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RF EXPOSURE PART 1 TEST REPORT

Applicant Name:

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

Date of Testing:

03/23/2026 - 05/07/2026

Test Site/Locations:

Element, Columbia, MD, USA
Element, Suwon, Korea

Document Serial No.:

1M2603110020-01.A3L (Rev1)

FCC ID:

A3LSMF776B

APPLICANT:

SAMSUNG ELECTRONICS CO., LTD.

DUT Type:

Portable Handset

Application Type:

Certification

FCC Rule Part(s):

CFR §2.1093

Model:

SM-F776B

Equipment Class	Band & Mode	Tx Frequency	SAR		
			1g Head (W/kg)	1g Body-Worn (W/kg)	1g Body (W/kg)
PCE	CSMA/CD/SS/CDMA 1X	824.20 - 848.80 MHz	0.44	1.14	1.14
PCE	CSMA/CD/SS/CDMA 1X	1920.20 - 1980.80 MHz	0.51	0.77	0.97
PCE	UMTS 1X	824.20 - 848.80 MHz	0.76	1.05	1.05
PCE	UMTS 1X	1710.2 - 1755.0 MHz	0.75	0.79	0.84
PCE	UMTS 1X	1885.0 - 1920.0 MHz	0.54	0.69	0.71
PCE	LTE Band 12	690.2 - 715.0 MHz	0.44	1.07	1.07
PCE	LTE Band 17	706.2 - 731.0 MHz	N/A	N/A	N/A
PCE	LTE Band 18	774.0 - 784.0 MHz	0.30	1.00	1.00
PCE	LTE Band 20	814.2 - 848.8 MHz	0.57	1.05	1.05
PCE	LTE Band 25	824.2 - 848.8 MHz	N/A	N/A	N/A
PCE	LTE Band 25	1710.2 - 1755.0 MHz	0.47	0.87	0.86
PCE	LTE Band 25	1755.0 - 1770.0 MHz	N/A	N/A	N/A
PCE	LTE Band 25	1770.0 - 1785.0 MHz	N/A	N/A	N/A
PCE	LTE Band 25	1785.0 - 1800.0 MHz	N/A	N/A	N/A
PCE	LTE Band 25	1800.0 - 1815.0 MHz	N/A	N/A	N/A
PCE	LTE Band 25	1815.0 - 1830.0 MHz	N/A	N/A	N/A
PCE	NR Band n77	660.0 - 695.0 MHz	0.50	0.75	1.04
PCE	NR Band n77	695.0 - 715.0 MHz	0.50	1.17	1.17
PCE	NR Band n77	715.0 - 727.0 MHz	0.49	0.72	0.80
PCE	NR Band n77	727.0 - 731.0 MHz	0.48	0.64	0.68
PCE	NR Band n77	731.0 - 746.0 MHz	N/A	N/A	N/A
PCE	NR Band n77	746.0 - 761.0 MHz	0.57	0.98	0.98
PCE	NR Band n77	761.0 - 784.0 MHz	0.76	0.64	1.11
PCE	NR Band n77	784.0 - 800.0 MHz	N/A	N/A	N/A
DFS	2.4 GHz WiFi	2412 - 2472 MHz	0.53	0.58	1.16
NII	5 GHz WiFi	U-NII-1: 5150 - 5250 MHz U-NII-2A: 5250 - 5350 MHz U-NII-2C: 5350 - 5725 MHz U-NII-3: 5745 - 5825 MHz U-NII-4: 5845 - 5925 MHz	0.53	0.58	1.16
6GDR/L	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	0.58	<0.1	0.10
SSS	2.4 GHz Bluetooth	2400 - 2480 MHz	0.58	1.12	1.12
SSS	5G	2412 - 2472 MHz	0.53	0.58	1.16
Simultaneous SAR per ICES 68763 Guidelines			1.50	0.58	1.50
Band & Mode	Tx Frequency	APD (W/m²)			Reported PD (W/m²)
		Head	Body-Worn	Body	
6 GHz WiFi	U-NII-5: 5935 - 6415 MHz	5.75	0.58	0.98	6.95
	U-NII-6: 6435 - 6515 MHz				
	U-NII-7: 6535 - 6875 MHz				
6 GHz WiFi	U-NII-8: 6895 - 7115 MHz				

Overall SAR Summary			
RF Exposure Position	Head	Body-worn	Product Specific (Wireless Router)
SAR (W/kg)	1.13	1.20	1.20
Distance (mm)	0	5	5
			Simultaneous Transmission
			N/A

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 2.9 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.

R.J. Ortanez
VP - Connected Technologies



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@mwfai.info.

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Rev. No	Description	Issue Date	Revised By
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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, S6, S7

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

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2 DEVICE UNDER TEST

2.1 Device Overview

Band & Mode	Operating Modes	Tx Frequency
GSM/GPRS/EDGE 850	Voice/Data	824.20 - 848.80 MHz
GSM/GPRS/EDGE 1900	Voice/Data	1850.20 - 1909.80 MHz
UMTS 850	Voice/Data	826.40 - 846.60 MHz
UMTS 1750	Voice/Data	1712.4 - 1752.6 MHz
UMTS 1900	Voice/Data	1852.4 - 1907.6 MHz
LTE Band 12	Voice/Data	699.7 - 715.3 MHz
LTE Band 17	Voice/Data	706.5 - 713.5 MHz
LTE Band 13	Voice/Data	779.5 - 784.5 MHz
LTE Band 26	Voice/Data	814.7 - 848.3 MHz
LTE Band 5	Voice/Data	824.7 - 848.3 MHz
LTE Band 66	Voice/Data	1710.7 - 1779.3 MHz
LTE Band 4	Voice/Data	1710.7 - 1754.3 MHz
LTE Band 25	Voice/Data	1850.7 - 1914.3 MHz
LTE Band 2	Voice/Data	1850.7 - 1909.3 MHz
LTE Band 41	Voice/Data	2498.5 - 2687.5 MHz
NR Band n71	Voice/Data	665.5 - 695.5 MHz
NR Band n5	Voice/Data	826.5 - 846.5 MHz
NR Band n66	Voice/Data	1712.5 - 1777.5 MHz
NR Band n25	Voice/Data	1852.5 - 1912.5 MHz
NR Band n2	Voice/Data	1852.5 - 1907.5 MHz
NR Band n41	Voice/Data	2501.01 - 2685 MHz
NR Band n77	Voice/Data	3455.01 - 3544.98 MHz; 3705 - 3975 MHz
2.4 GHz WIFI	Voice/Data	2412 - 2472 MHz
5 GHz WIFI	Voice/Data	U-NII-1: 5180 - 5240 MHz U-NII-2A: 5260 - 5320 MHz U-NII-2C: 5500 - 5720 MHz U-NII-3: 5745 - 5825 MHz U-NII-4: 5845 - 5885 MHz
6 GHz WIFI	Voice/Data	U-NII-5: 5935 - 6415 MHz U-NII-6: 6435 - 6515 MHz U-NII-7: 6535 - 6875 MHz U-NII-8: 6895 - 7115 MHz
2.4 GHz Bluetooth	Data	2402 - 2480 MHz
NFC	Data	13.56 MHz
WPT	N/A	110 kHz - 145 kHz

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2.2 Time-Averaging Algorithm for RF Exposure Compliance

2.2.1 Time-Averaged Algorithm

This Device is enabled with S.LSI TAS feature for 2G/3G/4G/5G modes and with Qualcomm® FastConnect TAS feature for WLAN technologies. This feature performs time averaging algorithm in real time to control and manage transmitting power and ensure the time-averaged RF exposure is in compliance with FCC requirements all the time. Refer to Compliance Summary document for detailed description of S.LSI TAS features and Qualcomm® FastConnect TAS features. (report SN could be found in Section 2.11 – Bibliography).

The TAS Manager, which determines the target SAR levels for both the cellular and connectivity chipsets, is implemented within the cellular and connectivity subsystems. In the C-TAS architecture, the TAS manager is implemented in the application processor (AP), where all TAS-related decisions are coordinated and managed. Acting as the bridge for C-TAS operation between different CP and connectivity chipsets, the TAS Manager regulates and adjusts the average power limits (Plimit) of each CP and Wi-Fi/BT chipset while ensuring continued compliance with the TER constraint.

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

The S.LSI TAS algorithm maintains the time-averaged transmit power, in turn, time-averaged RF exposure of SAR_design_target, below the predefined time-averaged power limit (i.e., Plimit for sub-6 radio), for each characterized technology and band. Characterization is achieved by determining Plimit for WWAN sub-6 that corresponds to the exposure design targets after accounting for all device design related uncertainties, i.e., SAR_design_target (<FCC SAR Limit) for sub-6 radio. The SAR characterization is denoted as SAR char in this report (see RF Exposure Part 0 Test Report, report SN can be found in Section 2.11 - Bibliography).

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

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

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Exposure Scenario			Maximum Tune-Up Output Power*	Open – Free/Hotspot	Open – Head	Closed – Free/Hotspot
Averaging Volume				1g/10g	1g	1g
Spacing				5mm, 0mm	0mm	5mm
RSI				0/2	1	3/4
Technology/Band	Antenna	Antenna Group	P _{max}	P _{limit}	P _{limit}	P _{limit}
GSM 850	A	AG0	23.0	21.0	33.8	22.0
GSM 850	E	AG1	23.0	25.0	21.0	27.1
GSM 1900	B	AG0	22.0	19.0	21.0	19.0
UMTS 850	A	AG0	25.0	22.0	22.9	22.5
UMTS 850	E	AG1	24.0	22.0	21.5	22.5
UMTS 1750	B	AG0	24.5	19.0	22.9	19.5
UMTS 1750	H	AG1	24.0	21.0	19.0	20.0
UMTS 1900	B	AG0	25.0	18.0	22.9	18.5
UMTS 1900	H	AG1	24.0	20.0	19.0	20.0
LTE Band 12/17	A	AG0	24.0	23.0	31.6	24.0
LTE Band 12/17	E	AG1	24.0	22.0	21.0	22.5
LTE Band 13	A	AG0	23.5	22.5	23.5	23.0
LTE Band 13	E	AG1	24.0	20.5	20.0	21.0
LTE Band 26	A	AG0	24.5	21.5	30.9	22.5
LTE Band 26	E	AG1	24.0	22.5	21.5	23.0
LTE Band 5	A	AG0	24.5	21.0	23.5	22.5
LTE Band 5	E	AG1	24.0	23.0	21.0	23.5
LTE Band 66/4	B	AG0	24.0	19.0	35.5	20.0
LTE Band 66/4	H	AG1	25.0	21.0	18.0	21.5
LTE Band 25/2	B	AG0	24.0	18.0	35.2	19.5
LTE Band 25/2	H	AG1	24.5	21.0	19.5	21.0
LTE Band 41 PC3	B	AG0	23.5	17.5	39.2	19.5
LTE Band 41 PC3	H	AG1	24.0	19.0	16.5	19.0
LTE Band 41 PC2	B	AG0	25.1	17.5	39.2	19.5
LTE Band 41 PC2	H	AG1	25.6	19.0	16.5	19.0
NR Band n71	A	AG0	24.0	26.2	32.6	26.5
NR Band n71	E	AG1	25.0	23.0	22.0	23.0
NR Band n5	A	AG0	24.5	20.5	24.0	21.5
NR Band n5	E	AG1	25.0	23.0	22.0	23.5
NR Band n66	B	AG0	24.0	19.0	33.7	20.0
NR Band n66	H	AG1	25.0	21.5	19.5	22.0
NR Band n25/n2	B	AG0	24.0	18.0	34.6	19.5
NR Band n25/n2	H	AG1	24.5	21.0	19.5	21.0
NR Band n41 PC3 (Path 1)	B	AG0	24.5	18.5	44.1	20.5
NR Band n41 PC3 (Path 1)	H	AG1	23.0	19.0	16.5	19.0
NR Band n41 PC3 (Path 1)	C	AG0	23.0	19.0	31.4	21.0
NR Band n41 PC3 (Path 1)	G	AG1	21.5	18.0	18.0	18.0
NR Band n41 PC3 (Path 2)	H	AG1	25.0	19.0	16.5	19.0
NR Band n41 PC3 (Path 2)	B	AG0	24.0	17.0	23.0	19.0
NR Band n41 PC3 (Path 2)	G	AG1	24.0	18.0	16.0	18.0
NR Band n41 PC3 (Path 2)	C	AG0	23.5	18.0	16.0	18.0
NR Band n77 PC2	F	AG1	26.0	17.0	14.0	17.0
NR Band n77 PC2	H	AG1	25.0	17.0	15.0	17.0
NR Band n77 PC2	K	AG1	25.0	17.0	14.0	17.0
NR Band n77 PC2	C	AG0	25.0	17.0	14.0	17.0

Notes:

1. When $P_{max} < P_{limit}$ EFS, the DUT will operate at a power level up to P_{max}
2. All P_{limit} EFS and maximum tune-up output power P_{max} levels entered in above Table correspond to average power levels after accounting for duty cycle in the case of GMSK or TDD modulation schemes (e.g. GSM, LTE TDD).
3. Maximum tune-up output power P_{max} is used to configure EUT during RF tune up procedure. The maximum allowed output power is equal to maximum tune-up output power + 1dB device design uncertainty.

The maximum time-averaged output power (dBm) for any WWAN sub-6 technology, band, and RSI is the minimum of ("Plimit EFS" and "Maximum tune up output power Pmax") + 1dB device uncertainty. SAR values in this report were scaled to this maximum time-averaged output power to determine compliance per KDB Publication 447498 D04v01.

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Exposure Scenario			Maximum Tune-Up Output Power*	Free/Hotspot	Head
Averaging Volume				1g/10g	1g
Spacing				5mm, 0mm	0mm
DSI				0	1
Technology/Band	Antenna	Antenna Group	P _{max}	P _{limit}	P _{limit}
2.4 GHz WIFI	G	AG1	19.0	21.0	17.5
2.4 GHz WIFI	C	AG0	19.0	19.3	17.5
5 GHz WIFI	F	AG1	17.0	17.2	15.0
5 GHz WIFI	I	AG1	17.0	19.7	15.0
5 GHz WIFI	MIMO	AG1	17.0	17.3	15.0
6 GHz WIFI	F	AG1	16.0	11.0	15.0
6 GHz WIFI	I	AG1	16.0	11.0	15.0
6 GHz WIFI	MIMO	AG1	16.0	11.0	15.0

Notes:

1. When $P_{max} < P_{limit}$ EFS, the DUT will operate at a power level up to P_{max}
2. All P_{limit} EFS and maximum tune-up output power P_{max} levels entered in above Table correspond to average power levels after accounting for duty cycle in the case of OFDM modulation schemes (e.g. WLAN).
3. 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
4. WLAN MIMO P_{max} and P_{limit} are defined per antenna chain.
5. For 2.4 GHz WLAN, MIMO is not included in SAR CHAR due to the two antennas being in separate Antenna Groups

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. SAR values in this report were scaled to this maximum time-averaged output power to determine compliance per KDB Publication 447498 D04v01.

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

2.3 Power Reduction for SAR

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

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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/be RU operations can be found in 802.11ax/be 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	33.2	33.2	30.2	28.4	27.2	26.5	24.5	23.3	22.2
	Nominal	32.2	32.2	29.2	27.4	26.2	25.5	23.5	22.3	21.2
RSI = 0 (Open – Free)	Max Allowed Power	31.2	31.2	28.2	26.4	25.2	26.5	24.5	23.3	22.2
	Nominal	30.2	30.2	27.2	25.4	24.2	25.5	23.5	22.3	21.2
RSI = 1 (Open – Head)	Max Allowed Power	33.2	33.2	30.2	28.4	27.2	26.5	24.5	23.3	22.2
	Nominal	32.2	32.2	29.2	27.4	26.2	25.5	23.5	22.3	21.2
RSI = 2 (Open – Hotspot)	Max Allowed Power	N/A	31.2	28.2	26.4	25.2	26.5	24.5	23.3	22.2
	Nominal	N/A	30.2	27.2	25.4	24.2	25.5	23.5	22.3	21.2
RSI = 3 (Closed – Free)	Max Allowed Power	32.2	32.2	29.2	27.4	26.2	26.5	24.5	23.3	22.2
	Nominal	31.2	31.2	28.2	26.4	25.2	25.5	23.5	22.3	21.2
RSI = 4 (Closed – Hotspot)	Max Allowed Power	N/A	32.2	29.2	27.4	26.2	26.5	24.5	23.3	22.2
	Nominal	N/A	31.2	28.2	26.4	25.2	25.5	23.5	22.3	21.2
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	33.2	33.2	30.2	28.4	27.2	27.5	25.5	24.3	23.1
	Nominal	32.2	32.2	29.2	27.4	26.2	26.5	24.5	23.3	22.1
RSI = 0 (Open – Free)	Max Allowed Power	33.2	33.2	30.2	28.4	27.2	27.5	25.5	24.3	23.1
	Nominal	32.2	32.2	29.2	27.4	26.2	26.5	24.5	23.3	22.1
RSI = 1 (Open – Head)	Max Allowed Power	31.2	31.2	28.2	26.4	25.2	27.5	25.5	24.3	23.1
	Nominal	30.2	30.2	27.2	25.4	24.2	26.5	24.5	23.3	22.1
RSI = 2 (Open – Hotspot)	Max Allowed Power	N/A	33.2	30.2	28.4	27.2	27.5	25.5	24.3	23.1
	Nominal	N/A	32.2	29.2	27.4	26.2	26.5	24.5	23.3	22.1
RSI = 3 (Closed – Free)	Max Allowed Power	33.2	33.2	30.2	28.4	27.2	27.5	25.5	24.3	23.1
	Nominal	32.2	32.2	29.2	27.4	26.2	26.5	24.5	23.3	22.1
RSI = 4 (Closed – Hotspot)	Max Allowed Power	N/A	33.2	30.2	28.4	27.2	27.5	25.5	24.3	23.1
	Nominal	N/A	32.2	29.2	27.4	26.2	26.5	24.5	23.3	22.1
GSM/GPRS/EDGE 1900										
Antenna B										
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	28.8	27.2	26.2	25.5	22.5	22.3	21.2
	Nominal	30.0	30.0	27.8	26.2	25.2	24.5	21.5	21.3	20.2
RSI = 0 (Open – Free)	Max Allowed Power	29.2	29.2	26.2	24.4	23.2	25.5	22.5	22.3	21.2
	Nominal	28.2	28.2	25.2	23.4	22.2	24.5	21.5	21.3	20.2
RSI = 1 (Open – Head)	Max Allowed Power	31.0	31.0	28.2	26.2	25.2	25.5	22.5	22.3	21.2
	Nominal	30.0	30.0	27.2	25.2	24.2	24.5	21.5	21.3	20.2
RSI = 2 (Open – Hotspot)	Max Allowed Power	N/A	29.2	26.2	24.4	23.2	25.5	22.5	22.3	21.2
	Nominal	N/A	28.2	25.2	23.4	22.2	24.5	21.5	21.3	20.2
RSI = 3 (Closed – Free)	Max Allowed Power	29.2	29.2	26.2	24.4	23.2	25.5	22.5	22.3	21.2
	Nominal	28.2	28.2	25.2	23.4	22.2	24.5	21.5	21.3	20.2
RSI = 4 (Closed – Hotspot)	Max Allowed Power	N/A	29.2	26.2	24.4	23.2	25.5	22.5	22.3	21.2
	Nominal	N/A	28.2	25.2	23.4	22.2	24.5	21.5	21.3	20.2

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	26.0	25.0	25.0	25.0
	Nominal	25.0	24.0	24.0	24.0
RSI = 0 (Open – Free)	Max Allowed Power	23.0	22.0	22.0	22.0
	Nominal	22.0	21.0	21.0	21.0
RSI = 1 (Open – Head)	Max Allowed Power	23.9	22.9	22.9	22.9
	Nominal	22.9	21.9	21.9	21.9
RSI = 2 (Open – Hotspot)	Max Allowed Power	23.0	22.0	22.0	22.0
	Nominal	22.0	21.0	21.0	21.0
RSI = 3 (Closed – Free)	Max Allowed Power	23.5	22.5	22.5	22.5
	Nominal	22.5	21.5	21.5	21.5
RSI = 4 (Closed – Hotspot)	Max Allowed Power	23.5	22.5	22.5	22.5
	Nominal	22.5	21.5	21.5	21.5
UMTS Band 5 (850 MHz)					
Antenna E					
Power Level		Modulated Average Output Power (in dBm)			
		3GPP WCDMA Rel 99	3GPP HSDPA Rel 5	3GPP HSUPA Rel 6	3GPP DC-HSDPA Rel 8
Pmax	Max Allowed Power	25.0	24.0	24.0	24.0
	Nominal	24.0	23.0	23.0	23.0
RSI = 0 (Open – Free)	Max Allowed Power	23.0	22.0	22.0	22.0
	Nominal	22.0	21.0	21.0	21.0
RSI = 1 (Open – Head)	Max Allowed Power	22.5	21.5	21.5	21.5
	Nominal	21.5	20.5	20.5	20.5
RSI = 2 (Open – Hotspot)	Max Allowed Power	23.0	22.0	22.0	22.0
	Nominal	22.0	21.0	21.0	21.0
RSI = 3 (Closed – Free)	Max Allowed Power	23.5	22.5	22.5	22.5
	Nominal	22.5	21.5	21.5	21.5
RSI = 4 (Closed – Hotspot)	Max Allowed Power	23.5	22.5	22.5	22.5
	Nominal	22.5	21.5	21.5	21.5
UMTS Band 4 (1700 MHz)					
Antenna B					
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	25.5	24.5	24.5	24.5
	Nominal	24.5	23.5	23.5	23.5
RSI = 0 (Open – Free)	Max Allowed Power	20.0	20.0	20.0	20.0
	Nominal	19.0	19.0	19.0	19.0
RSI = 1 (Open – Head)	Max Allowed Power	23.9	22.9	22.9	22.9
	Nominal	22.9	21.9	21.9	21.9
RSI = 2 (Open – Hotspot)	Max Allowed Power	20.0	20.0	20.0	20.0
	Nominal	19.0	19.0	19.0	19.0
RSI = 3 (Closed – Free)	Max Allowed Power	20.5	19.5	19.5	19.5
	Nominal	19.5	18.5	18.5	18.5
RSI = 4 (Closed – Hotspot)	Max Allowed Power	20.5	19.5	19.5	19.5
	Nominal	19.5	18.5	18.5	18.5
UMTS Band 4 (1700 MHz)					
Antenna H					
Power Level		Modulated Average Output Power (in dBm)			
		3GPP WCDMA Rel 99	3GPP HSDPA Rel 5	3GPP HSUPA Rel 6	3GPP DC-HSDPA Rel 8
Pmax	Max Allowed Power	25.0	24.0	24.0	24.0
	Nominal	24.0	23.0	23.0	23.0
RSI = 0 (Open – Free)	Max Allowed Power	22.0	21.0	21.0	21.0
	Nominal	21.0	20.0	20.0	20.0
RSI = 1 (Open – Head)	Max Allowed Power	20.0	19.0	19.0	19.0
	Nominal	19.0	18.0	18.0	18.0
RSI = 2 (Open – Hotspot)	Max Allowed Power	22.0	21.0	21.0	21.0
	Nominal	21.0	20.0	20.0	20.0
RSI = 3 (Closed – Free)	Max Allowed Power	21.0	20.0	20.0	20.0
	Nominal	20.0	19.0	19.0	19.0
RSI = 4 (Closed – Hotspot)	Max Allowed Power	21.0	20.0	20.0	20.0
	Nominal	20.0	19.0	19.0	19.0
UMTS Band 2 (1900 MHz)					
Antenna B					
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	26.0	25.0	25.0	25.0
	Nominal	25.0	24.0	24.0	24.0
RSI = 0 (Open – Free)	Max Allowed Power	19.0	18.0	18.0	18.0
	Nominal	18.0	17.0	17.0	17.0
RSI = 1 (Open – Head)	Max Allowed Power	23.9	22.9	22.9	22.9
	Nominal	22.9	21.9	21.9	21.9
RSI = 2 (Open – Hotspot)	Max Allowed Power	19.0	18.0	18.0	18.0
	Nominal	18.0	17.0	17.0	17.0
RSI = 3 (Closed – Free)	Max Allowed Power	19.5	18.5	18.5	18.5
	Nominal	18.5	17.5	17.5	17.5
RSI = 4 (Closed – Hotspot)	Max Allowed Power	19.5	18.5	18.5	18.5
	Nominal	18.5	17.5	17.5	17.5
UMTS Band 2 (1900 MHz)					
Antenna H					
Power Level		Modulated Average Output Power (in dBm)			
		3GPP WCDMA Rel 99	3GPP HSDPA Rel 5	3GPP HSUPA Rel 6	3GPP DC-HSDPA Rel 8
Pmax	Max Allowed Power	25.0	24.0	24.0	24.0
	Nominal	24.0	23.0	23.0	23.0
RSI = 0 (Open – Free)	Max Allowed Power	21.0	20.0	20.0	20.0
	Nominal	20.0	19.0	19.0	19.0
RSI = 1 (Open – Head)	Max Allowed Power	20.0	19.0	19.0	19.0
	Nominal	19.0	18.0	18.0	18.0
RSI = 2 (Open – Hotspot)	Max Allowed Power	21.0	20.0	20.0	20.0
	Nominal	20.0	19.0	19.0	19.0
RSI = 3 (Closed – Free)	Max Allowed Power	21.0	20.0	20.0	20.0
	Nominal	20.0	19.0	19.0	19.0
RSI = 4 (Closed – Hotspot)	Max Allowed Power	21.0	20.0	20.0	20.0
	Nominal	20.0	19.0	19.0	19.0

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Mode / Band	Antenna		Modulated Average Output Power (in dBm)					
			Pmax	RSI = 0 (Open – Free)	RSI = 1 (Open – Head)	RSI = 2 (Open – Hotspot)	RSI = 3 (Closed – Free)	RSI = 4 (Closed – Hotspot)
LTE Band 12/17	A	Max Allowed Power	25.0	24.0	25.0	24.0	25.0	25.0
		Nominal	24.0	23.0	24.0	23.0	24.0	24.0
LTE Band 12/17	E	Max Allowed Power	25.0	23.0	22.0	23.0	23.5	23.5
		Nominal	24.0	22.0	21.0	22.0	22.5	22.5
LTE Band 13	A	Max Allowed Power	24.5	23.5	24.5	23.5	24.0	24.0
		Nominal	23.5	22.5	23.5	22.5	23.0	23.0
LTE Band 13	E	Max Allowed Power	25.0	21.5	21.0	21.5	22.0	22.0
		Nominal	24.0	20.5	20.0	20.5	21.0	21.0
LTE Band 26	A	Max Allowed Power	25.5	22.5	25.5	22.5	23.5	23.5
		Nominal	24.5	21.5	24.5	21.5	22.5	22.5
LTE Band 26	E	Max Allowed Power	25.0	23.5	22.5	23.5	24.0	24.0
		Nominal	24.0	22.5	21.5	22.5	23.0	23.0
LTE Band 5	A	Max Allowed Power	25.5	22.0	24.5	22.0	23.5	23.5
		Nominal	24.5	21.0	23.5	21.0	22.5	22.5
LTE Band 5	E	Max Allowed Power	25.0	23.5	22.0	23.5	24.0	24.0
		Nominal	24.0	22.5	21.0	22.5	23.0	23.0
LTE Band 66/4	B	Max Allowed Power	25.0	20.0	25.0	20.0	21.0	21.0
		Nominal	24.0	19.0	24.0	19.0	20.0	20.0
LTE Band 66/4	H	Max Allowed Power	26.0	22.0	19.0	22.0	22.5	22.5
		Nominal	25.0	21.0	18.0	21.0	21.5	21.5
LTE Band 25/2	B	Max Allowed Power	25.0	19.0	25.0	19.0	20.5	20.5
		Nominal	24.0	18.0	24.0	18.0	19.5	19.5
LTE Band 25/2	H	Max Allowed Power	25.5	22.0	20.5	22.0	22.0	22.0
		Nominal	24.5	21.0	19.5	21.0	21.0	21.0
LTE Band 41 PC3	B	Max Allowed Power	24.5	20.5	24.5	20.5	22.5	22.5
		Nominal	23.5	19.5	23.5	19.5	21.5	21.5
LTE Band 41 PC3	H	Max Allowed Power	25.0	22.0	19.5	22.0	22.0	22.0
		Nominal	24.0	21.0	18.5	21.0	21.0	21.0
LTE Band 41 PC2	B	Max Allowed Power	26.1	22.1	26.1	22.1	24.1	24.1
		Nominal	25.1	21.1	25.1	21.1	23.1	23.1
LTE Band 41 PC2	H	Max Allowed Power	26.6	23.6	21.1	23.6	23.6	23.6
		Nominal	25.6	22.6	20.1	22.6	22.6	22.6

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

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Mode / Band	Antenna		Modulated Average Output Power (in dBm)					
			Pmax	RSI = 0 (Open – Free)	RSI = 1 (Open – Head)	RSI = 2 (Open – Hotspot)	RSI = 3 (Closed – Free)	RSI = 4 (Closed – Hotspot)
NR Band n71	A	Max Allowed Power	25.0	25.0	25.0	25.0	25.0	25.0
		Nominal	24.0	24.0	24.0	24.0	24.0	24.0
NR Band n71	E	Max Allowed Power	26.0	24.0	23.0	24.0	24.0	24.0
		Nominal	25.0	23.0	22.0	23.0	23.0	23.0
NR Band n5	A	Max Allowed Power	25.5	21.5	25.0	21.5	22.5	22.5
		Nominal	24.5	20.5	24.0	20.5	21.5	21.5
NR Band n5	E	Max Allowed Power	26.0	24.0	23.0	24.0	24.5	24.5
		Nominal	25.0	23.0	22.0	23.0	23.5	23.5
NR Band n66	B	Max Allowed Power	25.0	20.0	25.0	20.0	21.0	21.0
		Nominal	24.0	19.0	24.0	19.0	20.0	20.0
NR Band n66	H	Max Allowed Power	26.0	22.5	20.5	22.5	23.0	23.0
		Nominal	25.0	21.5	19.5	21.5	22.0	22.0
NR Band n25/n2	B	Max Allowed Power	25.0	19.0	25.0	19.0	20.5	20.5
		Nominal	24.0	18.0	24.0	18.0	19.5	19.5
NR Band n25/n2	H	Max Allowed Power	25.5	22.0	20.5	22.0	22.0	22.0
		Nominal	24.5	21.0	19.5	21.0	21.0	21.0
NR Band n41 PC3 (Path 1)	B	Max Allowed Power	25.5	19.5	25.5	19.5	21.5	21.5
		Nominal	24.5	18.5	24.5	18.5	20.5	20.5
NR Band n41 PC3 (Path 1)	H	Max Allowed Power	24.0	20.0	17.5	20.0	20.0	20.0
		Nominal	23.0	19.0	16.5	19.0	19.0	19.0
NR Band n41 PC3 (Path 1)	C	Max Allowed Power	24.0	20.0	24.0	20.0	22.0	22.0
		Nominal	23.0	19.0	23.0	19.0	21.0	21.0
NR Band n41 PC3 (Path 1)	G	Max Allowed Power	22.5	19.0	19.0	19.0	19.0	19.0
		Nominal	21.5	18.0	18.0	18.0	18.0	18.0
NR Band n41 PC3 (Path 2)	H	Max Allowed Power	26.0	20.0	17.5	20.0	20.0	20.0
		Nominal	25.0	19.0	16.5	19.0	19.0	19.0
NR Band n41 PC3 (Path 2)	B	Max Allowed Power	25.0	18.0	24.0	18.0	20.0	20.0
		Nominal	24.0	17.0	23.0	17.0	19.0	19.0
NR Band n41 PC3 (Path 2)	G	Max Allowed Power	25.0	19.0	17.0	19.0	19.0	19.0
		Nominal	24.0	18.0	16.0	18.0	18.0	18.0
NR Band n41 PC3 (Path 2)	C	Max Allowed Power	24.5	19.0	17.0	19.0	19.0	19.0
		Nominal	23.5	18.0	16.0	18.0	18.0	18.0
NR Band n77 PC2	F	Max Allowed Power	27.0	18.0	15.0	18.0	18.0	18.0
		Nominal	26.0	17.0	14.0	17.0	17.0	17.0
NR Band n77 PC2	H	Max Allowed Power	26.0	18.0	16.0	18.0	18.0	18.0
		Nominal	25.0	17.0	15.0	17.0	17.0	17.0
NR Band n77 PC2	K	Max Allowed Power	26.0	18.0	15.0	18.0	18.0	18.0
		Nominal	25.0	17.0	14.0	17.0	17.0	17.0
NR Band n77 PC2	C	Max Allowed Power	26.0	18.0	15.0	18.0	18.0	18.0
		Nominal	25.0	17.0	14.0	17.0	17.0	17.0

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

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2.4.2 2.4 GHz WLAN Output Power

The below table is applicable in the following conditions:

- Pmax
- DSI=0

Band	IEEE 802.11 Modulated Output Power (in dBm)																			
	SISO / SISO in MIMO										SISO / SISO in MIMO									
	Antenna G					Antenna C					Antenna G					Antenna C				
Maximum / Nominal Power	Max	Nom	Max	Nom	Max	Nom	Max	Nom	Max	Nom	Max	Nom	Max	Nom	Max	Nom	Max	Nom	Max	Nom
2.4 GHz WLAN	20.0	19.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	20.0	19.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0
	ch. 12: 1.0	0.0	ch. 12: 1.0	0.0	ch. 12: 1.0	0.0	ch. 12: 1.0	0.0	ch. 12: 1.0	0.0	ch. 12: 1.0	0.0	ch. 12: 1.0	0.0	ch. 12: 1.0	0.0	ch. 12: 1.0	0.0	ch. 12: 1.0	0.0
	ch. 13: 1.0	0.0	ch. 13: 1.0	0.0	ch. 13: 1.0	0.0	ch. 13: 1.0	0.0	ch. 13: 1.0	0.0	ch. 13: 1.0	0.0	ch. 13: 1.0	0.0	ch. 13: 1.0	0.0	ch. 13: 1.0	0.0	ch. 13: 1.0	0.0

