS 1900	GPRS 1 Tx Slots	A	1853M	1:4.15	-0.01	1909.80	810	27.5	26.22	Back	5	0.637	1.343	0.842	0.526		19.0	
Body-worn/Hotspot	GPRS 1900	GPRS 1 Tx Slots	A	1853M	1:4.15	0.02	1850.20	512	27.5	26.38	Front	5	0.693	1.294	0.897	0.561		18.7	
Body-worn/Hotspot	GPRS 1900	GPRS 1 Tx Slots	A	1853M	1:4.15	0.00	1880.00	661	27.5	26.31	Front	5	0.704	1.315	0.926	0.579		18.6	
Body-worn/Hotspot	GPRS 1900	GPRS 1 Tx Slots	A	1853M	1:4.15	0.00	1909.80	810	27.5	26.22	Front	5	0.698	1.343	0.817	0.511		19.1	
Hotspot	GPRS 1900	GPRS 1 Tx Slots	A	1853M	1:4.15	0.01	1850.20	512	27.5	26.38	Bottom	10	0.311	1.294	0.402	0.251		22.2	
Hotspot	GPRS 1900	GPRS 1 Tx Slots	A	1853M	1:4.15	-0.03	1850.20	512	27.5	26.38	Right	10	0.026	1.294	0.034	0.021		33.0	
Hotspot	GPRS 1900	GPRS 1 Tx Slots	A	1853M	1:4.15	-0.10	1850.20	512	27.5	26.38	Left	10	0.016	1.294	0.021	0.013		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								

12.3 UMTS 850 Standalone SAR

Table 12-7

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	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	1816M	1:1	0.04	826.40	4132	25.0	24.64	Right Cheek	0	0.148	1.086	0.151	0.101		32.9	
Head	UMTS 850	RMC	A	1816M	1:1	0.05	826.40	4132	25.0	24.64	Right Tilt	0	0.065	1.086	0.071	0.044		36.5	
Head	UMTS 850	RMC	A	1816M	1:1	-0.07	826.40	4132	25.0	24.64	Left Cheek	0	0.093	1.086	0.101	0.063		34.9	
Head	UMTS 850	RMC	A	1816M	1:1	0.02	826.40	4132	25.0	24.64	Left Tilt	0	0.057	1.086	0.062	0.039		37.0	
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 12-8 | 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 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	1816M	1:1	-0.07	826.40	4132	22.0	20.19	Right Cheek	0	0.498	1.517	0.755	0.472		23.2	
Head	UMTS 850	RMC	E	1816M	1:1	0.03	826.40	4132	22.0	20.19	Right Tilt	0	0.432	1.517	0.655	0.409		23.8	
Head	UMTS 850	RMC	E	1816M	1:1	0.01	826.40	4132	22.0	20.19	Left Cheek	0	0.518	1.517	0.786	0.491	Plot	23.0	
Head	UMTS 850	RMC	E	1816M	1:1	-0.03	826.40	4132	22.0	20.19	Left Tilt	0	0.496	1.517	0.752	0.470		23.2	
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 12-9 | 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]
Body-worn/Hotspot	UMTS 850	RMC	A	1816M	1:1	-0.01	826.40	4132	23.0	21.75	Back	5	0.585	1.334	0.780	0.488	Plot	24.0	
Body-worn/Hotspot	UMTS 850	RMC	A	1816M	1:1	0.02	826.40	4132	23.0	21.75	Front	5	0.312	1.334	0.416	0.260		26.8	
Hotspot	UMTS 850	RMC	A	1816M	1:1	-0.04	826.40	4132	23.0	21.75	Bottom	10	0.078	1.334	0.104	0.065		32.8	
Hotspot	UMTS 850	RMC	A	1816M	1:1	0.02	826.40	4132	23.0	21.75	Right	10	0.158	1.334	0.211	0.132		29.7	
Hotspot	UMTS 850	RMC	A	1816M	1:1	-0.04	826.40	4132	23.0	21.75	Left	10	0.084	1.334	0.112	0.070		32.5	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population											Body 1.6 W/kg (mW/g) averaged over 1 gram								

Table 12-10

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body-worn/Hotspot	UMTS 850	RMC	E	1816M	1:1	-0.01	826.40	4132	22.0	20.19	Back	5	0.485	1.517	0.736	0.460		23.3	
Body-worn/Hotspot	UMTS 850	RMC	E	1816M	1:1	-0.03	826.40	4132	22.0	20.19	Front	5	0.432	1.517	0.625	0.391		24.0	
Hotspot	UMTS 850	RMC	E	1816M	1:1	0.01	826.40	4132	22.0	20.19	Top	10	0.187	1.517	0.284	0.178		27.4	
Hotspot	UMTS 850	RMC	E	1816M	1:1	0.04	826.40	4132	22.0	20.19	Right	10	0.122	1.517	0.185	0.116		29.3	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population											Body 1.6 W/kg (mW/g) averaged over 1 gram								

12.4 LTE Band 12 Standalone SAR

Table 12-11

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Head	LTE Band 12	10	QPSK	A	1241M	1:1	0.01	707.50	23095	0.0	25.5	24.49	1	49	Right Cheek	0	0.140	1.262	0.177	0.111		33.0	
Head	LTE Band 12	10	QPSK	A	1241M	1:1	0.00	707.50	23095	1.0	24.5	23.42	25	25	Right Cheek	0	0.111	1.262	0.142	0.089		32.9	
Head	LTE Band 12	10	QPSK	A	1241M	1:1	0.04	707.50	23095	0.0	25.5	24.49	1	49	Right Tilt	0	0.070	1.262	0.088	0.055		36.0	
Head	LTE Band 12	10	QPSK	A	1241M	1:1	0.08	707.50	23095	1.0	24.5	23.42	25	25	Right Tilt	0	0.058	1.282	0.074	0.046		35.7	
Head	LTE Band 12	10	QPSK	A	1241M	1:1	0.05	707.50	23095	0.0	25.5	24.49	1	49	Left Cheek	0	0.119	1.262	0.150	0.094		33.7	
Head	LTE Band 12	10	QPSK	A	1241M	1:1	0.03	707.50	23095	1.0	24.5	23.42	25	25	Left Cheek	0	0.092	1.282	0.118	0.074		33.7	
Head	LTE Band 12	10	QPSK	A	1241M	1:1	0.07	707.50	23095	0.0	25.5	24.49	1	49	Left Tilt	0	0.088	1.262	0.111	0.069		35.0	
Head	LTE Band 12	10	QPSK	A	1241M	1:1	-0.11	707.50	23095	1.0	24.5	23.42	25	25	Left Tilt	0	0.061	1.282	0.081	0.051		35.4	
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 12-12 | Plot A7

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	1222M	1-1	-0.00	707.50	23095	0.0	20.0	19.44	1	49	Right Cheek	0	0.239	1.138	0.272	0.170		25.6	23.5
Head	LTE Band 12	10	QPSK	E	1222M	1-1	-0.02	707.50	23095	0.0	20.0	19.44	25	25	Right Cheek	0	0.254	1.138	0.289	0.181		25.3	
Head	LTE Band 12	10	QPSK	E	1222M	1-1	-0.03	707.50	23095	0.0	20.0	19.44	1	49	Right Tilt	0	0.205	1.138	0.233	0.146		26.3	
Head	LTE Band 12	10	QPSK	E	1222M	1-1	-0.04	707.50	23095	0.0	20.0	19.44	25	25	Right Tilt	0	0.228	1.138	0.248	0.155		26.0	
Head	LTE Band 12	10	QPSK	E	1222M	1-1	0.02	707.50	23095	0.0	20.0	19.44	1	49	Left Cheek	0	0.384	1.138	0.457	0.273	Plot	23.5	
Head	LTE Band 12	10	QPSK	E	1222M	1-1	0.15	707.50	23095	0.0	20.0	19.44	25	25	Left Cheek	0	0.363	1.138	0.413	0.258		23.8	
Head	LTE Band 12	10	QPSK	E	1222M	1-1	0.16	707.50	23095	0.0	20.0	19.44	1	49	Left Tilt	0	0.290	1.138	0.330	0.206		24.8	
Head	LTE Band 12	10	QPSK	E	1222M	1-1	0.17	707.50	23095	0.0	20.0	19.44	25	25	Left Tilt	0	0.271	1.138	0.308	0.193		25.1	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Head 1.6 W/kg (mW/g) averaged over 1 gram						

Table 12-13 | Plot A8

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	1222M	1-1	0.03	707.50	23095	0.0	23.0	22.06	1	49	Back	5	0.370	1.242	0.460	0.288		26.3	
Body-worn/Hotspot	LTE Band 12	10	QPSK	A	1222M	1-1	-0.04	707.50	23095	0.0	23.0	22.06	25	25	Back	5	0.365	1.242	0.464	0.303	Plot	26.1	
Body-worn/Hotspot	LTE Band 12	10	QPSK	A	1222M	1-1	-0.12	707.50	23095	0.0	23.0	22.06	1	49	Front	5	0.072	1.242	0.089	0.056		31.4	
Body-worn/Hotspot	LTE Band 12	10	QPSK	A	1222M	1-1	-0.18	707.50	23095	0.0	23.0	22.06	25	25	Front	5	0.076	1.242	0.094	0.059		33.2	
Hotspot	LTE Band 12	10	QPSK	A	1222M	1-1	-0.10	707.50	23095	0.0	23.0	22.06	1	49	Bottom	10	0.088	1.242	0.109	0.068		32.6	
Hotspot	LTE Band 12	10	QPSK	A	1222M	1-1	-0.01	707.50	23095	0.0	23.0	22.06	25	25	Bottom	10	0.089	1.242	0.111	0.069		32.5	
Hotspot	LTE Band 12	10	QPSK	A	1222M	1-1	-0.02	707.50	23095	0.0	23.0	22.06	1	49	Right	10	0.120	1.242	0.149	0.093		31.2	
Hotspot	LTE Band 12	10	QPSK	A	1222M	1-1	-0.02	707.50	23095	0.0	23.0	22.06	25	25	Right	10	0.126	1.242	0.156	0.098		31.0	
Hotspot	LTE Band 12	10	QPSK	A	1222M	1-1	0.00	707.50	23095	0.0	23.0	22.06	1	49	Left	10	0.105	1.242	0.130	0.081		31.8	
Hotspot	LTE Band 12	10	QPSK	A	1222M	1-1	-0.04	707.50	23095	0.0	23.0	22.06	25	25	Left	10	0.112	1.242	0.139	0.087		31.5	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Body 1.6 W/kg (mW/g) averaged over 1 gram						

Table 12-14

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	0105M	1-1	-0.07	707.50	23095	0.0	20.0	19.44	1	49	Back	5	0.313	1.138	0.356	0.223		24.4				
Body-worn/Hotspot	LTE Band 12	10	QPSK	E	0105M	1-1	-0.12	707.50	23095	0.0	20.0	19.44	25	25	Back	5	0.290	1.138	0.330	0.206		24.8				
Body-worn/Hotspot	LTE Band 12	10	QPSK	E	1222M	1-1	-0.19	707.50	23095	0.0	20.0	19.44	1	49	Front	5	0.173	1.138	0.187	0.123		27.0				
Body-worn/Hotspot	LTE Band 12	10	QPSK	E	1222M	1-1	0.00	707.50	23095	0.0	20.0	19.44	25	25	Front	5	0.178	1.138	0.203	0.127		26.9				
Hotspot	LTE Band 12	10	QPSK	E	1222M	1-1	-0.01	707.50	23095	0.0	20.0	19.44	1	49	Top	10	0.080	1.138	0.080	0.056		30.9	24.4			
Hotspot	LTE Band 12	10	QPSK	E	1222M	1-1	-0.01	707.50	23095	0.0	20.0	19.44	25	25	Top	10	0.067	1.138	0.076	0.048		31.1				
Hotspot	LTE Band 12	10	QPSK	E	1222M	1-1	0.02	707.50	23095	0.0	20.0	19.44	1	49	Right	10	0.094	1.138	0.107	0.067		29.7				
Hotspot	LTE Band 12	10	QPSK	E	1222M	1-1	0.00	707.50	23095	0.0	20.0	19.44	25	25	Right	10	0.081	1.138	0.106	0.066		29.7				
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Body 1.6 W/kg (mW/g) averaged over 1 gram									