The below table is applicable in the following conditions:

- DSI=1

Band	IEEE 802.11 Modulated Output Power (in dBm)																			
	SISO / SISO in MIMO										SISO / SISO in MIMO									
	Antenna G					Antenna C					Antenna G					Antenna C				
Maximum / Nominal Power	Max	Nom	Max	Nom	Max	Nom	Max	Nom	Max	Nom	Max	Nom	Max	Nom	Max	Nom	Max	Nom	Max	Nom
2.4 GHz WLAN	18.5	17.5	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.5	17.5	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0
	ch. 12: 1.0	0.0	ch. 12: 1.0	0.0	ch. 12: 1.0	0.0	ch. 12: 1.0	0.0	ch. 12: 1.0	0.0	ch. 12: 1.0	0.0	ch. 12: 1.0	0.0	ch. 12: 1.0	0.0	ch. 12: 1.0	0.0	ch. 12: 1.0	0.0
	ch. 13: 1.0	0.0	ch. 13: 1.0	0.0	ch. 13: 1.0	0.0	ch. 13: 1.0	0.0	ch. 13: 1.0	0.0	ch. 13: 1.0	0.0	ch. 13: 1.0	0.0	ch. 13: 1.0	0.0	ch. 13: 1.0	0.0	ch. 13: 1.0	0.0

2.4.3 5 GHz WLAN Output Power

The below table is applicable in the following conditions:

- Pmax
- DSI=0

Mode	Band	IEEE 802.11 Modulated Output Power (in dBm)																			
		SISO / SISO in MIMO										SISO / SISO in MIMO									
		Antenna G					Antenna C					Antenna G					Antenna C				
Maximum / Nominal Power		Max	Nom	Max	Nom	Max	Nom	Max	Nom	Max	Nom	Max	Nom	Max	Nom	Max	Nom	Max	Nom	Max	Nom
5 GHz WLAN (20MHz BW)	UNF-1	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0
	UNF-2A	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0
	UNF-2C	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0
	UNF-3	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0
	UNF-4	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0
5 GHz WLAN (40MHz BW)	UNF-1	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0
	UNF-2A	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0
	UNF-2C	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0
	UNF-3	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0
	UNF-4	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0
5 GHz WLAN (80MHz BW)	UNF-1	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0
	UNF-2A	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0
	UNF-2C	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0
	UNF-3	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0
	UNF-4	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0
5 GHz WLAN (160MHz BW)	UNF-1	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0
	UNF-2A	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0
	UNF-2C	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0
	UNF-3	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0
	UNF-4	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0	18.0	17.0

FCC ID: A3LSMF776B	RF EXPOSURE PART 1 TEST REPORT		Approved by: Technical Manager
Document S/N: 1M2603110020-01.A3L (Rev1)	DUT Type: Portable Handset	This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.	Page 13 of 171

The below table is applicable in the following conditions:

- DSI=1

Mode	Band	IEEE 802.11 Modulated Output Power (in dBm)																			
		SISO										SISO in MIMO									
		Antenna F					Antenna I					MIMO					MIMO				
		a	b	c	d	e	f	g	h	i	j	k	l	m	n	o	p	q	r	s	t
Maximum / Nominal Power		Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm
5 GHz WiFi (20MHz BW)	UNII-1	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0
	UNII-2A	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0
	UNII-2C	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0
	UNII-3	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0
5 GHz WiFi (40MHz BW)	UNII-4	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0
	UNII-1			16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0
	UNII-2A			16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0
	UNII-2C			16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0
5 GHz WiFi (80MHz BW)	UNII-3			16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0
	UNII-4			16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0
	UNII-1			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	15.0	14.0
	UNII-2A			16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0
5 GHz WiFi (160MHz BW)	UNII-2C			16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0
	UNII-3			16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0
	UNII-4			16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0
	UNII-1			16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0
5 GHz WiFi (320MHz BW)	UNII-2A			16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0
	UNII-2C			16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0
	UNII-3			16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0
	UNII-4			16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0

2.4.4 6 GHz WLAN Output Power

The below table is applicable in the following conditions:

- Pmax

Mode	Band	IEEE 802.11 Modulated Output Power (in dBm)																	
		SISO						SISO						SISO in MIMO					
		Antenna F			Antenna I			Antenna F			Antenna I			MIMO			MIMO		
		a	b	c	d	e	f	g	h	i	j	k	l	m	n	o	p	q	r
Maximum / Nominal Power		Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm	Max	Norm
6 GHz WiFi (20MHz BW) - LPI	UNII-5	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0
	UNII-6	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0
	UNII-7	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0
	UNII-8	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0
6 GHz WiFi (40MHz BW) - LPI	UNII-5			13.0	12.0	13.0	12.0			13.0	12.0	13.0	12.0			13.0	12.0	13.0	12.0
	UNII-6			13.0	12.0	13.0	12.0			13.0	12.0	13.0	12.0			13.0	12.0	13.0	12.0
	UNII-7			13.0	12.0	13.0	12.0			13.0	12.0	13.0	12.0			13.0	12.0	13.0	12.0
	UNII-8			13.0	12.0	13.0	12.0			13.0	12.0	13.0	12.0			13.0	12.0	13.0	12.0
6 GHz WiFi (80MHz BW) - LPI	UNII-5			16.0	15.0	16.0	15.0			16.0	15.0	16.0	15.0			16.0	15.0	16.0	15.0
	UNII-6			16.0	15.0	16.0	15.0			16.0	15.0	16.0	15.0			16.0	15.0	16.0	15.0
	UNII-7			16.0	15.0	16.0	15.0			16.0	15.0	16.0	15.0			16.0	15.0	16.0	15.0
	UNII-8			16.0	15.0	16.0	15.0			16.0	15.0	16.0	15.0			16.0	15.0	16.0	15.0
6 GHz WiFi (160MHz BW) - LPI	UNII-5			15.0	14.0	15.0	14.0			15.0	14.0	15.0	14.0			15.0	14.0	15.0	14.0
	UNII-6			15.0	14.0	15.0	14.0			15.0	14.0	15.0	14.0			15.0	14.0	15.0	14.0
	UNII-7			15.0	14.0	15.0	14.0			15.0	14.0	15.0	14.0			15.0	14.0	15.0	14.0
	UNII-8			15.0	14.0	15.0	14.0			15.0	14.0	15.0	14.0			15.0	14.0	15.0	14.0
6 GHz WiFi (320MHz BW) - LPI	UNII-5					15.0	14.0					15.0	14.0					15.0	14.0
	UNII-6					15.0	14.0					15.0	14.0					15.0	14.0
	UNII-7					15.0	14.0					15.0	14.0					15.0	14.0
	UNII-8					15.0	14.0					15.0	14.0					15.0	14.0

FCC ID: A3LSMF776B	RF EXPOSURE PART 1 TEST REPORT			Approved by: Technical Manager
Document S/N: 1M2603110020-01.A3L (Rev1)	DUT Type: Portable Handset	This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		 Page 14 of 171

Mode	Band	IEEE 802.11 Modulated Output Power (in dBm)																	
		SISO						SISO						SISO in MIMO					
		Antenna F						Antenna I						MIMO					
		a		ax (SU)		be (SU)		a		ax (SU)		be (SU)		a (CDD + STBC)		ax (SU) (CDD + STBC, SDM)		be (SU) (CDD + STBC, SDM)	
Maximum / Nominal Power	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	
6 GHz WiFi (20MHz BW) - SP	UNII-5	17.0 ch. 2: 7.5	16.0 6.5	17.0 ch. 2: 9.0	16.0 8.0	17.0 ch. 2: 9.0	16.0 8.0	17.0 ch. 2: 7.5	16.0 6.5	17.0 ch. 2: 9.0	16.0 8.0	17.0 ch. 2: 9.0	16.0 8.0	17.0 ch. 2: 7.5	16.0 6.5	17.0 ch. 2: 9.0	16.0 8.0	17.0 ch. 2: 9.0	16.0 8.0
	UNII-7	13.0	12.0	13.0	12.0	13.0	12.0	13.0	12.0	13.0	12.0	13.0	12.0	13.0	12.0	13.0	12.0	13.0	12.0
6 GHz WiFi (40MHz BW) - SP	UNII-5			17.0	16.0	17.0	16.0			17.0	16.0	17.0	16.0			17.0	16.0	17.0	16.0
	UNII-7			13.0	12.0	13.0	12.0			13.0	12.0	13.0	12.0			13.0	12.0		
6 GHz WiFi (80MHz BW) - SP	UNII-5			16.0	15.0	16.0	15.0			16.0	15.0	16.0	15.0			16.0	15.0	16.0	15.0
	UNII-7			16.0	15.0	16.0	15.0			16.0	15.0	16.0	15.0			16.0	15.0	16.0	15.0
6 GHz WiFi (160MHz BW) - SP	UNII-5			15.0	14.0	15.0	14.0			15.0	14.0	15.0	14.0			15.0	14.0	15.0	14.0
	UNII-7			15.0	14.0	15.0	14.0			15.0	14.0	15.0	14.0			15.0	14.0	15.0	14.0
6 GHz WiFi (320MHz BW) - SP	UNII-5			15.0		14.0			15.0		14.0					15.0		14.0	
Mode	Band	IEEE 802.11 Modulated Output Power (in dBm)																	
		SISO						SISO						SISO in MIMO					
		Antenna F						Antenna I						MIMO					
		a		ax (SU)		be (SU)		a		ax (SU)		be (SU)		a (CDD + STBC)		ax (SU) (CDD + STBC, SDM)		be (SU) (CDD + STBC, SDM)	
Maximum / Nominal Power	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	
6 GHz WiFi (20MHz BW) - VLP	UNII-5	6.0	5.0	6.0	5.0	6.0	5.0	6.0	5.0	6.0	5.0	6.0	5.0	6.0	5.0	6.0	5.0	6.0	5.0
	UNII-6	6.0	5.0	6.0	5.0	6.0	5.0	6.0	5.0	6.0	5.0	6.0	5.0	6.0	5.0	6.0	5.0	6.0	5.0
	UNII-7	6.0	5.0	6.0	5.0	6.0	5.0	6.0	5.0	6.0	5.0	6.0	5.0	6.0	5.0	6.0	5.0	6.0	5.0
	UNII-8	6.0	5.0	6.0	5.0	6.0	5.0	6.0	5.0	6.0	5.0	6.0	5.0	6.0	5.0	6.0	5.0	6.0	5.0
6 GHz WiFi (40MHz BW) - VLP	UNII-5			9.0	8.0	9.0	8.0			9.0	8.0	9.0	8.0			9.0	8.0	9.0	8.0
	UNII-6			9.0	8.0	9.0	8.0			9.0	8.0	9.0	8.0						
	UNII-7			9.0	8.0	9.0	8.0			9.0	8.0	9.0	8.0						
	UNII-8			9.0	8.0	9.0	8.0			9.0	8.0	9.0	8.0						
6 GHz WiFi (80MHz BW) - VLP	UNII-5			12.0	11.0	12.0	11.0			12.0	11.0	12.0	11.0			12.0	11.0	12.0	11.0
	UNII-6			12.0	11.0	12.0	11.0			12.0	11.0	12.0	11.0			12.0	11.0	12.0	11.0
	UNII-7			12.0	11.0	12.0	11.0			12.0	11.0	12.0	11.0			12.0	11.0	12.0	11.0
	UNII-8			12.0	11.0	12.0	11.0			12.0	11.0	12.0	11.0			12.0	11.0	12.0	11.0
6 GHz WiFi (160MHz BW) - VLP	UNII-5			12.0	11.0	12.0	11.0			12.0	11.0	12.0	11.0			12.0	11.0	12.0	11.0
	UNII-6			12.0	11.0	12.0	11.0			12.0	11.0	12.0	11.0			12.0	11.0	12.0	11.0
	UNII-7			12.0	11.0	12.0	11.0			12.0	11.0	12.0	11.0			12.0	11.0	12.0	11.0
	UNII-8			12.0	11.0	12.0	11.0			12.0	11.0	12.0	11.0			12.0	11.0	12.0	11.0
6 GHz WiFi (320MHz BW) - VLP	UNII-5					12.0	11.0					12.0	11.0					12.0	11.0
	UNII-6					12.0	11.0					12.0	11.0						
	UNII-7					12.0	11.0					12.0	11.0						
	UNII-8					12.0	11.0					12.0	11.0						

FCC ID: A3LSMF776B	RF EXPOSURE PART 1 TEST REPORT			Approved by: Technical Manager
Document S/N: 1M2603110020-01.A3L (Rev1)	DUT Type: Portable Handset	This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		 Page 15 of 171

The below table is applicable in the following conditions:

- $DSI=0$

Mode		Band	IEEE 802.11 Modulated Output Power (in dBm)																	
			SISO						SISO						SISO in MIMO					
			Antenna F						Antenna I						MIMO					
a		ax (SU)		be (SU)		a		ax (SU)		be (SU)		a (CDD + STBC)		ax (SU) (CDD + STBC, SDM)		be (SU) (CDD + STBC, SDM)				
Maximum / Nominal Power		Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.			
6 GHz WiFi (20MHz BW) - LPI	UNI-5	11.0 ch 2: 7.5	10.0 6.5	11.0 ch 2: 9.0	10.0 8.0	11.0 ch 2: 9.0	10.0 8.0	11.0 ch 2: 7.5	10.0 6.5	11.0 ch 2: 9.0	10.0 8.0	11.0 ch 2: 9.0	10.0 8.0	11.0 ch 2: 10.5	10.0 9.5	11.0 ch 2: 12.0	10.0 11.0			
	UNI-6	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0			
	UNI-7	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0			
	UNI-8	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0			
6 GHz WiFi (40MHz BW) - LPI	UNI-5			12.0	11.0	12.0	11.0			12.0	11.0	12.0	11.0			12.0	11.0			
	UNI-6			12.0	11.0	12.0	11.0			12.0	11.0	12.0	11.0			12.0	11.0			
	UNI-7			12.0	11.0	12.0	11.0			12.0	11.0	12.0	11.0			12.0	11.0			
	UNI-8			12.0	11.0	12.0	11.0			12.0	11.0	12.0	11.0			12.0	11.0			
6 GHz WiFi (80MHz BW) - LPI	UNI-5			12.0	11.0	12.0	11.0			12.0	11.0	12.0	11.0			12.0	11.0			
	UNI-6			12.0	11.0	12.0	11.0			12.0	11.0	12.0	11.0			12.0	11.0			
	UNI-7			12.0	11.0	12.0	11.0			12.0	11.0	12.0	11.0			12.0	11.0			
	UNI-8			12.0	11.0	12.0	11.0			12.0	11.0	12.0	11.0			12.0	11.0			
6 GHz WiFi (160MHz BW) - LPI	UNI-5			12.0	11.0	12.0	11.0			12.0	11.0	12.0	11.0			12.0	11.0			
	UNI-6			12.0	11.0	12.0	11.0			12.0	11.0	12.0	11.0			12.0	11.0			
	UNI-7			12.0	11.0	12.0	11.0			12.0	11.0	12.0	11.0			12.0	11.0			
	UNI-8			12.0	11.0	12.0	11.0			12.0	11.0	12.0	11.0			12.0	11.0			
6 GHz WiFi (320MHz BW) - LPI	UNI-5					12.0	11.0					12.0	11.0							
	UNI-6					12.0	11.0					12.0	11.0							
	UNI-7					12.0	11.0					12.0	11.0							
	UNI-8					12.0	11.0					12.0	11.0							
IEEE 802.11 Modulated Output Power (in dBm)																				
Mode		Band	SISO						SISO						SISO in MIMO					
			Antenna F						Antenna I						MIMO					
			a		ax (SU)		be (SU)		a		ax (SU)		be (SU)		a (CDD + STBC)		ax (SU) (CDD + STBC, SDM)		be (SU) (CDD + STBC, SDM)	
Maximum / Nominal Power		Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.			
6 GHz WiFi (20MHz BW) - SP	UNI-5	12.0 ch 2: 7.5	11.0 6.5	12.0 ch 2: 9.0	11.0 8.0	12.0 ch 2: 9.0	11.0 8.0	12.0 ch 2: 7.5	11.0 6.5	12.0 ch 2: 9.0	11.0 8.0	12.0 ch 2: 9.0	11.0 8.0	12.0 ch 2: 10.5	11.0 9.5	12.0 ch 2: 12.0	11.0 11.0			
	UNI-7	12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0	12.0	11.0			
6 GHz WiFi (40MHz BW) - SP	UNI-5			12.0	11.0	12.0	11.0			12.0	11.0	12.0	11.0			12.0	11.0			
	UNI-7			12.0	11.0	12.0	11.0			12.0	11.0	12.0	11.0			12.0	11.0			
6 GHz WiFi (80MHz BW) - SP	UNI-5			12.0	11.0	12.0	11.0			12.0	11.0	12.0	11.0			12.0	11.0			
	UNI-7			12.0	11.0	12.0	11.0			12.0	11.0	12.0	11.0			12.0	11.0			
6 GHz WiFi (160MHz BW) - SP	UNI-5			12.0	11.0	12.0	11.0			12.0	11.0	12.0	11.0			12.0	11.0			
	UNI-7			12.0	11.0	12.0	11.0			12.0	11.0	12.0	11.0			12.0	11.0			
6 GHz WiFi (320MHz BW) - SP	UNI-5					12.0	11.0					12.0	11.0							

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Mode	Band	IEEE 802.11 Modulated Output Power (in dBm)																	
		SISO						SISO						SISO in MIMO					
		Antenna F						Antenna I						MIMO					
Maximum / Nominal Power		a		ax (SU)		be (SU)		a		ax (SU)		be (SU)		a (CDD + STBC)		ax (SU) (CDD + STBC, SDM)		be (SU) (CDD + STBC, SDM)	
		Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.
6 GHz WiFi (20MHz BW) - VLP	UNII-5	6.0	5.0	6.0	5.0	6.0	5.0	6.0	5.0	6.0	5.0	6.0	5.0	6.0	5.0	6.0	5.0	6.0	5.0
	UNII-6	6.0	5.0	6.0	5.0	6.0	5.0	6.0	5.0	6.0	5.0	6.0	5.0	6.0	5.0	6.0	5.0	6.0	5.0
	UNII-7	6.0	5.0	6.0	5.0	6.0	5.0	6.0	5.0	6.0	5.0	6.0	5.0	6.0	5.0	6.0	5.0	6.0	5.0
	UNII-8	6.0	5.0	6.0	5.0	6.0	5.0	6.0	5.0	6.0	5.0	6.0	5.0	6.0	5.0	6.0	5.0	6.0	5.0
6 GHz WiFi (40MHz BW) - VLP	UNII-5			9.0	8.0	9.0	8.0			9.0	8.0	9.0	8.0			9.0	8.0	9.0	8.0
	UNII-6			9.0	8.0	9.0	8.0			9.0	8.0	9.0	8.0						
	UNII-7			9.0	8.0	9.0	8.0			9.0	8.0	9.0	8.0						
	UNII-8			9.0	8.0	9.0	8.0			9.0	8.0	9.0	8.0						
6 GHz WiFi (80MHz BW) - VLP	UNII-5			12.0	11.0	12.0	11.0			12.0	11.0	12.0	11.0			12.0	11.0	12.0	11.0
	UNII-6			12.0	11.0	12.0	11.0			12.0	11.0	12.0	11.0						
	UNII-7			12.0	11.0	12.0	11.0			12.0	11.0	12.0	11.0						
	UNII-8			12.0	11.0	12.0	11.0			12.0	11.0	12.0	11.0						
6 GHz WiFi (160MHz BW) - VLP	UNII-5			12.0	11.0	12.0	11.0			12.0	11.0	12.0	11.0			12.0	11.0	12.0	11.0
	UNII-6			12.0	11.0	12.0	11.0			12.0	11.0	12.0	11.0						
	UNII-7			12.0	11.0	12.0	11.0			12.0	11.0	12.0	11.0						
	UNII-8			12.0	11.0	12.0	11.0			12.0	11.0	12.0	11.0						
6 GHz WiFi (320MHz BW) - VLP	UNII-5					12.0	11.0					12.0	11.0					12.0	11.0
	UNII-6					12.0	11.0					12.0	11.0						
	UNII-7					12.0	11.0					12.0	11.0						
	UNII-8					12.0	11.0					12.0	11.0						

The below table is applicable in the following conditions:

- DSI=1

Mode	Band	IEEE 802.11 Modulated Output Power (in dBm)																	
		SISO						SISO						SISO In MIMO					
		Antenna F						Antenna I						MIMO					
Maximum / Nominal Power	a		ax (SU)		be (SU)		a		ax (SU)		be (SU)		a (CDD + STBC)		ax (SU) (CDD + STBC, SDM)		be (SU) (CDD + STBC, SDM)		
	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	
6 GHz WiFi (20MHz BW) - LPI	UNII-5	11.0 ch 2 - 7.5	10.0 6.5	11.0 ch 2 - 9.0	10.0 8.0	11.0 ch 2 - 9.0	10.0 8.0	11.0 ch 2 - 7.5	10.0 6.5	11.0 ch 2 - 9.0	10.0 8.0	11.0 ch 2 - 9.0	10.0 8.0	11.0 ch 2 - 7.5	10.0 6.5	11.0 ch 2 - 9.0	10.0 8.0	11.0 ch 2 - 9.0	10.0 8.0
	UNII-6	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0
	UNII-7	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0
	UNII-8	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0	11.0	10.0
6 GHz WiFi (40MHz BW) - LPI	UNII-5			13.0	12.0	13.0	12.0			13.0	12.0	13.0	12.0			13.0	12.0	13.0	12.0
	UNII-6			13.0	12.0	13.0	12.0			13.0	12.0	13.0	12.0						
	UNII-7			13.0	12.0	13.0	12.0			13.0	12.0	13.0	12.0						
	UNII-8			13.0	12.0	13.0	12.0			13.0	12.0	13.0	12.0						
6 GHz WiFi (80MHz BW) - LPI	UNII-5			16.0	15.0	16.0	15.0			16.0	15.0	16.0	15.0			16.0	15.0	16.0	15.0
	UNII-6			16.0	15.0	16.0	15.0			16.0	15.0	16.0	15.0						
	UNII-7			16.0	15.0	16.0	15.0			16.0	15.0	16.0	15.0						
	UNII-8			16.0	15.0	16.0	15.0			16.0	15.0	16.0	15.0						
6 GHz WiFi (160MHz BW) - LPI	UNII-5			15.0	14.0	15.0	14.0			15.0	14.0	15.0	14.0			15.0	14.0	15.0	14.0
	UNII-6			15.0	14.0	15.0	14.0			15.0	14.0	15.0	14.0						
	UNII-7			15.0	14.0	15.0	14.0			15.0	14.0	15.0	14.0						
	UNII-8			15.0	14.0	15.0	14.0			15.0	14.0	15.0	14.0						
6 GHz WiFi (320MHz BW) - LPI	UNII-5					15.0	14.0					15.0	14.0					15.0	14.0
	UNII-6					15.0	14.0					15.0	14.0						
	UNII-7					15.0	14.0					15.0	14.0						
	UNII-8					15.0	14.0					15.0	14.0						

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Mode	Band	IEEE 802.11 Modulated Output Power (in dBm)																		
		SISO						SISO						SISO in MIMO						
		Antenna F						Antenna I						MIMO						
		a		ax (SU)		be (SU)		a		ax (SU)		be (SU)		a (CDD + STBC)		ax (SU) (CDD + STBC, SDM)		be (SU) (CDD + STBC, SDM)		
Maximum / Nominal Power		Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	
6 GHz WiFi (20MHz BW) - SP	UNII-5	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0	
	UNII-7	ch. 2: 13.0	7.5 12.0	ch. 2: 13.0	9.0 12.0	ch. 2: 13.0	9.0 12.0	ch. 2: 13.0	7.5 12.0	ch. 2: 13.0	9.0 12.0	ch. 2: 13.0	9.0 12.0	ch. 2: 13.0	7.5 12.0	ch. 2: 13.0	9.0 12.0	ch. 2: 13.0	9.0 12.0	
6 GHz WiFi (40MHz BW) - SP	UNII-5				16.0	15.0	16.0	15.0				16.0	15.0	16.0	15.0				16.0	15.0
	UNII-7				13.0	12.0	13.0	12.0				13.0	12.0	13.0	12.0					
6 GHz WiFi (80MHz BW) - SP	UNII-5				16.0	15.0	16.0	15.0				16.0	15.0	16.0	15.0				16.0	15.0
	UNII-7				16.0	15.0	16.0	15.0				16.0	15.0	16.0	15.0					
6 GHz WiFi (160MHz BW) - SP	UNII-5				15.0	14.0	15.0	14.0				15.0	14.0	15.0	14.0				15.0	14.0
	UNII-7				15.0	14.0	15.0	14.0				15.0	14.0	15.0	14.0					
6 GHz WiFi (320MHz BW) - SP	UNII-5				15.0		14.0				15.0		14.0				15.0		14.0	
Mode	Band	IEEE 802.11 Modulated Output Power (in dBm)																		
		SISO						SISO						SISO in MIMO						
		Antenna F						Antenna I						MIMO						
		a		ax (SU)		be (SU)		a		ax (SU)		be (SU)		a (CDD + STBC)		ax (SU) (CDD + STBC, SDM)		be (SU) (CDD + STBC, SDM)		
Maximum / Nominal Power		Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	
6 GHz WiFi (20MHz BW) - VLP	UNII-5	6.0	5.0	6.0	5.0	6.0	5.0	6.0	5.0	6.0	5.0	6.0	5.0	6.0	5.0	6.0	5.0	6.0	5.0	
	UNII-6	6.0	5.0	6.0	5.0	6.0	5.0	6.0	5.0	6.0	5.0	6.0	5.0	6.0	5.0	6.0	5.0	6.0	5.0	
	UNII-7	6.0	5.0	6.0	5.0	6.0	5.0	6.0	5.0	6.0	5.0	6.0	5.0	6.0	5.0	6.0	5.0	6.0	5.0	
	UNII-8	6.0	5.0	6.0	5.0	6.0	5.0	6.0	5.0	6.0	5.0	6.0	5.0	6.0	5.0	6.0	5.0	6.0	5.0	
6 GHz WiFi (40MHz BW) - VLP	UNII-5				9.0	8.0	9.0	8.0				9.0	8.0	9.0	8.0				9.0	8.0
	UNII-6				9.0	8.0	9.0	8.0				9.0	8.0	9.0	8.0					
	UNII-7				9.0	8.0	9.0	8.0				9.0	8.0	9.0	8.0					
	UNII-8				9.0	8.0	9.0	8.0				9.0	8.0	9.0	8.0					
6 GHz WiFi (80MHz BW) - VLP	UNII-5				12.0	11.0	12.0	11.0				12.0	11.0	12.0	11.0				12.0	11.0
	UNII-6				12.0	11.0	12.0	11.0				12.0	11.0	12.0	11.0					
	UNII-7				12.0	11.0	12.0	11.0				12.0	11.0	12.0	11.0					
	UNII-8				12.0	11.0	12.0	11.0				12.0	11.0	12.0	11.0					
6 GHz WiFi (160MHz BW) - VLP	UNII-5				12.0	11.0	12.0	11.0				12.0	11.0	12.0	11.0				12.0	11.0
	UNII-6				12.0	11.0	12.0	11.0				12.0	11.0	12.0	11.0					
	UNII-7				12.0	11.0	12.0	11.0				12.0	11.0	12.0	11.0					
	UNII-8				12.0	11.0	12.0	11.0				12.0	11.0	12.0	11.0					
6 GHz WiFi (320MHz BW) - VLP	UNII-5				12.0		11.0				12.0		11.0				12.0		11.0	
	UNII-6						12.0						11.0							
	UNII-7												12.0						11.0	
	UNII-8						12.0						11.0							

2.4.5 2.4 GHz Maximum Bluetooth Output Power

Mode	Data Rate	Modulated Output Power (in dBm)					
		Single Antenna				Each Chain in Dual Mode	
		Antenna G		Antenna C		MIMO	
Maximum / Nominal Power		Max	Nom.	Max	Nom.	Max	Nom.
Bluetooth	1Mbps	19.0	18.0	19.0	18.0	17.0	16.0
Bluetooth EDR	2Mbps	16.0	15.0	16.0	15.0	14.0	13.0
Bluetooth EDR	3Mbps	16.0	15.0	16.0	15.0	14.0	13.0
Bluetooth LE	1Mbps	20.0	19.0	19.0	18.0	17.0	16.0
Bluetooth LE	2Mbps	20.0	19.0	19.0	18.0	17.0	16.0
Bluetooth LE	125kbps	11.5	10.5	9.5	8.5	-	-
Bluetooth LE	500kbps	11.5	10.5	9.5	8.5	-	-

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2.5 DUT Antenna Locations

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

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

Antenna	Back	Front	Top	Bottom	Right	Left
A	Yes	Yes	No	Yes	Yes	No
B	Yes	Yes	No	Yes	No	Yes
C	Yes	Yes	No	Yes	No	Yes
E	Yes	Yes	Yes	No	No	Yes
F	Yes	Yes	Yes	No	No	Yes
G	Yes	Yes	Yes	No	No	Yes
H	Yes	Yes	Yes	No	Yes	No
I	Yes	Yes	Yes	No	Yes	No
K	Yes	Yes	Yes	No	Yes	No
G+C MIMO	Yes	Yes	Yes	Yes	No	Yes
F+I MIMO	Yes	Yes	Yes	No	Yes	Yes
NFC	Yes	Yes	Yes	Yes	Yes	Yes

Table 2-2
Device Edges/Sides for Closed Configuration SAR Testing

Antenna	Back	Front	Top	Bottom	Right	Left
A	Yes	Yes	No	Yes	Yes	No
B	Yes	Yes	No	Yes	No	Yes
C	Yes	Yes	Yes	Yes	No	Yes
E	Yes	Yes	Yes	Yes	No	Yes
F	Yes	Yes	No	Yes	No	Yes
G	Yes	Yes	No	Yes	No	Yes
H	Yes	Yes	No	Yes	Yes	No
I	Yes	Yes	Yes	Yes	Yes	No
K	Yes	Yes	No	Yes	Yes	No
G+C MIMO	Yes	Yes	Yes	Yes	No	Yes
F+I MIMO	Yes	Yes	Yes	Yes	Yes	Yes
NFC	Yes	Yes	Yes	Yes	Yes	Yes

Note: Particular DUT edges were not required to be evaluated for wireless router SAR or phablet SAR if the edges were greater than 2.5 cm from the transmitting antenna according to FCC KDB Publication 648474 D04. The distances between the transmit antennas and the edges of the device are included in the filing. When wireless router mode is enabled, UNII- 2A, U-NII-2C, U-NII-4, and WIFI6E SP/LPI operations are disabled.

2.6 Near Field Communications (NFC) Antenna

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

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.

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Table 2-3
Simultaneous Transmission Scenarios

[illegible]

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1. SISO represents 2.4 GHz WLAN/BT transmission on Ant G or Ant C, and 5/6 GHz transmission on Ant F or Ant I.
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-1 and U-NII-3 by S/W, therefore U-NII-2A, U-NII-2C, and U-NII-4 were not evaluated for wireless router conditions.
5. 6 GHz Wireless Router is only supported for VLP mode, therefore SP and LPI were not evaluated for wireless router conditions.
6. This device supports 2x2 MIMO Tx for WLAN 802.11a/g/n/ac/ax/be. 802.11a/g/n/ac/ax/be supports CDD and STBC and 802.11n/ac/ax/be additionally supports SDM.
7. This device supports VoWIFI.
8. This device supports Bluetooth Tethering on Ant G only.
9. This device supports VoLTE.
10. This device supports VoNR.
11. LTE + 5G NR FR1 Scenarios are limited to EN-DC combinations with anchor bands as shown in the NR FR1 checklist.
12. WPT and NFC were 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, head and body-worn SAR is not required for U-NII-1 band according to FCC KDB Publication 248227 D01v02r02.

Since Wireless Router operations are not allowed by the chipset firmware using U-NII-2A, U-NII-2C, U-NII-4 WIFI and 6 GHz SP/LPI, only 2.4 GHz WIFI, 2.4 GHz Bluetooth Ant C, U-NII-1 and U-NII-3 WIFI, and 6 GHz VLP WIFI Hotspot SAR tests and combinations are considered for SAR with respect to Wireless Router configurations according to FCC KDB 941225 D06v02r01.

This device supports IEEE 802.11ax/be with the following features:

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

Per FCC KDB Publication 648474 D04, this device is considered a "phablet" in open configuration 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 2.4 GHz Bluetooth Antenna G, 2.4 GHz Bluetooth MIMO, U-NII-2A, U-NII-2C, U-NII-4 WIFI and 6 GHz SP and LPI, phablet SAR tests were required.

Per October 2024 TCB Workshop notes, phablet SAR testing can be conservatively covered by SAR testing at 5 mm. Because hotspot testing uses the same distance and power level, both scan types are consolidated under a single "Body" exposure condition in SAR data tables.

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

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

(B) Licensed Transmitter(s)

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

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

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

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

Per FCC KDB Publication 648474 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 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 H. SAR tests were performed for each antenna where switching is used per band/mode to ensure compliance. Antennas and indicated band/modes are included in section 2.4.1 of this report.

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

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 D04 (Phablet Procedures)
- October 2013 TCB Workshop Notes (GPRS Testing Considerations)
- May 2017 TCB Workshop Notes (LTE 4x4 Downlink MIMO)
- November 2017, April 2018, October 2018, October 2024 TCB Workshop Notes (LTE Carrier Aggregation)
- April 2019 TCB Workshop Notes (IEEE 802.11ax)
- October 2024 TCB Workshop Notes (Extremity Exclusions)
- 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 and Section 13.

2.11 Bibliography

Report Type	Report Serial Number
RF Exposure Part 2 WWAN Test Report	1M2603110020-03.A3L
RF Exposure Part 2 WLAN Test Report	1M2603110020-26.A3L
RF Exposure Compliance Summary Report	1M2603110020-04.A3L
RF Exposure Part 0 Test Report	1M2603110020-02.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 17: 706.5 - 713.5 MHz				
	LTE Band 13: 779.5 - 784.5 MHz				
	LTE Band 26: 814.7 - 848.3 MHz				
	LTE Band 5: 824.7 - 848.3 MHz				
	LTE Band 66: 1710.7 - 1779.3 MHz				
	LTE Band 4: 1710.7 - 1754.3 MHz				
	LTE Band 25: 1850.7 - 1914.3 MHz				
	LTE Band 2: 1850.7 - 1909.3 MHz				
	LTE Band 41: 2498.5 - 2687.5 MHz				
	LTE Band 12: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz				
	LTE Band 17: 5 MHz, 10 MHz				
Channel Bandwidths	LTE Band 13: 5 MHz, 10 MHz				
	LTE Band 26: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz				
	LTE Band 5: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz				
	LTE Band 66: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 4: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 25: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 2: 1.4 MHz, 3 MHz, 5 MHz, 10 MHz, 15 MHz, 20 MHz				
	LTE Band 41: 5 MHz, 10 MHz, 15 MHz, 20 MHz				
Channel Numbers and Frequencies (MHz)	Low	Low-Mid	Mid	Mid-High	High
LTE Band 12: 1.4 MHz	699.7 (23017)		707.5 (23095)	715.3 (23173)	
LTE Band 12: 3 MHz	700.5 (23025)		707.5 (23095)	714.5 (23165)	
LTE Band 12: 5 MHz	701.5 (23035)		707.5 (23095)	713.5 (23155)	
LTE Band 12: 10 MHz	704 (23060)		707.5 (23095)	711 (23130)	
LTE Band 17: 5 MHz	706.5 (23755)		710 (23790)	713.5 (23825)	
LTE Band 17: 10 MHz	709 (23780)		710 (23790)	711 (23800)	
LTE Band 13: 5 MHz	779.5 (23205)		782 (23230)	784.5 (23255)	
LTE Band 13: 10 MHz	(N/A)		782 (23230)	(N/A)	
LTE Band 26: 1.4 MHz	814.7 (26697)		831.5 (26865)	848.3 (27033)	
LTE Band 26: 3 MHz	815.5 (26705)		831.5 (26865)	847.5 (27025)	
LTE Band 26: 5 MHz	816.5 (26715)		831.5 (26865)	846.5 (27015)	
LTE Band 26: 10 MHz	819 (26740)		831.5 (26865)	844 (26990)	
LTE Band 26: 15 MHz	821.5 (26765)		831.5 (26865)	841.5 (26965)	
LTE Band 5: 1.4 MHz	824.7 (20407)		836.5 (20525)	848.3 (20643)	
LTE Band 5: 3 MHz	825.5 (20415)		836.5 (20525)	847.5 (20635)	
LTE Band 5: 5 MHz	826.5 (20425)		836.5 (20525)	846.5 (20625)	
LTE Band 5: 10 MHz	829 (20450)		836.5 (20525)	844 (20600)	
LTE Band 66: 1.4 MHz	1710.7 (131979)		1745 (132322)	1779.3 (132665)	
LTE Band 66: 3 MHz	1711.5 (131987)		1745 (132322)	1778.5 (132657)	
LTE Band 66: 5 MHz	1712.5 (131997)		1745 (132322)	1777.5 (132647)	
LTE Band 66: 10 MHz	1715 (132022)		1745 (132322)	1775 (132622)	
LTE Band 66: 15 MHz	1717.5 (132047)		1745 (132322)	1772.5 (132597)	
LTE Band 66: 20 MHz	1720 (132072)		1745 (132322)	1770 (132572)	
LTE Band 4: 1.4 MHz	1710.7 (19957)		1732.5 (20175)	1754.3 (20393)	
LTE Band 4: 3 MHz	1711.5 (19965)		1732.5 (20175)	1753.5 (20385)	
LTE Band 4: 5 MHz	1712.5 (19975)		1732.5 (20175)	1752.5 (20375)	
LTE Band 4: 10 MHz	1715 (20000)		1732.5 (20175)	1750 (20350)	
LTE Band 4: 15 MHz	1717.5 (20025)		1732.5 (20175)	1747.5 (20325)	
LTE Band 4: 20 MHz	1720 (20050)		1732.5 (20175)	1745 (20300)	
LTE Band 25: 1.4 MHz	1850.7 (26047)		1882.5 (26365)	1914.3 (26683)	
LTE Band 25: 3 MHz	1851.5 (26055)		1882.5 (26365)	1913.5 (26675)	
LTE Band 25: 5 MHz	1852.5 (26065)		1882.5 (26365)	1912.5 (26665)	
LTE Band 25: 10 MHz	1855 (26090)		1882.5 (26365)	1910 (26640)	
LTE Band 25: 15 MHz	1857.5 (26115)		1882.5 (26365)	1907.5 (26615)	
LTE Band 25: 20 MHz	1860 (26140)		1882.5 (26365)	1905 (26590)	
LTE Band 2: 1.4 MHz	1850.7 (18607)		1880 (18900)	1909.3 (19193)	
LTE Band 2: 3 MHz	1851.5 (18615)		1880 (18900)	1908.5 (19185)	
LTE Band 2: 5 MHz	1852.5 (18625)		1880 (18900)	1907.5 (19175)	
LTE Band 2: 10 MHz	1855 (18650)		1880 (18900)	1905 (19150)	
LTE Band 2: 15 MHz	1857.5 (18675)		1880 (18900)	1902.5 (19125)	
LTE Band 2: 20 MHz	1860 (18700)		1880 (18900)	1900 (19100)	
LTE Band 41: 5 MHz	2506 (39750)	2549.5 (40185)	2593 (40620)	2636.5 (41055)	2680 (41490)
LTE Band 41: 10 MHz	2506 (39750)	2549.5 (40185)	2593 (40620)	2636.5 (41055)	2680 (41490)
LTE Band 41: 15 MHz	2506 (39750)	2549.5 (40185)	2593 (40620)	2636.5 (41055)	2680 (41490)
LTE Band 41: 20 MHz	2506 (39750)	2549.5 (40185)	2593 (40620)	2636.5 (41055)	2680 (41490)
UE Category	UL Cat 18, DL Cat 20				
Modulations Supported in UL	QPSK, 16QAM, 64QAM, 256QAM				
LTE MPR Permanently implemented per 3GPP TS 36.101 section 6.2.3-6.2.5? (manufacturer attestation to be provided)	YES				
A-MPR (Additional MPR) disabled for SAR Testing?	YES				
LTE Carrier Aggregation Possible Combinations	The technical description includes all the possible carrier aggregation combinations				
LTE Additional Information	This device does not support full CA features on 3GPP Release 16. It supports carrier aggregation, downlink MIMO features. All uplink communications are identical to the Release 8 Specifications. Uplink communications are done on the PCC. The following LTE Release 16 Features are not supported: Relay, HetNet, Enhanced MIMO, eICIC, eMBMS, Wifi Offloading, Cross-Carrier Scheduling, Enhanced SC-FDMA.				

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Form Factor		NR Information			
Frequency Range of each NR transmission band		Portable Handset			
		NR Band n71: 665.5 - 695.5 MHz			
		NR Band n5: 826.5 - 846.5 MHz			
		NR Band n66: 1712.5 - 1777.5 MHz			
		NR Band n25: 1852.5 - 1912.5 MHz			
Channel Bandwidths		NR Band n2: 1852.5 - 1907.5 MHz			
		NR Band n41: 2501.01 - 2685 MHz			
		NR Band n77: 3455.01 - 3544.98 MHz; 3705 - 3975 MHz			
		NR Band n71: 5 MHz, 10 MHz, 15 MHz, 20 MHz, 25 MHz, 30 MHz, 35 MHz			
		NR Band n5: 5 MHz, 10 MHz, 15 MHz, 20 MHz			
Channel Numbers and Frequencies (MHz)		NR Band n66: 5 MHz, 10 MHz, 15 MHz, 20 MHz, 25 MHz, 30 MHz, 35 MHz, 40 MHz, 45 MHz			
		NR Band n25: 5 MHz, 10 MHz, 15 MHz, 20 MHz, 25 MHz, 30 MHz, 35 MHz, 40 MHz			
		NR Band n41: 10 MHz, 15 MHz, 20 MHz, 25 MHz, 30 MHz, 40 MHz, 45 MHz, 50 MHz, 60 MHz, 70 MHz, 80 MHz, 90 MHz, 100 MHz			
		NR Band n77: 10 MHz, 15 MHz, 20 MHz, 25 MHz, 30 MHz, 40 MHz, 50 MHz, 60 MHz, 70 MHz, 80 MHz, 90 MHz, 100 MHz			
		NR Band n71: 5 MHz			
NR Band n71: 10 MHz		665.5 (133100)	680.5 (136100)	695.5 (139100)	
NR Band n71: 15 MHz		668 (133600)	680.5 (136100)	693 (138600)	
NR Band n71: 20 MHz		670.5 (134100)	680.5 (136100)	690.5 (138100)	
NR Band n71: 25 MHz		673 (134600)	680.5 (136100)	688 (137600)	
NR Band n71: 30 MHz		675.5 (135100)	680.5 (136100)	685.5 (137100)	
NR Band n71: 35 MHz		678 (135600)	680.5 (136100)	683 (136600)	
NR Band n5: 5 MHz		(N/A)	680.5 (136100)	(N/A)	
NR Band n5: 10 MHz		826.5 (165300)	836.5 (167300)	846.5 (169300)	
NR Band n5: 15 MHz		829 (165800)	836.5 (167300)	844 (168800)	
NR Band n5: 20 MHz		831.5 (166300)	836.5 (167300)	841.5 (168300)	
NR Band n5: 25 MHz		834 (166800)	836.5 (167300)	839 (167800)	
NR Band n66: 5 MHz		1712.5 (342500)	1745 (349000)	1777.5 (355500)	
NR Band n66: 10 MHz		1715 (343000)	1745 (349000)	1775 (355000)	
NR Band n66: 15 MHz		1717.5 (343500)	1745 (349000)	1772.5 (354500)	
NR Band n66: 20 MHz		1720 (344000)	1745 (349000)	1770 (354000)	
NR Band n66: 25 MHz		1722.5 (344500)	1745 (349000)	1767.5 (353500)	
NR Band n66: 30 MHz		1725 (345000)	1745 (349000)	1765 (353000)	
NR Band n66: 35 MHz		1727.5 (345500)	1745 (349000)	1762.5 (352500)	
NR Band n66: 40 MHz		1730 (346000)	1745 (349000)	1760 (352000)	
NR Band n66: 45 MHz		1732.5 (346500)	1745 (349000)	1757.5 (351500)	
NR Band n25: 5 MHz		1852.5 (370500)	1882.5 (376500)	1912.5 (382500)	
NR Band n25: 10 MHz		1855 (371000)	1882.5 (376500)	1910 (382000)	
NR Band n25: 15 MHz		1857.5 (371500)	1882.5 (376500)	1907.5 (381500)	
NR Band n25: 20 MHz		1860 (372000)	1882.5 (376500)	1905 (381000)	
NR Band n25: 25 MHz		1862.5 (372500)	1882.5 (376500)	1902.5 (380500)	
NR Band n25: 30 MHz		1865 (373000)	1882.5 (376500)	1900 (380000)	
NR Band n25: 35 MHz		1867.5 (373500)	1882.5 (376500)	1897.5 (379500)	
NR Band n25: 40 MHz		1870 (374000)	1882.5 (376500)	1895 (379000)	
NR Band n2: 5 MHz		1852.5 (370500)	1880 (376000)	1907.5 (381500)	
NR Band n2: 10 MHz		1855 (371000)	1880 (376000)	1905 (381000)	
NR Band n2: 15 MHz		1857.5 (371500)	1880 (376000)	1902.5 (380500)	
NR Band n2: 20 MHz		1860 (372000)	1880 (376000)	1900 (380000)	
NR Band n2: 25 MHz		1862.5 (372500)	1880 (376000)	1897.5 (379500)	
NR Band n2: 30 MHz		1865 (373000)	1880 (376000)	1895 (379000)	
NR Band n2: 35 MHz		1867.5 (373500)	1880 (376000)	1892.5 (379500)	
NR Band n2: 40 MHz		1870 (374000)	1880 (376000)	1890 (379000)	
NR Band n41: 10 MHz		2501.01 (500202)	2547 (509400)	2592.99 (518598)	2639.01 (527602)
NR Band n41: 15 MHz		2503.5 (500700)	2548.28 (509652)	2592.99 (518598)	2637.75 (527550)
NR Band n41: 20 MHz		2506.02 (501204)	2549.49 (509898)	2592.99 (518598)	2637.75 (527550)
NR Band n41: 25 MHz		2508.51 (501702)	2550.75 (510150)	2592.99 (518598)	2637.75 (527550)
NR Band n41: 30 MHz		2511 (502200)	2552.01 (510402)	2592.99 (518598)	2637.75 (527550)
NR Band n41: 35 MHz		2513.52 (502704)	2553.24 (510648)	2592.99 (518598)	2637.75 (527550)
NR Band n41: 40 MHz		2516.01 (503202)	2557.34 (513468)	(N/A)	2637.75 (527550)
NR Band n41: 45 MHz		2518.5 (503700)	2558.18 (513636)	(N/A)	2637.75 (527550)
NR Band n41: 50 MHz		2521.02 (504204)		2592.99 (518598)	2637.75 (527550)
NR Band n41: 60 MHz		2526 (505200)		2592.99 (518598)	2637.75 (527550)
NR Band n41: 70 MHz		2531.01 (506202)		(N/A)	2637.75 (527550)
NR Band n41: 80 MHz		2536.02 (507204)		(N/A)	2637.75 (527550)
NR Band n41: 90 MHz		2541 (508200)		(N/A)	2637.75 (527550)
NR Band n41: 100 MHz		2546.01 (509202)		2592.99 (518598)	2637.75 (527550)
NR Band n77 DoD: 10 MHz		3455.01 (630334)		3500.01 (633334)	3544.98 (636332)
NR Band n77 DoD: 15 MHz		3457.5 (630500)		3500.01 (633334)	3542.49 (636166)
NR Band n77 DoD: 20 MHz		3460.02 (630666)		3500.01 (633334)	3540 (636000)
NR Band n77 DoD: 25 MHz		3462.51 (630834)		3500.01 (633334)	3537.48 (635832)
NR Band n77 DoD: 30 MHz		3465 (631000)		3500.01 (633334)	3534.99 (635666)
NR Band n77 DoD: 40 MHz		3470.01 (631334)		(N/A)	3529.98 (635332)
NR Band n77 DoD: 50 MHz		3475.02 (631668)		(N/A)	3525 (635000)
NR Band n77 DoD: 60 MHz		(N/A)		3500.01 (633334)	(N/A)
NR Band n77 DoD: 70 MHz		(N/A)		3500.01 (633334)	(N/A)
NR Band n77 DoD: 80 MHz		(N/A)		3500.01 (633334)	(N/A)
NR Band n77 DoD: 90 MHz		(N/A)		3500.01 (633334)	(N/A)
NR Band n77 DoD: 100 MHz		(N/A)		3500.01 (633334)	(N/A)
NR Band n77: 10 MHz		3705 (647000)	3759 (650600)	3813 (654200)	3867 (657800)
NR Band n77: 15 MHz		3707.52 (647168)	3760.5 (650700)	3813.51 (654234)	3866.49 (657766)
NR Band n77: 20 MHz		3710.01 (647334)	3762 (650800)	3813.99 (654266)	3866.01 (657734)
NR Band n77: 25 MHz		3712.5 (647500)	3763.5 (650900)	3814.5 (654300)	3865.5 (657702)
NR Band n77: 30 MHz		3715.02 (647668)	3765 (651000)	3815.01 (654334)	3864.99 (657666)
NR Band n77: 40 MHz		3720 (648000)	3768 (651200)	3816 (654400)	3864 (657600)
NR Band n77: 50 MHz		3725.01 (648334)	3772.49 (651666)	(N/A)	3864 (657600)
NR Band n77: 60 MHz		3730.02 (648668)	3803.34 (653556)	(N/A)	3864 (657600)
NR Band n77: 70 MHz		3735 (649000)	3804.99 (653666)	(N/A)	3864 (657600)
NR Band n77: 80 MHz		3740.01 (649334)	(N/A)	3840 (656000)	3864 (657600)
NR Band n77: 90 MHz		3745.02 (649668)	(N/A)	3840 (656000)	3864 (657600)
NR Band n77: 100 MHz		3750 (650000)	(N/A)	(N/A)	3864 (657600)
SCS for NR Band n71, n5, n66, n25, n2				15 kHz	
SCS for NR Band n41, n77				30 kHz	
Modulations Supported in UL				YES	
A-MPR (Additional MPR) disabled for SAR Testing?				DFT-s-OFDM: m2-BPSK, QPSK, 16QAM, 64QAM, 256QAM	
E-DC and NR Carrier Aggregation Possible Combinations				CP-OFDM: QPSK, 16QAM, 64QAM, 256QAM	
LTE Anchor Bands for NR Band n71				The technical description includes all the possible carrier aggregation combinations	
LTE Anchor Bands for NR Band n5				2/66	
LTE Anchor Bands for NR Band n66				2/4/66	
LTE Anchor Bands for NR Band n25				2/5/12/13	
LTE Anchor Bands for NR Band n2				12/13/66	
LTE Anchor Bands for NR Band n41				4/5/12/13/66	
LTE Anchor Bands for NR Band n77				2/4/5/12/25/26/66	
LTE Anchor Bands for NR Band n77				2/5/12/13/25/41/66	

4 INTRODUCTION

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

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

4.1 SAR Definition

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

Equation 4-1
SAR Mathematical Equation

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

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

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

where:

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

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

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5 DOSIMETRIC ASSESSMENT

5.1 Measurement Procedure

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

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

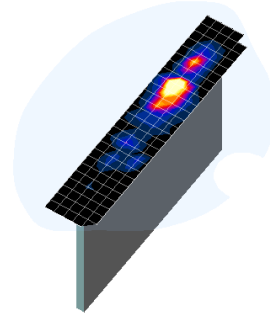


Figure 5-1
Sample SAR Area Scan

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

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

*Also compliant to IEEE 1528-2013 Table 6

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6 DEFINITION OF REFERENCE POINTS

6.1 EAR REFERENCE POINT

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

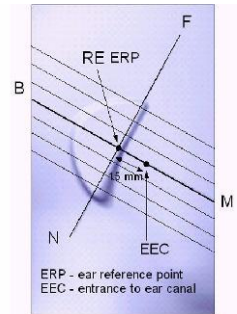


Figure 6-1
Close-Up Side view
of ERP

6.2 HANDSET REFERENCE POINTS

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



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

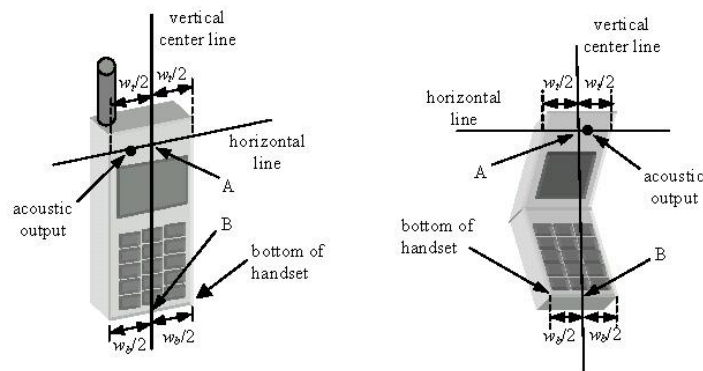


Figure 6-3
Handset Vertical Center & Horizontal Line Reference Points

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7 TEST CONFIGURATION POSITIONS

7.1 Device Holder

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

7.2 Positioning for Cheek

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

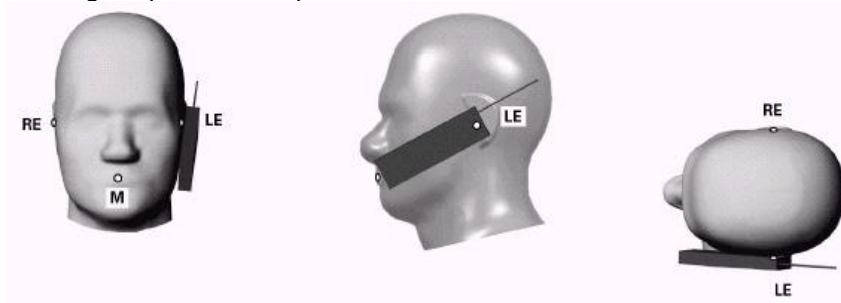


Figure 7-1 Front, Side and Top View of Cheek Position

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

7.3 Positioning for Ear / 15° Tilt

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

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

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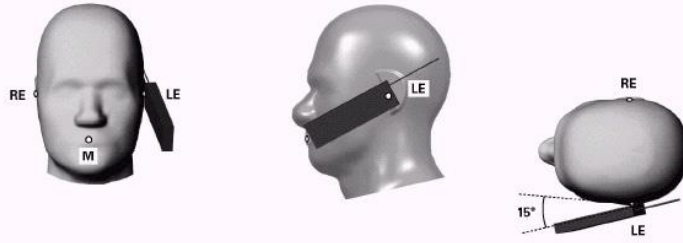


Figure 7-2 Front, Side and Top View of Ear/15° Tilt Position

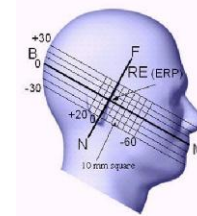


Figure 7-3 Side view w/ relevant markings

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

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

Under these circumstances, the following procedures apply, adopted from the FCC guidance on SAR handsets document FCC KDB Publication 648474 D04. 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 D04, 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.

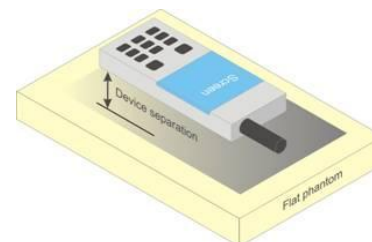


Figure 7-4 Sample Body-Worn Diagram

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 contain metallic components are supplied with the device, the device is tested with only the accessory that

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

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

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

7.6 Extremity Exposure Configurations

Devices that are designed or intended for use on extremities or mainly operated in extremity only exposure conditions; i.e., hands, wrists, feet and ankles, may require extremity SAR evaluation. When the device also operates in close proximity to the user's body, SAR compliance for the body is also required. The 1g body and 10g extremity SAR Exclusion Thresholds found in KDB Publication 447498 D04v01 should be applied to determine SAR test requirements.

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

7.7 Wireless Router Configurations

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

When the user enables the personal wireless router functions for the handset, actual operations include simultaneous transmission of both the WIFI transmitter and another licensed transmitter. Both transmitters often do not transmit at the same transmitting frequency and thus cannot be evaluated for SAR under actual use conditions due to the limitations of the SAR assessment probes. Therefore, SAR must be evaluated for each frequency transmission and mode separately and spatially summed with the WIFI transmitter according to FCC KDB Publication 447498 D04v01 procedures. The "Portable Hotspot" feature on the handset was NOT activated during SAR assessments, to ensure the SAR measurements were evaluated for a single transmission frequency RF signal at a time.

7.8 Phablet Configurations

For smart phones with a display diagonal dimension $> 150 \text{ mm}$ or an overall diagonal dimension $> 160 \text{ mm}$ that provide similar mobile web access and multimedia support found in mini-tablets or UMPC mini-tablets that support voice calls next to the ear, the phablets procedures outlined in KDB Publication 648474 D04 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

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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 and/or when body SAR is tested at > 5 mm.

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8 RF EXPOSURE LIMITS

8.1 Uncontrolled Environment

UNCONTROLLED ENVIRONMENTS are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure. The general population/uncontrolled exposure limits are applicable to situations in which the general public may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Members of the general public would come under this category when exposure is not employment-related; for example, in the case of a wireless transmitter that exposes persons in its vicinity.

8.2 Controlled Environment

CONTROLLED ENVIRONMENTS are defined as locations where there is exposure that may be incurred by persons who are aware of the potential for exposure, (i.e. as a result of employment or occupation). In general, occupational/controlled exposure limits are applicable to situations in which persons are exposed as a consequence of their employment, who have been made fully aware of the potential for exposure and can exercise control over their exposure. This exposure category is also applicable when the exposure is of a transient nature due to incidental passage through a location where the exposure levels may be higher than the general population/uncontrolled limits, but the exposed person is fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

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

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

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

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8.3 RF Exposure Limits for Frequencies above 6 GHz

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

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

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

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

Note: 1.0 mW/cm² is 10 W/m²

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9 FCC MEASUREMENT PROCEDURES

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

9.1 Measured and Reported SAR

Per FCC KDB Publication 447498 D04v01, when SAR is not measured at the maximum power level allowed for production units, the results must be scaled to the maximum tune-up tolerance limit according to the power applied to the individual channels tested to determine compliance. For simultaneous transmission, the measured aggregate SAR must be scaled according to the sum of the differences between the maximum tune-up tolerance and actual power used to test each transmitter. When SAR is measured at or scaled to the maximum tune-up tolerance limit, the results are referred to as *reported* SAR. The highest *reported* SAR results are identified on the grant of equipment authorization according to procedures in KDB 690783 D01v01r03.

9.2 3G SAR Test Reduction Procedure

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

9.3 Procedures Used to Establish RF Signal for SAR

The following procedures are according to FCC KDB Publication 941225 D01v03r01 “3G SAR Measurement Procedures.”

The device is placed into a simulated call using a base station simulator in a RF shielded chamber. Establishing connections in this manner ensure a consistent means for testing SAR and are recommended for evaluating SAR [4]. Devices under test are evaluated prior to testing, with a fully charged battery and were configured to operate at maximum output power. In order to verify that the device is tested throughout the SAR test at maximum output power, the SAR measurement system measures a “point SAR” at an arbitrary reference point at the start and end of the 1 gram SAR evaluation, to assess for any power drifts during the evaluation. If the power drift deviates by more than 5%, the SAR test and drift measurements are repeated.

9.4 SAR Measurement Conditions for UMTS

9.4.1 Output Power Verification

Maximum output power is verified on the High, Middle and Low channels according to the general descriptions in section 5.2 of 3GPP TS 34.121, using the appropriate RMC with TPC (transmit power control) set to all “1s” or applying the required inner loop power control procedures to maintain maximum output power while HSUPA is active. Results for all applicable physical channel configurations (DPCCH, DPDCHn and spreading codes, HS-DPCCH etc) are tabulated in this test report. All configurations that are not supported by the DUT or cannot be measured due to technical or equipment limitations are identified.

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9.4.2 Head SAR Measurements

SAR for next to the ear head exposure is measured using a 12.2 kbps RMC with TPC bits configured to all “1’s”. The 3G SAR test reduction procedure is applied to AMR configurations with 12.2 kbps RMC as the primary mode. Otherwise, SAR is measured for 12.2 kbps AMR in 3.4 kbps SRB (signaling radio bearer) using the highest reported SAR configuration in 12.2 kbps RMC for head exposure.

9.4.3 Body SAR Measurements

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

9.4.4 SAR Measurements with Rel 5 HSDPA

The 3G SAR test reduction procedure is applied to HSDPA body configurations with 12.2 kbps RMC as the primary mode. Otherwise, Body SAR for HSDPA is measured using an FRC with H-Set 1 in Sub-test 1 and a 12.2 kbps RMC configured in Test Loop Mode 1, for the highest reported SAR configuration in 12.2 kbps RMC without HSDPA. Handsets with both HSDPA and HSUPA are tested according to Release 6 HSPA test procedures.

9.4.5 SAR Measurements with Rel 6 HSUPA

The 3G SAR test reduction procedure is applied to HSPA (HSUPA/HSDPA with RMC) body configurations with 12.2 kbps RMC as the primary mode. Otherwise, Body SAR for HSPA is measured with E-DCH Sub-test 5, using H-Set 1 and QPSK for FRC and a 12.2 kbps RMC configured in Test Loop Mode 1 and power control algorithm 2, according to the highest reported body SAR configuration in 12.2 kbps RMC without HSPA.

When VOIP applies to head exposure, the 3G SAR test reduction procedure is applied with 12.2 kbps RMC as the primary mode; otherwise, the same HSPA configuration used for body SAR measurements are applied to head exposure testing.

9.4.6 SAR Measurement Conditions for DC-HSDPA

SAR is required for Rel. 8 DC-HSDPA when SAR is required for Rel. 5 HSDPA; otherwise, the 3G SAR test reduction procedure is applied to DC-HSDPA with 12.2 kbps RMC as the primary mode. Power is measured for DC-HSDPA according to the H-Set 12, FRC configuration in Table C.8.1.12 of 3GPP TS 34.121-1 to determine SAR test reduction. A primary and a secondary serving HS-DSCH Cell are required to perform the power measurement and for the results to be acceptable.

9.5 SAR Measurement Conditions for LTE

LTE modes are tested according to FCC KDB 941225 D05v02r04 publication. Establishing connections with base station simulators ensure a consistent means for testing SAR and are recommended for evaluating SAR [4]. The R&S CMW500 or Anritsu MT8820C simulators are used for LTE output power measurements and SAR testing. Closed loop power control was used so the UE transmits with maximum output power during SAR testing. SAR tests were performed with the same number of RB and RB offsets transmitting on all TTI frames (maximum TTI).

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9.5.1 Spectrum Plots for RB Configurations

A properly configured base station simulator was used for SAR tests and power measurements. Therefore, spectrum plots for RB configurations were not required to be included in this report.

9.5.2 MPR

MPR is permanently implemented for this device by the manufacturer. The specific manufacturer target MPR is indicated alongside the SAR results. MPR is enabled for this device, according to 3GPP TS36.101 Section 6.2.3 – 6.2.5 under Table 6.2.3-1.

9.5.3 A-MPR

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

9.5.4 Required RB Size and RB Offsets for SAR Testing

According to FCC KDB 941225 D05v02r04:

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

9.5.5 TDD

LTE TDD testing is performed using the SAR test guidance provided in FCC KDB 941225 D05v02r04. TDD is tested at the highest duty factor using UL-DL configuration 0 with special subframe configuration 6 and applying the FDD LTE procedures in KDB 941225 D05v02r04. SAR testing is performed using the extended cyclic prefix listed in 3GPP TS 36.211 Section 4.

9.5.6 Downlink Only Carrier Aggregation

Conducted power measurements with LTE Carrier Aggregation (CA) (downlink only) active are made in accordance to KDB Publication 941225 D05Av01r02. The RRC connection is only handled by one cell, the primary component carrier (PCC) for downlink and uplink communications. After making a data connection to the PCC, the UE device adds secondary component carrier(s) (SCC) on the downlink only. All uplink communications and acknowledgements remain identical to specifications when downlink

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carrier aggregation is inactive on the PCC. Additional conducted output powers are measured with the downlink carrier aggregation active for the configuration with highest measured maximum conducted power with downlink carrier aggregation inactive measured among the channel bandwidth, modulation, and RB combinations in each frequency band. Per FCC KDB Publication 941225 D05Av01r02, no SAR measurements are required for downlink only carrier aggregation configurations when the average output power with downlink only carrier aggregation active is not more than 0.25 dB higher than the average output power with downlink only carrier aggregation inactive.

9.6 SAR Testing with 802.11 Transmitters

The normal network operating configurations of 802.11 transmitters are not suitable for SAR measurements. Unpredictable fluctuations in network traffic and antenna diversity conditions can introduce undesirable variations in SAR results. The SAR for these devices should be measured using chipset based test mode software to ensure the results are consistent and reliable. See KDB Publication 248227 D01v02r02 for more details.

9.6.1 General Device Setup

Chipset based test mode software is hardware dependent and generally varies among manufacturers. The device operating parameters established in test mode for SAR measurements must be identical to those programmed in production units, including output power levels, amplifier gain settings and other RF performance tuning parameters.

A periodic duty factor is required for current generation SAR systems to measure SAR. When 802.11 frame gaps are accounted for in the transmission, a maximum transmission duty factor of 92 - 96% is typically achievable in most test mode configurations. A minimum transmission duty factor of 85% is required to avoid certain hardware and device implementation issues related to wide range SAR scaling. The reported SAR is scaled to 100% transmission duty factor to determine compliance at the maximum tune-up tolerance limit.

9.6.2 U-NII-1 and U-NII-2A

For devices that operate in both U-NII-1 and U-NII-2A bands, when the same maximum output power is specified for both bands, SAR measurement using OFDM SAR test procedures is not required for U-NII-1 unless the highest reported SAR for U-NII-2A is > 1.2 W/kg. When different maximum output powers are specified for the bands, SAR measurement for the U-NII band with the lower maximum output power is not required unless the highest reported SAR for the U-NII band with the higher maximum output power, adjusted by the ratio of lower to higher specified maximum output power for the two bands, is > 1.2 W/kg. When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

9.6.3 U-NII-2C and U-NII-3

The frequency range covered by U-NII-2C and U-NII-3 is 380 MHz (5.47 – 5.85 GHz), which requires a minimum of at least two SAR probe calibration frequency points to support SAR measurements. When Terminal Doppler Weather Radar (TDWR) restriction applies, the channels at 5.60 – 5.65 GHz in U-NII-2C band must be disabled with acceptable mechanisms and documented in the equipment certification. Unless band gap channels are permanently disabled, SAR must be considered for these channels. Each band is tested independently according to the normally required OFDM SAR measurement and probe calibration frequency points requirements.