12.5 LTE Band 5 (Cell) Standalone SAR

Table 12-15

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	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 5	10	QPSK	A	0105M	1-1	0.07	836.50	20525	0.0	25.0	24.14	1	0	Right Cheek	0	0.195	1.219	0.238	0.149		31.2	
Head	LTE Band 5	10	QPSK	A	0105M	1-1	0.05	836.50	20525	1.0	24.0	23.44	25	0	Right Cheek	0	0.154	1.138	0.175	0.109		31.5	
Head	LTE Band 5	10	QPSK	A	1243M	1-1	0.02	836.50	20525	0.0	25.0	24.14	1	0	Right Tilt	0	0.084	1.219	0.102	0.064		34.8	
Head	LTE Band 5	10	QPSK	A	1243M	1-1	0.05	836.50	20525	1.0	24.0	23.44	25	0	Right Tilt	0	0.067	1.138	0.076	0.048		35.1	
Head	LTE Band 5	10	QPSK	A	1243M	1-1	0.05	836.50	20525	0.0	25.0	24.14	1	0	Left Cheek	0	0.122	1.219	0.149	0.093		33.2	
Head	LTE Band 5	10	QPSK	A	1243M	1-1	0.05	836.50	20525	1.0	24.0	23.44	25	0	Left Cheek	0	0.106	1.138	0.121	0.076		33.1	
Head	LTE Band 5	10	QPSK	A	1243M	1-1	0.07	836.50	20525	0.0	25.0	24.14	1	0	Left Tilt	0	0.075	1.219	0.091	0.057		35.3	
Head	LTE Band 5	10	QPSK	A	1243M	1-1	0.02	836.50	20525	1.0	24.0	23.44	25	0	Left Tilt	0	0.062	1.138	0.072	0.045		35.4	
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 12-16 | Plot A9

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 5	10	QPSK	E	1222M	1-1	-0.04	836.50	20525	0.0	20.5	19.01	1	0	Right Cheek	0	0.359	1.409	0.506	0.403		23.4	
Head	LTE Band 5	10	QPSK	E	1222M	1-1	-0.06	836.50	20525	0.0	20.5	19.12	25	0	Right Cheek	0	0.378	1.374	0.519	0.413		23.3	
Head	LTE Band 5	10	QPSK	E	1222M	1-1	-0.02	836.50	20525	0.0	20.5	19.01	1	0	Right Tilt	0	0.323	1.409	0.465	0.365		23.9	
Head	LTE Band 5	10	QPSK	E	1222M	1-1	0.04	836.50	20525	0.0	20.5	19.12	25	0	Right Tilt	0	0.337	1.374	0.463	0.368		23.8	
Head	LTE Band 5	10	QPSK	E	1222M	1-1	0.12	836.50	20525	0.0	20.5	19.01	1	0	Left Cheek	0	0.464	1.409	0.654	0.519		22.3	
Head	LTE Band 5	10	QPSK	E	1222M	1-1	0.05	836.50	20525	0.0	20.5	19.12	25	0	Left Cheek	0	0.478	1.374	0.657	0.521	Plot	22.3	
Head	LTE Band 5	10	QPSK	E	1222M	1-1	0.15	836.50	20525	0.0	20.5	19.01	1	0	Left Tilt	0	0.389	1.409	0.548	0.435		23.1	
Head	LTE Band 5	10	QPSK	E	1222M	1-1	0.09	836.50	20525	0.0	20.5	19.12	25	0	Left Tilt	0	0.396	1.374	0.544	0.432		23.1	
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 12-17

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	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 5	10	QPSK	A	1222M	1-1	-0.09	836.50	20525	0.0	22.5	21.65	1	0	Back	5	0.299	1.216	0.364	0.289		26.8	
Body-worn/Hotspot	LTE Band 5	10	QPSK	A	1222M	1-1	-0.19	836.50	20525	0.0	22.5	21.63	25	0	Back	5	0.329	1.222	0.403	0.318		26.4	
Body-worn/Hotspot	LTE Band 5	10	QPSK	A	0105M	1-1	-0.05	836.50	20525	0.0	22.5	21.65	1	0	Front	5	0.318	1.216	0.387	0.307		26.6	
Body-worn/Hotspot	LTE Band 5	10	QPSK	A	0105M	1-1	-0.03	836.50	20525	0.0	22.5	21.63	25	0	Front	5	0.329	1.222	0.402	0.318		26.4	
Hotspot	LTE Band 5	10	QPSK	A	0105M	1-1	-0.02	836.50	20525	0.0	22.5	21.65	1	0	Bottom	10	0.080	1.216	0.097	0.078		32.6	
Hotspot	LTE Band 5	10	QPSK	A	0105M	1-1	-0.08	836.50	20525	0.0	22.5	21.63	25	0	Bottom	10	0.083	1.222	0.104	0.083		32.4	
Hotspot	LTE Band 5	10	QPSK	A	0105M	1-1	-0.04	836.50	20525	0.0	22.5	21.65	1	0	Right	10	0.080	1.216	0.103	0.098		31.6	
Hotspot	LTE Band 5	10	QPSK	A	0105M	1-1	-0.02	836.50	20525	0.0	22.5	21.63	25	0	Right	10	0.082	1.222	0.100	0.079		32.4	
Hotspot	LTE Band 5	10	QPSK	A	0105M	1-1	-0.06	836.50	20525	0.0	22.5	21.65	1	0	Left	10	0.079	1.216	0.096	0.076		32.6	
Hotspot	LTE Band 5	10	QPSK	A	0105M	1-1	-0.02	836.50	20525	0.0	22.5	21.63	25	0	Left	10	0.080	1.222	0.098	0.078		32.5	
ANSI/IEEE C63.1-1992 - SAFETY LIMIT																	Body						
Spatial Peak																	1.6 W/kg (mW/g)						
Uncontrolled Exposure/General Population																	averaged over 10g						

Table 12-18 | Plot A10

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 5	10	QPSK	E	0105M	1-1	0.03	836.50	20525	0.0	20.5	19.01	1	0	Back	5	0.393	1.409	0.554	0.439		23.0	
Body-worn/Hotspot	LTE Band 5	10	QPSK	E	0105M	1-1	-0.17	836.50	20525	0.0	20.5	19.12	25	0	Back	5	0.396	1.374	0.544	0.432	Plot	23.1	
Body-worn/Hotspot	LTE Band 5	10	QPSK	E	0105M	1-1	-0.03	836.50	20525	0.0	20.5	19.01	1	0	Front	5	0.332	1.409	0.468	0.371		23.7	
Body-worn/Hotspot	LTE Band 5	10	QPSK	E	0105M	1-1	-0.18	836.50	20525	0.0	20.5	19.12	25	0	Front	5	0.335	1.374	0.460	0.366		23.8	
Hotspot	LTE Band 5	10	QPSK	E	1222M	1-1	-0.04	836.50	20525	0.0	20.5	19.01	1	0	Top	30	0.118	1.409	0.166	0.139		28.2	
Hotspot	LTE Band 5	10	QPSK	E	1222M	1-1	0.00	836.50	20525	0.0	20.5	19.12	25	0	Top	30	0.123	1.374	0.169	0.134		28.2	
Hotspot	LTE Band 5	10	QPSK	E	1222M	1-1	0.00	836.50	20525	0.0	20.5	19.01	1	0	Right	30	0.111	1.409	0.156	0.124		28.5	
Hotspot	LTE Band 5	10	QPSK	E	1222M	1-1	0.00	836.50	20525	0.0	20.5	19.12	25	0	Right	30	0.111	1.374	0.153	0.121		28.6	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Body 1.6 W/kg (mW/g) averaged over 1 gram						

12.6 LTE Band 66 (AWS) Standalone SAR

Table 12-19

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	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 66	20	QPSK	A	1907M	1-1	-0.03	1740.00	132072	0.0	24.5	23.84	1	0	Right Cheek	0	0.081	1.164	0.094	0.059		14.7	
Head	LTE Band 66	20	QPSK	A	1907M	1-1	0.07	1740.00	132322	1.0	23.5	22.77	50	25	Right Cheek	0	0.049	1.183	0.054	0.038		15.8	
Head	LTE Band 66	20	QPSK	A	1907M	1-1	0.07	1740.00	132072	0.0	24.5	23.84	1	0	Right Tilt	0	0.069	1.164	0.080	0.050		15.4	
Head	LTE Band 66	20	QPSK	A	1907M	1-1	0.01	1745.00	132322	1.0	23.5	22.77	50	25	Right Tilt	0	0.040	1.183	0.047	0.029		16.7	
Head	LTE Band 66	20	QPSK	A	1907M	1-1	-0.05	1740.00	132072	0.0	24.5	23.84	1	0	Left Cheek	0	0.147	1.164	0.171	0.107		22.1	
Head	LTE Band 66	20	QPSK	A	1907M	1-1	0.00	1745.00	132322	1.0	23.5	22.77	50	25	Left Cheek	0	0.100	1.183	0.125	0.078		32.5	
Head	LTE Band 66	20	QPSK	A	1907M	1-1	0.21	1740.00	132072	0.0	24.5	23.84	1	0	Left Tilt	0	0.056	1.164	0.065	0.041		16.3	
Head	LTE Band 66	20	QPSK	A	1907M	1-1	-0.14	1745.00	132322	1.0	23.5	22.77	50	25	Left Tilt	0	0.040	1.183	0.054	0.034		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						

Table 12-20 | Plot A11

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 66	20	QPSK	F	1907M	1-1	0.00	1745.00	132322	0.0	18.0	17.64	1	99	Right Cheek	0	0.577	1.086	0.627	0.392		20.0	
Head	LTE Band 66	20	QPSK	F	1907M	1-1	0.00	1745.00	132322	0.0	18.0	17.64	50	50	Right Cheek	0	0.572	1.086	0.621	0.388		20.0	
Head	LTE Band 66	20	QPSK	F	1907M	1-1	0.04	1745.00	132322	0.0	18.0	17.64	1	99	Right Tilt	0	0.626	1.086	0.680	0.425		19.6	
Head	LTE Band 66	20	QPSK	F	1907M	1-1	-0.01	1745.00	132322	0.0	18.0	17.64	50	50	Right Tilt	0	0.638	1.086	0.693	0.433	Plot	19.5	
Head	LTE Band 66	20	QPSK	F	1907M	1-1	0.02	1745.00	132322	0.0	18.0	17.64	1	99	Left Cheek	0	0.366	1.086	0.397	0.248		22.0	
Head	LTE Band 66	20	QPSK	F	1907M	1-1	0.01	1745.00	132322	0.0	18.0	17.64	50	50	Left Cheek	0	0.367	1.086	0.399	0.249		21.9	
Head	LTE Band 66	20	QPSK	F	1907M	1-1	-0.04	1745.00	132322	0.0	18.0	17.64	1	99	Left Tilt	0	0.522	1.086	0.567	0.354		20.4	
Head	LTE Band 66	20	QPSK	F	1907M	1-1	0.00	1745.00	132322	0.0	18.0	17.64	50	50	Left Tilt	0	0.530	1.086	0.576	0.360		20.3	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Head 1.6 W/kg (mW/g) averaged over 1 gram						

Table 12-21 | Plot A12

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 66	20	QPSK	A	1907M	1-1	0.03	1720.00	132072	0.0	18.0	17.71	1	0	Back	5	0.604	1.069	0.646	0.404	Plot	19.8	
Body-worn/Hotspot	LTE Band 66	20	QPSK	A	1907M	1-1	0.01	1745.00	132322	0.0	18.0	17.63	50	50	Back	5	0.535	1.089	0.583	0.364		20.3	
Body-worn/Hotspot	LTE Band 66	20	QPSK	A	1907M	1-1	-0.01	1740.00	132072	0.0	18.0	17.71	1	0	Front	5	0.485	1.069	0.514	0.321		20.8	
Body-worn/Hotspot	LTE Band 66	20	QPSK	A	1907M	1-1	0.02	1745.00	132322	0.0	18.0	17.63	50	50	Front	5	0.499	1.089	0.533	0.331		20.7	
Hotspot	LTE Band 66	20	QPSK	A	1907M	1-1	-0.04	1740.00	132072	0.0	18.0	17.71	1	0	Bottom	30	0.437	1.069	0.467	0.292		21.3	
Hotspot	LTE Band 66	20	QPSK	A	1907M	1-1	0.00	1745.00	132322	0.0	18.0	17.63	50	50	Bottom	30	0.473	1.089	0.513	0.321		20.8	
Hotspot	LTE Band 66	20	QPSK	A	1907M	1-1	-0.03	1720.00	132072	0.0	18.0	17.71	1	0	Right	30	0.083	1.069	0.093	0.021		32.7	
Hotspot	LTE Band 66	20	QPSK	A	1907M	1-1	0.04	1745.00	132322	0.0	18.0	17.63	50	50	Right	30	0.024	1.089	0.026	0.016		33.8	
Hotspot	LTE Band 66	20	QPSK	A	1907M	1-1	-0.05	1720.00	132072	0.0	18.0	17.71	1	0	Left	30	0.039	1.069	0.042	0.026		31.7	
Hotspot	LTE Band 66	20	QPSK	A	1907M	1-1	0.08	1745.00	132322	0.0	18.0	17.63	50	50	Left	30	0.044	1.089	0.048	0.030		31.1	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Body 1.6 W/kg (mW/g) averaged over 1 gram						