9.6.4 Initial Test Position Procedure

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

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

9.6.5 2.4 GHz SAR Test Requirements

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

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

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

9.6.6 OFDM Transmission Mode and SAR Test Channel Selection

When the same maximum output power was specified for multiple OFDM transmission mode configurations in a frequency band or aggregated band, SAR is measured using the configuration with the largest channel bandwidth, lowest order modulation and lowest data rate. When the maximum output power of a channel is the same for equivalent OFDM configurations; for example, 802.11a, 802.11n and 802.11ac or 802.11g and 802.11n with the same channel bandwidth, modulation and data rate etc., the lower order 802.11 mode i.e., 802.11a, then 802.11n and 802.11ac or 802.11g then 802.11n, is used for SAR measurement. Per April 2019 TCB Workshop and FCC guidance, 802.11ax/be was considered the highest order 802.11 mode. When the maximum output power are the same for multiple test channels, either according to the default or additional power measurement requirements, SAR is measured using the channel closest to the middle of the frequency band or aggregated band. When there are multiple channels with the same maximum output power, SAR is measured using the higher number channel.

9.6.7 Initial Test Configuration Procedure

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

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

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

9.6.8 Subsequent Test Configuration Procedures

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

9.6.9 MIMO SAR considerations

Per KDB Publication 248227 D01v02r02, the simultaneous SAR provisions in KDB Publication 447498 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 Smart Transmit Peak exposure mode enabled such that the EUT transmitted continuously at the maximum time-averaged transmit power limit (P_{Limit}) or the maximum tune-up power (P_{max}), whichever is lower.

10.1 GSM Conducted Powers

Table 10-1

Measured P_{Limit} for RSI = 0/2 (Open – Free/Hotspot) for GSM 850 Ant A

Measured P_{Limit} for RSI = 0/2 (Open – Free/Hotspot), RSI = 3/4 (Closed – Free/Hotspot) for GSM 1900 Ant B

Maximum Burst-Averaged Output Power										
Band	Channel	Voice	GPRS/EDGE Data (GMSK)				EDGE Data (8-PSK)			
		GSM [dBm] CS (1 Slot)	GPRS [dBm] 1 Tx Slot	GPRS [dBm] 2 Tx Slot	GPRS [dBm] 3 Tx Slot	GPRS [dBm] 4 Tx Slot	EDGE [dBm] 1 Tx Slot	EDGE [dBm] 2 Tx Slot	EDGE [dBm] 3 Tx Slot	EDGE [dBm] 4 Tx Slot
GSM 850	128	29.46	29.66	27.06	24.77	23.79	25.10	23.00	21.66	20.52
	190	29.28	29.43	26.71	24.55	23.61	25.08	23.05	21.42	20.31
	251	29.22	29.38	26.66	24.46	23.25	24.91	23.11	21.00	20.20
GSM 1900	512	29.20	28.77	25.59	23.60	22.01	24.07	21.25	20.83	19.51
	661	29.18	28.38	25.18	23.36	21.80	23.71	20.73	20.45	19.10
	810	29.09	28.08	25.07	23.04	21.71	23.88	21.12	20.77	19.36

Calculated Maximum Frame-Averaged Output Power										
Band	Channel	Voice	GPRS/EDGE Data (GMSK)				EDGE Data (8-PSK)			
		GSM [dBm] CS (1 Slot)	GPRS [dBm] 1 Tx Slot	GPRS [dBm] 2 Tx Slot	GPRS [dBm] 3 Tx Slot	GPRS [dBm] 4 Tx Slot	EDGE [dBm] 1 Tx Slot	EDGE [dBm] 2 Tx Slot	EDGE [dBm] 3 Tx Slot	EDGE [dBm] 4 Tx Slot
GSM 850	128	20.26	20.46	20.87	20.34	20.61	15.90	16.81	17.23	17.34
	190	20.08	20.23	20.52	20.12	20.43	15.88	16.86	16.99	17.13
	251	20.02	20.18	20.47	20.03	20.07	15.71	16.92	16.57	17.02
GSM 1900	512	20.00	19.57	19.40	19.17	18.83	14.87	15.06	16.40	16.33
	661	19.98	19.18	18.99	18.93	18.62	14.51	14.54	16.02	15.92
	810	19.89	18.88	18.88	18.61	18.53	14.68	14.93	16.34	16.18

GSM 850	Frame Avg.Targets:	21.00	21.00	21.01	20.97	21.02	16.30	18.31	17.87	18.02
GSM 1900		19.00	19.00	19.01	18.97	19.02	15.30	15.31	16.87	16.92

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Table 10-2
Measured P_{Limit} for RSI = 1 (Open – Head) for GSM 850 Ant A
Measured P_{Limit} for RSI = 1 (Open – Head) for GSM 1900 Ant B

Maximum Burst-Averaged Output Power										
		Voice	GPRS/EDGE Data (GMSK)				EDGE Data (8-PSK)			
Band	Channel	GSM [dBm] CS (1 Slot)	GPRS [dBm] 1 Tx Slot	GPRS [dBm] 2 Tx Slot	GPRS [dBm] 3 Tx Slot	GPRS [dBm] 4 Tx Slot	EDGE [dBm] 1 Tx Slot	EDGE [dBm] 2 Tx Slot	EDGE [dBm] 3 Tx Slot	EDGE [dBm] 4 Tx Slot
GSM 850	128	32.54	31.91	29.50	28.18	26.61	25.10	23.00	21.66	20.52
	190	32.42	31.80	29.10	27.91	26.49	25.08	23.05	21.42	20.31
	251	32.59	32.07	29.18	28.08	27.03	24.91	23.11	21.00	20.20
GSM 1900	512	29.65	29.82	27.41	25.57	24.56	24.07	21.25	20.83	19.51
	661	29.16	29.52	27.03	25.13	24.08	23.71	20.73	20.45	19.10
	810	29.02	29.34	26.80	24.81	23.74	23.88	21.12	20.77	19.36

Calculated Maximum Frame-Averaged Output Power										
		Voice	GPRS/EDGE Data (GMSK)				EDGE Data (8-PSK)			
Band	Channel	GSM [dBm] CS (1 Slot)	GPRS [dBm] 1 Tx Slot	GPRS [dBm] 2 Tx Slot	GPRS [dBm] 3 Tx Slot	GPRS [dBm] 4 Tx Slot	EDGE [dBm] 1 Tx Slot	EDGE [dBm] 2 Tx Slot	EDGE [dBm] 3 Tx Slot	EDGE [dBm] 4 Tx Slot
GSM 850	128	23.34	22.71	23.31	23.75	23.43	15.90	16.81	17.23	17.34
	190	23.22	22.60	22.91	23.48	23.31	15.88	16.86	16.99	17.13
	251	23.39	22.87	22.99	23.65	23.85	15.71	16.92	16.57	17.02
GSM 1900	512	20.45	20.62	21.22	21.14	21.38	14.87	15.06	16.40	16.33
	661	19.96	20.32	20.84	20.70	20.90	14.51	14.54	16.02	15.92
	810	19.82	20.14	20.61	20.38	20.56	14.68	14.93	16.34	16.18

GSM 850	Frame Avg. Targets:	23.00	23.00	23.01	22.97	23.02	16.30	18.31	17.87	18.02
GSM 1900		20.80	20.80	21.01	20.77	21.02	15.30	15.31	16.87	16.92

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Table 10-3
Measured P_{Limit} for RSI = 3/4 (Closed – Free/Hotspot) for GSM 850 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	30.90	31.55	28.02	25.66	24.37	25.10	23.00	21.66	20.52
	190	30.77	31.42	28.84	25.45	24.22	25.08	23.05	21.42	20.31
	251	30.56	31.30	27.75	25.40	24.34	24.91	23.11	21.00	20.20

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	21.70	22.35	21.83	21.23	21.19	15.90	16.81	17.23	17.34
	190	21.57	22.22	22.65	21.02	21.04	15.88	16.86	16.99	17.13
	251	21.36	22.10	21.56	20.97	21.16	15.71	16.92	16.57	17.02

GSM 850	Frame Avg. Targets:	22.00	22.00	22.01	21.97	22.02	16.30	18.31	17.87	18.02
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Table 10-4

Measured P_{limit} for RSI = 0/2 (Open – Free/Hotspot), RSI = 3/4 (Closed – Free/Hotspot) 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	31.51	31.53	29.04	26.65	25.78	25.85	23.74	22.40	21.29
	190	31.48	31.51	28.74	26.57	25.54	25.66	23.58	22.24	21.08
	251	31.74	31.76	29.11	27.05	26.15	26.11	23.80	22.63	21.32

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	22.31	22.33	22.85	22.22	22.60	16.65	17.55	17.97	18.11
	190	22.28	22.31	22.55	22.14	22.36	16.46	17.39	17.81	17.90
	251	22.54	22.56	22.92	22.62	22.97	16.91	17.61	18.20	18.14

GSM 850	Frame Avg. Targets:	23.00	23.00	23.01	22.97	23.02	17.30	18.31	18.87	18.92
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Table 10-5
Measured P_{limit} for RSI = 1 (Open – Head) for GSM 850 Ant E

Maximum Burst-Averaged Output Power										
		Voice	GPRS/EDGE Data (GMSK)				EDGE Data (8-PSK)			
Band	Channel	GSM [dBm] CS (1 Slot)	GPRS [dBm] 1 Tx Slot	GPRS [dBm] 2 Tx Slot	GPRS [dBm] 3 Tx Slot	GPRS [dBm] 4 Tx Slot	EDGE [dBm] 1 Tx Slot	EDGE [dBm] 2 Tx Slot	EDGE [dBm] 3 Tx Slot	EDGE [dBm] 4 Tx Slot
GSM 850	128	30.38	30.53	26.53	25.86	24.39	25.85	23.74	22.40	21.29
	190	30.30	30.47	26.42	25.51	24.36	25.66	23.58	22.24	21.08
	251	30.52	30.81	26.96	25.98	24.94	26.11	23.80	22.63	21.32

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	21.18	21.33	20.34	21.43	21.21	16.65	17.55	17.97	18.11
	190	21.10	21.27	20.23	21.08	21.18	16.46	17.39	17.81	17.90
	251	21.32	21.61	20.77	21.55	21.76	16.91	17.61	18.20	18.14

GSM 850	Frame Avg.Targets:	21.00	21.00	21.01	20.97	21.02	17.30	18.31	18.87	18.92
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Note:

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

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



Figure 10-1
Power Measurement Setup

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10.2 UMTS Conducted Powers

Table 10-6
Measured P_{Limit} for RSI = 0/2 (Open – Free/Hotspot) for UMTS 850 Ant A
Measured P_{Limit} for RSI = 0/2 (Open – Free/Hotspot) for UMTS 1750 Ant B
Measured P_{Limit} for RSI = 0/2 (Open – Free/Hotspot) for UMTS 1900 Ant B

3GPP Release Version	Mode	3GPP 34.121 Subtest	Cellular Band [dBm]			AWS Band [dBm]			PCS Band [dBm]			3GPP MPR [dB]
			4132	4183	4233	1312	1412	1513	9262	9400	9538	
99	WCDMA	12.2 kbps RMC	22.00	21.81	21.85	18.52	18.61	18.68	17.72	17.75	17.76	-
99		12.2 kbps AMR	21.98	21.77	21.80	18.41	18.54	18.61	17.55	17.75	17.60	-
6	HSDPA	Subtest 1	20.26	20.23	20.43	18.80	19.50	19.00	16.29	16.15	16.42	0
6		Subtest 2	20.60	20.64	20.70	18.91	19.45	19.03	16.33	16.12	16.36	0
6		Subtest 3	20.08	20.03	20.21	18.86	19.46	19.01	16.34	16.21	16.44	0
6		Subtest 4	19.86	19.84	20.05	18.93	19.47	19.05	16.33	16.20	16.39	0.5
6	HSUPA	Subtest 1	19.25	19.28	19.52	16.55	16.53	16.62	15.17	15.02	15.32	1.5
6		Subtest 2	18.74	18.71	19.00	16.54	16.55	16.66	15.28	15.09	15.39	2
6		Subtest 3	19.24	19.29	19.56	16.52	16.54	16.60	15.22	15.03	15.36	1.5
6		Subtest 4	18.72	18.72	19.00	16.54	16.61	16.58	15.16	15.00	15.30	1.5
6		Subtest 5	20.28	20.26	20.49	19.43	19.83	19.39	16.34	16.17	16.43	0
8	DC-HSDPA	Subtest 1	20.28	20.41	20.49	19.23	19.77	19.40	16.33	16.27	16.34	0
8		Subtest 2	20.40	20.44	20.63	19.03	19.79	19.51	16.84	16.51	16.71	0
8		Subtest 3	20.04	20.27	20.39	18.96	19.41	19.15	16.63	16.30	16.43	0
8		Subtest 4	19.98	20.09	19.98	19.14	19.50	19.20	16.39	16.31	16.37	0.5

Table 10-7
Measured P_{Limit} for RSI = 1 (Open – Head) for UMTS 850 Ant A
Measured P_{Limit} for RSI = 1 (Open – Head) for UMTS 1750 & UMTS 1900 Ant B

3GPP Release Version	Mode	3GPP 34.121 Subtest	Cellular Band [dBm]			AWS Band [dBm]			PCS Band [dBm]			3GPP MPR [dB]
			4132	4183	4233	1312	1412	1513	9262	9400	9538	
99	WCDMA	12.2 kbps RMC	22.80	22.90	22.91	22.60	22.65	22.75	22.80	22.78	22.81	-
99		12.2 kbps AMR	22.79	22.83	22.50	22.55	22.62	22.70	22.68	22.67	22.55	-
6	HSDPA	Subtest 1	21.16	21.17	21.41	21.32	21.27	21.41	21.27	21.02	21.37	0
6		Subtest 2	20.72	20.75	21.04	20.93	20.90	21.03	20.84	20.69	20.94	0
6		Subtest 3	19.96	19.95	20.04	20.04	19.93	20.08	20.08	19.93	20.18	0
6		Subtest 4	19.85	19.81	19.97	20.01	19.95	20.05	19.77	19.65	19.89	0.5
6	HSUPA	Subtest 1	20.19	20.14	20.38	20.32	20.24	20.38	20.23	19.97	20.26	1.5
6		Subtest 2	18.74	18.75	18.99	18.92	18.87	19.03	18.88	18.71	18.99	2
6		Subtest 3	19.79	19.84	19.97	20.00	19.94	20.04	19.87	19.67	19.89	1.5
6		Subtest 4	18.72	18.73	18.98	18.91	18.88	18.97	18.81	18.68	18.93	1.5
6		Subtest 5	21.16	21.21	21.44	21.48	21.41	21.54	21.31	21.11	21.40	0
8	DC-HSDPA	Subtest 1	21.12	21.30	21.38	21.34	21.40	21.51	21.37	21.27	21.32	0
8		Subtest 2	20.90	20.95	20.93	21.15	21.17	21.16	21.05	20.86	21.04	0
8		Subtest 3	19.91	19.97	19.92	20.18	20.08	20.33	19.92	19.93	19.95	0
8		Subtest 4	19.92	20.01	19.81	20.14	20.13	20.17	19.88	19.78	19.87	0.5

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Table 10-8

Measured P_{Limit} for RSI = 3/4 (Closed – Free/Hotspot) for UMTS 850 Ant A
Measured P_{Limit} for RSI = 3/4 (Closed – Free/Hotspot) for UMTS 1750 & UMTS 1900 Ant B

3GPP Release Version	Mode	3GPP 34.121 Subtest	Cellular Band [dBm]			AWS Band [dBm]			PCS Band [dBm]			3GPP MPR [dB]
			4132	4183	4233	1312	1412	1513	9262	9400	9538	
99	WCDMA	12.2 kbps RMC	22.45	22.20	22.47	19.07	19.21	19.25	18.33	18.40	18.56	-
99		12.2 kbps AMR	22.17	21.97	22.13	18.92	19.13	19.21	17.85	17.90	18.06	-
6	HSDPA	Subtest 1	21.10	20.93	21.07	17.82	18.08	18.09	16.74	16.76	16.92	0
6		Subtest 2	21.13	20.93	21.09	17.84	18.03	18.15	16.71	16.74	16.87	0
6		Subtest 3	20.11	20.05	20.03	17.81	18.09	18.12	16.70	16.77	16.88	0
6		Subtest 4	20.12	19.96	20.06	17.86	18.10	18.13	16.68	16.75	16.86	0.5
6	HSUPA	Subtest 1	20.07	19.89	20.02	17.03	17.08	17.07	16.01	16.09	16.03	1.5
6		Subtest 2	19.04	18.91	19.05	16.77	16.96	16.99	15.78	15.87	15.99	2
6		Subtest 3	20.00	19.89	19.97	16.81	17.07	17.12	15.43	15.45	15.62	1.5
6		Subtest 4	19.05	18.85	19.03	16.86	16.97	16.99	15.81	15.92	16.00	1.5
6		Subtest 5	21.01	20.82	20.97	17.80	18.05	18.12	16.74	16.82	16.97	0
8	DC-HSDPA	Subtest 1	20.91	20.79	20.64	17.79	17.91	17.90	16.76	16.88	16.91	0
8		Subtest 2	20.92	20.84	20.71	17.86	18.01	17.97	17.19	17.35	17.08	0
8		Subtest 3	20.02	20.06	20.01	17.95	17.96	18.06	17.06	17.07	17.09	0
8		Subtest 4	20.00	19.89	19.76	17.85	17.98	18.04	16.89	16.98	17.01	0.5

Table 10-9

Measured P_{Limit} for RSI = 0/2 (Open – Free/Hotspot) for UMTS 850 Ant E
Measured P_{Limit} for RSI = 0/2 (Open – Free/Hotspot) for UMTS 1750 Ant H
Measured P_{Limit} for RSI = 0/2 (Open – Free/Hotspot) & RSI = 3/4 (Closed – Free/Hotspot) for UMTS 1900 Ant H

3GPP Release Version	Mode	3GPP 34.121 Subtest	Cellular Band [dBm]			AWS Band [dBm]			PCS Band [dBm]			3GPP MPR [dB]
			4132	4183	4233	1312	1412	1513	9262	9400	9538	
99	WCDMA	12.2 kbps RMC	22.01	21.88	22.02	20.85	20.75	20.56	19.97	19.83	19.65	-
99		12.2 kbps AMR	21.09	20.91	20.76	20.57	20.52	20.50	19.94	19.73	19.54	-
6	HSDPA	Subtest 1	21.33	21.14	21.09	20.06	19.84	19.82	18.84	18.71	18.82	0
6		Subtest 2	21.84	21.71	21.53	20.52	20.27	20.24	19.34	19.21	19.34	0
6		Subtest 3	20.83	20.72	20.56	20.58	20.28	20.27	20.31	20.13	20.22	0
6		Subtest 4	21.32	21.22	21.06	20.98	20.74	20.71	19.40	19.28	19.41	0.5
6	HSUPA	Subtest 1	20.38	20.24	20.08	18.78	18.62	18.57	18.83	18.17	18.11	1.5
6		Subtest 2	19.84	19.70	19.57	18.03	18.01	19.29	17.73	17.19	17.18	2
6		Subtest 3	20.31	20.19	20.03	18.48	18.22	18.24	18.99	17.13	17.16	1.5
6		Subtest 4	19.77	19.65	19.49	18.10	19.44	19.93	18.96	18.81	18.88	1.5
6		Subtest 5	21.24	21.11	20.98	19.92	19.65	19.67	20.29	20.15	20.16	0
8	DC-HSDPA	Subtest 1	21.25	21.16	20.98	20.03	19.64	19.66	19.19	19.09	19.13	0
8		Subtest 2	21.95	21.65	21.45	20.70	20.28	20.39	19.84	19.71	19.61	0
8		Subtest 3	20.96	20.83	20.53	20.58	20.41	20.36	20.48	20.38	20.39	0
8		Subtest 4	21.30	21.15	20.96	21.00	20.79	20.82	19.77	19.68	19.72	0.5

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Table 10-10
Measured P_{Limit} for RSI = 1 (Open – Head) for UMTS 850 Ant E
Measured P_{Limit} for RSI = 1 (Open – Head) UMTS 1750 & UMTS 1900 Ant H

3GPP Release Version	Mode	3GPP 34.121 Subtest	Cellular Band [dBm]			AWS Band [dBm]			PCS Band [dBm]			3GPP MPR [dB]
			4132	4183	4233	1312	1412	1513	9262	9400	9538	
99	WCDMA	12.2 kbps RMC	21.22	21.14	21.27	18.76	18.60	18.51	18.57	18.38	18.23	-
99		12.2 kbps AMR	21.36	21.19	21.03	18.73	18.58	18.49	18.56	18.34	18.18	-
6	HSDPA	Subtest 1	20.24	20.11	20.03	18.01	17.68	17.64	17.36	17.24	17.33	0
6		Subtest 2	20.74	20.58	20.46	18.56	18.20	18.24	18.01	17.79	17.91	0
6		Subtest 3	20.34	20.23	20.07	18.53	18.19	18.19	18.79	18.63	18.74	0
6		Subtest 4	20.81	20.69	20.52	18.99	18.64	18.72	18.06	17.89	17.96	0.5
6	HSUPA	Subtest 1	19.16	19.05	19.01	16.81	16.70	16.69	17.46	16.35	16.41	1.5
6		Subtest 2	19.00	18.94	18.91	15.72	15.51	17.33	17.00	15.54	15.59	2
6		Subtest 3	19.17	19.06	18.90	16.26	16.08	16.15	17.47	15.58	15.63	1.5
6		Subtest 4	18.93	18.92	18.88	16.07	17.30	18.00	17.48	17.44	17.47	1.5
6		Subtest 5	20.25	20.09	19.97	17.99	17.77	17.75	18.60	18.44	18.49	0
8	DC-HSDPA	Subtest 1	20.40	20.27	20.06	17.83	17.58	17.66	17.66	17.50	17.56	0
8		Subtest 2	21.00	20.74	20.84	18.67	18.24	18.39	18.25	18.15	18.13	0
8		Subtest 3	20.39	20.53	20.33	18.51	18.25	18.43	18.82	18.71	18.87	0
8		Subtest 4	20.88	20.76	20.80	18.93	18.76	18.72	18.16	17.99	18.03	0.5

Table 10-11
Measured P_{Limit} for RSI = 3/4 (Closed – Free/Hotspot) for UMTS 850 Ant E
Measured P_{Limit} for RSI = 3/4 (Closed – Free/Hotspot) for UMTS 1750 Ant H

3GPP Release Version	Mode	3GPP 34.121 Subtest	Cellular Band [dBm]			AWS Band [dBm]			3GPP MPR [dB]
			4132	4183	4233	1312	1412	1513	
99	WCDMA	12.2 kbps RMC	22.44	22.53	22.61	20.27	20.24	20.01	-
99		12.2 kbps AMR	22.80	22.66	22.43	19.93	19.71	19.72	-
6	HSDPA	Subtest 1	21.84	21.72	21.56	19.04	18.73	18.75	0
6		Subtest 2	22.32	22.17	22.03	19.46	19.20	19.17	0
6		Subtest 3	20.82	20.70	20.55	19.57	19.21	19.18	0
6		Subtest 4	21.30	21.18	21.03	19.99	19.73	19.70	0.5
6	HSUPA	Subtest 1	20.75	20.62	20.51	17.91	17.65	17.64	1.5
6		Subtest 2	19.77	19.68	19.51	17.07	16.66	18.50	2
6		Subtest 3	20.73	20.64	20.47	17.35	17.17	17.18	1.5
6		Subtest 4	19.78	19.67	19.50	17.06	18.44	19.00	1.5
6		Subtest 5	21.74	21.61	21.46	18.82	18.69	18.75	0
8	DC-HSDPA	Subtest 1	21.78	21.60	21.44	19.07	18.86	18.88	0
8		Subtest 2	22.22	22.05	21.13	19.84	19.37	19.21	0
8		Subtest 3	21.19	21.03	20.88	19.78	19.42	19.38	0
8		Subtest 4	21.31	21.15	21.00	19.95	19.81	19.80	0.5

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DC-HSDPA considerations

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

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

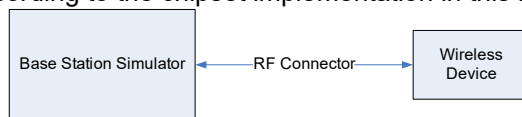


Figure 10-2
Power Measurement Setup

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10.3 LTE Conducted Powers

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

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

10.3.1 LTE Band 12

Table 10-12
LTE Band 12 Ant A Measured P_{Limit} for RSI = 0/2 (Open – Free/Hotspot) - 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	22.88	0	0
	1	25	22.89		0
	1	49	23.08		0
	25	0	22.93	0-1	0
	25	12	23.00		0
	25	25	23.03		0
16QAM	50	0	23.00	0-1	0
	1	0	23.17		0
	1	25	23.18		0
	1	49	23.39	0-2	0
	25	0	22.13		1
	25	12	22.16		1
64QAM	25	25	22.22	0-2	1
	50	0	22.17		1
	1	0	22.20	0-2	1
	1	25	22.26		1
	1	49	22.41		1
	25	0	21.09	0-3	2
256QAM	25	12	21.09		2
	25	25	21.23		2
	50	0	21.11	0-5	2
	1	0	19.65		4
	1	25	19.67		4
	1	49	19.79		4
	25	0	19.61		4
	25	12	19.62		4
	25	25	19.71		4
	50	0	19.63		4

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Table 10-13
LTE Band 12 Ant A Measured P_{Max} for RSI = 1 (Open – Head), RSI = 3/4 (Closed – Free/Hotspot)
- 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	24.02	0	0
	1	25	24.14		0
	1	49	24.40		0
	25	0	22.60	0-1	1
	25	12	22.66		1
	25	25	22.87		1
16QAM	50	0	22.64	0-1	1
	1	0	22.44		1
	1	25	22.55		1
	1	49	22.76	0-2	1
	25	0	21.53		2
	25	12	21.58		2
64QAM	25	25	21.70	0-2	2
	50	0	21.63		2
	1	0	21.92	0-2	2
	1	25	21.98		2
	1	49	22.21		2
	25	0	20.81	0-3	3
256QAM	25	12	20.82		3
	25	25	20.86		3
	50	0	20.73	0-5	3
	1	0	19.25		5
	1	25	19.28		5
	1	49	19.40		5
	25	0	18.86		5
	25	12	18.93		5
	25	25	19.00		5
	50	0	19.19		5

Table 10-14
LTE Band 12 Ant E Measured P_{Limit} for RSI = 0/2 (Open – Free/Hotspot) - 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	22.64	0	0
	1	25	22.46		0
	1	49	22.54		0
	25	0	22.59	0-1	0
	25	12	22.53		0
	25	25	22.52		0
16QAM	50	0	22.51	0-1	0
	1	0	22.78		0
	1	25	22.59		0
	1	49	22.67	0-2	0
	25	0	22.13		0
	25	12	22.09		0
64QAM	25	25	22.08	0-2	0
	50	0	22.11		0
	1	0	22.54	0-2	0
	1	25	22.39		0
	1	49	22.46		0
	25	0	21.27	0-3	1
256QAM	25	12	21.26		1
	25	25	21.26		1
	50	0	21.04	0-5	1
	1	0	19.99		3
	1	25	19.85		3
	1	49	19.93		3
	25	0	19.57		3
	25	12	19.55		3
	25	25	19.54		3
	50	0	19.55		3

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Table 10-15
LTE Band 12 Ant E Measured P_{Limit} for RSI = 1 (Open – 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	21.40	0	0
	1	25	21.23		0
	1	49	21.31		0
	25	0	21.34	0-1	0
	25	12	21.31		0
	25	25	21.30		0
	50	0	21.29		0
16QAM	1	0	21.68	0-1	0
	1	25	21.49		0
	1	49	21.58		0
	25	0	21.33	0-2	0
	25	12	21.31		0
	25	25	21.29		0
	50	0	21.32		0
64QAM	1	0	21.40	0-2	0
	1	25	21.30		0
	1	49	21.33		0
	25	0	20.96	0-3	0
	25	12	20.97		0
	25	25	20.93		0
	50	0	21.11		0
256QAM	1	0	19.85	0-5	2
	1	25	19.75		2
	1	49	19.78		2
	25	0	19.57		2
	25	12	19.55		2
	25	25	19.54		2
	50	0	19.61		2

Table 10-16
LTE Band 12 Ant E Measured P_{Limit} for RSI = 3/4 (Closed – Free/Hotspot) - 10 MHz Bandwidth

LTE Band 12 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23095.0 (707.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	23.05	0	0
	1	25	22.98		0
	1	49	22.97		0
	25	0	22.95	0-1	0
	25	12	22.92		0
	25	25	22.90		0
	50	0	22.94		0
16QAM	1	0	23.07	0-1	0
	1	25	22.92		0
	1	49	22.99		0
	25	0	22.26	0-2	0.5
	25	12	22.23		0.5
	25	25	22.30		0.5
	50	0	22.21		0.5
64QAM	1	0	22.84	0-2	0.5
	1	25	22.71		0.5
	1	49	22.77		0.5
	25	0	21.24	0-3	1.5
	25	12	21.23		1.5
	25	25	21.22		1.5
	50	0	21.08		1.5
256QAM	1	0	19.78	0-5	3.5
	1	25	19.60		3.5
	1	49	19.71		3.5
	25	0	19.61		3.5
	25	12	19.58		3.5
	25	25	19.55		3.5
	50	0	19.72		3.5

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10.3.2 LTE Band 13

Table 10-17

LTE Band 13 Ant A Measured P_{Limit} for RSI = 0/2 (Open – Free/Hotspot) - 10 MHz Bandwidth

LTE Band 13 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23230.0 (782.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	22.70	0	0
	1	25	22.69		0
	1	49	22.65		0
	25	0	22.74	0-1	0
	25	12	22.54		0
	25	25	22.58		0
16QAM	50	0	22.62	0-1	0
	1	0	22.60		0
	1	25	22.54		0
	1	49	22.56	0-2	0
	25	0	21.56		1
	25	12	21.54		1
64QAM	25	25	21.50	0-2	1
	50	0	21.60		1
	1	0	21.76	0-2	1
	1	25	21.83		1
	1	49	21.75		1
	25	0	20.60	0-3	2
256QAM	25	12	20.57		2
	25	25	20.51		2
	50	0	20.58	0-5	2
	1	0	19.12		4
	1	25	19.10		4
	1	49	19.03		4
	25	0	19.04		4
	25	12	19.03		4
	25	25	19.04		4
	50	0	19.01		4

Table 10-18

LTE Band 13 Ant A Measured P_{Max} for RSI = 1 (Open – Head) - 10 MHz Bandwidth

LTE Band 13 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23230.0 (782.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	24.15	0	0
	1	25	24.03		0
	1	49	23.96		0
	25	0	22.61	0-1	1
	25	12	22.60		1
	25	25	22.55		1
16QAM	50	0	22.57	0-1	1
	1	0	22.86		1
	1	25	22.74		1
	1	49	22.82	0-2	1
	25	0	21.62		2
	25	12	21.54		2
64QAM	25	25	21.69	0-2	2
	50	0	21.55		2
	1	0	21.79	0-2	2
	1	25	21.86		2
	1	49	21.71		2
	25	0	20.61	0-3	3
256QAM	25	12	20.54		3
	25	25	20.57		3
	50	0	20.59	0-5	3
	1	0	19.32		5
	1	25	19.19		5
	1	49	19.20	0-5	5
	25	0	19.16		5
	25	12	19.13		5
	25	25	19.07		5
	50	0	19.15		5

Table 10-19

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LTE Band 13 Ant A Measured P_{Limit} for RSI = 3/4 (Closed – Free/Hotspot) - 10 MHz Bandwidth

LTE Band 13 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23230.0 (782.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	23.18	0	0
	1	25	23.17		0
	1	49	23.09		0
	25	0	22.46	0-1	0.5
	25	12	22.44		0.5
	25	25	22.39		0.5
	50	0	22.42		0.5
16QAM	1	0	22.59	0-1	0.5
	1	25	22.28		0.5
	1	49	22.29		0.5
	25	0	21.57	0-2	1.5
	25	12	21.54		1.5
	25	25	21.49		1.5
	50	0	21.40		1.5
64QAM	1	0	21.80	0-2	1.5
	1	25	21.73		1.5
	1	49	21.68		1.5
	25	0	20.46	0-3	2.5
	25	12	20.41		2.5
	25	25	20.39		2.5
	50	0	20.26		2.5
256QAM	1	0	19.23	0-5	4.5
	1	25	19.06		4.5
	1	49	19.03		4.5
	25	0	19.13		4.5
	25	12	19.15		4.5
	25	25	19.07		4.5
	50	0	18.88		4.5

Table 10-20

LTE Band 13 Ant E Measured P_{Limit} for RSI = 0/2 (Open – Free/Hotspot) - 10 MHz Bandwidth

LTE Band 13 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23230.0 (782.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	20.83	0	0
	1	25	20.68		0
	1	49	20.67		0
	25	0	21.09	0-1	0
	25	12	21.06		0
	25	25	21.02		0
	50	0	20.82		0
16QAM	1	0	21.25	0-1	0
	1	25	21.06		0
	1	49	20.99		0
	25	0	21.14	0-2	0
	25	12	21.11		0
	25	25	21.07		0
	50	0	21.13		0
64QAM	1	0	21.19	0-2	0
	1	25	21.10		0
	1	49	21.08		0
	25	0	20.77	0-3	0
	25	12	20.76		0
	25	25	20.71		0
	50	0	20.89		0
256QAM	1	0	19.54	0-5	1.5
	1	25	19.37		1.5
	1	49	19.43		1.5
	25	0	19.36		1.5
	25	12	19.34		1.5
	25	25	19.28		1.5
	50	0	19.52		1.5

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Table 10-21
LTE Band 13 Ant E Measured P_{Limit} for RSI = 1 (Open – Head) - 10 MHz Bandwidth

LTE Band 13 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23230.0 (782.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	20.16	0	0
	1	25	20.08		0
	1	49	20.04		0
	25	0	20.07	0-1	0
	25	12	20.09		0
	25	25	20.02		0
	50	0	20.05		0
16QAM	1	0	20.15	0-1	0
	1	25	20.04		0
	1	49	20.05		0
	25	0	20.12	0-2	0
	25	12	20.09		0
	25	25	20.07		0
	50	0	20.03		0
64QAM	1	0	20.49	0-2	0
	1	25	20.40		0
	1	49	20.43		0
	25	0	20.21	0-3	0
	25	12	20.17		0
	25	25	20.15		0
	50	0	20.01		0
256QAM	1	0	19.47	0-5	1
	1	25	19.31		1
	1	49	19.37		1
	25	0	19.29		1
	25	12	19.28		1
	25	25	19.25		1
	50	0	19.49		1

Table 10-22
LTE Band 13 Ant E Measured P_{Limit} for RSI = 3/4 (Closed – Free/Hotspot) - 10 MHz Bandwidth

LTE Band 13 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			23230.0 (782.0 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	21.39	0	0
	1	25	21.38		0
	1	49	21.26		0
	25	0	21.15	0-1	0
	25	12	21.09		0
	25	25	21.06		0
	50	0	21.08		0
16QAM	1	0	21.10	0-1	0
	1	25	20.99		0
	1	49	21.05		0
	25	0	21.31	0-2	0
	25	12	21.30		0
	25	25	21.26		0
	50	0	21.09		0
64QAM	1	0	21.15	0-2	0
	1	25	21.07		0
	1	49	21.06		0
	25	0	20.82	0-3	0
	25	12	20.83		0
	25	25	20.79		0
	50	0	20.94		0
256QAM	1	0	19.71	0-5	2
	1	25	19.56		2
	1	49	19.61		2
	25	0	19.26		2
	25	12	19.19		2
	25	25	19.23		2
	50	0	19.25		2

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10.3.3 LTE Band 26

Table 10-23
LTE Band 26 Ant A Measured P_{Limit} for RSI = 0/2 (Open – Free/Hotspot) - 20 MHz Bandwidth

LTE Band 26 15 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26865.0 (831.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	21.27	0	0
	1	36	21.24		0
	1	74	21.21		0
	36	0	21.25	0-1	0
	36	18	21.18		0
	36	37	21.18		0
	75	0	21.20		0
16QAM	1	0	21.48	0-1	0
	1	36	21.47		0
	1	74	21.44		0
	36	0	21.30	0-2	0
	36	18	21.29		0
	36	37	21.26		0
	75	0	21.20		0
64QAM	1	0	21.39	0-2	0
	1	36	21.43		0
	1	74	21.37		0
	36	0	21.14	0-3	0
	36	18	21.15		0
	36	37	21.14		0
	75	0	21.12		0
256QAM	1	0	19.43	0-5	2
	1	36	19.40		2
	1	74	19.36		2
	36	0	19.14		2
	36	18	19.10		2
	36	37	19.11		2
	75	0	19.10		2

Table 10-24
LTE Band 26 Ant A Measured P_{Max} for RSI = 1 (Open – Head) - 20 MHz Bandwidth

LTE Band 26 15 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26865.0 (831.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	24.05	0	0
	1	36	24.06		0
	1	74	24.01		0
	36	0	23.14	0-1	1
	36	18	23.07		1
	36	37	23.05		1
	75	0	23.06		1
16QAM	1	0	23.19	0-1	1
	1	36	23.29		1
	1	74	23.22		1
	36	0	22.01	0-2	2
	36	18	22.00		2
	36	37	21.96		2
	75	0	22.07		2
64QAM	1	0	22.58	0-2	2
	1	36	22.70		2
	1	74	22.65		2
	36	0	21.15	0-3	3
	36	18	21.12		3
	36	37	21.05		3
	75	0	21.03		3
256QAM	1	0	19.27	0-5	5
	1	36	19.24		5
	1	74	19.21		5
	36	0	19.11		5
	36	18	19.10		5
	36	37	19.08		5
	75	0	19.03		5

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Table 10-25
LTE Band 26 Ant A Measured P_{Limit} for RSI = 3/4 (Closed – Free/Hotspot) - 20 MHz Bandwidth

LTE Band 26 15 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26865.0 (831.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	22.31	0	0
	1	36	22.29		0
	1	74	22.27		0
	36	0	22.37	0-1	0
	36	18	22.31		0
	36	37	22.28		0
	75	0	22.30		0
16QAM	1	0	22.41	0-1	0
	1	36	22.47		0
	1	74	22.44		0
	36	0	22.06	0-2	0
	36	18	22.07		0
	36	37	22.05		0
	75	0	22.03		0
64QAM	1	0	21.89	0-2	0
	1	36	21.96		0
	1	74	21.92		0
	36	0	21.07	0-3	1
	36	18	21.06		1
	36	37	21.04		1
	75	0	21.00		1
256QAM	1	0	19.04	0-5	3
	1	36	19.05		3
	1	74	19.02		3
	36	0	19.06		3
	36	18	19.04		3
	36	37	19.02		3
	75	0	19.07		3

Table 10-26
LTE Band 26 Ant E Measured P_{Limit} for RSI = 0/2 (Open – Free/Hotspot) - 20 MHz Bandwidth

LTE Band 26 15 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26865.0 (831.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	22.99	0	0
	1	36	22.85		0
	1	74	22.76		0
	36	0	22.91	0-1	0
	36	18	22.82		0
	36	37	22.78		0
	75	0	22.85		0
16QAM	1	0	22.93	0-1	0
	1	36	23.00		0
	1	74	22.99		0
	36	0	22.59	0-2	0.5
	36	18	22.57		0.5
	36	37	22.46		0.5
	75	0	22.46		0.5
64QAM	1	0	22.55	0-2	0.5
	1	36	22.50		0.5
	1	74	22.48		0.5
	36	0	21.63	0-3	1.5
	36	18	21.63		1.5
	36	37	21.57		1.5
	75	0	21.64		1.5
256QAM	1	0	19.72	0-5	3.5
	1	36	19.71		3.5
	1	74	19.61		3.5
	36	0	19.62		3.5
	36	18	19.64		3.5
	36	37	19.56		3.5
	75	0	19.63		3.5

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Table 10-27
LTE Band 26 Ant E Measured P_{Limit} for RSI = 1 (Open – Head) - 20 MHz Bandwidth

LTE Band 26 15 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26865.0 (831.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	21.77	0	0
	1	36	21.52		0
	1	74	21.79		0
	36	0	21.71	0-1	0
	36	18	21.61		0
	36	37	21.51		0
	75	0	21.56		0
16QAM	1	0	21.67	0-1	0
	1	36	21.61		0
	1	74	21.50		0
	36	0	21.55	0-2	0
	36	18	21.52		0
	36	37	21.50		0
	75	0	21.50		0
64QAM	1	0	21.61	0-2	0
	1	36	21.65		0
	1	74	21.62		0
	36	0	21.33	0-3	0.5
	36	18	21.35		0.5
	36	37	21.28		0.5
	75	0	21.31		0.5
256QAM	1	0	19.73	0-5	2.5
	1	36	19.65		2.5
	1	74	19.50		2.5
	36	0	19.64		2.5
	36	18	19.61		2.5
	36	37	19.56		2.5
	75	0	19.59		2.5

Table 10-28
LTE Band 26 Ant E Measured P_{Limit} for RSI = 3/4 (Closed – Free/Hotspot) - 20 MHz Bandwidth

LTE Band 26 15 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26865.0 (831.5 MHz)		
			Conducted Power [dBm]		
QPSK	1	0	23.36	0	0
	1	36	23.21		0
	1	74	23.15		0
	36	0	23.30	0-1	0
	36	18	23.18		0
	36	37	23.21		0
	75	0	23.21		0
16QAM	1	0	23.34	0-1	0
	1	36	23.21		0
	1	74	23.18		0
	36	0	22.91	0-2	1
	36	18	22.46		1
	36	37	22.38		1
	75	0	22.50		1
64QAM	1	0	22.97	0-2	1
	1	36	22.88		1
	1	74	22.83		1
	36	0	21.55	0-3	2
	36	18	21.53		2
	36	37	21.49		2
	75	0	21.44		2
256QAM	1	0	19.64	0-5	4
	1	36	19.61		4
	1	74	19.45		4
	36	0	19.54		4
	36	18	19.51		4
	36	37	19.47		4
	75	0	19.52		4

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10.3.4 LTE Band 66

Table 10-29
LTE Band 66 (AWS) Ant B Measured P_{Limit} for RSI = 0/2 (Open – Free/Hotspot) - 20 MHz Bandwidth

LTE Band 66							
20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			132072.0 (1720.0 MHz)	132322.0 (1745.0 MHz)	132572.0 (1770.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	18.65	18.77	18.71	0	0
	1	50	18.61	18.75	18.75		0
	1	99	18.70	18.68	18.84		0
	50	0	18.68	18.73	18.73	0-1	0
	50	25	18.71	18.77	18.78		0
	50	50	18.73	18.73	18.80		0
	100	0	18.75	18.78	18.79		0
16QAM	1	0	19.09	18.83	19.00	0-1	0
	1	50	19.10	18.85	19.04		0
	1	99	19.12	18.79	19.11		0
	50	0	18.59	18.77	18.73	0-2	0
	50	25	18.61	18.80	18.76		0
	50	50	18.62	18.77	18.78		0
	100	0	18.68	18.81	18.78		0
64QAM	1	0	18.76	19.15	19.02	0-2	0
	1	50	18.76	19.14	19.08		0
	1	99	18.83	19.11	19.13		0
	50	0	18.67	18.79	18.76	0-3	0
	50	25	18.69	18.81	18.77		0
	50	50	18.70	18.78	18.80		0
	100	0	18.73	18.78	18.74		0
256QAM	1	0	18.59	18.86	18.81	0-5	0
	1	50	18.63	18.88	18.88		0
	1	99	18.67	18.84	18.93		0
	50	0	18.65	18.76	18.69		0
	50	25	18.68	18.78	18.73		0
	50	50	18.69	18.74	18.75		0
	100	0	18.68	18.77	18.70		0

Table 10-30
LTE Band 66 (AWS) Ant B Measured P_{Max} for RSI = 1 (Open –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	24.08	24.06	24.02	0	0
	1	50	24.07	24.11	24.05		0
	1	99	24.10	24.07	24.06		0
	50	0	23.03	23.13	23.08	0-1	1
	50	25	23.06	23.14	23.11		1
	50	50	23.07	23.10	23.12		1
	100	0	23.06	23.12	23.11		1
16QAM	1	0	23.30	23.57	23.13	0-1	1
	1	50	23.31	23.58	23.16		1
	1	99	23.40	23.50	23.23		1
	50	0	21.99	22.07	22.11	0-2	2
	50	25	22.02	22.08	22.15		2
	50	50	22.02	22.04	22.16		2
	100	0	22.03	22.13	22.10		2
64QAM	1	0	22.31	22.20	22.65	0-2	2
	1	50	22.33	22.20	22.66		2
	1	99	22.40	22.16	22.74		2
	50	0	20.98	21.05	21.04	0-3	3
	50	25	21.02	21.06	21.06		3
	50	50	21.05	21.02	21.07		3
	100	0	21.03	21.06	21.01		3
256QAM	1	0	19.11	19.00	19.02	0-5	5
	1	50	19.10	19.04	19.14		5
	1	99	19.14	18.97	19.25		5
	50	0	18.92	19.08	19.02		5
	50	25	18.94	19.09	19.05		5
	50	50	18.96	19.06	19.08		5
	100	0	18.96	19.11	19.05		5

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Table 10-31
LTE Band 66 (AWS) Ant B Measured P_{Limit} for RSI = 3/4 (Closed – Free/Hotspot) - 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	19.74	19.96	19.91	0	0
	1	50	19.63	20.00	19.96		0
	1	99	19.71	19.95	19.91		0
	50	0	19.72	19.92	19.94	0-1	0
	50	25	19.72	19.97	19.95		0
	50	50	19.73	19.93	19.93		0
	100	0	19.72	19.95	19.95	0	
16QAM	1	0	20.13	20.24	20.36	0-1	0
	1	50	20.12	20.31	20.39		0
	1	99	20.17	20.27	20.36		0
	50	0	19.70	19.89	19.97	0-2	0
	50	25	19.70	19.90	20.03		0
	50	50	19.69	19.91	19.99		0
	100	0	19.72	19.91	19.99	0	
64QAM	1	0	20.11	19.34	20.33	0-2	0
	1	50	20.11	19.40	20.40		0
	1	99	19.76	19.36	20.39		0
	50	0	19.31	19.39	19.40	0-3	0
	50	25	19.22	19.38	19.41		0
	50	50	19.22	19.41	19.42		0
	100	0	19.17	19.34	19.49	0	
256QAM	1	0	18.95	19.13	18.41	0-5	1
	1	50	19.04	19.17	18.54		1
	1	99	19.05	19.20	19.26		1
	50	0	18.88	18.91	19.19		1
	50	25	18.92	18.93	19.28		1
	50	50	18.92	18.93	19.28		1
	100	0	18.89	19.01	19.27		1

Table 10-32
LTE Band 66 (AWS) Ant H Measured P_{Limit} for RSI = 0/2 (Open – Free/Hotspot) - 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	20.60	20.52	20.68	0	0
	1	50	20.51	20.49	20.63		0
	1	99	20.53	20.60	20.69		0
	50	0	20.71	20.58	20.60	0-1	0
	50	25	20.70	20.56	20.66		0
	50	50	20.63	20.65	20.62		0
16QAM	100	0	20.67	20.57	20.68	0-1	0
	1	0	20.86	20.55	20.89		0
	1	50	20.87	20.51	20.90		0
	1	99	20.84	20.65	20.92	0-2	0
	50	0	20.58	20.44	20.45		0
	50	25	20.59	20.43	20.48		0
64QAM	50	50	20.52	20.49	20.44	0-2	0
	100	0	20.60	20.41	20.52		0
	1	0	20.83	20.41	20.63		0-2
	1	50	20.78	20.38	20.60	0	
	1	99	20.72	20.49	20.61	0-3	
	50	0	20.65	20.50	20.58		0
256QAM	50	25	20.66	20.52	20.60		0-5
	50	50	20.56	20.56	20.56	0	
	100	0	20.63	20.49	20.62	0	
	1	0	19.54	19.19	19.53	0-5	1
	1	50	19.46	19.20	19.48		1
	1	99	19.50	19.33	19.45		1
50	0	19.44	19.29	19.40	1		
50	25	19.44	19.30	19.38	1		
50	50	19.34	19.37	19.30	1		
100	0	19.43	19.29	19.36	1		

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Table 10-33
LTE Band 66 (AWS) Ant H Measured P_{Limit} for RSI = 1 (Open – 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	18.67	18.49	18.64	0	0
	1	50	18.61	18.39	18.60		0
	1	99	18.60	18.53	18.64		0
	50	0	18.70	18.55	18.62	0-1	0
	50	25	18.68	18.56	18.64		0
	50	50	18.61	18.58	18.62		0
16QAM	100	0	18.65	18.54	18.62	0-1	0
	1	0	18.94	18.67	18.87		0
	1	50	18.85	18.64	18.81		0
	1	99	18.83	18.77	18.82	0-2	0
	50	0	18.69	18.55	18.58		0
	50	25	18.66	18.54	18.57		0
	50	50	18.59	18.62	18.55	0	
	100	0	18.72	18.53	18.65	0	
64QAM	1	0	18.68	18.67	18.58	0-2	0
	1	50	18.60	18.68	18.54		0
	1	99	18.55	18.75	18.52		0
	50	0	18.77	18.54	18.65	0-3	0
	50	25	18.76	18.53	18.65		0
	50	50	18.66	18.61	18.59		0
256QAM	100	0	18.74	18.52	18.64	0-5	0
	1	0	18.81	18.58	18.53		0
	1	50	18.75	18.59	18.50		0
	1	99	18.69	18.75	18.51	0-5	0
	50	0	18.68	18.53	18.60		0
	50	25	18.65	18.54	18.60		0
	50	50	18.59	18.59	18.54		0
	100	0	18.64	18.53	18.62		0

Table 10-34
LTE Band 66 (AWS) Ant H Measured P_{Limit} for RSI = 3/4 (Closed – Free/Hotspot) - 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	21.16	20.99	21.11	0	0
	1	50	21.17	20.93	21.05		0
	1	99	21.01	21.06	21.12		0
	50	0	21.24	20.99	21.07	0-1	0
	50	25	21.26	21.02	21.08		0
	50	50	21.13	21.05	21.02		0
	100	0	21.15	21.01	21.09		0
16QAM	1	0	21.30	21.39	21.44	0-1	0
	1	50	21.21	21.37	21.38		0
	1	99	21.19	21.50	21.38		0
	50	0	21.15	20.94	21.05	0-2	0
	50	25	21.16	20.94	21.07		0
	50	50	21.07	21.00	21.01		0
	100	0	21.14	21.03	21.10		0
64QAM	1	0	21.34	20.92	21.15	0-2	0
	1	50	21.29	20.91	21.11		0
	1	99	21.23	21.03	21.12		0
	50	0	21.15	21.04	21.12	0-3	0
	50	25	21.13	21.02	21.21		0
	50	50	21.06	21.11	21.06		0
	100	0	21.13	21.03	21.12		0
256QAM	1	0	19.55	19.19	19.48	0-5	1.5
	1	50	19.44	19.14	19.38		1.5
	1	99	19.41	19.25	19.37		1.5
	50	0	19.39	19.24	19.30		1.5
	50	25	19.38	19.25	19.29		1.5
	50	50	19.34	19.32	19.26		1.5
	100	0	19.45	19.27	19.31		1.5

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10.3.5 LTE Band 25

Table 10-35
LTE Band 25 (PCS) Ant B Measured P_{Limit} for RSI = 0/2 (Open – Free/Hotspot) - 20 MHz Bandwidth

LTE Band 25 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26140.0 (1860.0 MHz)	26365.0 (1882.5 MHz)	26590.0 (1905.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	17.29	17.39	17.55	0	0
	1	50	17.27	17.35	17.57		0
	1	99	17.38	17.47	17.58		0
	50	0	17.34	17.36	17.50		0
	50	25	17.36	17.37	17.53	0-1	0
	50	50	17.41	17.38	17.54		0
	100	0	17.36	17.37	17.52		0
16QAM	1	0	17.36	17.32	17.76	0-1	0
	1	50	17.38	17.27	17.70		0
	1	99	17.44	17.40	17.79		0
	50	0	17.28	17.34	17.46		0
	50	25	17.27	17.35	17.47	0-2	0
	50	50	17.33	17.41	17.50		0
	100	0	17.33	17.34	17.49		0
64QAM	1	0	17.73	17.48	17.84	0-2	0
	1	50	17.76	17.35	17.73		0
	1	99	17.77	17.57	17.88		0
	50	0	17.36	17.33	17.50		0-3
	50	25	17.35	17.32	17.52	0	
	50	50	17.39	17.37	17.56	0	
	100	0	17.34	17.36	17.53	0	
256QAM	1	0	17.62	17.67	17.90	0-5	0
	1	50	17.59	17.65	17.76		0
	1	99	17.67	17.76	17.97		0
	50	0	17.41	17.39	17.55		0
	50	25	17.41	17.36	17.53	0	
	50	50	17.48	17.40	17.56	0	
	100	0	17.43	17.37	17.57	0	

Table 10-36
LTE Band 25 (PCS) Ant B Measured P_{Limit} for RSI = 1 (Open – Head) - 20 MHz Bandwidth

LTE Band 25 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]		
			26140.0 (1860.0 MHz)	26365.0 (1882.5 MHz)	26590.0 (1905.0 MHz)				
			Conducted Power [dBm]						
QPSK	1	0	23.78	23.55	23.87	0	0		
	1	50	23.78	23.50	23.79		0		
	1	99	23.82	23.74	23.93		0		
	50	0	22.25	22.18	22.32	0-1	1		
	50	25	22.27	22.17	22.35		1		
	50	50	22.25	22.22	22.41		1		
	100	0	22.26	22.20	22.38		1		
16QAM	1	0	22.69	22.25	22.64	0-1	1		
	1	50	22.67	22.19	22.62		1		
	1	99	22.71	22.41	22.71		1		
	50	0	21.18	21.22	21.34	0-2	2		
	50	25	21.20	21.20	21.34		2		
50	50	21.20	21.21	21.38	2				
64QAM	100	0	21.25	21.18	21.36	0-2	2		
	1	0	21.35	21.79	21.69		2		
	1	50	21.35	21.75	21.67		2		
	1	99	21.36	21.94	21.77	0-3	2		
	50	0	20.19	20.19	20.36		3		
	50	25	20.22	20.15	20.35		3		
	50	50	20.23	20.16	20.38		3		
	100	0	20.23	20.13	20.30		3		
	256QAM	1	0	18.58	18.68		18.86	0-5	5
	1	50	18.60	18.64	18.83		5		
1	99	18.67	18.87	19.00	5				
50	0	18.66	18.59	18.75	5				
50	25	18.68	18.58	18.74	5				
50	50	18.66	18.62	18.79	5				
	100	0	18.68	18.57	18.74	5			

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Table 10-37
LTE Band 25 (PCS) Ant B Measured P_{Limit} for RSI = 3/4 (Closed – Free/Hotspot) - 20 MHz Bandwidth

LTE Band 25							
20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26140.0 (1860.0 MHz)	26365.0 (1882.5 MHz)	26590.0 (1905.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	18.86	18.87	18.96	0	0
	1	50	18.89	18.88	18.85		0
	1	99	19.00	18.98	18.97		0
	50	0	18.95	18.96	18.96	0-1	0
	50	25	18.96	18.96	18.95		0
	50	50	19.02	18.97	18.97		0
	100	0	18.92	18.98	18.97		0
16QAM	1	0	19.26	19.18	19.44	0-1	0
	1	50	19.27	19.09	19.34		0
	1	99	19.40	19.26	19.40		0
	50	0	18.91	19.05	18.96	0-2	0
	50	25	18.96	18.98	18.92		0
	50	50	19.04	19.00	18.88		0
	100	0	18.92	19.01	19.00		0
64QAM	1	0	18.96	19.22	18.97	0-2	0
	1	50	19.00	19.19	18.87		0
	1	99	19.12	19.23	18.91		0
	50	0	18.95	18.94	19.01	0-3	0
	50	25	18.99	18.94	18.96		0
	50	50	19.06	18.98	18.94		0
	100	0	18.98	18.94	18.96		0
256QAM	1	0	18.83	18.87	18.71	0-5	0.5
	1	50	18.82	18.81	18.68		0.5
	1	99	18.94	18.99	18.72		0.5
	50	0	18.66	18.73	18.76		0.5
	50	25	18.67	18.72	18.74		0.5
	50	50	18.75	18.75	18.77		0.5
	100	0	18.65	18.74	18.76		0.5

Table 10-38
**LTE Band 25 (PCS) Ant H Measured P_{Limit} for RSI = 0/2 (Open – Free/Hotspot),
 RSI = 3/4 (Closed – Free/Hotspot) - 20 MHz Bandwidth**

LTE Band 25 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26140.0 (1860.0 MHz)	26365.0 (1882.5 MHz)	26590.0 (1905.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	20.40	20.11	20.03	0	0
	1	50	20.29	20.25	20.17		0
	1	99	20.29	20.21	20.10		0
	50	0	20.37	20.10	20.24	0-1	0
	50	25	20.34	20.05	20.15		0
	50	50	20.32	20.24	20.09		0
	100	0	20.35	20.06	20.14		0
16QAM	1	0	20.86	20.26	20.27	0-1	0
	1	50	20.59	20.04	20.16		0
	1	99	20.75	20.10	20.06		0
	50	0	20.32	20.15	19.99	0-2	0
	50	25	20.32	20.09	19.90		0
	50	50	20.29	20.02	19.79		0
	100	0	20.37	20.06	19.91		0
64QAM	1	0	20.49	20.53	20.29	0-2	0
	1	50	20.37	20.59	20.22		0
	1	99	20.39	20.56	20.09		0
	50	0	20.31	20.14	20.06	0-3	0
	50	25	20.31	20.09	19.96		0
	50	50	20.30	20.01	19.85		0
	100	0	20.32	20.06	19.90		0
256QAM	1	0	19.09	19.03	18.79	0-5	1.5
	1	50	18.99	18.91	18.77		1.5
	1	99	18.99	18.90	18.63		1.5
	50	0	18.97	18.86	18.73		1.5
	50	25	18.96	18.78	18.63		1.5
	50	50	18.97	18.67	18.49		1.5
	100	0	19.00	18.78	18.57		1.5

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Table 10-39
LTE Band 25 (PCS) Ant H Measured P_{Limit} for RSI = 1 (Open – Head) - 20 MHz Bandwidth

LTE Band 25							
20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel	Mid Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			26140.0 (1860.0 MHz)	26365.0 (1882.5 MHz)	26590.0 (1905.0 MHz)		
			Conducted Power [dBm]				
QPSK	1	0	19.00	18.64	18.53	0	0
	1	50	18.92	18.52	18.60		0
	1	99	18.80	18.55	18.59		0
	50	0	18.86	18.61	18.60	0-1	0
	50	25	18.85	18.58	18.54		0
	50	50	18.79	18.53	18.51		0
	100	0	18.84	18.60	18.57		0
16QAM	1	0	19.20	19.12	18.58	0-1	0
	1	50	19.10	19.01	18.47		0
	1	99	19.11	18.95	18.39		0
	50	0	18.85	18.59	18.53	0-2	0
	50	25	18.83	18.55	18.45		0
	50	50	18.80	18.49	18.37		0
	100	0	18.85	18.60	18.41		0
64QAM	1	0	19.23	18.82	19.00	0-2	0
	1	50	19.11	18.68	18.99		0
	1	99	19.12	18.66	18.90		0
	50	0	18.89	18.66	18.54	0-3	0
	50	25	18.86	18.60	18.45		0
	50	50	18.85	18.53	18.37		0
	100	0	18.84	18.60	18.41		0
256QAM	1	0	18.94	18.59	18.52	0-5	0
	1	50	18.83	18.43	18.43		0
	1	99	18.87	18.43	18.34		0
	50	0	18.70	18.56	18.41		0
	50	25	18.70	18.48	18.30		0
	50	50	18.71	18.40	18.17		0
	100	0	18.71	18.50	18.28		0

10.3.6 LTE Band 41

Table 10-40
LTE Band 41 Ant B PC3 Measured P_{Limit} for RSI = 0/2 (Open – Free/Hotspot) - 20 MHz Bandwidth

LTE Band 41 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750.0 (2506.0 MHz)	40185.0 (2549.5 MHz)	40620.0 (2593.0 MHz)	41055.0 (2636.5 MHz)	41490.0 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	19.67	19.21	19.10	20.02	19.46	0	0
	1	50	19.68	19.16	19.15	19.80	19.24		0
	1	99	19.65	19.26	19.37	19.78	19.24		0
	50	0	19.67	19.26	19.11	19.80	19.39	0-1	0
	50	25	19.66	19.27	19.11	19.79	19.33		0
	50	50	19.65	19.30	19.21	19.75	19.30		0
	100	0	19.66	19.29	19.10	19.79	19.34		0
16QAM	1	0	19.52	18.84	18.70	19.73	19.05	0-1	0
	1	50	19.40	18.86	18.67	19.57	18.93		0
	1	99	19.46	18.95	19.04	19.60	18.91		0
	50	0	19.64	19.20	18.99	19.73	19.35	0-2	0
	50	25	19.60	19.25	18.98	19.67	19.30		0
	50	50	19.58	19.25	19.11	19.67	19.23		0
	100	0	19.62	19.23	19.03	19.73	19.25		0
64QAM	1	0	19.55	19.33	19.28	19.76	19.49	0-2	0
	1	50	19.43	19.32	19.20	19.64	19.35		0
	1	99	19.47	19.43	19.57	19.64	19.34		0
	50	0	19.58	19.26	19.07	19.73	19.35	0-3	0
	50	25	19.56	19.29	19.05	19.71	19.29		0
	50	50	19.53	19.33	19.16	19.68	19.25		0
	100	0	19.58	19.29	19.07	19.75	19.31		0
256QAM	1	0	18.64	18.61	18.30	18.96	18.78	0-5	1
	1	50	18.56	18.60	18.27	18.77	18.64		1
	1	99	18.61	18.77	18.66	18.83	18.63		1
	50	0	18.74	18.37	18.20	18.97	18.48		1
	50	25	18.73	18.40	18.23	18.94	18.45		1
	50	50	18.72	18.44	18.34	18.93	18.41		1
	100	0	18.74	18.45	18.23	18.96	18.47		1

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Table 10-41
LTE Band 41 Ant B PC2 Measured P_{Limit} for RSI = 0/2 (Open – Free/Hotspot) - 20 MHz Bandwidth

LTE Band 41 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750.0 (2506.0 MHz)	40185.0 (2549.5 MHz)	40620.0 (2593.0 MHz)	41055.0 (2636.5 MHz)	41490.0 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	21.39	21.05	20.86	21.81	21.29	0	0
	1	50	21.35	21.01	20.65	21.59	21.03		0
	1	99	21.34	21.12	21.10	21.57	21.02		0
	50	0	21.33	21.00	20.82	21.41	21.10	0-1	0
	50	25	21.30	21.00	20.81	21.40	20.99		0
	50	50	21.28	21.04	20.90	21.38	20.96		0
	100	0	21.30	21.02	20.83	21.40	21.04		0

Table 10-42
LTE Band 41 PC3 Ant B Measured P_{Max} for RSI = 1 (Open – 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	23.90	23.48	23.21	24.04	23.68	0	0
	1	50	23.74	23.48	23.15	23.91	23.54		0
	1	99	23.74	23.58	23.57	23.92	23.54		0
	50	0	22.79	22.45	22.27	22.97	22.54	0-1	1
	50	25	22.73	22.46	22.24	22.95	22.49		1
	50	50	22.71	22.48	22.38	22.94	22.43		1
16QAM	100	0	22.72	22.44	22.26	22.96	22.50	0-1	1
	1	0	22.36	22.30	21.85	22.66	22.48		1
	1	50	22.35	22.27	21.83	22.54	22.31		1
	1	99	22.33	22.38	22.20	22.56	22.31	0-2	1
	50	0	21.65	21.38	21.27	21.88	21.47		2
	50	25	21.61	21.39	21.27	21.86	21.40		2
	50	50	21.60	21.45	21.39	21.84	21.36		2
	100	0	21.67	21.43	21.26	21.95	21.44		2
64QAM	1	0	21.90	21.35	21.40	22.28	21.51	0-2	2
	1	50	21.84	21.32	21.36	22.17	21.36		2
	1	99	21.84	21.44	21.74	22.16	21.36		2
	50	0	20.69	20.34	20.26	20.92	20.43	0-3	3
	50	25	20.67	20.41	20.28	20.91	20.40		3
	50	50	20.66	20.46	20.37	20.89	20.35		3
	100	0	20.71	20.46	20.28	20.91	20.46		3
	256QAM	1	0	18.82	18.38	18.50	19.14		18.53
1		50	18.76	18.28	18.45	19.01	18.33	5	
1		99	18.76	18.40	18.83	19.01	18.35	5	
50		0	18.73	18.37	18.23	18.95	18.49	5	
50		25	18.67	18.38	18.23	18.92	18.43	5	
50		50	18.67	18.43	18.34	18.86	18.38	5	
100		0	18.70	18.40	18.23	18.91	18.44	5	

Table 10-43
LTE Band 41 PC2 Ant B Measured P_{Max} for RSI = 1 (Open – 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	24.88	24.49	24.21	25.16	24.65	0	0
	1	50	24.81	24.47	24.12	25.04	24.48		0
	1	99	24.82	24.60	24.56	25.05	24.49		0
	50	0	23.74	23.40	23.23	23.95	23.46	0-1	1
	50	25	23.75	23.43	23.23	23.93	23.43		1
	50	50	23.72	23.49	23.31	23.90	23.38		1
	100	0	23.73	23.45	23.21	23.91	23.42		1

Table 10-44
LTE Band 41 PC3 Ant B Measured P_{Limit} for RSI = 3/4 (Closed – Free/Hotspot) - 20 MHz Bandwidth

LTE Band 41 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			39750.0 (2506.0 MHz)	40185.0 (2549.5 MHz)	40620.0 (2593.0 MHz)	41055.0 (2636.5 MHz)	41490.0 (2680.0 MHz)		
			Conducted Power [dBm]						
QPSK	1	0	21.85	21.53	21.19	22.00	21.56	0	0
	1	50	21.52	21.38	21.04	21.80	21.43		0
	1	99	21.56	21.49	21.46	21.83	21.44		0
	50	0	21.65	21.35	21.14	21.93	21.47	0-1	0
	50	25	21.60	21.35	21.12	21.91	21.41		0
	50	50	21.61	21.40	21.29	21.89	21.37		0
	100	0	21.62	21.35	21.18	21.92	21.46		0
16QAM	1	0	21.26	21.26	21.06	21.67	21.49	0-1	0
	1	50	21.23	21.22	20.99	21.53	21.29		0
	1	99	21.21	21.34	21.16	21.53	21.30		0
	50	0	21.68	21.31	21.20	21.88	21.44	0-2	0
	50	25	21.64	21.31	21.21	21.84	21.39		0
	50	50	21.63	21.37	21.33	21.82	21.34		0
	100	0	21.61	21.36	21.19	21.89	21.40		0
64QAM	1	0	21.76	21.27	21.29	22.23	21.47	0-2	0
	1	50	21.70	21.24	21.28	22.10	21.28		0
	1	99	21.72	21.36	21.64	22.12	21.29		0
	50	0	20.76	20.36	20.27	20.99	20.49	0-3	1
	50	25	20.73	20.40	20.28	20.97	20.48		1
	50	50	20.71	20.41	20.41	20.95	20.43		1
	100	0	20.74	20.43	20.33	20.99	20.53		1
256QAM	1	0	19.00	18.36	18.53	19.22	18.59	0-5	3
	1	50	18.93	18.30	18.45	19.07	18.39		3
	1	99	18.96	18.44	18.82	19.06	18.38		3
	50	0	18.77	18.43	18.22	19.00	18.56		3
	50	25	18.76	18.42	18.23	18.95	18.48		3
	50	50	18.74	18.47	18.36	18.91	18.44		3
	100	0	18.76	18.44	18.25	18.97	18.48		3