Table 12-22

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 66	20	QPSK	F	1907M	1-1	0.07	1745.00	132322	0.0	18.0	17.64	1	99	Back	5	0.321	1.086	0.349	0.218		22.5	
Body-worn/Hotspot	LTE Band 66	20	QPSK	F	1907M	1-1	0.01	1745.00	132322	0.0	18.0	17.64	50	50	Back	5	0.318	1.086	0.345	0.216		22.6	
Body-worn/Hotspot	LTE Band 66	20	QPSK	F	1907M	1-1	0.00	1740.00	132072	0.0	18.0	17.64	1	99	Front	5	0.265	1.086	0.280	0.176		23.4	
Body-worn/Hotspot	LTE Band 66	20	QPSK	F	1907M	1-1	-0.05	1745.00	132322	0.0	18.0	17.64	50	50	Front	5	0.261	1.086	0.283	0.177		23.4	
Hotspot	LTE Band 66	20	QPSK	F	1907M	1-1	0.00	1745.00	132322	0.0	18.0	17.64	1	99	Top	30	0.251	1.086	0.273	0.173		23.6	
Hotspot	LTE Band 66	20	QPSK	F	1907M	1-1	0.00	1745.00	132322	0.0	18.0	17.64	50	50	Top	30	0.260	1.086	0.282	0.176		23.4	
Hotspot	LTE Band 66	20	QPSK	F	1907M	1-1	-0.08	1745.00	132322	0.0	18.0	17.64	1	99	Left	30	0.081	1.086	0.088	0.055		28.5	
Hotspot	LTE Band 66	20	QPSK	F	1907M	1-1	-0.06	1745.00	132322	0.0	18.0	17.64	50	50	Left	30	0.079	1.086	0.086	0.054		28.6	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Body 1.6 W/kg (mW/g) averaged over 1 gram						

Table 12-23 | Plot A13

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 66	20	QPSK	A	1907M	1-1	0.01	1720.00	132072	0.0	18.0	17.71	1	0	Bottom	0	0.683	1.069	0.730	0.183	Plot	23.1	23.3
Phablet	LTE Band 66	20	QPSK	A	1907M	1-1	0.01	1745.00	132322	0.0	18.0	17.63	50	50	Bottom	0	0.628	1.089	0.684	0.171		23.6	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Phablet 4.0 W/kg (mW/g) averaged over 10 grams						

12.7 LTE Band 2 (PCS) Standalone SAR

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 #	Plimit [dBm]	Overall Plimit [dBm]
Head	LTE Band 2	20	QPSK	A	1907M	1-1	0.01	1880.00	18900	0.0	24.5	23.48	1	99	Right Cheek	0	0.093	1.265	0.118	0.074		33.7	32.1
Head	LTE Band 2	20	QPSK	A	1907M	1-1	0.10	1880.00	18900	1.0	23.5	22.41	50	50	Right Cheek	0	0.073	1.285	0.094	0.059		33.7	
Head	LTE Band 2	20	QPSK	A	1907M	1-1	-0.09	1880.00	18900	0.0	24.5	23.48	1	99	Right Tilt	0	0.058	1.265	0.073	0.046		35.8	
Head	LTE Band 2	20	QPSK	A	1907M	1-1	-0.06	1880.00	18900	1.0	23.5	22.41	50	50	Right Tilt	0	0.043	1.285	0.055	0.034		36.0	
Head	LTE Band 2	20	QPSK	A	1907M	1-1	0.19	1880.00	18900	0.0	24.5	23.48	1	99	Left Cheek	0	0.129	1.265	0.163	0.102		32.3	
Head	LTE Band 2	20	QPSK	A	1907M	1-1	0.07	1880.00	18900	1.0	23.5	22.41	50	50	Left Cheek	0	0.105	1.285	0.135	0.084		32.1	
Head	LTE Band 2	20	QPSK	A	1907M	1-1	0.03	1880.00	18900	0.0	24.5	23.48	1	99	Left Tilt	0	0.047	1.265	0.059	0.037		36.7	
Head	LTE Band 2	20	QPSK	A	1907M	1-1	-0.05	1880.00	18900	1.0	23.5	22.41	50	50	Left Tilt	0	0.044	1.285	0.057	0.036		35.9	
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 12-25 | 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 #	Plimit [dBm]	Overall Plimit [dBm]
Head	LTE Band 2	20	QPSK	F	1907M	1-1	-0.01	1880.00	18900	0.0	18.0	17.63	1	99	Right Cheek	0	0.485	1.371	0.605	0.416		20.7	20.5
Head	LTE Band 2	20	QPSK	F	1907M	1-1	-0.02	1880.00	18900	0.0	18.0	17.63	50	50	Right Cheek	0	0.482	1.377	0.604	0.415		20.7	
Head	LTE Band 2	20	QPSK	F	1907M	1-1	0.05	1880.00	18900	0.0	18.0	17.63	1	99	Right Tilt	0	0.514	1.371	0.705	0.441	Plot	20.5	
Head	LTE Band 2	20	QPSK	F	1907M	1-1	0.03	1880.00	18900	0.0	18.0	17.63	50	50	Right Tilt	0	0.513	1.377	0.706	0.443		20.5	
Head	LTE Band 2	20	QPSK	F	1907M	1-1	-0.04	1880.00	18900	0.0	18.0	17.63	1	99	Left Cheek	0	0.284	1.371	0.389	0.243		19.3	
Head	LTE Band 2	20	QPSK	F	1907M	1-1	0.00	1880.00	18900	0.0	18.0	17.63	50	50	Left Cheek	0	0.280	1.377	0.394	0.240		20.0	
Head	LTE Band 2	20	QPSK	F	1907M	1-1	0.01	1880.00	18900	0.0	18.0	17.63	1	99	Left Tilt	0	0.379	1.371	0.520	0.325		21.8	
Head	LTE Band 2	20	QPSK	F	1907M	1-1	-0.01	1880.00	18900	0.0	18.0	17.63	50	50	Left Tilt	0	0.373	1.377	0.514	0.321		21.8	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Head 1.6 W/kg (mW/g) averaged over 1 gram						

Table 12-26 | 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 #	Plimit [dBm]	Overall Plimit [dBm]
Body-worn/Hotspot	LTE Band 2	20	QPSK	A	1907M	1-1	-0.01	1880.00	18900	0.0	18.0	17.17	1	99	Back	5	0.584	1.211	0.707	0.442		19.5	19.3
Body-worn/Hotspot	LTE Band 2	20	QPSK	A	1907M	1-1	-0.03	1880.00	18900	0.0	18.0	17.08	50	50	Back	5	0.578	1.236	0.714	0.446		19.4	
Body-worn/Hotspot	LTE Band 2	20	QPSK	A	1907M	1-1	-0.02	1880.00	18900	0.0	18.0	17.17	1	99	Front	5	0.620	1.211	0.729	0.456	Plot	19.3	
Body-worn/Hotspot	LTE Band 2	20	QPSK	A	1907M	1-1	0.00	1880.00	18900	0.0	18.0	17.08	50	50	Front	5	0.593	1.236	0.733	0.458		19.3	
Hotspot	LTE Band 2	20	QPSK	A	1907M	1-1	-0.03	1880.00	18900	0.0	18.0	17.17	1	99	Bottom	10	0.556	1.211	0.673	0.421		19.7	
Hotspot	LTE Band 2	20	QPSK	A	1907M	1-1	0.02	1880.00	18900	0.0	18.0	17.08	50	50	Bottom	10	0.548	1.236	0.667	0.417		19.7	
Hotspot	LTE Band 2	20	QPSK	A	1907M	1-1	0.04	1880.00	18900	0.0	18.0	17.17	1	99	Right	10	0.053	1.211	0.064	0.040		29.9	
Hotspot	LTE Band 2	20	QPSK	A	1907M	1-1	0.01	1880.00	18900	0.0	18.0	17.08	50	50	Right	10	0.052	1.236	0.064	0.040		29.9	
Hotspot	LTE Band 2	20	QPSK	A	1907M	1-1	-0.01	1880.00	18900	0.0	18.0	17.17	1	99	Left	10	0.017	1.211	0.021	0.013		34.8	
Hotspot	LTE Band 2	20	QPSK	A	1907M	1-1	-0.06	1880.00	18900	0.0	18.0	17.08	50	50	Left	10	0.017	1.236	0.021	0.013		34.7	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Body 1.6 W/kg (mW/g) averaged over 1 gram						

Table 12-27

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 2	20	QPSK	F	1907M	1-1	0.01	1880.00	18900	0.0	18.0	17.63	1	99	Back	5	0.280	1.371	0.384	0.240		23.1	23.1
Body-worn/Hotspot	LTE Band 2	20	QPSK	F	1907M	1-1	0.03	1880.00	18900	0.0	18.0	17.63	50	50	Back	5	0.282	1.377	0.388	0.243		23.1	
Body-worn/Hotspot	LTE Band 2	20	QPSK	F	1907M	1-1	-0.01	1880.00	18900	0.0	18.0	17.63	1	99	Front	5	0.209	1.371	0.287	0.179		24.4	
Body-worn/Hotspot	LTE Band 2	20	QPSK	F	1907M	1-1	0.00	1880.00	18900	0.0	18.0	17.63	50	50	Front	5	0.210	1.377	0.289	0.181		24.3	
Hotspot	LTE Band 2	20	QPSK	F	1907M	1-1	0.03	1880.00	18900	0.0	18.0	17.63	1	99	Top	10	0.269	1.371	0.369	0.231		23.3	
Hotspot	LTE Band 2	20	QPSK	F	1907M	1-1	0.01	1880.00	18900	0.0	18.0	17.63	50	50	Top	10	0.260	1.377	0.358	0.224		23.4	
Hotspot	LTE Band 2	20	QPSK	F	1907M	1-1	0.04	1880.00	18900	0.0	18.0	17.63	1	99	Left	10	0.061	1.371	0.084	0.053		29.7	
Hotspot	LTE Band 2	20	QPSK	F	1907M	1-1	-0.12	1880.00	18900	0.0	18.0	17.63	50	50	Left	10	0.063	1.377	0.087	0.054		29.6	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Body 1.6 W/kg (mW/g) averaged over 1 gram						

Table 12-28 | 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 10g SAR [W/kg]	Power Scaling Factor	Reported 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Phablet	LTE Band 2	20	QPSK	A	1907M	1-1	-0.01	1880.00	18900	0.0	18.0	17.17	1	99	Bottom	0	0.771	1.211	0.934	0.234	Plot	22.2	22.2
Phablet	LTE Band 2	20	QPSK	A	1907M	1-1	0.03	1880.00	18900	0.0	18.0	17.08	50	50	Bottom	0	0.769	1.236	0.950	0.238		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						

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12.8 LTE Band 41 Standalone SAR

Table 12-29

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	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 41	20	QPSK	B	1820M	1:1.58	0.02	2506.00	39750	0.0	24.0	23.56	1	0	Right Cheek	0	0.039	1.107	0.043	0.027		35.6	31.9
Head	LTE Band 41	20	QPSK	B	1820M	1:1.58	0.03	2506.00	39750	1.0	23.0	22.38	50	0	Right Cheek	0	0.007	1.153	0.031	0.019		36.0	
Head	LTE Band 41	20	QPSK	B	1820M	1:1.58	0.09	2506.00	39750	0.0	24.0	23.56	1	0	Right Tilt	0	0.030	1.107	0.033	0.021		36.8	
Head	LTE Band 41	20	QPSK	B	1820M	1:1.58	0.04	2506.00	39750	1.0	23.0	22.38	50	0	Right Tilt	0	0.024	1.153	0.028	0.018		36.5	
Head	LTE Band 41	20	QPSK	B	1820M	1:1.58	0.04	2506.00	39750	0.0	24.0	23.56	1	0	Left Cheek	0	0.074	1.107	0.082	0.051		32.8	
Head	LTE Band 41	20	QPSK	B	1820M	1:1.58	-0.15	2506.00	39750	1.0	23.0	22.38	50	0	Left Cheek	0	0.070	1.153	0.081	0.051		31.9	
Head	LTE Band 41	20	QPSK	B	1820M	1:1.58	-0.19	2506.00	39750	0.0	24.0	23.56	1	0	Left Tilt	0	0.076	1.107	0.080	0.025		36.0	
Head	LTE Band 41	20	QPSK	B	1820M	1:1.58	-0.09	2506.00	39750	1.0	23.0	22.38	50	0	Left Tilt	0	0.031	1.153	0.036	0.021		35.4	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Head 1.6 W/kg (mW/g) averaged over 1 gram						

Table 12-30 | 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 41	20	QPSK	F	1820M	1:1.58	0.00	2506.00	39750	0.0	18.0	16.85	1	0	Right Cheek	0	0.456	1.303	0.594	0.371		18.2	16.5
Head	LTE Band 41	20	QPSK	F	1820M	1:1.58	-0.01	2506.00	39750	0.0	18.0	16.89	50	0	Right Cheek	0	0.485	1.291	0.626	0.391		18.0	
Head	LTE Band 41	20	QPSK	F	1820M	1:1.58	-0.03	2549.50	40185	0.0	18.0	16.62	50	0	Right Cheek	0	0.651	1.374	0.894	0.559	Plot	16.5	
Head	LTE Band 41	20	QPSK	F	1820M	1:1.58	0.02	2593.00	40620	0.0	18.0	16.68	50	0	Right Cheek	0	0.619	1.355	0.839	0.524		16.7	
Head	LTE Band 41	20	QPSK	F	1820M	1:1.58	-0.04	2624.50	42055	0.0	18.0	16.76	50	0	Right Cheek	0	0.561	1.321	0.804	0.461		17.3	
Head	LTE Band 41	20	QPSK	F	1820M	1:1.58	-0.03	2680.00	41490	0.0	18.0	16.76	50	0	Right Cheek	0	0.421	1.330	0.560	0.350		18.5	
Head	LTE Band 41	20	QPSK	F	1820M	1:1.58	-0.09	2506.00	39750	0.0	18.0	16.84	100	0	Right Cheek	0	0.521	1.306	0.680	0.425		17.6	
Head	LTE Band 41	20	QPSK	F	1820M	1:1.58	-0.05	2506.00	39750	0.0	18.0	16.85	5	0	Right Tilt	0	0.425	1.303	0.554	0.346		18.5	
Head	LTE Band 41	20	QPSK	F	1820M	1:1.58	-0.01	2506.00	39750	0.0	18.0	16.89	50	0	Right Tilt	0	0.454	1.291	0.586	0.366		18.3	
Head	LTE Band 41	20	QPSK	F	1820M	1:1.58	-0.02	2506.00	39750	0.0	18.0	16.85	1	0	Left Cheek	0	0.249	1.303	0.324	0.209		20.9	
Head	LTE Band 41	20	QPSK	F	1820M	1:1.58	-0.01	2506.00	39750	0.0	18.0	16.89	50	0	Left Cheek	0	0.262	1.291	0.338	0.211		20.7	
Head	LTE Band 41	20	QPSK	F	1820M	1:1.58	-0.13	2506.00	39750	0.0	18.0	16.85	1	0	Left Tilt	0	0.239	1.303	0.311	0.194		21.0	
Head	LTE Band 41	20	QPSK	F	1820M	1:1.58	-0.07	2506.00	39750	0.0	18.0	16.89	50	0	Left Tilt	0	0.240	1.291	0.310	0.194		21.1	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Head 1.6 W/kg (mW/g) averaged over 1 gram						

Table 12-31 | 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 41	20	QPSK	B	1820M	1:1.58	-0.03	2506.00	39750	0.0	19.0	18.91	1	0	Back	5	0.488	1.021	0.498	0.311	Plot	20.0	20.0
Body-worn/Hotspot	LTE Band 41	20	QPSK	B	1820M	1:1.58	-0.03	2506.00	39750	0.0	19.0	18.75	50	0	Back	5	0.468	1.059	0.496	0.310		20.0	
Body-worn/Hotspot	LTE Band 41	20	QPSK	B	1820M	1:1.58	0.01	2506.00	39750	0.0	19.0	18.91	1	0	Front	5	0.270	1.021	0.276	0.173		22.6	
Body-worn/Hotspot	LTE Band 41	20	QPSK	B	1820M	1:1.58	-0.04	2506.00	39750	0.0	19.0	18.75	50	0	Front	5	0.269	1.059	0.284	0.178		22.4	
Hotspot	LTE Band 41	20	QPSK	B	1820M	1:1.58	-0.02	2506.00	39750	0.0	19.0	18.91	1	0	Bottom	10	0.280	1.021	0.286	0.179		22.4	
Hotspot	LTE Band 41	20	QPSK	B	1820M	1:1.58	-0.04	2506.00	39750	0.0	19.0	18.75	50	0	Bottom	10	0.278	1.059	0.294	0.184		22.3	
Hotspot	LTE Band 41	20	QPSK	B	1820M	1:1.58	-0.05	2506.00	39750	0.0	19.0	18.91	1	0	Left	10	0.128	1.021	0.111	0.082		25.8	
Hotspot	LTE Band 41	20	QPSK	B	1820M	1:1.58	-0.01	2506.00	39750	0.0	19.0	18.75	50	0	Left	10	0.136	1.059	0.133	0.083		25.7	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Body 1.6 W/kg (mW/g) averaged over 1 gram						

Table 12-32

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Limit [dBm]	Overall Limit [dBm]
Body-worn/Hotspot	LTE Band 41	20	QPSK	F	1820M	1:1.58	0.00	2506.00	39750	0.0	18.0	16.85	1	0	Back	5	0.323	1.303	0.421	0.263		19.7	19.5
Body-worn/Hotspot	LTE Band 41	20	QPSK	F	1820M	1:1.58	0.01	2506.00	39750	0.0	18.0	16.89	50	0	Back	5	0.344	1.291	0.444	0.278		19.5	
Body-worn/Hotspot	LTE Band 41	20	QPSK	F	1820M	1:1.58	0.01	2506.00	39750	0.0	18.0	16.85	1	0	Front	5	0.189	1.303	0.246	0.154		22.1	
Body-worn/Hotspot	LTE Band 41	20	QPSK	F	1820M	1:1.58	-0.05	2506.00	39750	0.0	18.0	16.89	50	0	Front	5	0.204	1.291	0.263	0.164		21.8	
Hotspot	LTE Band 41	20	QPSK	F	1820M	1:1.58	0.01	2506.00	39750	0.0	18.0	16.85	1	0	Top	10	0.125	1.303	0.173	0.108		23.6	
Hotspot	LTE Band 41	20	QPSK	F	1820M	1:1.58	-0.04	2506.00	39750	0.0	18.0	16.89	50	0	Top	10	0.137	1.291	0.177	0.113		23.3	
Hotspot	LTE Band 41	20	QPSK	F	1820M	1:1.58	0.03	2506.00	39750	0.0	18.0	16.85	1	0	Left	10	0.021	1.303	0.027	0.017		31.6	
Hotspot	LTE Band 41	20	QPSK	F	1820M	1:1.58	0.05	2506.00	39750	0.0	18.0	16.89	50	0	Left	10	0.019	1.291	0.025	0.016		32.1	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Body 1.6 W/kg (mW/g) averaged over 1 gram						

12.9 NR Band n5 Standalone SAR

Table 12-33

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 n5	20	QPSK	A	1833M	1:1	-0.05	836.50	167300	DFT-s-OFDM	0.0	25.0	24.70	1	53	Right Cheek	0	0.185	1.072	0.198	0.124		32.0	31.8
Head	NR Band n5	20	QPSK	A	1833M	1:1	0.02	836.50	167300	DFT-s-OFDM	0.0	25.0	24.61	50	28	Right Cheek	0	0.188	1.094	0.206	0.129		31.8	
Head	NR Band n5	20	QPSK	A	1833M	1:1	0.04	836.50	167300	CP-OFDM	1.5	23.5	22.94	1	1	Right Cheek	0	0.094	1.138	0.107	0.067		33.2	
Head	NR Band n5	20	QPSK	A	1833M	1:1	-0.02	836.50	167300	DFT-s-OFDM	0.0	25.0	24.70	1	53	Right Tilt	0	0.082	1.072	0.088	0.055		35.5	
Head	NR Band n5	20	QPSK	A	1833M	1:1	0.03	836.50	167300	DFT-s-OFDM	0.0	25.0	24.61	50	28	Right Tilt	0	0.078	1.094	0.085	0.053		35.4	
Head	NR Band n5	20	QPSK	A	1833M	1:1	0.01	836.50	167300	DFT-s-OFDM	0.0	25.0	24.70	1	53	Left Cheek	0	0.129	1.072	0.138	0.086		33.5	
Head	NR Band n5	20	QPSK	A	1833M	1:1	0.05	836.50	167300	DFT-s-OFDM	0.0	25.0	24.61	50	28	Left Cheek	0	0.136	1.094	0.149	0.093		33.2	
Head	NR Band n5	20	QPSK	A	1833M	1:1	0.15	836.50	167300	DFT-s-OFDM	0.0	25.0	24.70	1	53	Left Tilt	0	0.083	1.072	0.089	0.056		35.5	
Head	NR Band n5	20	QPSK	A	1833M	1:1	0.10	836.50	167300	DFT-s-OFDM	0.0	25.0	24.61	50	28	Left Tilt	0	0.084	1.094	0.070	0.044		36.5	
ANSI/IEEE C95.1-1992 - SAFETY LIMIT																		Head						
Uncorrelated Exposure (General Population)																		1.6 W/kg (mm/g)						
Spatial Peak																		averaged 10 g						

Table 12-34 | Plot A19

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 n5	20	QPSK	E	1853M	1:1	0.00	836.50	16700	DFT-s-OFDM	0.0	20.0	19.03	1	1	Right Cheek	0	0.415	1.250	0.519	0.334		22.8	
Head	NR Band n5	20	QPSK	E	1853M	1:1	-0.03	836.50	16700	DFT-s-OFDM	0.0	20.0	18.98	50	0	Right Cheek	0	0.397	1.265	0.502	0.314		22.9	
Head	NR Band n5	20	QPSK	E	1853M	1:1	0.03	836.50	16700	DFT-s-OFDM	0.0	20.0	19.03	1	1	Right Tilt	0	0.329	1.250	0.411	0.257		23.8	
Head	NR Band n5	20	QPSK	E	1853M	1:1	0.00	836.50	16700	DFT-s-OFDM	0.0	20.0	18.98	50	0	Right Tilt	0	0.354	1.265	0.488	0.280		23.4	
Head	NR Band n5	20	QPSK	E	1853M	1:1	0.03	836.50	16700	DFT-s-OFDM	0.0	20.0	19.03	1	1	Left Cheek	0	0.498	1.250	0.623	0.389		22.0	
Head	NR Band n5	20	QPSK	E	1853M	1:1	0.03	836.50	16700	DFT-s-OFDM	0.0	20.0	18.98	50	0	Left Cheek	0	0.495	1.265	0.626	0.391		22.0	
Head	NR Band n5	20	QPSK	E	1853M	1:1	0.00	836.50	16700	CP-OFDM	0.0	20.0	19.03	1	1	Left Cheek	0	0.538	1.242	0.668	0.418		21.7	
Head	NR Band n5	20	QPSK	E	1853M	1:1	0.03	836.50	16700	DFT-s-OFDM	0.0	20.0	19.03	1	1	Left Tilt	0	0.415	1.250	0.519	0.334		22.8	
Head	NR Band n5	20	QPSK	E	1853M	1:1	0.04	836.50	16700	DFT-s-OFDM	0.0	20.0	18.98	50	0	Left Tilt	0	0.423	1.265	0.535	0.334		22.7	
ANSI/IEEE CS1.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		Head 1.6 W/kg (mW/g) averaged over 1 gram						