Table 10-45
LTE Band 41 PC2 Ant B Measured P_{Limit} for RSI = 3/4 (Closed – Free/Hotspot) - 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	23.42	23.25	22.99	23.11	23.20	0	0
	1	50	23.29	23.42	23.05	23.08	23.31		0
	1	99	23.47	23.35	23.07	23.34	23.37		0
	50	0	22.54	22.55	22.30	22.34	22.53	0-1	0
	50	25	22.56	22.60	22.36	22.41	22.63		0
	50	50	22.60	22.58	22.31	22.47	22.68		0
	100	0	22.59	22.58	22.29	22.42	22.60		0

Table 10-46
LTE Band 41 PC3 Ant H Measured P_{Limit} for RSI = 0/2 (Open – Free/Hotspot),
RSI = 3/4 (Closed – Free/Hotspot) - 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	20.31	20.65	20.22	20.11	20.08	0	0
	1	50	20.20	20.39	20.10	20.02	20.36		0
	1	99	20.33	20.43	20.10	20.01	20.29		0
	50	0	20.33	20.50	20.14	20.14	20.19	0-1	0
	50	25	20.33	20.46	20.01	20.13	20.31		0
	50	50	20.38	20.42	20.06	20.14	20.30		0
16QAM	100	0	20.35	20.49	20.02	20.12	20.28	0-1	0
	1	0	19.94	20.38	19.82	19.78	19.91		0
	1	50	19.91	20.17	19.73	19.70	20.12		0
	1	99	20.00	20.21	19.72	19.62	20.02	0-2	0
	50	0	20.21	20.42	20.05	20.09	20.16		0
	50	25	20.18	20.33	19.89	20.08	20.25		0
64QAM	50	50	20.19	20.29	19.84	20.06	20.25	0-2	0
	100	0	20.26	20.38	19.89	20.05	20.25		0
	1	0	20.38	20.46	20.28	20.26	19.96		0-3
	1	50	20.37	20.25	19.96	20.16	20.18	0	
	1	99	20.51	20.28	19.95	20.09	20.09	0	
	50	0	20.21	20.40	20.03	20.10	20.14	0-5	2
50	25	20.21	20.36	19.92	20.09	20.26	2		
50	50	20.24	20.31	19.88	20.07	20.25	2		
256QAM	100	0	20.24	20.39	19.89	20.12	20.26	0-5	2
	1	0	18.47	18.59	18.55	18.52	18.10		2
	1	50	18.43	18.38	18.21	18.38	18.34		2
	1	99	18.57	18.45	18.22	18.36	18.22	0-5	2
	50	0	18.39	18.61	18.17	18.20	18.25		2
	50	25	18.37	18.53	18.02	18.18	18.36		2
	50	50	18.37	18.48	17.94	18.18	18.37		2
	100	0	18.35	18.53	18.00	18.17	18.35		2

Table 10-47
LTE Band 41 PC2 Ant H Measured P_{Limit} for RSI = 0/2 (Open – Free/Hotspot),
RSI = 3/4 (Closed – Free/Hotspot) - 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	22.04	22.31	22.06	22.08	22.08	0	0
	1	50	21.98	22.11	21.67	21.85	22.11		0
	1	99	22.16	22.18	21.63	21.77	21.98		0
	50	0	22.05	22.33	21.76	21.94	22.16	0-1	0
	50	25	22.01	22.26	21.63	21.87	22.23		0
	50	50	22.07	22.22	21.61	21.85	22.17		0
	100	0	22.05	22.28	21.62	21.85	22.21		0

Table 10-48
LTE Band 41 PC3 Ant H Measured P_{Limit} for RSI = 1 (Open – 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	18.11	18.13	17.87	17.93	18.00	0	0
	1	50	18.15	17.95	17.67	17.99	17.85		0
	1	99	18.09	17.97	17.79	18.24	17.86		0
	50	0	18.17	17.89	17.75	17.97	17.79	0-1	0
	50	25	18.19	17.86	17.72	18.05	17.77		0
	50	50	18.17	17.84	17.72	18.20	17.72		0
16QAM	100	0	18.16	17.88	17.70	18.07	17.80	0-1	0
	1	0	17.62	17.84	17.51	17.68	17.76		0
	1	50	17.62	17.56	17.34	17.72	17.48		0
	1	99	17.75	17.69	17.43	17.93	17.58	0-2	0
	50	0	17.76	17.80	17.72	17.87	17.70		0
	50	25	17.79	17.76	17.70	17.92	17.63		0
	50	50	17.87	17.75	17.69	18.05	17.62	0	
	100	0	17.86	17.80	17.64	18.00	17.70	0	
64QAM	1	0	17.93	17.85	17.88	18.07	17.76	0-2	0
	1	50	18.01	17.64	17.78	18.17	17.53		0
	1	99	18.16	17.74	17.88	18.36	17.62		0
	50	0	17.78	17.77	17.70	17.90	17.66	0-3	0
	50	25	17.81	17.72	17.67	17.98	17.62		0
	50	50	17.89	17.72	17.68	18.09	17.59		0
256QAM	100	0	17.85	17.78	17.66	17.99	17.69	0-5	0
	1	0	18.15	18.03	18.14	18.18	17.95		0
	1	50	18.12	17.85	18.02	18.22	17.76		0
	1	99	18.32	17.94	18.13	18.48	17.86		0
	50	0	18.11	18.07	17.82	18.03	17.96		0
	50	25	18.10	17.98	17.76	18.08	17.87		0
	50	50	18.09	17.91	17.76	18.19	17.84		0
	100	0	18.10	17.93	17.73	18.09	17.90	0	

Table 10-49
LTE Band 41 PC2 Ant H Measured P_{Limit} for RSI = 1 (Open – 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	19.61	19.91	19.64	19.60	19.54	0	0
	1	50	19.53	19.66	19.22	19.50	19.66		0
	1	99	19.72	19.69	19.20	19.46	19.57		0
	50	0	19.55	19.88	19.43	19.52	19.66	0-1	0
	50	25	19.58	19.83	19.28	19.53	19.80		0
	50	50	19.62	19.79	19.20	19.73	19.76		0
	100	0	19.61	19.84	19.27	19.56	19.76		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 n71

Table 10-50
NR Band n71 Ant A Measured P_{Max} for all RSI – 20 MHz Bandwidth

NR Band n71 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			136100 (680.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	23.82	0	0.0
	1	53	23.85		0.0
	1	104	23.86		0.0
	50	0	22.83	0-1	1.0
	50	28	23.79	0	0.0
	50	56	22.81	0-1	1.0
	100	0	22.87		1.0
DFT-s-OFDM 16QAM	1	1	22.80	0-1	1.0
CP-OFDM QPSK	1	1	22.34	0-1.5	1.5

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Table 10-51

NR Band n71 Ant E Measured P_{Max} for RSI = 0/2 (Open – Free/Hotspot), RSI = 3/4 (Closed – Free/Hotspot) – 20MHz Bandwidth

NR Band n71 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			136100 (680.5 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	22.57	0	0.0
	1	53	22.71		0.0
	1	104	22.64		0.0
	50	0	22.61	0-1	0.0
	50	28	22.75	0	0.0
	50	56	22.68	0-1	0.0
	100	0	22.70		0.0
DFT-s-OFDM 16QAM	1	1	22.48	0-1	0.0
CP-OFDM QPSK	1	1	22.59	0-1.5	0.0

Table 10-52

NR Band n71 Ant E Measured P_{Limit} for RSI = 1 (Open – Head) – 20 MHz Bandwidth

NR Band n71 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			136100 (680.5 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	21.79	0	0.0
	1	53	21.99		0.0
	1	104	21.87		0.0
	50	0	21.90	0-1	0.0
	50	28	21.98	0	0.0
	50	56	21.92	0-1	0.0
	100	0	21.96		0.0
DFT-s-OFDM 16QAM	1	1	21.81	0-1	0.0
CP-OFDM QPSK	1	1	21.83	0-1.5	0.0

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10.4.2 NR Band n5

Table 10-53
NR Band n5 Ant A Measured P_{Limit} for RSI = 0/2 (Open – Free/Hotspot) – 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	20.48	0	0.0
	1	53	20.54		0.0
	1	104	20.56		0.0
	50	0	20.42	0-1	0.0
	50	28	20.44	0	0.0
	50	56	20.49	0-1	0.0
	100	0	20.44		0.0
DFT-s-OFDM 16QAM	1	1	20.56	0-1	0.0
CP-OFDM QPSK	1	1	20.59	0-1.5	0.0

Table 10-54
NR Band n5 Ant A Measured P_{Limit} for RSI = 1 (Open – 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	23.45	0	0.0
	1	53	23.46		0.0
	1	104	23.48		0.0
	50	0	22.86	0-1	0.5
	50	28	23.31	0	0.0
	50	56	22.85	0-1	0.5
	100	0	22.83		0.5
DFT-s-OFDM 16QAM	1	1	22.52	0-1	0.5
CP-OFDM QPSK	1	1	22.06	0-1.5	1.0

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Table 10-55
NR Band n5 Ant A Measured P_{Limit} for RSI = 3/4 (Closed – Free/Hotspot) – 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	21.65	0	0.0
	1	53	21.71		0.0
	1	104	21.79		0.0
	50	0	21.71	0-1	0.0
	50	28	21.62	0	0.0
	50	56	21.72	0-1	0.0
	100	0	21.66		0.0
DFT-s-OFDM 16QAM	1	1	21.67	0-1	0.0
CP-OFDM QPSK	1	1	21.66	0-1.5	0.0

Table 10-56
NR Band n5 Ant E Measured P_{Limit} for RSI = 0/2 (Open – Free/Hotspot) – 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	22.48	0	0.0
	1	53	22.48		0.0
	1	104	22.50		0.0
	50	0	22.52	0-1	0.0
	50	28	22.48	0	0.0
	50	56	22.46	0-1	0.0
	100	0	22.49		0.0
DFT-s-OFDM 16QAM	1	1	22.47	0-1	0.0
CP-OFDM QPSK	1	1	22.54	0-1.5	0.0

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Table 10-57
NR Band n5 Ant E Measured P_{Limit} for RSI = 1 (Open – 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	21.29	0	0.0
	1	53	21.28		0.0
	1	104	21.30		0.0
	50	0	21.33	0-1	0.0
	50	28	21.29	0	0.0
	50	56	21.28	0-1	0.0
	100	0	21.29		0.0
DFT-s-OFDM 16QAM	1	1	21.31	0-1	0.0
CP-OFDM QPSK	1	1	21.35	0-1.5	0.0

Table 10-58
NR Band n5 Ant E Measured P_{Limit} for RSI = 3/4 (Closed – Free/Hotspot) – 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	22.87	0	0.0
	1	53	22.88		0.0
	1	104	22.85		0.0
	50	0	22.90	0-1	0.0
	50	28	22.89	0	0.0
	50	56	22.92	0-1	0.0
	100	0	22.85		0.0
DFT-s-OFDM 16QAM	1	1	22.89	0-1	0.0
CP-OFDM QPSK	1	1	22.95	0-1.5	0.0

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10.4.3 NR Band n66

Table 10-59

NR Band n66 Ant B Measured P_{Limit} for RSI = 0/2 (Open – Free/Hotspot) – 40 MHz Bandwidth

NR Band n66 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			349000 (1745 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	18.43	0	0.0
	1	108	18.57		0.0
	1	214	18.58		0.0
	108	0	18.46	0-1	0.0
	108	54	18.59	0	0.0
	108	108	18.52	0-1	0.0
	216	0	18.57		0.0
DFT-s-OFDM 16QAM	1	1	18.44	0-1	0.0
CP-OFDM QPSK	1	1	18.50	0-1.5	0.0

Table 10-60

NR Band n66 Ant B Measured P_{Max} for RSI = 1 (Open – Head) – 40 MHz Bandwidth

NR Band n66 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			349000 (1745 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	23.85	0	0.0
	1	108	23.94		0.0
	1	214	23.96		0.0
	108	0	22.81	0-1	1.0
	108	54	23.89	0	0.0
	108	108	22.87	0-1	1.0
	216	0	22.91		1.0
DFT-s-OFDM 16QAM	1	1	22.83	0-1	1.0
CP-OFDM QPSK	1	1	22.32	0-1.5	1.5

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Table 10-61
NR Band n66 Ant B Measured P_{Limit} for RSI = 3/4 (Closed – Free/Hotspot) – 40 MHz Bandwidth

NR Band n66 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			349000 (1745 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	19.01	0	0.0
	1	108	19.21		0.0
	1	214	19.11		0.0
	108	0	19.09	0-1	0.0
	108	54	19.16	0	0.0
	108	108	19.10	0-1	0.0
	216	0	19.12		0.0
DFT-s-OFDM 16QAM	1	1	19.00	0-1	0.0
CP-OFDM QPSK	1	1	19.07	0-1.5	0.0

Table 10-62
NR Band n66 Ant H Measured P_{Limit} for RSI = 0/2 (Open – Free/Hotspot) – 40 MHz Bandwidth

NR Band n66 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			349000 (1745 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	20.71	0	0.0
	1	108	20.51		0.0
	1	214	20.52		0.0
	108	0	20.65	0-1	0.0
	108	54	20.54	0	0.0
	108	108	20.52	0-1	0.0
	216	0	20.59		0.0
DFT-s-OFDM 16QAM	1	1	20.69	0-1	0.0
CP-OFDM QPSK	1	1	20.61	0-1.5	0.0

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Table 10-63
NR Band n66 Ant H Measured P_{Limit} for RSI = 1 (Open – Head) – 40 MHz Bandwidth

NR Band n66 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			349000 (1745 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	18.78	0	0.0
	1	108	18.51		0.0
	1	214	18.58		0.0
	108	0	18.62	0-1	0.0
	108	54	18.54	0	0.0
	108	108	18.52	0-1	0.0
	216	0	18.55		0.0
DFT-s-OFDM 16QAM	1	1	18.69	0-1	0.0
CP-OFDM QPSK	1	1	18.74	0-1.5	0.0

Table 10-64
NR Band n66 Ant H Measured P_{Limit} for RSI = 3/4 (Closed – Free/Hotspot) – 40 MHz Bandwidth

NR Band n66 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			349000 (1745 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	21.30	0	0.0
	1	108	21.10		0.0
	1	214	21.04		0.0
	108	0	21.20	0-1	0.0
	108	54	21.07	0	0.0
	108	108	21.05	0-1	0.0
	216	0	21.15		0.0
DFT-s-OFDM 16QAM	1	1	21.27	0-1	0.0
CP-OFDM QPSK	1	1	21.21	0-1.5	0.0

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10.4.4 NR Band n25

Table 10-65

NR Band n25 Ant B Measured P_{Limit} for RSI = 0/2 (Open – Free/Hotspot) – 40 MHz Bandwidth

NR Band n25 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			376500 (1882.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	17.81	0	0.0
	1	108	17.69		0.0
	1	214	17.67		0.0
	108	0	17.72	0-1	0.0
	108	54	17.64	0	0.0
	108	108	17.65	0-1	0.0
	216	0	17.63		0.0
DFT-s-OFDM 16QAM	1	1	17.76	0-1	0.0
CP-OFDM QPSK	1	1	17.67	0-1.5	0.0

Table 10-66

NR Band n25 Ant B Measured P_{Max} for RSI = 1 (Open – Head) – 40 MHz Bandwidth

NR Band n25 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			376500 (1882.5 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	23.99	0	0.0
	1	108	23.93		0.0
	1	214	23.95		0.0
	108	0	22.92	0-1	1.0
	108	54	23.90	0	0.0
	108	108	22.88	0-1	1.0
	216	0	22.90		1.0
DFT-s-OFDM 16QAM	1	1	22.96	0-1	1.0
CP-OFDM QPSK	1	1	22.39	0-1.5	1.5

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Table 10-67
NR Band n25 Ant B Measured P_{Limit} for RSI = 3/4 (Closed – Free/Hotspot) – 40 MHz Bandwidth

NR Band n25 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			376500 (1882.5 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	19.22	0	0.0
	1	108	19.15		0.0
	1	214	19.25		0.0
	108	0	19.30	0-1	0.0
	108	54	19.13	0	0.0
	108	108	19.15	0-1	0.0
	216	0	19.14		0.0
DFT-s-OFDM 16QAM	1	1	19.27	0-1	0.0
CP-OFDM QPSK	1	1	19.44	0-1.5	0.0

Table 10-68
NR Band n25 Ant H Measured P_{Limit} for RSI = 0/2 (Open – Free/Hotspot), RSI = 3/4 (Closed – Free/Hotspot) – 40 MHz Bandwidth

NR Band n25 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			376500 (1882.5 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	20.24	0	0.0
	1	108	20.09		0.0
	1	214	20.12		0.0
	108	0	20.10	0-1	0.0
	108	54	20.07	0	0.0
	108	108	20.02	0-1	0.0
	216	0	20.08		0.0
DFT-s-OFDM 16QAM	1	1	20.21	0-1	0.0
CP-OFDM QPSK	1	1	20.29	0-1.5	0.0

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Table 10-69
NR Band n25 Ant H Measured P_{Limit} for RSI = 1 (Open – Head) – 40 MHz Bandwidth

NR Band n25 40 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			376500 (1882.5 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	18.73	0	0.0
	1	108	18.61		0.0
	1	214	18.59		0.0
	108	0	18.67	0-1	0.0
	108	54	18.57	0	0.0
	108	108	18.54	0-1	0.0
	216	0	18.63		0.0
DFT-s-OFDM 16QAM	1	1	18.73	0-1	0.0
CP-OFDM QPSK	1	1	18.96	0-1.5	0.0

10.4.1 NR Band n41

Table 10-70
NR Band n41 PC2 Antenna B Path 1 Measured P_{Limit} for RSI = 0/2 (Open – Free/Hotspot) – 100 MHz Bandwidth

NR Band n41 100 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			518598 (2592.99 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	18.07	0	0.0
	1	137	17.58		0.0
	1	271	17.81		0.0
	135	0	17.78	0-1	0.0
	135	69	17.51	0	0.0
	135	138	17.56	0-1	0.0
	270	0	17.62		0.0
DFT-s-OFDM 16QAM	1	1	18.01	0-1	0.0
CP-OFDM QPSK	1	1	18.21	0-1.5	0.0

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Table 10-71
NR Band n41 PC2 Antenna B Path 1 Measured P_{Limit} for RSI = 1 (Open – 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	24.63	0	0.0
	1	137	24.02		0.0
	1	271	24.91		0.0
	135	0	23.01	0-1	1.0
	135	69	24.41	0	0.0
	135	138	23.18	0-1	1.0
	270	0	23.14		1.0
DFT-s-OFDM 16QAM	1	1	23.38	0-1	1.0
CP-OFDM QPSK	1	1	22.56	0-1.5	1.5

Table 10-72
NR Band n41 PC2 Antenna B Path 1 Measured P_{Limit} for RSI = 3/4 (Closed – Free/Hotspot) – 100 MHz Bandwidth

NR Band n41 100 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			518598 (2592.99 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	20.59	0	0.0
	1	137	20.05		0.0
	1	271	20.31		0.0
	135	0	20.31	0-1	0.0
	135	69	20.05	0	0.0
	135	138	20.06	0-1	0.0
	270	0	20.07		0.0
DFT-s-OFDM 16QAM	1	1	20.46	0-1	0.0
CP-OFDM QPSK	1	1	20.55	0-1.5	0.0

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Table 10-73
NR Band n41 PC2 Antenna H, C, G Path 1 Measured P_{Limit} for RSI = 0/2 (Open – Free/Hotspot)
– 100 MHz Bandwidth

NR Band n41 100 MHz Bandwidth	
Channel	
Antenna	518598 (2592.99 MHz)
	Conducted Power [dBm]
SRS #2 Ant H	18.96
SRS #3 Ant C	19.18
SRS #4 Ant G	18.21

Table 10-74
NR Band n41 PC2 Antenna H, C, G Path 1 Measured P_{Limit} for RSI = 1 (Open – Head) – 100 MHz Bandwidth

NR Band n41 100 MHz Bandwidth	
Channel	
Antenna	518598 (2592.99 MHz)
	Conducted Power [dBm]
SRS #2 Ant H	16.95
SRS #3 Ant C	23.23
SRS #4 Ant G	18.21

Table 10-75
NR Band n41 PC2 Antenna H, C, G Path 1 Measured P_{Limit} for RSI = 3/4 (Closed – Free/Hotspot)
– 100 MHz Bandwidth

NR Band n41 100 MHz Bandwidth	
Channel	
Antenna	518598 (2592.99 MHz)
	Conducted Power [dBm]
SRS #2 Ant H	18.96
SRS #3 Ant C	21.26
SRS #4 Ant G	18.21

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Table 10-76
NR Band n41 PC2 Antenna H Path 2 Measured P_{Limit} for RSI = 0/2 (Open – Free/Hotspot),
RSI = 3/4 (Closed – Free/Hotspot) – 100 MHz Bandwidth

NR Band n41 100 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			518598 (2592.99 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	18.74	0	0.0
	1	137	18.25		0.0
	1	271	18.55		0.0
	135	0	18.69	0-1	0.0
	135	69	18.31	0	0.0
	135	138	18.64	0-1	0.0
	270	0	18.31		0.0
DFT-s-OFDM 16QAM	1	1	18.61	0-1	0.0
CP-OFDM QPSK	1	1	18.65	0-1.5	0.0

Table 10-77
NR Band n41 PC2 Antenna H Path 2 Measured P_{Limit} for RSI = 1 (Open – Head) – 100 MHz Bandwidth

NR Band n41 100 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			518598 (2592.99 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	16.72	0	0.0
	1	137	16.26		0.0
	1	271	16.61		0.0
	135	0	16.68	0-1	0.0
	135	69	16.29	0	0.0
	135	138	16.66	0-1	0.0
	270	0	16.32		0.0
DFT-s-OFDM 16QAM	1	1	16.62	0-1	0.0
CP-OFDM QPSK	1	1	16.67	0-1.5	0.0

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Table 10-78
NR Band n41 PC2 Antenna B, G, C Path 2 Measured P_{Limit} for RSI = 0/2 (Open – Free/Hotspot)
– 100 MHz Bandwidth

NR Band n41 100 MHz Bandwidth	
Channel	
Antenna	518598 (2592.99 MHz)
	Conducted Power [dBm]
SRS #1 Ant B	17.15
SRS #2 Ant G	18.23
SRS #3 Ant C	18.57

Table 10-79
NR Band n41 PC2 Antenna B, G, C Path 2 Measured P_{Limit} for RSI = 1 (Open – Head) – 100 MHz Bandwidth

NR Band n41 100 MHz Bandwidth	
Channel	
Antenna	518598 (2592.99 MHz)
	Conducted Power [dBm]
SRS #1 Ant B	22.96
SRS #2 Ant G	16.16
SRS #3 Ant C	16.55

Table 10-80
NR Band n41 PC2 Antenna B, G, C Path 2 Measured P_{Limit} for RSI = 3/4 (Closed – Free/Hotspot)
– 100 MHz Bandwidth

NR Band n41 100 MHz Bandwidth	
Channel	
Antenna	518598 (2592.99 MHz)
	Conducted Power [dBm]
SRS #1 Ant B	19.35
SRS #2 Ant G	18.23
SRS #3 Ant C	18.57

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10.4.2 NR Band n77

Table 10-81

NR Band n77 DoD PC2 Default Antenna F Measured P_{Limit} for RSI = 0/2 (Open – Free/Hotspot),
RSI = 3/4 (Closed – Free/Hotspot) – 100 MHz Bandwidth

NR Band n77 DoD 100 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			633334 (3500.01 MHz) Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	17.17	0	0.0
	1	137	16.81		0.0
	1	271	17.39		0.0
	135	0	17.03	0-1	0.0
	135	69	16.82	0	0.0
	135	138	16.91	0-1	0.0
	270	0	16.84		0.0
DFT-s-OFDM 16QAM	1	1	17.08	0-1	0.0
CP-OFDM QPSK	1	1	17.20	0-1.5	0.0

Table 10-82

NR Band n77 PC2 Default Antenna F Measured P_{Limit} for RSI = 0/2 (Open – Free/Hotspot),
RSI = 3/4 (Closed – Free/Hotspot) – 100 MHz Bandwidth

NR Band n77 100 MHz Bandwidth						
			Channel		MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	650000 (3750 MHz)	662000 (3930 MHz)		
			Conducted Power [dBm]			
DFT-s-OFDM QPSK	1	1	17.22	16.48	0	0.0
	1	137	16.68	16.15		0.0
	1	271	16.88	16.43		0.0
	135	0	16.97	16.34	0-1	0.0
	135	69	16.75	16.10	0	0.0
	135	138	16.54	16.09	0-1	0.0
	270	0	16.75	16.01		0.0
DFT-s-OFDM 16QAM	1	1	17.35	16.43	0-1	0.0
CP-OFDM QPSK	1	1	17.38	16.46	0-1.5	0.0

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Table 10-83

NR Band n77 DoD PC2 Default Antenna F Measured P_{Limit} for RSI = 1 (Open – Head) – 100 MHz Bandwidth

NR Band n77 DoD 100 MHz Bandwidth					
Modulation	RB Size	RB Offset	Channel	MPR Allowed per 3GPP [dB]	MPR [dB]
			633334 (3500.01 MHz)		
			Conducted Power [dBm]		
DFT-s-OFDM QPSK	1	1	13.91	0	0.0
	1	137	13.57		0.0
	1	271	14.11		0.0
	135	0	13.70	0-1	0.0
	135	69	13.53	0	0.0
	135	138	13.66	0-1	0.0
	270	0	13.58		0.0
DFT-s-OFDM 16QAM	1	1	13.91	0-1	0.0
CP-OFDM QPSK	1	1	14.00	0-1.5	0.0

Table 10-84

NR Band n77 PC2 Default Antenna F Measured P_{Limit} for RSI = 1 (Open – Head) – 100 MHz Bandwidth

NR Band n77 100 MHz Bandwidth						
			Channel		MPR Allowed per 3GPP [dB]	MPR [dB]
Modulation	RB Size	RB Offset	650000 (3750 MHz)	662000 (3930 MHz)		
			Conducted Power [dBm]			
DFT-s-OFDM QPSK	1	1	14.27	13.47	0	0.0
	1	137	13.48	13.10		0.0
	1	271	13.66	13.42		0.0
	135	0	13.83	13.07	0-1	0.0
	135	69	13.51	13.16	0	0.0
	135	138	13.39	13.15	0-1	0.0
	270	0	13.59	13.19		0.0
DFT-s-OFDM 16QAM	1	1	14.24	13.37	0-1	0.0
CP-OFDM QPSK	1	1	14.25	13.41	0-1.5	0.0

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Table 10-85
NR Band n77 DoD PC2 Default Antenna H, K, C Measured P_{Limit} for RSI = 1 (Open – Head)
– 100 MHz Bandwidth

NR Band n77 DoD 100 MHz Bandwidth	
Channel	
Antenna	633334 (3500.01 MHz)
	Conducted Power [dBm]
SRS #2 Ant H	15.91
SRS #3 Ant K	14.73
SRS #4 Ant C	14.94

Table 10-86
NR Band n77 PC2 Default Antenna H, K, C Measured P_{Limit} for RSI = 1 (Open – Head) – 100 MHz Bandwidth

NR Band n77 100 MHz Bandwidth		
Channel		
Antenna	650000 (3750 MHz)	662000 (3930 MHz)
	Conducted Power [dBm]	
SRS #2 Ant H	14.78	14.12
SRS #3 Ant K	14.28	13.81
SRS #4 Ant C	13.93	13.16

Table 10-87
NR Band n77 DoD PC2 Default Antenna H, K, C Measured P_{Limit} for RSI = 0/2 (Open – Free/Hotspot),
RSI = 3/4 (Closed – Free/Hotspot) – 100 MHz Bandwidth

NR Band n77 DoD 100 MHz Bandwidth	
Channel	
Antenna	633334 (3500.01 MHz)
	Conducted Power [dBm]
SRS #2 Ant H	17.98
SRS #3 Ant K	17.96
SRS #4 Ant C	17.77

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Table 10-88
NR Band n77 PC2 Default Antenna H, K, C Measured P_{Limit} for RSI = 0/2 (Open – Free/Hotspot),
RSI = 3/4 (Closed – Free/Hotspot) – 100 MHz Bandwidth

NR Band n77 100 MHz Bandwidth		
Channel		
Antenna	650000 (3750 MHz)	662000 (3930 MHz)
	Conducted Power [dBm]	
SRS #2 Ant H	17.31	16.41
SRS #3 Ant K	17.29	16.80
SRS #4 Ant C	16.97	16.18

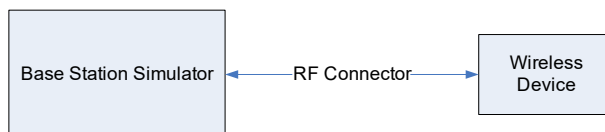


Figure 10-4
Power Measurement Setup – NR FDD

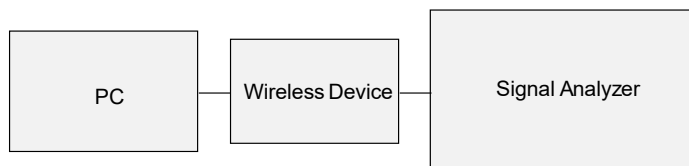


Figure 10-5
Power Measurement Setup – NR TDD

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10.5 WLAN Conducted Powers

Table 10-89
2.4 GHz WLAN Measured P_{Limit} Average RF Power for DSI = 1 (Head) – Ant G

2.4GHz WIFI (20MHz 802.11b SISO ANT1)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	17.96
2437	6		17.64
2462	11		18.18
2467	12		0.57
2472	13		0.93
2.4GHz WIFI (20MHz 802.11g SISO ANT1)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	17.05
2437	6		17.22
2462	11		17.08
2467	12		-0.23
2472	13		0.01
2.4GHz WIFI (20MHz 802.11n SISO ANT1)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	17.35
2437	6		17.55
2462	11		17.40
2467	12		0.12
2472	13		0.30
2.4GHz WIFI (20MHz 802.11ac SISO ANT1)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	17.35
2437	6		17.56
2462	11		17.44
2467	12		0.07
2472	13		0.28
2.4GHz WIFI (20MHz 802.11ax SISO ANT1)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
412	1	Average	17.13
437	6		17.38
462	11		17.25
467	12		-0.14
472	13		0.14
2.4GHz WIFI (20MHz 802.11be SISO ANT1)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
412	1	Average	17.17
437	6		17.39
462	11		17.30
467	12		0.01
472	13		0.20

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Table 10-90
2.4 GHz WLAN Measured P_{Limit} Average RF Power for DSI = 1 (Head) – Ant C

2.4GHz WIFI (20MHz 802.11b SISO ANT2)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	18.30
2437	6		18.12
2462	11		18.49
2467	12		0.68
2472	13		0.98
2.4GHz WIFI (20MHz 802.11g SISO ANT2)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	17.11
2437	6		17.01
2462	11		17.25
2467	12		0.29
2472	13		0.63
2.4GHz WIFI (20MHz 802.11n SISO ANT2)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	17.41
2437	6		17.30
2462	11		17.53
2467	12		0.51
2472	13		0.84
2.4GHz WIFI (20MHz 802.11ac SISO ANT2)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	17.41
2437	6		17.30
2462	11		17.53
2467	12		0.51
2472	13		0.89
2.4GHz WIFI (20MHz 802.11ax SISO ANT2)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	17.27
2437	6		17.15
2462	11		17.35
2467	12		0.31
2472	13		0.70
2.4GHz WIFI (20MHz 802.11be SISO ANT2)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	17.30
2437	6		17.17
2462	11		17.40
2467	12		0.37
2472	13		0.76

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Table 10-91
2.4 GHz WLAN Measured P_{Max} Average RF Power for DSI = 0 (Free/Hotspot) – Ant G

Reduced P_{max} Average RF Power for DCF=0

2.4GHz WIFI (20MHz 802.11b SISO ANT1)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	19.56
2437	6		19.75
2462	11		19.80
2467	12		0.57
2472	13		0.93
2.4GHz WIFI (20MHz 802.11g SISO ANT1)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	17.05
2437	6		17.22
2462	11		17.08
2467	12		-0.23
2472	13		0.01
2.4GHz WIFI (20MHz 802.11n SISO ANT1)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	17.35
2437	6		17.55
2462	11		17.40
2467	12		0.12
2472	13		0.30
2.4GHz WIFI (20MHz 802.11ac SISO ANT1)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	17.35
2437	6		17.56
2462	11		17.44
2467	12		0.07
2472	13		0.28
2.4GHz WIFI (20MHz 802.11ax SISO ANT1)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
412	1	Average	17.13
437	6		17.38
462	11		17.25
467	12		-0.14
472	13		0.14
2.4GHz WIFI (20MHz 802.11be SISO ANT1)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
412	1	Average	17.17
437	6		17.39
462	11		17.30
467	12		0.01
472	13		0.20

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Table 10-92
2.4 GHz WLAN Measured P_{Max} Average RF Power for DSI = 0 (Free/Hotspot) – Ant C

2.4GHz WIFI (20MHz 802.11b SISO ANT2)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	19.80
2437	6		19.68
2462	11		19.81
2467	12		0.68
2472	13		0.98
2.4GHz WIFI (20MHz 802.11g SISO ANT2)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	17.11
2437	6		17.01
2462	11		17.25
2467	12		0.29
2472	13		0.63
2.4GHz WIFI (20MHz 802.11n SISO ANT2)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	17.41
2437	6		17.30
2462	11		17.53
2467	12		0.51
2472	13		0.84
2.4GHz WIFI (20MHz 802.11ac SISO ANT2)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	17.41
2437	6		17.30
2462	11		17.53
2467	12		0.51
2472	13		0.89
2.4GHz WIFI (20MHz 802.11ax SISO ANT2)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	17.27
2437	6		17.15
2462	11		17.35
2467	12		0.31
2472	13		0.70
2.4GHz WIFI (20MHz 802.11be SISO ANT2)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1	Average	17.30
2437	6		17.17
2462	11		17.40
2467	12		0.37
2472	13		0.76