Table 12-35 | Plot A20

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 n5	20	QPSK	A	1853M	1:1	0.00	836.50	16700	DFT-s-OFDM	0.0	23.0	21.63	1	104	Back	5	0.641	1.371	0.879	0.549	Plot	23.5	
Body worn/Hotspot	NR Band n5	20	QPSK	A	1853M	1:1	-0.03	836.50	16700	DFT-s-OFDM	0.0	23.0	21.63	50	56	Back	5	0.637	1.377	0.877	0.548		23.5	
Body worn/Hotspot	NR Band n5	20	QPSK	A	1853M	1:1	-0.03	836.50	16700	DFT-s-OFDM	0.0	23.0	21.60	100	0	Back	5	0.546	1.380	0.763	0.471		24.2	
Body worn/Hotspot	NR Band n5	20	QPSK	A	1853M	1:1	0.00	836.50	16700	CP-OFDM	0.0	23.0	21.62	1	1	Back	5	0.498	1.374	0.684	0.428		24.6	
Body worn/Hotspot	NR Band n5	20	QPSK	A	1853M	1:1	-0.03	836.50	16700	DFT-s-OFDM	0.0	23.0	21.63	1	104	Front	5	0.796	1.371	0.943	0.599		25.4	
Body worn/Hotspot	NR Band n5	20	QPSK	A	1853M	1:1	0.03	836.50	16700	DFT-s-OFDM	0.0	23.0	21.61	50	56	Front	5	0.841	1.377	0.470	0.294		26.2	
Hotspot	NR Band n5	20	QPSK	A	1853M	1:1	-0.04	836.50	16700	DFT-s-OFDM	0.0	23.0	21.63	1	104	Bottom	10	0.090	1.371	0.123	0.077		32.0	
Hotspot	NR Band n5	20	QPSK	A	1853M	1:1	0.00	836.50	16700	CP-OFDM	0.0	23.0	21.63	50	56	Bottom	10	0.081	1.377	0.112	0.070		32.5	
Hotspot	NR Band n5	20	QPSK	A	1853M	1:1	0.00	836.50	16700	DFT-s-OFDM	0.0	23.0	21.63	1	104	Right	10	0.151	1.371	0.207	0.129		29.8	
Hotspot	NR Band n5	20	QPSK	A	1853M	1:1	0.06	836.50	16700	DFT-s-OFDM	0.0	23.0	21.61	50	56	Right	10	0.149	1.377	0.205	0.128		29.8	
Hotspot	NR Band n5	20	QPSK	A	1853M	1:1	-0.03	836.50	16700	DFT-s-OFDM	0.0	23.0	21.63	1	104	Left	10	0.083	1.371	0.114	0.071		32.4	
Hotspot	NR Band n5	20	QPSK	A	1853M	1:1	-0.03	836.50	16700	DFT-s-OFDM	0.0	23.0	21.61	50	56	Left	10	0.086	1.377	0.091	0.057		33.4	
ANSI/IEEE CS1.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		Body 1.6 W/kg (mW/g) averaged over 1 gram						

Table 12-36

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	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 n5	20	QPSK	E	1853M	1:1	0.03	836.50	16700	DFT-s-OFDM	0.0	20.0	19.03	1	1	Back	5	0.427	1.250	0.534	0.334		22.7	
Body worn/Hotspot	NR Band n5	20	QPSK	E	1853M	1:1	0.00	836.50	16700	DFT-s-OFDM	0.0	20.0	18.98	50	0	Back	5	0.436	1.265	0.552	0.345		22.5	
Body worn/Hotspot	NR Band n5	20	QPSK	E	1853M	1:1	-0.03	836.50	16700	CP-OFDM	0.0	20.0	19.03	1	1	Back	5	0.395	1.242	0.465	0.307		25.0	
Body worn/Hotspot	NR Band n5	20	QPSK	E	1853M	1:1	0.00	836.50	16700	DFT-s-OFDM	0.0	20.0	19.03	1	1	Front	5	0.310	1.250	0.388	0.243		24.1	
Body worn/Hotspot	NR Band n5	20	QPSK	E	1853M	1:1	0.00	836.50	16700	DFT-s-OFDM	0.0	20.0	18.98	50	0	Front	5	0.313	1.265	0.396	0.248		24.0	
Hotspot	NR Band n5	20	QPSK	E	1853M	1:1	0.00	836.50	16700	DFT-s-OFDM	0.0	20.0	19.03	1	1	Top	10	0.128	1.250	0.160	0.100		27.5	
Hotspot	NR Band n5	20	QPSK	E	1853M	1:1	-0.03	836.50	16700	DFT-s-OFDM	0.0	20.0	18.98	50	0	Top	10	0.128	1.265	0.162	0.101		27.0	
Hotspot	NR Band n5	20	QPSK	E	1853M	1:1	0.03	836.50	16700	DFT-s-OFDM	0.0	20.0	19.03	1	1	Right	10	0.104	1.250	0.130	0.081		28.8	
Hotspot	NR Band n5	20	QPSK	E	1853M	1:1	-0.03	836.50	16700	DFT-s-OFDM	0.0	20.0	18.98	50	0	Right	10	0.108	1.265	0.137	0.086		28.6	
ANSI/IEEE CS1.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		Body 1.6 W/kg (mW/g) averaged over 1 gram						

12.10 NR Band n41 Standalone SAR

Table 12-37 | Plot A21

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 n41	100	QPSK	B	1826M	1:1	-0.12	2592.99	518598	DFT-s-OFDM	0.0	26.5	25.32	1	127	Right Cheek	0	0.073	1.309	0.096	0.060		36.6	
Head	NR Band n41	100	QPSK	B	1826M	1:1	-0.05	2592.99	518598	DFT-s-OFDM	0.0	26.5	25.28	135	69	Right Cheek	0	0.074	1.324	0.098	0.061		36.5	
Head	NR Band n41	100	QPSK	B	1826M	1:1	0.02	2592.99	518598	DFT-s-OFDM	0.0	26.5	25.33	1	137	Right Tilt	0	0.049	1.309	0.064	0.040		38.4	
Head	NR Band n41	100	QPSK	B	1826M	1:1	0.04	2592.99	518598	CP-OFDM	0.0	26.5	25.33	135	69	Right Tilt	0	0.058	1.324	0.076	0.050		37.5	
Head	NR Band n41	100	QPSK	B	1826M	1:1	-0.03	2592.99	518598	DFT-s-OFDM	0.0	26.5	25.33	1	137	Left Cheek	0	0.127	1.309	0.186	0.104		34.2	
Head	NR Band n41	100	QPSK	B	1826M	1:1	0.16	2592.99	518598	DFT-s-OFDM	0.0	26.5	25.28	135	69	Left Cheek	0	0.147	1.324	0.195	0.112	Plot	33.6	
Head	NR Band n41	100	QPSK	B	1826M	1:1	0.03	2592.99	518598	CP-OFDM	1.5	25.0	24.38	1	1	Left Cheek	0	0.148	1.153	0.165	0.101		32.8	
Head	NR Band n41	100	QPSK	B	1826M	1:1	0.06	2592.99	518598	DFT-s-OFDM	0.0	26.5	25.33	1	137	Left Tilt	0	0.091	1.309	0.119	0.074		35.7	
Head	NR Band n41	100	QPSK	B	1826M	1:1	-0.07	2592.99	518598	DFT-s-OFDM	0.0	26.5	25.28	135	69	Left Tilt	0	0.082	1.324	0.109	0.068		36.1	
ANSI/IEEE CS1.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		Head 1.6 W/kg (mW/g) averaged over 1 gram						

Table 12-38 | Plot A22

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 n41	100	QPSK	B	1826M	1:1	-0.02	2592.99	518598	DFT-s-OFDM	0.0	18.5	17.40	1	1	Back	5	0.631	1.288	0.813	0.508		19.3				
Body worn/Hotspot	NR Band n41	100	QPSK	B	1826M	1:1	0.00	2592.99	518598	DFT-s-OFDM	0.0	18.5	17.53	135	0	Back	5	0.651	1.250	0.814	0.509	Plot	19.3				
Body worn/Hotspot	NR Band n41	100	QPSK	B	1826M	1:1	-0.05	2592.99	518598	DFT-s-OFDM	0.0	18.5	17.35	225	0	Back	5	0.645	1.361	0.875	0.547		19.0				
Body worn/Hotspot	NR Band n41	100	QPSK	B	1826M	1:1	0.03	2592.99	518598	CP-OFDM	0.0	18.5	17.34	1	1	Back	5	0.620	1.306	0.810	0.506		19.8				
Body worn/Hotspot	NR Band n41	100	QPSK	B	1826M	1:1	0.00	2592.99	518598	DFT-s-OFDM	0.0	18.5	17.40	1	1	Front	5	0.426	1.288	0.549	0.343		21.1				
Body worn/Hotspot	NR Band n41	100	QPSK	B	1826M	1:1	-0.03	2592.99	518598	DFT-s-OFDM	0.0	18.5	17.53	135	0	Front	5	0.466	1.250	0.583	0.364		20.4				
Hotspot	NR Band n41	100	QPSK	B	1826M	1:1	0.01	2592.99	518598	DFT-s-OFDM	0.0	18.5	17.40	1	1	Bottom	10	0.408	1.288	0.526	0.329	21.2					
Hotspot	NR Band n41	100	QPSK	B	1826M	1:1	0.02	2592.99	518598	DFT-s-OFDM	0.0	18.5	17.53	135	0	Bottom	10	0.417	1.250	0.521	0.326	21.3					
Hotspot	NR Band n41	100	QPSK	B	1826M	1:1	0.00	2592.99	518598	DFT-s-OFDM	0.0	18.5	17.53	135	1	Left	10	0.388	1.160	0.288	0.205	21.4					
Hotspot	NR Band n41	100	QPSK	B	1826M	1:1	-0.06	2592.99	518598	DFT-s-OFDM	0.0	18.5	17.53	135	1	Left	10	0.485	1.250	0.229	0.143	24.9					
UNL/IEEE C95.1 1992 - SAFETY LIMIT																											
Spatial Peak																		Body									
Anno/Elec C95.1 Exposure/General Population																		1.5 W/kg (lmv/g)									
																		averaged over 1 gram									

12.11 5 GHz WIFI SISO Standalone SAR

Table 12-40 | Plot A24

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 WFI/ IEEE 802.11n	40	OFDM	G	1780M	95.83	0.08	5270.00	54	U-NI-2A	13.5	14.0	13.22	Right Cheek	0	0.162	1.197	1.044	0.202	0.126		20.9	
Head	5 GHz WFI/ IEEE 802.11n	40	OFDM	G	1780M	95.83	0.16	5590.00	118	U-NI-2C	13.5	14.0	13.96	Right Cheek	0	0.555	1.009	1.044	0.542	0.339		16.6	
Head	5 GHz WFI/ IEEE 802.11n	40	OFDM	G	1780M	95.83	0.20	5795.00	159	U-NI-3	13.5	14.0	13.98	Right Cheek	0	0.753	1.005	1.044	0.769	0.481		15.1	
Head	5 GHz WFI/ IEEE 802.11n	40	OFDM	G	1780M	95.83	0.09	5835.00	167	U-NI-4	13.5	14.0	13.99	Right Cheek	0	0.731	1.002	1.044	0.766	0.491	Plot	15.0	
Head	5 GHz WFI/ IEEE 802.11n	40	OFDM	G	1780M	95.83	0.18	5270.00	54	U-NI-2A	13.5	14.0	13.22	Right Tibi	0	0.163	1.197	1.044	0.204	0.128		20.9	
Head	5 GHz WFI/ IEEE 802.11n	40	OFDM	G	1780M	95.83	-0.08	5590.00	118	U-NI-2C	13.5	14.0	13.96	Right Tibi	0	0.239	1.009	1.044	0.252	0.158		19.9	
Head	5 GHz WFI/ IEEE 802.11n	40	OFDM	G	1780M	95.83	-0.05	5795.00	159	U-NI-3	13.5	14.0	13.98	Right Tibi	0	0.150	1.005	1.044	0.157	0.098		22.0	
Head	5 GHz WFI/ IEEE 802.11n	40	OFDM	G	1780M	95.83	0.02	5835.00	167	U-NI-4	13.5	14.0	13.99	Right Tibi	0	0.148	1.002	1.044	0.151	0.097		22.1	
Head	5 GHz WFI/ IEEE 802.11n	40	OFDM	G	1780M	95.83	0.08	5270.00	54	U-NI-2A	13.5	14.0	13.22	Left Cheek	0	0.053	1.197	1.044	0.066	0.041		25.7	
Head	5 GHz WFI/ IEEE 802.11n	40	OFDM	G	1780M	95.83	0.02	5590.00	118	U-NI-2C	13.5	14.0	13.96	Left Cheek	0	0.109	1.009	1.044	0.115	0.072		23.4	
Head	5 GHz WFI/ IEEE 802.11n	40	OFDM	G	1780M	95.83	0.05	5295.00	159	U-NI-3	13.5	14.0	13.98	Left Cheek	0	0.096	1.005	1.044	0.103	0.063		23.9	
Head	5 GHz WFI/ IEEE 802.11n	40	OFDM	G	1780M	95.83	-0.03	5835.00	167	U-NI-4	13.5	14.0	13.99	Left Cheek	0	0.104	1.002	1.044	0.109	0.068		23.6	
Head	5 GHz WFI/ IEEE 802.11n	40	OFDM	G	1780M	95.83	-0.20	5270.00	54	U-NI-2A	13.5	14.0	13.22	Left Tibi	0	0.044	1.197	1.044	0.055	0.034		26.6	
Head	5 GHz WFI/ IEEE 802.11n	40	OFDM	G	1780M	95.83	0.14	5590.00	118	U-NI-2C	13.5	14.0	13.96	Left Tibi	0	0.106	1.009	1.044	0.112	0.070		23.2	
Head	5 GHz WFI/ IEEE 802.11n	40	OFDM	G	1780M	95.83	0.02	5795.00	159	U-NI-3	13.5	14.0	13.98	Left Tibi	0	0.056	1.005	1.044	0.069	0.043		25.5	
Head	5 GHz WFI/ IEEE 802.11n	40	OFDM	G	1780M	95.83	0.07	5835.00	167	U-NI-4	13.5	14.0	13.99	Left Tibi	0	0.063	1.002	1.044	0.066	0.041		25.8	
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 12-41 | Plot A25, A26

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 WFI/ IEEE 802.11a	20	OFDM	G	1780M	95.98	-0.17	5280.00	56	U-NI-2A	6.0	17.0	16.61	Back	5	0.179	1.094	1.042	0.204	0.128		23.9	
Body-worn	5 GHz WFI/ IEEE 802.11a	20	OFDM	G	1912M	95.98	0.18	5500.00	100	U-NI-2C	6.0	17.0	16.60	Back	5	0.733	1.096	1.042	0.837	0.523		17.7	
Body-worn	5 GHz WFI/ IEEE 802.11a	20	OFDM	G	1780M	95.98	0.30	5600.00	120	U-NI-2C	6.0	17.0	16.96	Back	5	0.952	1.009	1.000	1.000	0.625		17.0	
Body-worn	5 GHz WFI/ IEEE 802.11a	20	OFDM	G	1780M	95.98	0.00	5600.00	120	U-NI-2C	6.0	17.0	16.96	Back	5	0.951	1.009	1.042	0.981	0.611		17.0	
Body-worn	5 GHz WFI/ IEEE 802.11a	20	OFDM	G	1912M	95.98	0.11	5620.00	124	U-NI-2C	6.0	17.0	16.68	Back	5	0.894	1.076	1.042	1.002	0.626		16.9	
Body-worn	5 GHz WFI/ IEEE 802.11a	20	OFDM	G	1912M	95.98	-0.10	5720.00	144	U-NI-2C	6.0	17.0	16.72	Back	5	0.830	1.067	1.042	0.912	0.570		17.4	
Body-worn	5 GHz WFI/ IEEE 802.11a	20	OFDM	G	1912M	95.98	0.00	5720.00	144	U-NI-2C	6.0	17.0	16.72	Back	5	0.952	1.007	1.042	0.951	0.565		17.4	
Body-worn	5 GHz WFI/ IEEE 802.11a	20	OFDM	G	1780M	95.98	-0.07	5845.00	169	U-NI-4	6.0	17.0	16.32	Back	5	0.435	1.169	1.042	0.506	0.316		19.9	
Body-worn	5 GHz WFI/ IEEE 802.11a	20	OFDM	G	1780M	95.98	0.06	5280.00	56	U-NI-2A	6.0	17.0	16.63	Front	5	0.130	1.094	1.042	0.125	0.078		26.0	
Body-worn	5 GHz WFI/ IEEE 802.11a	20	OFDM	G	1780M	95.98	0.01	5600.00	120	U-NI-2C	6.0	17.0	16.96	Front	5	0.426	1.009	1.042	0.446	0.278		20.5	
Body-worn	5 GHz WFI/ IEEE 802.11a	20	OFDM	G	1780M	95.98	-0.09	5845.00	169	U-NI-4	6.0	17.0	16.32	Front	5	0.485	1.169	1.042	0.566	0.354		19.4	
Body-worn/Hotspot	5 GHz WFI/ IEEE 802.11a	20	OFDM	G	1780M	95.98	0.03	5785.00	157	U-NI-3	6.0	17.0	16.83	Back	5	0.623	1.045	1.042	0.678	0.424		18.6	
Body-worn/Hotspot	5 GHz WFI/ IEEE 802.11a	20	OFDM	G	1780M	95.98	0.01	5785.00	157	U-NI-3	6.0	17.0	16.83	Front	5	0.465	1.045	1.042	0.506	0.316		19.9	
Hotspot	5 GHz WFI/ IEEE 802.11a	20	OFDM	G	1780M	95.98	0.02	5785.00	157	U-NI-3	6.0	17.0	16.83	Top	10	0.063	1.045	1.042	0.069	0.043		28.6	
Hotspot	5 GHz WFI/ IEEE 802.11a	20	OFDM	G	1780M	95.98	0.04	5785.00	157	U-NI-3	6.0	17.0	16.83	Left	10	0.267	1.045	1.042	0.291	0.182		22.3	
ANSI/IEEE C95.1.1992 - SAFETY LIMIT																Body 1.6 W/kg (mW/g) averaged over 1 gram							
Spatial Peak Uncontrolled Exposure/General Population																							

Table 12-42 | Plot A27

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 WFI/ IEEE 802.11a	20	OFDM	G	1780M	95.98	0.20	5280.00	56	U-NI-2A	6.0	17.0	16.61	Back	0	0.421	1.094	1.042	0.480	0.120		24.1	
Phablet	5 GHz WFI/ IEEE 802.11a	20	OFDM	G	1780M	95.98	-0.01	5600.00	120	U-NI-2C	6.0	17.0	16.96	Back	0	1.500	1.009	1.042	1.577	0.394		19.0	
Phablet	5 GHz WFI/ IEEE 802.11a	20	OFDM	G	1780M	95.98	-0.09	5845.00	169	U-NI-4	6.0	17.0	16.32	Back	0	0.960	1.169	1.042	1.291	0.243		19.8	
Phablet	5 GHz WFI/ IEEE 802.11a	20	OFDM	G	1780M	95.98	0.10	5280.00	56	U-NI-2A	6.0	17.0	16.61	Front	0	0.155	1.094	1.042	0.167	0.147		27.7	
Phablet	5 GHz WFI/ IEEE 802.11a	20	OFDM	G	1780M	95.98	0.17	5600.00	120	U-NI-2C	6.0	17.0	16.96	Front	0	0.962	1.009	1.042	1.020	0.253		20.9	
Phablet	5 GHz WFI/ IEEE 802.11a	20	OFDM	G	1780M	95.98	-0.09	5845.00	169	U-NI-4	6.0	17.0	16.32	Front	0	0.929	1.169	1.042	1.112	0.283		20.4	
Phablet	5 GHz WFI/ IEEE 802.11a	20	OFDM	G	1780M	95.98	-0.04	5280.00	56	U-NI-2A	6.0	17.0	16.61	Top	0	0.186	1.094	1.042	0.190	0.059		27.7	
Phablet	5 GHz WFI/ IEEE 802.11a	20	OFDM	G	1780M	95.98	0.08	5600.00	120	U-NI-2C	6.0	17.0	16.96	Top	0	0.469	1.009	1.042	0.493	0.123		24.0	
Phablet	5 GHz WFI/ IEEE 802.11a	20	OFDM	G	1780M	95.98	-0.08	5845.00	169	U-NI-4	6.0	17.0	16.32	Top	0	0.519	1.169	1.042	0.594	0.049		28.1	
Phablet	5 GHz WFI/ IEEE 802.11a	20	OFDM	G	1780M	95.98	-0.05	5280.00	56	U-NI-2A	6.0	17.0	16.61	Left	0	0.182	1.094	1.042	0.171	0.080		25.9	
Phablet	5 GHz WFI/ IEEE 802.11a	20	OFDM	G	1780M	95.98	-0.09	5600.00	120	U-NI-2C	6.0	17.0	16.96	Left	0	1.260	1.009	1.042	1.325	0.331		19.7	
Phablet	5 GHz WFI/ IEEE 802.11a	20	OFDM	G	1780M	95.98	0.11	5845.00	169	U-NI-4	6.0	17.0	16.32	Left	0	0.732	1.169	1.042	0.867	0.217		21.5	
ANSI/IEEE C95.1.1992 - SAFETY LIMIT																Phablet 4.0 W/kg (mW/g) averaged over 10 grams							
Spatial Peak Uncontrolled Exposure/General Population																							

12.12 5 GHz WIFI MIMO Standalone SAR

Table 12-43

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power [dBm]	Frequency [MHz]	Channel #	U-NI band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Max Allowed Power (2nd ant) [dBm]	Conducted Power (2nd ant) [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	MIMO Ant # G Pencil [mm]	MIMO Ant # R Pencil [mm]	Overall Ant # Pencil [mm]	Overall Ant # Pencil [mm]
Body-worn	5 GHz WFI/IEEE 802.11a	20	OFDM	MIMO	1205M	96.28	0.14	5260.00	52	U-NI-2A	6.0	15.0	13.04	17.0	16.12	Back	5	0.349	1.570	1.039	0.555	0.347		17.5	20.6		
Body-worn/Hotspot	5 GHz WFI/IEEE 802.11a	20	OFDM	MIMO	1205M	96.28	0.14	5260.00	54	U-NI-2A	6.0	15.0	13.04	17.0	16.12	Back	5	0.350	1.574	1.039	0.556	0.348		14.2	20.6		
Body-worn	5 GHz WFI/IEEE 802.11a	20	OFDM	MIMO	1205M	96.28	0.02	5620.00	124	U-NI-2C	6.0	15.0	15.26	17.0	16.14	Back	5	0.652	1.496	1.039	0.818	0.536		15.6	20.3		
Body-worn/Hotspot	5 GHz WFI/IEEE 802.11a	20	OFDM	MIMO	1205M	96.28	0.02	5720.00	144	U-NI-2C	6.0	15.0	15.27	17.0	16.17	Back	5	0.653	1.563	1.039	0.820	0.563		15.6	20.3		
Body-worn	5 GHz WFI/IEEE 802.11a	20	OFDM	MIMO	1205M	96.28	0.07	5845.00	169	U-NI-4A	6.0	15.0	13.12	17.0	16.14	Back	5	0.388	1.492	1.039	0.616	0.376		17.0	20.3		
Body-worn/Hotspot	5 GHz WFI/IEEE 802.11a	20	OFDM	MIMO	1205M	96.28	0.07	5945.00	170	U-NI-4A	6.0	15.0	13.12	17.0	16.15	Back	5	0.389	1.570	1.039	0.618	0.378		17.0	20.3		
Body-worn	5 GHz WFI/IEEE 802.11a	20	OFDM	MIMO	1205M	96.28	0.10	5600.00	120	U-NI-2C	6.0	15.0	13.20	17.0	16.16	Front	5	0.404	1.544	1.039	0.793	0.496		16.0	19.4		
Body-worn/Hotspot	5 GHz WFI/IEEE 802.11a	20	OFDM	MIMO	1205M	96.28	0.10	5655.00	165	U-NI-4A	6.0	15.0	13.11	17.0	16.16	Front	5	0.386	1.542	1.039	0.786	0.496		17.3	20.9		
Body-worn/Hotspot	5 GHz WFI/IEEE 802.11a	20	OFDM	MIMO	1205M	96.28	0.10	5655.00	165	U-NI-4A	6.0	15.0	13.11	17.0	16.16	Front	5	0.386	1.550	1.039	0.790	0.497		17.3	20.9		
Body-worn/Hotspot	5 GHz WFI/IEEE 802.11a	20	OFDM	MIMO	1205M	96.28	0.09	5825.00	165	U-NI-3C	6.0	15.0	13.21	17.0	16.18	Front	5	0.597	1.510	1.039	0.795	0.497		15.3	19.4		
Hotspot	5 GHz WFI/IEEE 802.11a	20	OFDM	MIMO	1205M	96.28	0.09	5825.00	165	U-NI-3C	6.0	15.0	13.21	17.0	16.18	Front	5	0.597	1.510	1.039	0.795	0.497		15.3	19.4		
Hotspot	5 GHz WFI/IEEE 802.11a	20	OFDM	MIMO	1205M	96.28	0.08	5870.00	165	U-NI-3C	6.0	15.0	13.21	17.0	16.18	Right	10	0.083	1.510	1.039	0.099	0.062		25.0	28.5		
Hotspot	5 GHz WFI/IEEE 802.11a	20	OFDM	MIMO	1205M	96.28	0.09	5870.00	165	U-NI-3C	6.0	15.0	13.21	17.0	16.18	Left	10	0.187	1.510	1.039	0.215	0.136		31.8	35.1		
Annotated Exposure/Element Population																											
Assumed CW 1.592 - SAFETY LIMIT																											
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Table 12-44

Note: To achieve the 19.0 dBm maximum allowed MIMO power shown in the documentation, Antenna E transmits at a maximum allowed power of 15.0 dBm and Antenna G transmits at a maximum power of 17.0 dBm.
Note: Reported 1g SAR [W/kg] is calculated from the highest power scaling factor between Antenna E and Antenna G.