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Table 10-93
2.4 GHz WLAN Measured P_{Max} Average RF Power for DSI = 0 (Free/Hotspot) – MIMO

2.4GHz WIFI (20MHz 802.11b MIMO)					
Freq [MHz]	Channel	Detector	Conducted Power [dBm]		
			ANT1	ANT2	MIMO
2412	1	Average	19.42	19.38	22.41
2437	6		19.70	19.40	22.56
2462	11		19.72	19.45	22.60
2467	12		0.11	0.73	3.44
2472	13		0.42	0.95	3.70
2.4GHz WIFI (20MHz 802.11g MIMO)					
Freq [MHz]	Channel	Detector	Conducted Power [dBm]		
			ANT1	ANT2	MIMO
2412	1	Average	17.22	17.05	20.15
2437	6		17.86	17.36	20.63
2462	11		17.69	17.42	20.57
2467	12		-0.22	0.43	3.13
2472	13		-0.08	0.77	3.38
2.4GHz WIFI (20MHz 802.11n MIMO)					
Freq [MHz]	Channel	Detector	Conducted Power [dBm]		
			ANT1	ANT2	MIMO
2412	1	Average	17.28	17.14	20.22
2437	6		17.70	17.24	20.49
2462	11		17.60	17.35	20.49
2467	12		0.08	0.61	3.36
2472	13		0.23	0.97	3.63
2.4GHz WIFI (20MHz 802.11ac MIMO)					
Freq [MHz]	Channel	Detector	Conducted Power [dBm]		
			ANT1	ANT2	MIMO
2412	1	Average	17.28	17.14	20.22
2437	6		17.72	17.24	20.50
2462	11		17.57	17.33	20.46
2467	12		0.08	0.60	3.36
2472	13		0.22	0.94	3.61
2.4GHz WIFI (20MHz 802.11ax MIMO)					
Freq [MHz]	Channel	Detector	Conducted Power [dBm]		
			ANT1	ANT2	MIMO
2412	1	Average	17.53	17.39	20.47
2437	6		17.90	17.49	20.71
2462	11		17.38	17.16	20.28
2467	12		-0.03	0.49	3.25
2472	13		0.14	0.87	3.53
2.4GHz WIFI (20MHz 802.11be MIMO)					
Freq [MHz]	Channel	Detector	Conducted Power [dBm]		
			ANT1	ANT2	MIMO
2412	1	Average	17.49	17.30	20.41
2437	6		17.89	17.47	20.70
2462	11		17.32	17.10	20.22
2467	12		-0.09	0.47	3.21
2472	13		0.09	0.88	3.51

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Table 10-94
5 GHz WLAN Measured P_{Limit} Average RF Power for DSI = 1 (Head) – Ant F

5GHz WIFI (80MHz 802.11ac SISO ANT1)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	14.08
UNII-2A	5290	58	14.63
UNII-2C	5530	106	14.94
	5610	122	14.98
	5690	138	15.36
UNII-3	5775	155	15.02
UNII-4	5855	171	14.60

5GHz WIFI (80MHz 802.11ax SISO ANT1)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	14.50
UNII-2A	5290	58	15.29
UNII-2C	5530	106	15.61
	5610	122	15.67
	5690	138	15.43
UNII-3	5775	155	15.45
UNII-4	5855	171	15.46

5GHz WIFI (80MHz 802.11be SISO ANT1)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	14.51
UNII-2A	5290	58	15.33
UNII-2C	5530	106	15.62
	5610	122	15.73
	5690	138	15.49
UNII-3	5775	155	15.48
UNII-4	5855	171	15.50

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Table 10-95
5 GHz WLAN Measured P_{Limit} Average RF Power for DSI = 1 (Head) – Ant I

5GHz WIFI (80MHz 802.11ac SISO ANT2)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	14.44
UNII-2A	5290	58	15.70
UNII-2C	5530	106	15.64
	5610	122	15.38
	5690	138	15.79
UNII-3	5775	155	15.39
UNII-4	5855	171	15.02

5GHz WIFI (80MHz 802.11ax SISO ANT2)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	14.85
UNII-2A	5290	58	15.95
UNII-2C	5530	106	15.77
	5610	122	15.66
	5690	138	15.75
UNII-3	5775	155	15.45
UNII-4	5855	171	14.90

5GHz WIFI (80MHz 802.11be SISO ANT2)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	14.88
UNII-2A	5290	58	15.97
UNII-2C	5530	106	15.79
	5610	122	15.70
	5690	138	15.80
UNII-3	5775	155	15.55
UNII-4	5855	171	14.92

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Table 10-96
5 GHz WLAN Measured P_{Max} Average RF Power for DSI = 1 (Head) – MIMO

5GHz WIFI (80MHz 802.11ac MIMO)					
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]		
			ANT1	ANT2	MIMO
UNII-1	5210	42	14.70	14.54	17.63
UNII-2A	5290	58	14.54	15.62	18.12
UNII-2C	5530	106	14.81	15.54	18.20
	5610	122	14.87	15.29	18.10
	5690	138	15.24	15.74	18.51
UNII-3	5775	155	14.89	15.36	18.14
UNII-4	5855	171	14.52	14.92	17.73

5GHz WIFI (80MHz 802.11ax MIMO)					
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]		
			ANT1	ANT2	MIMO
UNII-1	5210	42	14.57	14.97	17.78
UNII-2A	5290	58	15.30	15.75	18.54
UNII-2C	5530	106	15.19	15.57	18.39
	5610	122	15.26	15.28	18.28
	5690	138	15.69	15.99	18.85
UNII-3	5775	155	15.46	15.77	18.63
UNII-4	5855	171	14.71	15.18	17.96

5GHz WIFI (80MHz 802.11be MIMO)					
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]		
			ANT1	ANT2	MIMO
UNII-1	5210	42	14.53	14.93	17.74
UNII-2A	5290	58	15.32	15.76	18.56
UNII-2C	5530	106	15.23	15.59	18.42
	5610	122	15.22	15.31	18.28
	5690	138	15.72	15.99	18.87
UNII-3	5775	155	15.44	15.80	18.63
UNII-4	5855	171	14.77	15.25	18.03

Table 10-97
5 GHz WLAN Measured P_{Max} Average RF Power for DSI = 0 (Free/Hotspot) – Ant F

5GHz WIFI (40MHz 802.11n SISO ANT1)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	16.25
	5230	46	16.87
5GHz WIFI (40MHz 802.11ac SISO ANT1)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	16.81
	5230	46	17.45
5GHz WIFI (40MHz 802.11ax SISO ANT1)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	14.71
	5230	46	17.51

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5GHz WIFI (40MHz 802.11be SISO ANT1)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	14.51
	5230	46	17.27

5GHz WIFI (80MHz 802.11ac SISO ANT1)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	14.08
UNII-2A	5290	58	16.50
UNII-2C	5530	106	16.75
	5610	122	16.97
	5690	138	17.15
UNII-3	5775	155	16.85
UNII-4	5855	171	16.32

5GHz WIFI (80MHz 802.11ax SISO ANT1)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	14.50
UNII-2A	5290	58	16.82
UNII-2C	5530	106	17.21
	5610	122	17.17
	5690	138	17.55
UNII-3	5775	155	17.30
UNII-4	5855	171	16.70

5GHz WIFI (80MHz 802.11be SISO ANT1)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	14.51
UNII-2A	5290	58	16.85
UNII-2C	5530	106	17.18
	5610	122	17.23
	5690	138	17.56
UNII-3	5775	155	17.33
UNII-4	5855	171	16.72

Table 10-98
5 GHz WLAN Measured P_{Max} Average RF Power for DSI = 0 (Free/Hotspot)– Ant 1

5GHz WIFI (40MHz 802.11n SISO ANT2)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	16.49
	5230	46	17.34
5GHz WIFI (40MHz 802.11ac SISO ANT2)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	16.92
	5230	46	17.92

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5GHz WIFI (40MHz 802.11ax SISO ANT2)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	14.98
	5230	46	17.95
5GHz WIFI (40MHz 802.11be SISO ANT2)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	14.82
	5230	46	17.79

5GHz WIFI (80MHz 802.11ac SISO ANT2)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	14.44
UNII-2A	5290	58	16.90
UNII-2C	5530	106	17.04
	5610	122	17.10
	5690	138	17.19
UNII-3	5775	155	16.78
UNII-4	5855	171	16.24
5GHz WIFI (80MHz 802.11ax SISO ANT2)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	14.85
UNII-2A	5290	58	17.35
UNII-2C	5530	106	17.46
	5610	122	17.47
	5690	138	17.57
UNII-3	5775	155	17.15
UNII-4	5855	171	16.60
5GHz WIFI (80MHz 802.11be SISO ANT2)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	14.88
UNII-2A	5290	58	17.40
UNII-2C	5530	106	17.50
	5610	122	17.50
	5690	138	17.63
UNII-3	5775	155	17.19
UNII-4	5855	171	16.64

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Table 10-99
5 GHz WLAN Measured P_{Max} Average RF Power for DSI = 0 (Free/Hotspot) – MIMO

5GHz WIFI (40MHz 802.11n MIMO)					
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]		
			ANT1	ANT2	MIMO
UNII-1	5190	38	15.41	15.57	18.50
	5230	46	16.49	16.99	19.76
5GHz WIFI (40MHz 802.11ac MIMO)					
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]		
			ANT1	ANT2	MIMO
UNII-1	5190	38	16.84	16.96	19.91
	5230	46	17.49	17.95	20.74
5GHz WIFI (40MHz 802.11ax MIMO)					
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]		
			ANT1	ANT2	MIMO
UNII-1	5190	38	14.70	14.65	17.69
	5230	46	17.49	17.54	20.53
5GHz WIFI (40MHz 802.11be MIMO)					
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]		
			ANT1	ANT2	MIMO
UNII-1	5190	38	14.18	14.57	17.39
	5230	46	16.75	17.38	20.09
5GHz WIFI (80MHz 802.11ac MIMO)					
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]		
			ANT1	ANT2	MIMO
UNII-1	5210	42	14.70	14.54	17.63
UNII-2A	5290	58	17.99	17.19	20.62
UNII-2C	5530	106	17.53	17.37	20.46
	5610	122	17.46	17.26	20.37
	5690	138	17.89	17.36	20.64
UNII-3	5775	155	17.96	17.53	20.76
UNII-4	5855	171	17.58	17.03	20.32
5GHz WIFI (80MHz 802.11ax MIMO)					
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]		
			ANT1	ANT2	MIMO
UNII-1	5210	42	14.57	14.97	17.78
UNII-2A	5290	58	17.99	17.18	20.61
UNII-2C	5530	106	17.66	17.62	20.65
	5610	122	17.87	17.69	20.79
	5690	138	17.69	17.49	20.60
UNII-3	5775	155	17.99	17.50	20.76
UNII-4	5855	171	17.98	17.48	20.75
5GHz WIFI (80MHz 802.11be MIMO)					
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]		
			ANT1	ANT2	MIMO
UNII-1	5210	42	14.53	14.93	17.74
UNII-2A	5290	58	17.93	17.25	20.61
UNII-2C	5530	106	17.69	17.65	20.68
	5610	122	17.83	17.72	20.79
	5690	138	17.75	17.56	20.67
UNII-3	5775	155	17.97	17.46	20.73
UNII-4	5855	171	17.52	16.82	20.19

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Table 10-100
6 GHz WLAN Measured P_{Limit} Average RF Power for DSI = 1 (Head) – Ant F

6GHz WIFI (80MHz 802.11ax SISO ANT1)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	5985	7	14.40
	6305	71	14.23
UNII-6	6465	103	14.58
UNII-7	6705	151	14.74
UNII-8	7025	215	14.20

6GHz WIFI (80MHz 802.11be SISO ANT1)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	5985	7	14.83
	6305	71	14.42
UNII-6	6465	103	14.67
UNII-7	6705	151	14.91
UNII-8	7025	215	14.24

Table 10-101
6 GHz WLAN Measured P_{Limit} Average RF Power for DSI = 1 (Head) – Ant I

6GHz WIFI (80MHz 802.11ax SISO ANT2)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	5985	7	14.40
	6305	71	14.31
UNII-6	6465	103	14.97
UNII-7	6705	151	14.76
UNII-8	7025	215	14.72

6GHz WIFI (80MHz 802.11be SISO ANT2)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	5985	7	15.98
	6305	71	15.26
UNII-6	6465	103	15.35
UNII-7	6705	151	15.42
UNII-8	7025	215	14.92

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Table 10-102
6 GHz WLAN Measured P_{Limit} Average RF Power for DSI = 1 (Head) – MIMO

6GHz WIFI (80MHz 802.11ax MIMO)					
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]		
			ANT1	ANT2	MIMO
UNII-5	5985	7	15.00	15.82	18.44
	6305	71	15.28	15.96	18.64
UNII-6	6465	103	15.42	15.97	18.71
UNII-7	6705	151	15.21	15.56	18.40
UNII-8	7025	215	15.22	15.99	18.63

6GHz WIFI (80MHz 802.11be MIMO)					
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]		
			ANT1	ANT2	MIMO
UNII-5	5985	7	15.00	15.86	18.46
	6305	71	15.34	15.99	18.69
UNII-6	6465	103	15.48	15.99	18.75
UNII-7	6705	151	15.46	15.62	18.55
UNII-8	7025	215	15.26	15.99	18.65

Table 10-103
6 GHz WLAN Measured P_{Limit} Average RF Power for DSI = 0 (Free/Hotspot) – Ant F

6GHz WIFI (160MHz 802.11ax SISO ANT1)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	6025	15	11.00
	6345	79	10.80
UNII-6	6505	111	10.65
UNII-7	6665	143	10.73
UNII-8	6985	207	10.98

6GHz WIFI (160MHz 802.11be SISO ANT1)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	6025	15	10.25
	6345	79	10.20
UNII-6	6505	111	10.23
UNII-7	6665	143	10.32
UNII-8	6985	207	10.54

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Table 10-104
6 GHz WLAN Measured P_{Limit} Average RF Power for DSI = 0 (Free/Hotspot) – Ant 1

6GHz WIFI (160MHz 802.11ax SISO ANT2)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	6025	15	11.38
	6345	79	11.67
UNII-6	6505	111	11.36
UNII-7	6665	143	10.78
UNII-8	6985	207	11.64

6GHz WIFI (160MHz 802.11be SISO ANT2)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-5	6025	15	11.07
	6345	79	11.28
UNII-6	6505	111	10.36
UNII-7	6665	143	10.19
UNII-8	6985	207	10.70

Table 10-105
6 GHz WLAN Measured P_{Limit} Average RF Power for DSI = 0 (Free/Hotspot) – MIMO

6GHz WIFI (160MHz 802.11ax MIMO)					
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]		
			ANT1	ANT2	MIMO
UNII-5	6025	15	11.46	11.82	14.65
	6345	79	11.00	11.99	14.53
UNII-6	6505	111	11.53	11.64	14.60
UNII-7	6665	143	11.16	11.18	14.18
UNII-8	6985	207	11.27	11.85	14.58

6GHz WIFI (160MHz 802.11be MIMO)					
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]		
			ANT1	ANT2	MIMO
UNII-5	6025	15	10.20	11.21	13.74
	6345	79	10.05	11.29	13.72
UNII-6	6505	111	10.20	10.50	13.36
UNII-7	6825	175	10.51	11.64	14.12
UNII-8	6985	207	10.10	11.13	13.66

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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.

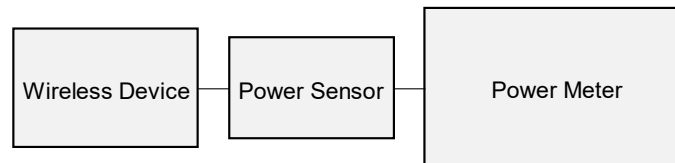


Figure 10-6
Power Measurement Setup

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10.6 Bluetooth Conducted Powers

Table 10-106
Bluetooth Measured P_{Max} Average RF Power for all DSI – Ant G

Frequency [MHz]	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
			[dBm]	[mW]
2402	1.0	0	18.03	63.584
2441	1.0	39	18.40	69.105
2480	1.0	78	17.46	55.698
2402	2.0	0	14.83	30.388
2441	2.0	39	15.13	32.560
2480	2.0	78	14.31	26.996
2402	3.0	0	14.94	31.161
2441	3.0	39	15.10	32.394
2480	3.0	78	14.40	27.533

Table 10-107
Bluetooth Measured P_{Max} Average RF Power for all DSI – Ant C

Frequency [MHz]	Data Rate [Mbps]	Channel No.	Avg Conducted Power	
			[dBm]	[mW]
2402	1.0	0	18.13	65.008
2441	1.0	39	18.55	71.690
2480	1.0	78	17.01	50.229
2402	2.0	0	14.75	29.839
2441	2.0	39	15.06	32.097
2480	2.0	78	14.05	25.405
2402	3.0	0	14.87	30.673
2441	3.0	39	15.14	32.646
2480	3.0	78	14.10	25.725

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Table 10-108
Bluetooth Measured P_{Max} Average RF Power for all DSI – MIMO

Frequency [MHz]	Data Rate [Mbps]	Channel No.	ANT1 Avg Conducted Power		ANT2 Avg Conducted Power		Dual Avg Conducted Power	
			[dBm]	[mW]	[dBm]	[mW]	[dBm]	[mW]
2402	1.0	0	13.77	23.836	11.16	13.059	15.67	36.895
2441	1.0	39	14.51	28.251	12.36	17.208	16.58	45.459
2480	1.0	78	13.66	23.250	10.34	10.823	15.32	34.072
2402	2.0	0	11.08	12.825	8.79	7.575	13.10	20.399
2441	2.0	39	11.21	13.203	7.96	6.247	12.89	19.450
2480	2.0	78	10.66	11.652	7.94	6.217	12.52	17.869
2402	3.0	0	11.13	12.986	8.84	7.657	13.15	20.643
2441	3.0	39	11.18	13.128	9.89	9.748	13.59	22.876
2480	3.0	78	10.76	11.907	7.98	6.279	12.60	18.186

Table 10-109
Bluetooth LE Measured P_{Max} Peak RF Power for all DSI – Ant G

Frequency [MHz]	Data Rate [Mbps]	Channel No.	Bluetooth Mode	Peak Conducted Power	
				[dBm]	[mW]
2402	125 kbps	0	LE	9.88	9.716
2440	125 kbps	19	LE	11.01	12.624
2480	125 kbps	39	LE	10.57	11.395
2402	500 kbps	0	LE	10.20	10.474
2440	500 kbps	19	LE	11.05	12.732
2480	500 kbps	39	LE	10.62	11.521
2402	1 Mbps	0	LE	18.62	72.728
2440	1 Mbps	19	LE	19.73	93.907
2480	1 Mbps	39	LE	18.63	72.963
2404	2 Mbps	0	LE	19.23	83.830
2440	2 Mbps	19	LE	19.46	88.247
2478	2 Mbps	39	LE	19.05	80.334

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Table 10-110
Bluetooth LE Measured P_{Max} Peak RF Power for all DSI – Ant C

Frequency [MHz]	Data Rate [Mbps]	Channel No.	Bluetooth Mode	Peak Conducted Power	
				[dBm]	[mW]
2402	125 kbps	0	LE	9.03	7.997
2440	125 kbps	19	LE	9.27	8.453
2480	125 kbps	39	LE	7.94	6.220
2402	500 kbps	0	LE	9.00	7.936
2440	500 kbps	19	LE	9.29	8.492
2480	500 kbps	39	LE	7.95	6.234
2402	1 Mbps	0	LE	18.91	77.839
2440	1 Mbps	19	LE	18.92	77.947
2480	1 Mbps	39	LE	17.59	57.465
2404	2 Mbps	0	LE	18.98	79.068
2440	2 Mbps	19	LE	18.60	72.444
2478	2 Mbps	39	LE	17.85	61.010

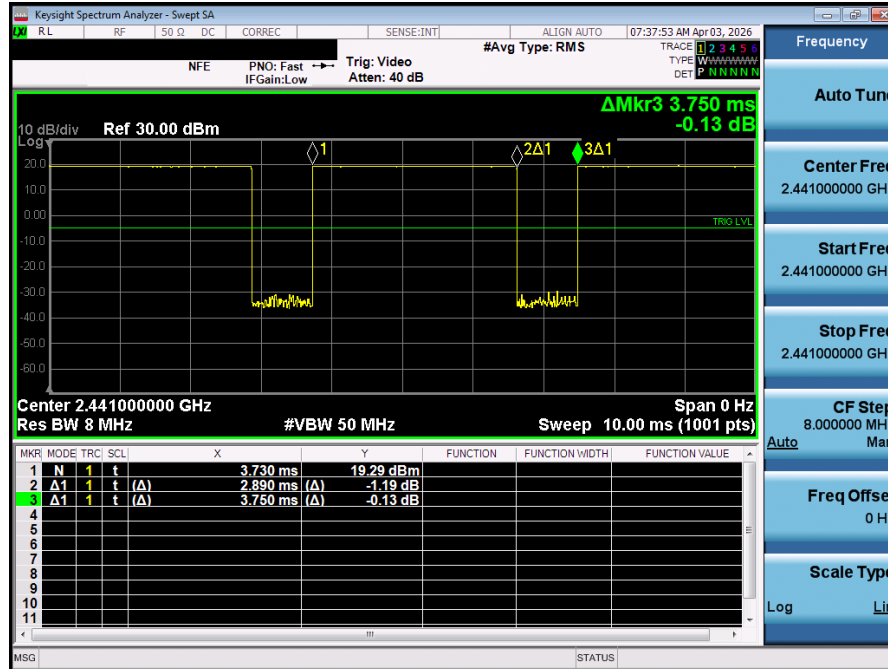
Table 10-111
Bluetooth LE Measured P_{Max} Peak RF Power for all DSI – MIMO

Frequency [MHz]	Data Rate [Mbps]	Channel No.	Bluetooth Mode	ANT1 Peak Conducted Power		ANT2 Peak Conducted Power		Dual Peak Conducted Power	
				[dBm]	[mW]	[dBm]	[mW]	[dBm]	[mW]
2402	1 Mbps	0	LE	13.88	24.440	11.35	13.633	15.81	38.073
2440	1 Mbps	19	LE	14.88	30.775	12.29	16.932	16.79	47.707
2480	1 Mbps	39	LE	14.24	26.540	10.55	11.358	15.79	37.898
2402	2 Mbps	0	LE	14.35	27.196	12.05	16.018	16.36	43.213
2440	2 Mbps	19	LE	14.69	29.431	12.30	16.967	16.66	46.397
2480	2 Mbps	39	LE	14.38	27.441	10.81	12.053	15.97	39.494

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Figure 10-7
Bluetooth Antenna G Transmission Plot



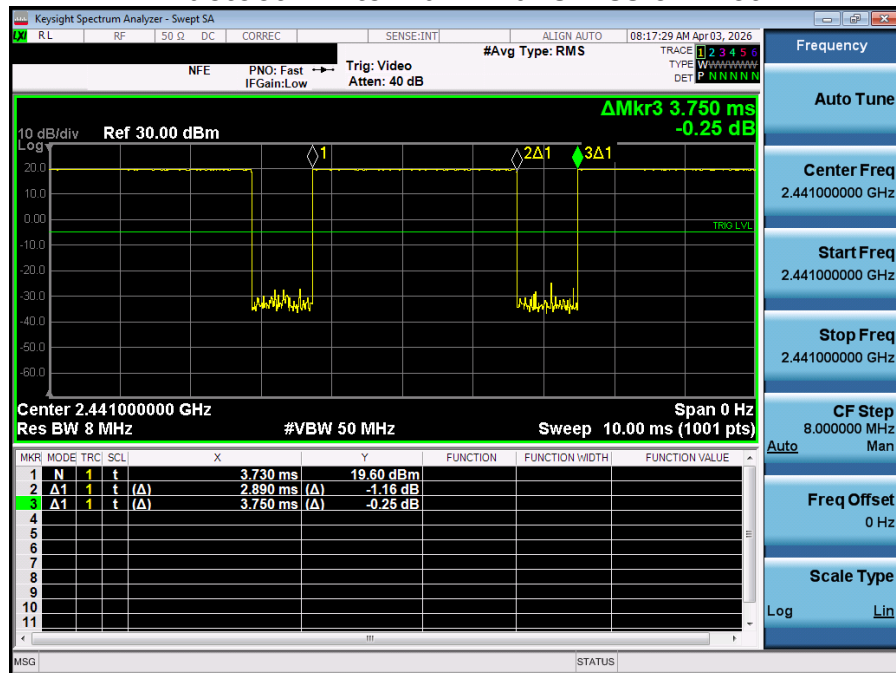
Equation 10-1

Bluetooth Antenna G Duty Cycle Calculation

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

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Figure 10-8
Bluetooth Antenna C Transmission Plot



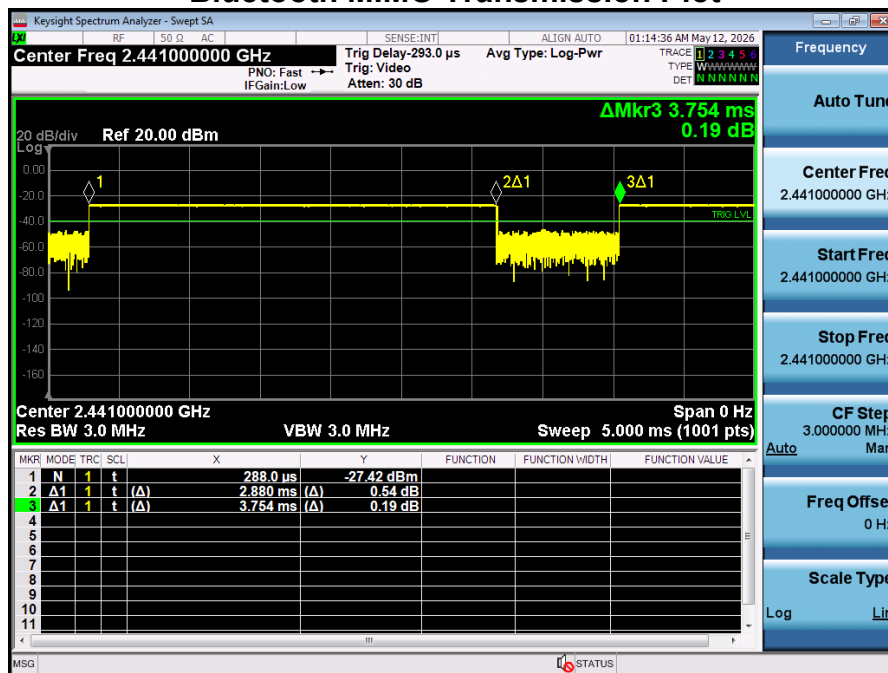
Equation 10-2

Bluetooth Antenna C Duty Cycle Calculation

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

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Figure 10-9
Bluetooth MIMO Transmission Plot



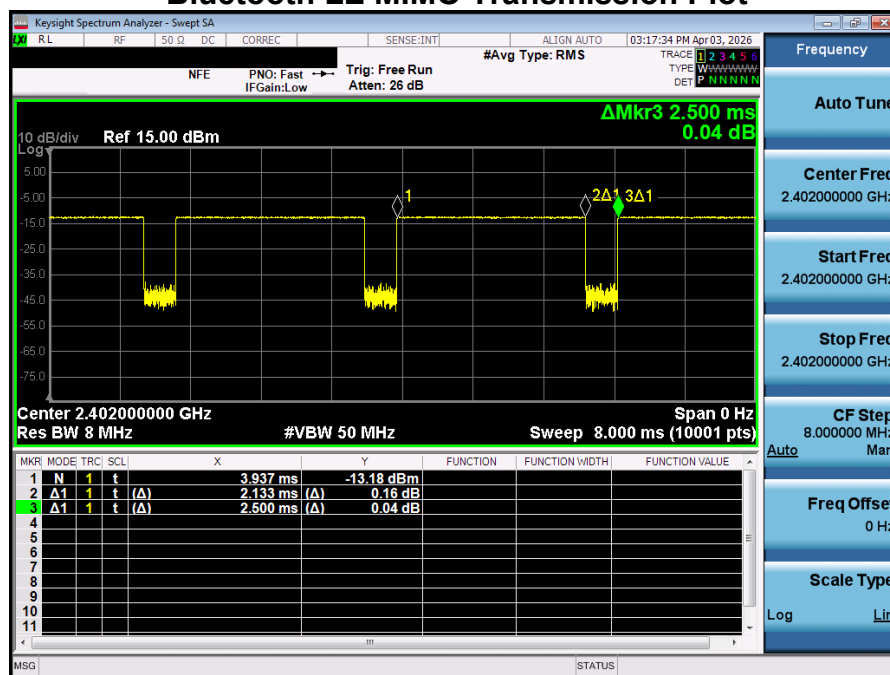
Equation 10-3
Bluetooth MIMO Duty Cycle Calculation

$$\text{Duty Cycle} = \frac{\text{Pulse Width}}{\text{Period}} * 100\% = \frac{2.880\text{ms}}{3.754\text{ms}} * 100\% = 76.7\%$$

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Figure 10-12
Bluetooth LE MIMO Transmission Plot



Equation 10-6

Bluetooth LE MIMO Duty Cycle Calculation

$$Duty\ Cycle = \frac{Pulse\ Width}{Period} * 100\% = \frac{2.133ms}{2.500ms} * 100\% = 85.3\%$$

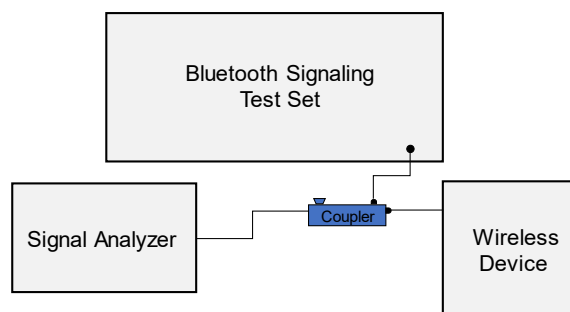


Figure 10-13
Power Measurement Setup

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11 SYSTEM VERIFICATION

11.1 Tissue Verification

Table 11-1
Measured Head Tissue Properties

Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ϵ	% dev σ	% dev ϵ
04/23/2026	30 Head	20.0	12	0.786	52.451	0.750	55.000	4.80%	-4.63%
			13	0.786	53.074	0.750	55.000	4.80%	-3.50%
			14	0.786	53.447	0.750	55.000	4.80%	-2.82%
03/30/2026	750 Head	22.9	680	0.879	40.191	0.888	42.305	-1.01%	-5.00%
			695	0.885	40.128	0.889	42.227	-0.45%	-4.97%
			700	0.887	40.105	0.889	42.201	-0.22%	-4.97%
			710	0.891	40.062	0.890	42.149	0.11%	-4.95%
			725	0.896	40.002	0.891	42.071	0.56%	-4.92%
			750	0.905	39.907	0.894	41.942	1.23%	-4.85%
			770	0.912	39.829	0.895	41.838	1.90%	-4.80%
			785	0.917	39.776	0.896	41.760	2.34%	-4.75%
			800	0.922	39.736	0.897	41.682	2.79%	-4.67%
			680	0.864	42.043	0.888	42.305	-2.67%	-0.62%
04/02/2026	750 Head	23.4	695	0.877	41.631	0.889	42.227	-1.37%	-1.41%
			700	0.878	41.655	0.889	42.201	-1.27%	-1.29%
			710	0.880	41.698	0.890	42.149	-1.17%	-1.07%
			725	0.884	41.664	0.891	42.071	-0.80%	-0.97%
			750	0.892	41.575	0.894	41.942	-0.27%	-0.88%
			770	0.898	41.491	0.895	41.838	0.34%	-0.83%
			785	0.902	41.448	0.896	41.760	0.69%	-0.75%
			800	0.907	41.429	0.897	41.682	1.08%	-0.61%
			680	0.852	41.740	0.888	42.305	-4.05%	-1.34%
			695	0.857	41.700	0.889	42.227	-3.60%	-1.25%
04/06/2026	750 Head	20.8	700	0.858	41.690	0.889	42.201	-3.49%	-1.21%
			710	0.862	41.670	0.890	42.149	-3.15%	-1.14%
			725	0.867	41.640	0.891	42.071	-2.69%	-1.02%
			750	0.876	41.571	0.894	41.942	-2.01%	-0.88%
			770	0.883	41.491	0.895	41.838	-1.34%	-0.83%
			785	0.888	41.437	0.896	41.760	-0.89%	-0.77%
			800	0.893	41.391	0.897	41.682	-0.45%	-0.70%
			680	0.851	42.750	0.888	42.305	-4.17%	1.05%
			695	0.855	42.703	0.889	42.227	-3.82%	1.13%
			700	0.857	42.688	0.889	42.201	-3.60%	1.15%
04/06/2026	750 Head	21.3	710	0.860	42.662	0.890	42.149	-3.37%	1.22%
			725	0.865	42.625	0.891	42.071	-2.92%	1.32%
			750	0.874	42.554	0.894	41.942	-2.24%	1.46%
			770	0.881	42.486	0.895	41.838	-1.56%	1.55%
			785	0.886	42.434	0.896	41.760	-1.12%	1.61%
			800	0.890	42.383	0.897	41.682	-0.78%	1.68%
			680	0.844	41.866	0.888	42.305	-4.95%	-1.04%
			695	0.849	41.820	0.889	42.227	-4.50%	-0.96%
			710	0.854	41.783	0.890	42.149	-4.04%	-0.87%
			725	0.860	41.759	0.891	42.071	-3.48%	-0.74%
04/09/2026	750 Head	21.5	750	0.869	41.707	0.894	41.942	-2.80%	-0.56%
			770	0.877	41.644	0.895	41.838	-2.01%	-0.46%
			785	0.882	41.585	0.896	41.760	-1.56%	-0.42%
			800	0.888	41.534	0.897	41.682	-1.00%	-0.36%
			680	0.846	40.941	0.888	42.305	-4.73%	-3.22%
			695	0.850	40.880	0.889	42.227	-4.39%	-3.19%
04/27/2026	750 Head	21.3	710	0.855	40.825	0.890	42.149	-3.93%	-3.14%
			725	0.860	40.779	0.891	42.071	-3.48%	-3.07%
			750	0.869	40.710	0.894	41.942	-2.80%	-2.94%
			770	0.876	40.653	0.895	41.838	-2.12%	-2.83%
			785	0.881	40.603	0.896	41.760	-1.67%	-2.77%
			800	0.886	40.551	0.897	41.682	-1.23%	-2.71%
			680	0.846	40.941	0.888	42.305	-4.73%	-3.22%