12.13 6 GHz WIFI SISO Standalone SAR

Table 12-45

Head	0.012 WIP/ IEEE 802.11a	80	OFDM	0	1780W	95.18	0.03	0703.00	131
ANSI/IEEE C95.1 1992 - SAFETY LIMIT									
Spatial Peak									

Table 12-46 | Plot A29

Uncontrolled Exposure/General Population

12.14 6 GHz WIFI MIMO Standalone SAR

Table 12-47 | Plot A28

Note: To achieve the 12.0 dBm maximum allowed MIMO power shown in the documentation, Antenna E transmits at a maximum allowed power of 7.0 dBm and Antenna G transmits at a maximum power of 10 dBm.
Note: Reported 1g SAR [W/kg] is calculated from the highest power scaling factor between Antenna E and Antenna G.

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Table 12-48

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]	Max Allowed Power (2nd unit) [dBm]	Conducted Power (2nd unit) [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 #	MIMO Ant E Plimit [dBm]	MIMO Ant G Plimit [dBm]	Overall Ant E Plimit [dBm]	Overall Ant G Plimit [dBm]
Body-worn/Hotspot	6 GHz WIF/ IEEE 802.11ax	80	OFDM	MIMO	1912M	89.68	-0.03	5985.00	7	U-NII-5	68.1	7.0	-5.66	10.0	-9.38	Back	5	0.024	1.361	1.115	0.036	0.023	21.3	25.1			
Body-worn/Hotspot	6 GHz WIF/ IEEE 802.11ax	80	OFDM	MIMO	1912M	89.68	0.06	5985.00	7	U-NII-5	68.1	7.0	-5.66	10.0	-9.38	Front	5	0.041	1.361	1.115	0.062	0.039	19.0	22.7			
Body-worn/Hotspot	6 GHz WIF/ IEEE 802.11ax	80	OFDM	MIMO	1912M	89.68	-0.03	5985.00	7	U-NII-5	68.1	7.0	-5.66	10.0	-9.38	Top	10	0.004	1.361	1.115	0.002	0.001	35.1	38.9			
Body-worn/Hotspot	6 GHz WIF/ IEEE 802.11ax	80	OFDM	MIMO	1912M	89.68	-0.03	5985.00	7	U-NII-5	68.1	7.0	-5.66	10.0	-9.38	Right	10	0.009	1.361	1.115	0.004	0.003	45.1	48.9			
Body-worn/Hotspot	6 GHz WIF/ IEEE 802.11ax	80	OFDM	MIMO	1912M	89.68	-0.06	5985.00	7	U-NII-5	68.1	7.0	-5.66	10.0	-9.38	Left	10	0.005	1.361	1.115	0.008	0.005	28.1	31.9			
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																											
Spatial Peak															Body												
Uncontrolled Exposure/General Population															1.6 W/kg (mW/g)										averaged over 1 gram		

Note: To achieve the 12.0 dBm maximum allowed MIMO power shown in the documentation, Antenna E transmits at a maximum allowed power of 7.0 dBm and Antenna G transmits at a maximum power of 10.0 dBm.

Note: Reported 1g SAR [W/kg] is calculated from the highest power scaling factor between Antenna E and Antenna G.

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]	Max Allowed Power (2nd unit) [dBm]	Conducted Power (2nd unit) [dBm]	Test Position	Spacing [mm]	Measured ACP [W/m ² (4cm ²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported ACP [W/m ² (4cm ²)]	AFD Exposure Ratio	Plot #	MIMO Ant E Plimit [dBm]	MIMO Ant G Plimit [dBm]	Overall Ant E Plimit [dBm]	Overall Ant G Plimit [dBm]
Body-worn/Hotspot	6 GHz WIF/IEEE 802.11ax	80	OFDM	MIMO	1912M	89.68	-0.03	5985.00	7	U-NII-5	68.1	7.0	-5.66	10.0	-9.38	Back	5	0.0017	1.361	1.115	0.006	0.004	28.1	32.1			
Body-worn/Hotspot	6 GHz WIF/IEEE 802.11ax	80	OFDM	MIMO	1912M	89.68	0.06	5985.00	7	U-NII-5	68.1	7.0	-5.66	10.0	-9.38	Front	5	0.004	1.361	1.115	0.004	0.001	23.1	26.8			
Body-worn/Hotspot	6 GHz WIF/IEEE 802.11ax	80	OFDM	MIMO	1912M	89.68	-0.03	5985.00	7	U-NII-5	68.1	7.0	-5.66	10.0	-9.38	Top	10	0.000	1.361	1.115	0.000	0.000	56.1	59.8			
Body-worn/Hotspot	6 GHz WIF/IEEE 802.11ax	80	OFDM	MIMO	1912M	89.68	-0.03	5985.00	7	U-NII-5	68.1	7.0	-5.66	10.0	-9.38	Right	10	0.000	1.361	1.115	0.000	0.000	56.1	59.8			
Body-worn/Hotspot	6 GHz WIF/IEEE 802.11ax	80	OFDM	MIMO	1912M	89.68	-0.06	5985.00	7	U-NII-5	68.1	7.0	-5.66	10.0	-9.38	Left	10	0.000	1.361	1.115	0.000	0.000	56.1	59.8			
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																											
Spatial Peak															Body												
Uncontrolled Exposure/General Population															1.6 W/kg (mW/g)												
averaged over 1 gram																											

Note: Reported ACP [W/m² (4cm²)] is calculated from the highest power scaling factor between Antenna 2 and Antenna G.

Note: To achieve the 12.0 dBm maximum allowed MIMO power shown in the documentation, Antenna E transmits at a maximum allowed power of 7.0 dBm and Antenna G transmits at a maximum power of 10.0 dBm.

Note: Reported MPO [W/m² (4cm²)] is calculated from the highest power scaling factor between Antenna E and Antenna G.

12.15 2.4 GHz Bluetooth SISO Standalone SAR

Table 12-49 | Plot A30

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 #	Plimit [dBm]	Overall Plimit [dBm]	
Head	2.4 GHz Bluetooth	FHSS	H	1912M	76.65	-0.06	2441.00	39	1	18.5	16.82	Right Cheek	0	0.372	1.472	1.018	0.557	0.348	Plot	19.9	19.9	
Head	2.4 GHz Bluetooth	FHSS	H	1912M	76.65	-0.06	2441.00	39	1	18.5	16.82	Right Tilt	0	0.280	1.472	1.018	0.420	0.263		21.1		
Head	2.4 GHz Bluetooth	FHSS	H	1912M	76.65	0.03	2441.00	39	1	18.5	16.82	Left Cheek	0	0.095	1.472	1.018	0.142	0.089		25.8		
Head	2.4 GHz Bluetooth	FHSS	H	1912M	76.65	-0.13	2441.00	39	1	18.5	16.82	Left Tilt	0	0.079	1.472	1.018	0.118	0.074		26.6		
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 12-50 | Plot A31

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 #	Plimit [dBm]	Overall Plimit [dBm]
Body-worn/Hotspot	2.4 GHz Bluetooth	FHSS	H	1912M	76.65	0.02	2441.00	39	1	18.5	16.82	Back	5	0.229	1.472	1.018	0.343	0.214	Plot	22.0	22.0
Body-worn/Hotspot	2.4 GHz Bluetooth	FHSS	H	1912M	76.65	-0.02	2441.00	39	1	18.5	16.82	Front	5	0.204	1.472	1.018	0.306	0.191		22.5	
Hotspot	2.4 GHz Bluetooth	FHSS	H	1912M	76.65	0.04	2441.00	39	1	18.5	16.82	Top	10	0.094	1.472	1.018	0.081	0.051		28.3	
Hotspot	2.4 GHz Bluetooth	FHSS	H	1912M	76.65	-0.04	2441.00	39	1	18.5	16.82	Left	10	0.165	1.472	1.018	0.247	0.154		23.4	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT															Body						
Spatial Peak															1.6 W/kg (mW/g)						
Uncontrolled Exposure/General Population															averaged over 1 gram						

12.16 NFC Standalone SAR

Table 12-51 | Plot A32

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	0105M	0.05	13.60	Back	0	0.018	0.005	Plot
Phablet	NFC	B	NFC	0105M	0.01	13.60	Front	0	0.000	0.000	
Phablet	NFC	B	NFC	0105M	0.05	13.60	Top	0	0.000	0.000	
Phablet	NFC	B	NFC	0105M	0.01	13.60	Bottom	0	0.000	0.000	
Phablet	NFC	B	NFC	0105M	0.07	13.60	Right	0	0.000	0.000	
Phablet	NFC	B	NFC	0105M	0.08	13.60	Left	0	0.000	0.000	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT									Phablet		
Spatial Peak									4.0 W/kg (mW/g)		
Uncontrolled Exposure/General Population									averaged over 10 grams		

FCC ID: A3LSMA576JPN	RF EXPOSURE PART 1 TEST REPORT		Approved by: Technical Manager
Document S/N: 1M2512010100-01.A3L (Rev1)	DUT Type: Portable Handset		Page 77 of 90

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13 SAR DATA REFERENCING

13.1 2.4 GHz WIFI SISO Standalone SAR

Table 13-1 | Plot A33

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)	Reported 1g SAR for Reference Model [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Head	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	H	1756M	98.77	-0.07	2412.00	1	1.0	15.0	14.31	Right Cheek	0	0.393	1.172	1.012	0.395	0.247	0.620	Plot	19.0	19.0
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 13-2 | Plot A34

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)	Reported 1g SAR for Reference Model [W/kg]	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body-worn/Hotspot	2.4 GHz WiFi / IEEE 802.11b	22	DSSS	H	1756M	98.77	0.17	2462.00	11	1.0	17.0	16.48	Back	5	0.319	1.140	1.012	0.368	0.230	0.404	Plot	21.3	21.3
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population													Body 1.6 W/kg (mW/g) averaged over 1 gram										

13.2 2.4 GHz WIFI MIMO Standalone SAR

Table 13-3 | Plot A35

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Max Allowed Power (2nd and 3rd) [dBm]	Conducted Power (2nd and 3rd) [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Reported 1g SAR for Reference Model [W/kg]	Plot #	MIMO Ant H Plimit [dBm]	MIMO Ant J Plimit [dBm]	Overall Ant H Plimit [dBm]	Overall Ant J Plimit [dBm]
Head	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	MIMO	1202M	98.69	-0.05	2462.00	11	1.0	15.0	14.55	13.0	13.55	Right Cheek	0	0.305	1.109	1.003	0.343	0.214	0.382	Plot	19.6	17.6	19.6	17.6
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population													Head 1.6 W/kg (mW/g) averaged over 1 gram														
Note: To achieve the 17.0 dBm maximum allowed MIMO power shown in the documentation, Antenna H transmits at a maximum allowed power of 15.0 dBm and Antenna J transmits at a maximum power of 13.0 dBm. Note: Reported 1g SAR [W/kg] is calculated from the highest power scaling factor between Antenna H and Antenna J.																											

Table 13-4 | Plot A36

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)	Reported 1g SAR for Reference Model [W/kg]	Plot #	MIMO Ant H Plimit [dBm]	MIMO Ant J Plimit [dBm]	Overall Ant H Plimit [dBm]	Overall Ant J Plimit [dBm]
Body-worn/Hotspot	2.4 GHz WIFI / IEEE 802.11b	22	DSSS	MIMO	1756M	98.69	-0.09	2462.00	11	1.0	17.0	16.55	15.0	14.85	Back	5	0.368	1.109	1.003	0.411	0.257	0.437	Plot	20.8	19.1	20.8	19.1
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: To achieve the 19.0 dBm maximum allowed MIMO power shown in the documentation, Antenna H transmits at a maximum allowed power of 17.0 dBm and Antenna J transmits at a maximum power of 15.0 dBm.																											
Note: Reported 1g SAR [W/kg] is calculated from the highest power scaling factor between Antenna H and Antenna J.																											

13.3 5 GHz WIFI MIMO Standalone SAR

Table 13-5 | Plot A37

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]	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)	Reported 1g SAR for Reference Model [W/kg]	Plot #	MIMO Ant E Plimit [dBm]	MIMO Ant G Plimit [dBm]	Overall Ant E Plimit [dBm]	Overall Ant G Plimit [dBm]			
Head	5 GHz WIFI / IEEE 802.11a	40	OFDM	MIMO	1760M	98.31	0.18	5150.00	151	U-NII-B	27.0	12.0	11.00	10.0	11.91	Right Cheek	0	0.546	1.209	1.008	0.714	0.446	0.605	Plot	13.4	13.3	13.4	13.3			
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: To achieve the 16.0 dBm maximum allowed MIMO power shown in the documentation, Antenna E transmits at a maximum allowed power of 12.0 dBm and Antenna G transmits at a maximum power of 14.0 dBm. Note: Reported 1g SAR [W/kg] is calculated from the highest power scaling factor between Antenna E and Antenna G.																															

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, WIFI, and Bluetooth 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).
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, 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.

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 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 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.
7. SRS was tested with CW signal per S.LSI guidance.
8. For final implementation, NR Band n41 slot configuration is synchronized using maximum duty cycle of 100%. SAR testing was performed using FTM mode with a 100% duty cycle applied to match final duty cycle.

WLAN Notes:

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

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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.
9. Although 6 GHz Hotspot is only supported for VLP mode, hotspot testing was done at SP/LPI level because it is a higher target and more conservative.

Bluetooth Notes

1. Bluetooth SAR was measured with the device connected to a call box with hopping disabled with DH5 operation and Tx Tests test mode type. Per October 2016 TCB Workshop Notes, the reported SAR was scaled to the 78% transmission duty factor for Bluetooth BDR operations 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 SAR were evaluated for Bluetooth BDR tethering applications.

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14 POWER DENSITY DATA SUMMARY

14.1 6 GHz WIFI Power Density Results

Table 14-1 | Plot A38

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 DUT (dB)	Spacing (mm)	Antenna Config.	DUT Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	Grid Step (A)	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
5985.00	7	802.11ax	OFDM	80	N/A	N/A	10.00	9.38	-0.15	2	G	1756M	34.0	Front	93.18	0.05	0.607	1.554	1.153	1.073	0.898	1.726	1.050	2.019	Plot
6705.00	151	802.11ax	OFDM	80	N/A	N/A	10.00	9.74	0.14	2	G	1202M	34.0	Back	93.18	0.05	-	1.554	1.062	1.073	0.498	0.882	0.529	0.937	
5985.00	7	802.11ax	OFDM	80	N/A	N/A	10.00	9.38	-0.12	10.02	G	1202M	34.0	Front	93.18	0.125	0.684	1.554	1.153	1.073	0.453	0.871	0.497	0.956	
5985.00	7	802.11ax	OFDM	80	7.00	5.66	10.00	9.38	-0.07	2	MIMO	1202M	68.1	Front	89.68	0.05	0.636	1.554	1.361	1.115	0.863	2.035	1.030	2.429	
5985.00	7	802.11ax	OFDM	80	7.00	5.66	10.00	9.38	0.05	10.02	MIMO	1202M	68.1	Front	89.68	0.125	0.587	1.554	1.361	1.115	0.327	0.771	0.354	0.835	
47 CFR §1.1515 - SAFETY LIMIT Spatial Average Uncontrolled Exposure / General Population																		Power Density 10 W/m² averaged over 4 cm²							

Power Density General Notes

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

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15 SAR MEASUREMENT VARIABILITY

15.1 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 15-1
Body SAR Measurement Variability Results

BODY VARIABILITY RESULTS														
Band	FREQUENCY		Mode	Service	Side	Spacing (mm)	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)	
5600	5600.00	120	5 GHz WIFI/ IEEE 802.11a	OFDM	Back	5	G	0.951	0.933	1.02	N/A	N/A	N/A	N/A
5750	5720.00	144	5 GHz WIFI/ IEEE 802.11a	OFDM	Back	5	G	0.820	0.813	1.01	N/A	N/A	N/A	N/A
ANSI / IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population						Body 1.6 W/kg (mW/g) averaged over 1 gram								

15.2 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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16 EQUIPMENT LIST

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Agilent	E4404B	Spectrum Analyzer	N/A	N/A	N/A	MY45113242
Agilent	E4438C	ESG Vector Signal Generator	11/2/2025	Annual	11/2/2026	MY45093852
Agilent	E4438C	ESG Vector Signal Generator	5/12/2025	Annual	5/12/2026	MY45093678
Agilent	N5182A	MXG Vector Signal Generator	5/30/2025	Annual	5/30/2026	MY48180366
Agilent	N5182A	MXG Vector Signal Generator	8/1/2025	Annual	8/1/2026	MY47420651
Agilent	8753ES	S-Parameter Vector Network Analyzer	1/6/2025	Annual	1/6/2026	MY40001472
Agilent	8753ES	S-Parameter Vector Network Analyzer	10/28/2025	Annual	10/28/2026	MY40003841
Agilent	E5515C	Wireless Communications Test Set	CBT	N/A	CBT	GB46310798
Agilent	E5515C	Wireless Communications Test Set	CBT	N/A	CBT	GB41450275
Agilent	N4010A	Wireless Connectivity Test Set	N/A	N/A	N/A	GB46170464
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	MN8110B	I/O Adaptor	CBT	N/A	CBT	6261747881
Anritsu	ML2496A	Power Meter	8/21/2025	Annual	8/21/2026	1138001
Anritsu	ML2496A	Power Meter	6/27/2025	Annual	6/27/2026	1840005
Anritsu	MA2411B	Pulse Power Sensor	10/14/2025	Annual	10/14/2026	1726262
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	6262044715
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	MT8000A	Radio Communication Test Station	4/11/2025	Annual	4/11/2026	6261987983
Anritsu	MT8000A	Radio Communication Test Station	3/11/2025	Annual	3/11/2026	6272337439
Anritsu	MT8000A	Radio Communication Test Station	6/4/2025	Annual	6/4/2026	6261914237
Anritsu	MT8000A	Radio Communication Test Station	10/17/2025	Annual	10/17/2026	6272337405
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	240174346
Control Company	4052	Long Stem Thermometer	2/27/2024	Biennial	2/27/2026	240171096
Control Company	4052	Long Stem Thermometer	2/27/2024	Biennial	2/27/2026	240171059
Control Company	4040	Therm./ Clock/ Humidity Monitor	4/15/2024	Biennial	4/15/2026	240310280
Control Company	4040	Therm./ Clock/ Humidity Monitor	10/15/2024	Biennial	10/15/2026	240763503
Control Company	4040	Therm./ Clock/ Humidity Monitor	7/17/2025	Biennial	7/17/2027	250440182
Keysight Technologies	N9020A	MXA Signal Analyzer	7/7/2025	Annual	7/7/2026	MY48010233
Agilent	N9020A	MXA Signal Analyzer	7/7/2025	Biennial	7/7/2027	MY56470202
MCL	BW-N6W5+	6dB Attenuator	CBT	N/A	CBT	1139
Mini-Circuits	VLF-6000+	Low Pass Filter DC to 6000 MHz	CBT	N/A	CBT	N/A
Mini-Circuits	VLF-6000+	Low Pass Filter DC to 6000 MHz	7/3/2025	Annual	7/3/2026	31634
Mini-Circuits	BW-N20W5+	DC to 18 GHz Precision Fixed 20 dB Attenuator	CBT	N/A	CBT	N/A
Mini-Circuits	NLP-1200+	Low Pass Filter DC to 1000 MHz	CBT	N/A	CBT	N/A
Mini-Circuits	NLP-2950+	Low Pass Filter DC to 2700 MHz	CBT	N/A	CBT	N/A
Mini-Circuits	BW-N20W5	Power Attenuator	CBT	N/A	CBT	1226
Mini-Circuits	ZUDC10-83-S+	Directional Coupler	CBT	N/A	CBT	2050
Narda	4772-3	Attenuator (3dB)	CBT	N/A	CBT	9406
Narda	BW-S3W2	Attenuator (3dB)	CBT	N/A	CBT	120
Seekonk	NC-100	Torque Wrench	5/30/2025	Biennial	5/30/2027	US37-3295
Seekonk	NC-100	Torque Wrench	6/3/2025	Biennial	6/3/2027	82475
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	9/26/2024	Biennial	9/26/2026	110553
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	4/3/2025	Annual	4/3/2026	167285
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	2/22/2025	Annual	2/22/2026	168527
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	4/15/2025	Annual	4/15/2026	101699
SPEAG	DAK-3.5	Dielectric Assessment Kit	11/10/2025	Annual	11/10/2026	1277
SPEAG	DAKS-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	1390
SPEAG	DAK-12	Dielectric Assessment Kit (4MHz - 3GHz)	3/10/2025	Annual	3/10/2026	1102

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Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
SPEAG	CLA-13	Confined Loop Antenna	9/4/2025	Annual	9/4/2026	1002
SPEAG	D750V3	750 MHz SAR Dipole	3/4/2025	Annual	3/4/2026	1054
SPEAG	D835V2	835 MHz SAR Dipole	1/18/2024	Biennial	1/18/2026	4d132
SPEAG	D835V2	835 MHz SAR Dipole	6/3/2025	Annual	6/3/2026	4d119
SPEAG	D835V2	835 MHz SAR Dipole	6/3/2025	Annual	6/3/2026	4d180
SPEAG	D835V2	835 MHz SAR Dipole	3/11/2024	Biennial	3/11/2026	4d133
SPEAG	D1750V2	1750 MHz SAR Dipole	11/7/2024	Biennial	11/7/2026	1150
SPEAG	D1900V2	1900 MHz SAR Dipole	6/3/2025	Annual	6/3/2026	5d026
SPEAG	D1900V2	1900 MHz SAR Dipole	2/7/2025	Annual	2/7/2026	5d148
SPEAG	D2450V2	2450 MHz SAR Dipole	6/3/2025	Annual	6/3/2026	945
SPEAG	D2450V2	2450 MHz SAR Dipole	10/7/2025	Annual	10/7/2026	797
SPEAG	D2600V2	2600 MHz SAR Dipole	6/3/2025	Annual	6/3/2026	1009
SPEAG	D5GHzV2	5 GHz SAR Dipole	2/21/2024	Biennial	2/21/2026	1057
SPEAG	D6.5GHzV2	6.5 GHz SAR Dipole	12/5/2025	Annual	12/5/2026	1018
SPEAG	5G Verification Source 10GHz	10GHz System Verification Antenna	3/4/2025	Annual	3/4/2026	1002
SPEAG	DAE4	Dasy Data Acquisition Electronics	3/11/2025	Annual	3/11/2026	1415
SPEAG	DAE4	Dasy Data Acquisition Electronics	5/9/2025	Annual	5/9/2026	1678
SPEAG	DAE4	Dasy Data Acquisition Electronics	6/4/2025	Annual	6/4/2026	1652
SPEAG	DAE4	Dasy Data Acquisition Electronics	4/7/2025	Annual	4/7/2026	1407
SPEAG	DAE4	Dasy Data Acquisition Electronics	11/5/2025	Annual	11/5/2026	1677
SPEAG	DAE4	Dasy Data Acquisition Electronics	4/7/2025	Annual	4/7/2026	1368
SPEAG	DAE4	Dasy Data Acquisition Electronics	9/10/2025	Annual	9/10/2026	1364
SPEAG	DAE4	Dasy Data Acquisition Electronics	6/4/2025	Annual	6/4/2026	1502
SPEAG	DAE4	Dasy Data Acquisition Electronics	4/10/2025	Annual	4/10/2026	1272
SPEAG	DAE4	Dasy Data Acquisition Electronics	6/5/2025	Annual	6/5/2026	1558
SPEAG	DAE4ip	Dasy Data Acquisition Electronics	10/13/2025	Annual	10/13/2026	1449
SPEAG	DAE4ip	Dasy Data Acquisition Electronics	1/8/2026	Annual	1/8/2027	1639
SPEAG	EX3DV4	SAR Probe	1/14/2026	Annual	1/14/2027	7713
SPEAG	EX3DV4	SAR Probe	5/9/2025	Annual	5/9/2026	7660
SPEAG	EX3DV4	SAR Probe	6/12/2025	Annual	6/12/2026	7637
SPEAG	EX3DV4	SAR Probe	4/8/2025	Annual	4/8/2026	7718
SPEAG	EX3DV4	SAR Probe	10/14/2025	Annual	10/14/2026	7527
SPEAG	EX3DV4	SAR Probe	11/7/2025	Annual	11/7/2026	7406
SPEAG	EX3DV4	SAR Probe	4/11/2025	Annual	4/11/2026	7546
SPEAG	EX3DV4	SAR Probe	9/15/2025	Annual	9/15/2026	7558
SPEAG	EX3DV4	SAR Probe	6/12/2025	Annual	6/12/2026	7402
SPEAG	EX3DV4	SAR Probe	4/7/2025	Annual	4/7/2026	7659
SPEAG	EX3DV4	SAR Probe	6/11/2025	Annual	6/11/2026	7661
SPEAG	EX3DV4	SAR Probe	10/13/2025	Annual	10/13/2026	7670
SPEAG	EUmmWV3	EUmmWV3 Probe	1/14/2026	Annual	1/14/2027	9389

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

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 cxg/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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