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Table 11-2
Measured Head Tissue Properties

Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, ϵ	% dev σ	% dev ϵ
03/29/2026	835 Head	21.0	815	0.890	40.533	0.898	41.594	-0.89%	-2.55%
			820	0.892	40.523	0.899	41.578	-0.78%	-2.54%
			835	0.897	40.489	0.900	41.500	-0.33%	-2.44%
			850	0.902	40.448	0.916	41.500	-1.53%	-2.53%
04/02/2026	835 Head	22.1	815	0.890	40.855	0.898	41.594	-0.94%	-1.78%
			820	0.891	40.845	0.899	41.578	-0.86%	-1.76%
			835	0.897	40.814	0.900	41.500	-0.38%	-1.65%
			850	0.902	40.778	0.916	41.500	-1.52%	-1.74%
04/22/2026	835 Head	22.3	815	0.891	40.790	0.898	41.594	-0.78%	-1.93%
			820	0.893	40.776	0.899	41.578	-0.67%	-1.93%
			835	0.898	40.739	0.900	41.500	-0.22%	-1.83%
			850	0.903	40.701	0.916	41.500	-1.42%	-1.93%
04/27/2026	835 Head	24.0	815	0.881	42.443	0.898	41.594	-1.89%	2.04%
			820	0.882	42.419	0.899	41.578	-1.89%	2.02%
			835	0.886	42.352	0.900	41.500	-1.56%	2.05%
			850	0.890	42.314	0.916	41.500	-2.84%	1.96%
04/30/2026	835 Head	21.5	815	0.898	42.462	0.898	41.594	0.00%	2.09%
			820	0.899	42.450	0.899	41.578	0.00%	2.10%
			835	0.905	42.419	0.900	41.500	0.56%	2.21%
			850	0.910	42.388	0.916	41.500	-0.66%	2.14%
03/23/2026	1750 Head	20.0	1700	1.283	40.624	1.343	40.145	-4.47%	1.19%
			1705	1.286	40.615	1.345	40.141	-4.39%	1.18%
			1710	1.289	40.605	1.348	40.136	-4.38%	1.17%
			1720	1.295	40.583	1.354	40.126	-4.36%	1.14%
			1745	1.309	40.527	1.368	40.087	-4.31%	1.10%
			1750	1.312	40.513	1.371	40.079	-4.30%	1.08%
			1770	1.323	40.464	1.383	40.047	-4.34%	1.04%
03/26/2026	1750 Head	20.4	1790	1.333	40.423	1.394	40.016	-4.38%	1.02%
			1700	1.284	39.994	1.343	40.145	-4.39%	-0.38%
			1705	1.287	39.991	1.345	40.141	-4.31%	-0.37%
			1710	1.289	39.987	1.348	40.136	-4.38%	-0.37%
			1720	1.294	39.975	1.354	40.126	-4.43%	-0.38%
			1745	1.307	39.928	1.368	40.087	-4.46%	-0.40%
			1750	1.310	39.920	1.371	40.079	-4.45%	-0.40%
04/06/2026	1750 Head	21.0	1770	1.321	39.886	1.383	40.047	-4.48%	-0.40%
			1790	1.331	39.862	1.394	40.016	-4.52%	-0.38%
			1700	1.282	39.043	1.343	40.145	-4.54%	-2.75%
			1705	1.285	39.036	1.345	40.141	-4.46%	-2.75%
			1710	1.287	39.030	1.348	40.136	-4.53%	-2.76%
			1720	1.293	39.016	1.354	40.126	-4.51%	-2.77%
			1745	1.307	39.000	1.368	40.087	-4.46%	-2.71%
04/20/2026	1750 Head	22.8	1750	1.310	38.995	1.371	40.079	-4.45%	-2.70%
			1770	1.321	38.978	1.383	40.047	-4.48%	-2.67%
			1790	1.331	38.948	1.394	40.016	-4.52%	-2.67%
			1700	1.333	40.824	1.343	40.145	-0.74%	1.69%
			1705	1.335	40.816	1.345	40.141	-0.74%	1.68%
			1710	1.337	40.811	1.348	40.136	-0.82%	1.68%
			1720	1.341	40.789	1.354	40.126	-0.96%	1.65%
04/23/2026	1750 Head	22.7	1745	1.354	40.739	1.368	40.087	-1.02%	1.63%
			1750	1.357	40.730	1.371	40.079	-1.02%	1.62%
			1770	1.366	40.700	1.383	40.047	-1.23%	1.63%
			1790	1.375	40.678	1.394	40.016	-1.36%	1.65%
			1700	1.297	39.993	1.343	40.145	-3.43%	-0.38%
			1705	1.300	39.984	1.345	40.141	-3.35%	-0.39%
			1710	1.302	39.976	1.348	40.136	-3.41%	-0.40%
04/28/2026	1750 Head	21.9	1720	1.307	39.956	1.354	40.126	-3.47%	-0.42%
			1745	1.322	39.922	1.368	40.087	-3.36%	-0.41%
			1750	1.325	39.915	1.371	40.079	-3.36%	-0.41%
			1770	1.336	39.892	1.383	40.047	-3.40%	-0.39%
			1790	1.346	39.859	1.394	40.016	-3.44%	-0.39%
			1700	1.277	39.758	1.343	40.145	-4.91%	-0.96%
			1705	1.280	39.753	1.345	40.141	-4.83%	-0.97%
05/05/2026	1750 Head	22.2	1710	1.283	39.749	1.348	40.136	-4.82%	-0.96%
			1720	1.289	39.740	1.354	40.126	-4.80%	-0.96%
			1745	1.305	39.720	1.368	40.087	-4.61%	-0.92%
			1750	1.308	39.713	1.371	40.079	-4.60%	-0.91%
			1770	1.320	39.678	1.383	40.047	-4.56%	-0.92%
			1790	1.331	39.628	1.394	40.016	-4.52%	-0.97%
			1700	1.282	41.798	1.343	40.145	-4.54%	4.12%
			1705	1.285	41.793	1.345	40.141	-4.46%	4.12%
			1710	1.288	41.787	1.348	40.136	-4.45%	4.11%
			1720	1.294	41.769	1.354	40.126	-4.43%	4.09%
			1745	1.309	41.726	1.368	40.087	-4.31%	4.09%
			1750	1.312	41.721	1.371	40.079	-4.30%	4.10%
			1770	1.323	41.685	1.383	40.047	-4.34%	4.09%
			1790	1.333	41.642	1.394	40.016	-4.38%	4.06%

Table 11-3
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
03/23/2026	1900 Head	20.0	1850	1.365	40.299	1.400	40.000	-2.50%	0.75%
			1860	1.371	40.287	1.400	40.000	-2.07%	0.72%
			1880	1.384	40.264	1.400	40.000	-1.14%	0.66%
			1900	1.397	40.244	1.400	40.000	-0.21%	0.61%
			1905	1.400	40.240	1.400	40.000	0.00%	0.60%
			1910	1.403	40.234	1.400	40.000	0.21%	0.59%
			1920	1.409	40.227	1.400	40.000	0.64%	0.57%
03/23/2026	1900 Head	20.4	1850	1.391	39.280	1.400	40.000	-0.64%	-1.80%
			1860	1.396	39.269	1.400	40.000	-0.29%	-1.83%
			1880	1.408	39.256	1.400	40.000	0.57%	-1.86%
			1900	1.422	39.253	1.400	40.000	1.57%	-1.87%
			1905	1.425	39.251	1.400	40.000	1.79%	-1.87%
			1910	1.429	39.247	1.400	40.000	2.07%	-1.88%
			1920	1.436	39.236	1.400	40.000	2.57%	-1.91%
03/26/2026	1900 Head	20.4	1850	1.360	39.774	1.400	40.000	-2.86%	-0.56%
			1860	1.365	39.771	1.400	40.000	-2.50%	-0.57%
			1880	1.376	39.769	1.400	40.000	-1.71%	-0.58%
			1900	1.387	39.754	1.400	40.000	-0.93%	-0.62%
			1905	1.389	39.744	1.400	40.000	-0.79%	-0.64%
			1910	1.392	39.736	1.400	40.000	-0.57%	-0.66%
			1920	1.398	39.717	1.400	40.000	-0.14%	-0.71%
04/20/2026	1900 Head	22.9	1850	1.368	40.127	1.400	40.000	-2.29%	0.32%
			1860	1.374	40.116	1.400	40.000	-1.86%	0.29%
			1880	1.384	40.098	1.400	40.000	-1.14%	0.24%
			1900	1.393	40.083	1.400	40.000	-0.50%	0.21%
			1905	1.396	40.079	1.400	40.000	-0.29%	0.20%
			1910	1.398	40.077	1.400	40.000	-0.14%	0.19%
			1920	1.403	40.067	1.400	40.000	0.21%	0.17%
04/23/2026	1900 Head	22.7	1850	1.377	39.743	1.400	40.000	-1.64%	-0.64%
			1860	1.382	39.734	1.400	40.000	-1.29%	-0.66%
			1880	1.392	39.714	1.400	40.000	-0.57%	-0.72%
			1900	1.402	39.695	1.400	40.000	0.14%	-0.76%
			1905	1.404	39.689	1.400	40.000	0.29%	-0.78%
			1910	1.407	39.684	1.400	40.000	0.50%	-0.79%
			1920	1.412	39.669	1.400	40.000	0.86%	-0.83%
04/28/2026	1900 Head	21.9	1850	1.367	39.514	1.400	40.000	-2.36%	-1.21%
			1860	1.373	39.508	1.400	40.000	-1.93%	-1.23%
			1880	1.384	39.495	1.400	40.000	-1.14%	-1.26%
			1900	1.394	39.469	1.400	40.000	-0.43%	-1.33%
			1905	1.397	39.460	1.400	40.000	-0.21%	-1.35%
			1910	1.400	39.452	1.400	40.000	0.00%	-1.37%
			1920	1.405	39.434	1.400	40.000	0.36%	-1.42%
05/05/2026	1900 Head	22.2	1850	1.367	41.550	1.400	40.000	-2.36%	3.87%
			1860	1.374	41.539	1.400	40.000	-1.86%	3.85%
			1880	1.385	41.517	1.400	40.000	-1.07%	3.79%
			1900	1.396	41.491	1.400	40.000	-0.29%	3.73%
			1905	1.399	41.484	1.400	40.000	-0.07%	3.71%
			1910	1.402	41.474	1.400	40.000	0.14%	3.68%
			1920	1.407	41.457	1.400	40.000	0.50%	3.64%

FCC ID: A3LSMF776B	RF EXPOSURE PART 1 TEST REPORT			Approved by: Technical Manager
Document S/N: 1M2603110020-01.A3L (Rev1)	DUT Type: Portable Handset	This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo. 		Page 116 of 171

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Table 11-4
Measured Head Tissue Properties

Calibrated for Tests Performed etc.	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
03/29/2026	2450 Head	20.4	2300	1.697	39.005	1.670	39.500	1.62%	-1.25%
			2310	1.705	38.962	1.679	39.480	1.55%	-1.24%
			2320	1.713	38.975	1.687	39.460	1.54%	-1.23%
			2400	1.777	38.822	1.756	39.289	1.20%	-1.19%
			2450	1.815	38.726	1.800	39.200	0.83%	-1.26%
			2480	1.839	38.659	1.833	39.162	0.33%	-1.28%
			2500	1.854	38.615	1.855	39.136	-0.05%	-1.33%
			2510	1.861	38.593	1.866	39.123	-0.27%	-1.35%
			2535	1.892	38.547	1.893	39.092	-0.58%	-1.39%
			2550	1.894	38.526	1.909	39.073	-0.79%	-1.40%
			2560	1.902	38.512	1.920	39.060	-0.94%	-1.40%
			2600	1.934	38.432	1.964	39.009	-1.53%	-1.48%
			2650	1.976	38.350	2.018	38.945	-2.08%	-1.53%
			2680	2.001	38.284	2.051	38.907	-2.44%	-1.60%
			2700	2.015	38.250	2.073	38.882	-2.80%	-1.63%
			2300	1.660	39.222	1.670	39.500	-0.60%	-0.70%
			2310	1.668	39.211	1.679	39.480	-0.66%	-0.68%
			2320	1.676	39.198	1.687	39.460	-0.71%	-0.66%
			2400	1.736	39.060	1.756	39.289	-1.14%	-0.28%
			2450	1.773	38.960	1.800	39.200	-1.50%	-0.61%
04/01/2026	2450 Head	20.0	2480	1.796	38.925	1.833	39.162	-2.02%	-0.61%
			2500	1.810	38.892	1.855	39.136	-2.43%	-0.62%
			2510	1.817	38.873	1.866	39.123	-2.63%	-0.64%
			2535	1.839	38.824	1.893	39.092	-2.85%	-0.69%
			2550	1.851	38.806	1.909	39.073	-3.04%	-0.68%
			2560	1.859	38.796	1.920	39.060	-3.18%	-0.68%
			2600	1.890	38.718	1.964	39.009	-3.77%	-0.73%
			2650	1.931	38.646	2.018	38.945	-4.31%	-0.77%
			2680	1.953	38.581	2.051	38.907	-4.78%	-0.84%
			2700	1.970	38.541	2.073	38.882	-4.97%	-0.88%
			2300	1.726	41.242	1.670	39.500	3.35%	4.41%
			2310	1.734	41.227	1.679	39.480	3.28%	4.43%
			2320	1.742	41.213	1.687	39.460	3.26%	4.44%
			2400	1.803	41.076	1.756	39.289	2.68%	4.55%
			2450	1.842	41.002	1.800	39.200	2.33%	4.60%
			2480	1.865	40.948	1.833	39.162	1.75%	4.56%
			2500	1.880	40.916	1.855	39.136	1.35%	4.55%
			2510	1.887	40.896	1.866	39.123	1.13%	4.53%
			2535	1.907	40.851	1.893	39.092	0.74%	4.50%
			2550	1.921	40.833	1.909	39.073	0.63%	4.50%
04/06/2026	2450 Head	20.5	2560	1.929	40.821	1.920	39.060	0.47%	4.51%
			2600	1.962	40.778	1.964	39.009	-0.10%	4.53%
			2650	2.002	40.661	2.018	38.945	-0.79%	4.41%
			2680	2.030	40.611	2.051	38.907	-1.02%	4.38%
			2700	2.047	40.606	2.073	38.882	-1.25%	4.43%
			2300	1.696	38.140	1.670	39.500	0.96%	-3.46%
			2310	1.693	38.107	1.679	39.480	0.83%	-3.46%
			2320	1.700	38.094	1.687	39.460	0.77%	-3.46%
			2400	1.758	37.977	1.756	39.289	0.11%	-3.34%
			2450	1.794	37.890	1.800	39.200	-0.33%	-3.34%
			2480	1.816	37.843	1.833	39.162	-0.93%	-3.37%
			2500	1.830	37.818	1.855	39.136	-1.35%	-3.37%
			2510	1.837	37.799	1.866	39.123	-1.55%	-3.38%
			2535	1.856	37.760	1.893	39.092	-1.95%	-3.41%
			2550	1.869	37.736	1.909	39.073	-2.10%	-3.42%
			2560	1.876	37.720	1.920	39.060	-2.29%	-3.43%
			2600	1.907	37.662	1.964	39.009	-2.90%	-3.45%
			2650	1.945	37.575	2.018	38.945	-3.62%	-3.52%
			2680	1.971	37.530	2.051	38.907	-3.90%	-3.54%
04/23/2026	2450 Head	20.5	2700	1.998	37.512	2.073	38.882	-4.20%	-3.52%
			2300	1.646	40.433	1.670	39.500	-1.44%	2.41%
			2310	1.655	40.444	1.679	39.480	-1.43%	2.44%
			2320	1.663	40.433	1.687	39.460	-1.42%	2.47%
			2400	1.726	40.314	1.756	39.289	-1.71%	2.61%
			2450	1.766	40.207	1.800	39.200	-1.89%	2.57%
			2480	1.791	40.162	1.833	39.162	-2.29%	2.55%
			2500	1.806	40.141	1.855	39.136	-2.64%	2.57%
			2510	1.814	40.124	1.866	39.123	-2.79%	2.56%
			2535	1.836	40.086	1.893	39.092	-3.06%	2.54%
			2550	1.846	40.069	1.909	39.073	-3.20%	2.52%
			2560	1.856	40.035	1.920	39.060	-3.33%	2.50%
			2600	1.880	39.964	1.964	39.009	-3.82%	2.45%
			2650	1.931	39.888	2.018	38.945	-4.31%	2.42%
			2680	1.959	39.832	2.051	38.907	-4.49%	2.38%
			2700	1.975	39.809	2.073	38.882	-4.73%	2.35%
			2300	1.670	39.255	1.670	39.500	0.00%	-0.62%
			2310	1.678	39.246	1.679	39.480	-0.06%	-0.59%
			2320	1.686	39.237	1.687	39.460	-0.06%	-0.57%
04/27/2026	2450 Head	19.0	2400	1.751	39.062	1.756	39.289	-0.28%	-0.53%
			2450	1.787	38.997	1.800	39.200	-0.72%	-0.52%
			2480	1.809	38.896	1.833	39.162	-1.31%	-0.68%
			2500	1.827	38.845	1.855	39.136	-1.51%	-0.74%
			2510	1.837	38.828	1.866	39.123	-1.58%	-0.75%
			2535	1.859	38.804	1.893	39.092	-1.80%	-0.74%
			2550	1.869	38.784	1.909	39.073	-2.10%	-0.74%
			2560	1.876	38.757	1.920	39.060	-2.29%	-0.78%
			2600	1.905	38.618	1.964	39.009	-2.00%	-1.00%
			2650	1.952	38.608	2.018	38.945	-2.27%	-1.12%
			2680	1.975	38.442	2.051	38.907	-3.71%	-1.20%
			2700	1.988	38.387	2.073	38.882	-4.10%	-1.27%
			2300	1.649	38.360	1.670	39.500	-1.26%	-2.89%
			2310	1.656	38.354	1.679	39.480	-1.57%	-2.89%
			2320	1.663	38.348	1.687	39.460	-1.42%	-2.82%
			2400	1.722	38.290	1.756	39.289	-1.94%	-2.54%
			2450	1.756	38.231	1.800	39.200	-2.44%	-2.47%
			2480	1.779	38.179	1.833	39.162	-2.89%	-2.51%
			2500	1.794	38.168	1.855	39.136	-3.29%	-2.48%
04/30/2026	2450 Head	21.8	2510	1.802	38.160	1.866	39.123	-3.43%	-2.46%
			2535	1.818	38.140	1.893	39.092	-3.96%	-2.44%
			2550	1.828	38.119	1.909	39.073	-4.24%	-2.44%
			2560	1.834	38.099	1.920	39.060	-4.46%	-2.46%
			2300	1.696	41.342	1.670	39.500	-0.24%	4.66%
			2310	1.674	41.324	1.679	39.480	-0.30%	4.67%
			2320	1.681	41.307	1.687	39.460	-0.36%	4.68%
			2400	1.743	41.180	1.756	39.289	-0.74%	4.76%
			2450	1.781	41.073	1.800	39.200	-1.06%	4.78%
			2480	1.803	41.015	1.833	39.162	-1.64%	4.73%
			2500	1.818	40.984	1.855	39.136	-1.99%	4.72%
			2510	1.826	40.971	1.866	39.123	-2.14%	4.72%
			2535	1.845	40.936	1.893	39.092	-2.54%	4.72%
			2550	1.866	40.911	1.909	39.073	-2.78%	4.70%
			2560	1.864	40.895	1.920	39.060	-2.92%	4.70%
			2600	1.896	40.845	1.964	39.009	-3.46%	4.71%
			2650	1.935	40.770	2.018	38.945	-4.11%	4.69%
			2680	1.960	40.730	2.051	38.907	-4.44%	4.69%
			2700	1.977	40.706	2.073	38.882	-4.63%	4.69%

Table 11-5
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
04/09/2026	3600 Head	20.0	3300	2.767	37.750	2.708	38.157	2.18%	-1.07%
			3350	2.810	37.692	2.759	38.100	1.85%	-1.07%
			3450	2.892	37.532	2.861	37.986	1.08%	-1.20%
			3500	2.930	37.459	2.913	37.929	0.58%	-1.24%
			3550	2.970	37.370	2.964	37.871	0.20%	-1.32%
			3560	2.979	37.351	2.974	37.860	0.17%	-1.34%
			3600	3.007	37.287	3.015	37.814	-0.27%	-1.39%
			3650	3.047	37.212	3.066	37.757	-0.62%	-1.44%
			3690	3.079	37.154	3.107	37.711	-0.90%	-1.48%
			3700	3.089	37.142	3.117	37.700	-0.90%	-1.48%
			3750	3.133	37.084	3.169	37.643	-1.14%	-1.49%
			3900	3.257	36.920	3.323	37.471	-1.99%	-1.47%
			3930	3.283	36.899	3.353	37.437	-2.09%	-1.44%
			4100	3.440	36.702	3.528	37.243	-2.49%	-1.45%
			4150	3.486	36.616	3.579	37.186	-2.60%	-1.53%
			3300	2.774	36.566	2.708	38.157	2.44%	-4.20%
			3350	2.806	36.508	2.759	38.100	1.70%	-4.18%
			3450	2.882	36.348	2.861	37.986	0.73%	-4.31%
			3500	2.920	36.291	2.913	37.929	0.24%	-4.32%
			3550	2.959	36.194	2.964	37.871	-0.17%	-4.43%
04/13/2026	3600 Head	21.5	3560	2.968	36.180	2.974	37.860	-0.20%	-4.44%
			3600	2.996	36.156	3.015	37.814	-0.63%	-4.38%
			3650	3.038	36.069	3.066	37.757	-0.91%	-4.47%
			3690	3.065	36.042	3.107	37.711	-1.35%	-4.43%
			3700	3.073	36.027	3.117	37.700	-1.41%	-4.44%
			3750	3.114	35.965	3.169	37.643	-1.74%	-4.46%
			3900	3.235	35.771	3.323	37.471	-2.65%	-4.54%
			3930	3.261	35.758	3.353	37.437	-2.74%	-4.48%
			4100	3.413	35.551	3.528	37.243	-3.26%	-4.54%
			4150	3.450	35.460	3.579	37.186	-3.60%	-4.64%
			5150	4.392	37.265	4.608	36.050	-4.69%	3.37%
			5160	4.398	37.263	4.618	36.040	-4.76%	3.39%
			5170	4.403	37.264	4.629	36.030	-4.88%	3.42%
			5180	4.409	37.250	4.635	36.009	-4.88%	3.45%
			5190	4.416	37.231	4.645	35.998	-4.93%	3.43%
			5200	4.426	37.205	4.655	35.986	-4.92%	3.39%
			5210	4.434	37.180	4.666	35.975	-4.97%	3.35%
			5240	4.474	37.083	4.696	35.940	-4.73%	3.18%
			5250	4.493	37.073	4.706	35.929	-4.53%	3.18%
			5260	4.512	37.063	4.717	35.917	-4.35%	3.19%
04/06/2026	5200-5800 Head	19.9	5270	4.527	37.067	4.727	35.906	-4.23%	3.23%
			5280	4.539	37.062	4.737	35.894	-4.18%	3.25%
			5290	4.545	37.052	4.748	35.883	-4.28%	3.26%
			5300	4.547	37.038	4.758	35.871	-4.43%	3.25%
			5310	4.554	37.017	4.768	35.860	-4.49%	3.23%
			5320	4.559	36.996	4.778	35.849	-4.58%	3.20%
			5500	4.762	36.647	4.963	35.643	-4.05%	2.82%
			5510	4.779	36.642	4.973	35.632	-3.90%	2.83%
			5520	4.789	36.624	4.983	35.620	-3.89%	2.82%
			5530	4.798	36.601	4.994	35.609	-3.92%	2.79%
			5540	4.812	36.582	5.004	35.597	-3.84%	2.77%
			5550	4.827	36.566	5.014	35.586	-3.73%	2.75%
			5560	4.839	36.550	5.024	35.574	-3.68%	2.74%
			5580	4.851	36.513	5.045	35.551	-3.85%	2.71%
			5600	4.876	36.468	5.065	35.529	-3.73%	2.64%
			5610	4.888	36.437	5.076	35.518	-3.70%	2.59%
			5620	4.897	36.420	5.086	35.506	-3.72%	2.57%
			5640	4.922	36.398	5.106	35.483	-3.60%	2.58%
			5660	4.952	36.345	5.127	35.460	-3.41%	2.50%
			5670	4.966	36.341	5.137	35.449	-3.33%	2.52%
			5680	4.977	36.334	5.147	35.437	-3.30%	2.53%
			5690	4.989	36.315	5.158	35.426	-3.28%	2.51%
			5700	4.995	36.305	5.168	35.414	-3.35%	2.52%
			5710	5.001	36.285	5.178	35.403	-3.42%	2.49%
			5720	5.009	36.266	5.188	35.391	-3.45%	2.47%
			5745	5.039	36.208	5.214	35.363	-3.36%	2.39%
			5750	5.042	36.193	5.219	35.357	-3.39%	2.36%
			5755	5.049	36.177	5.224	35.351	-3.35%	2.34%
			5765	5.064	36.145	5.234	35.340	-3.25%	2.28%
			5775	5.082	36.144	5.245	35.329	-3.11%	2.31%
			5785	5.101	36.139	5.255	35.317	-2.93%	2.33%
			5795	5.114	36.130	5.265	35.305	-2.87%	2.34%
			5805	5.125	36.112	5.275	35.294	-2.84%	2.32%
			5825	5.142	36.107	5.296	35.271	-2.91%	2.37%
			5835	5.149	36.105	5.305	35.230	-2.94%	2.48%
			5845	5.150	36.083	5.315	35.210	-3.10%	2.48%
			5850	5.153	36.066	5.320	35.200	-3.14%	2.46%
			5855	5.155	36.061	5.325	35.197	-3.19%	2.45%
			5875	5.183	36.016	5.347	35.183	-3.07%	2.37%
			5885	5.202	35.986	5.357	35.177	-2.89%	2.30%
			5905	5.234	35.920	5.379	35.163	-2.70%	2.15%

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Table 11-6
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
04/20/2026	5200-5800 Head	19.5	5150	4.420	36.293	4.608	36.050	-4.51%	0.65%
			5160	4.407	36.295	4.618	36.040	-4.57%	0.63%
			5170	4.413	36.248	4.629	36.030	-4.67%	0.61%
			5180	4.426	36.224	4.635	36.009	-4.51%	0.60%
			5190	4.442	36.195	4.645	35.998	-4.37%	0.55%
			5200	4.453	36.183	4.655	35.986	-4.34%	0.55%
			5210	4.462	36.169	4.656	35.975	-4.37%	0.54%
			5220	4.475	36.148	4.676	35.963	-4.30%	0.51%
			5240	4.500	36.104	4.696	35.940	-4.17%	0.46%
			5250	4.511	36.097	4.706	35.929	-4.14%	0.47%
			5260	4.521	36.085	4.717	35.917	-4.16%	0.47%
			5270	4.531	36.071	4.727	35.906	-4.15%	0.46%
			5280	4.541	36.042	4.737	35.894	-4.14%	0.41%
			5290	4.553	36.017	4.748	35.883	-4.17%	0.37%
			5300	4.564	36.001	4.758	35.871	-4.08%	0.36%
			5310	4.575	35.979	4.768	35.860	-4.05%	0.33%
			5320	4.585	35.963	4.778	35.849	-4.04%	0.32%
			5500	4.775	35.629	4.963	35.643	-3.71%	-0.04%
			5510	4.793	35.592	4.973	35.632	-3.62%	-0.11%
			5520	4.807	35.578	4.983	35.620	-3.53%	-0.12%
			5530	4.823	35.561	4.994	35.609	-3.42%	-0.13%
			5540	4.832	35.550	5.004	35.597	-3.44%	-0.13%
			5550	4.841	35.537	5.014	35.586	-3.45%	-0.14%
			5560	4.852	35.521	5.024	35.574	-3.42%	-0.15%
			5580	4.875	35.484	5.045	35.551	-3.37%	-0.19%
			5600	4.890	35.440	5.065	35.529	-3.28%	-0.25%
			5610	4.911	35.419	5.076	35.518	-3.25%	-0.28%
			5620	4.920	35.403	5.086	35.506	-3.26%	-0.29%
			5640	4.940	35.361	5.106	35.483	-3.07%	-0.34%
			5660	4.975	35.312	5.127	35.460	-2.96%	-0.42%
			5670	4.983	35.300	5.137	35.449	-3.00%	-0.42%
			5680	4.994	35.285	5.147	35.437	-2.97%	-0.43%
			5690	5.005	35.278	5.158	35.426	-2.97%	-0.42%
			5700	5.019	35.263	5.168	35.414	-2.88%	-0.43%
			5710	5.032	35.250	5.178	35.403	-2.82%	-0.43%
			5720	5.043	35.225	5.188	35.391	-2.79%	-0.47%
			5745	5.070	35.165	5.214	35.363	-2.76%	-0.56%
			5750	5.076	35.156	5.219	35.357	-2.74%	-0.57%
			5755	5.081	35.144	5.224	35.351	-2.74%	-0.59%
			5765	5.091	35.132	5.234	35.340	-2.73%	-0.59%
			5775	5.103	35.120	5.245	35.329	-2.71%	-0.59%
			5785	5.117	35.103	5.255	35.317	-2.63%	-0.61%
			5795	5.129	35.090	5.265	35.305	-2.58%	-0.61%
			5805	5.142	35.070	5.275	35.294	-2.52%	-0.63%
			5825	5.164	35.040	5.296	35.271	-2.49%	-0.65%
			5835	5.175	35.015	5.305	35.230	-2.45%	-0.61%
			5845	5.189	34.994	5.315	35.210	-2.37%	-0.61%
			5850	5.195	34.989	5.320	35.200	-2.35%	-0.60%
			5855	5.201	34.984	5.325	35.197	-2.33%	-0.61%
			5875	5.223	34.965	5.347	35.183	-2.32%	-0.62%
			5885	5.234	34.951	5.357	35.177	-2.30%	-0.64%
			5905	5.265	34.929	5.379	35.163	-2.12%	-0.67%
04/27/2026	5200-5800 Head	19.0	5150	4.408	36.698	4.608	36.050	-4.34%	1.80%
			5160	4.417	36.687	4.618	36.040	-4.35%	1.80%
			5170	4.410	36.662	4.629	36.030	-4.54%	1.72%
			5180	4.420	36.622	4.635	36.009	-4.64%	1.65%
			5190	4.423	36.531	4.645	35.998	-4.78%	1.48%
			5200	4.435	36.480	4.655	35.986	-4.73%	1.37%
			5210	4.446	36.451	4.666	35.975	-4.71%	1.32%
			5220	4.461	36.427	4.676	35.963	-4.60%	1.29%
			5240	4.499	36.428	4.696	35.940	-4.20%	1.36%
			5250	4.515	36.444	4.706	35.929	-4.06%	1.42%
			5260	4.525	36.451	4.717	35.917	-4.07%	1.49%
			5270	4.531	36.451	4.727	35.906	-4.15%	1.52%
			5280	4.537	36.438	4.737	35.894	-4.22%	1.52%
			5290	4.541	36.401	4.748	35.883	-4.36%	1.44%
			5300	4.544	36.342	4.758	35.871	-4.50%	1.31%
			5310	4.550	36.273	4.768	35.860	-4.57%	1.15%
			5320	4.558	36.216	4.778	35.849	-4.60%	1.02%
			5500	4.765	35.920	4.963	35.643	-3.98%	0.78%
			5510	4.775	35.957	4.973	35.632	-3.98%	0.91%
			5520	4.785	35.956	4.983	35.620	-3.97%	0.94%
			5530	4.796	35.917	4.994	35.609	-3.96%	0.86%
			5540	4.805	35.855	5.004	35.597	-3.98%	0.72%
			5550	4.818	35.817	5.014	35.586	-3.97%	0.65%
			5560	4.832	35.771	5.024	35.574	-3.85%	0.55%
			5580	4.847	35.684	5.045	35.551	-3.92%	0.37%
			5600	4.871	35.645	5.065	35.529	-3.83%	0.33%
			5610	4.885	35.642	5.076	35.518	-3.76%	0.35%
			5620	4.895	35.642	5.086	35.506	-3.76%	0.38%
			5640	4.928	35.620	5.106	35.483	-3.53%	0.39%
			5660	4.958	35.622	5.127	35.460	-3.36%	0.46%
			5670	4.965	35.601	5.137	35.449	-3.29%	0.43%
			5680	4.976	35.569	5.147	35.437	-3.32%	0.37%
			5690	4.980	35.535	5.158	35.426	-3.45%	0.31%
			5700	4.985	35.486	5.168	35.414	-3.54%	0.20%
			5710	4.994	35.453	5.178	35.403	-3.55%	0.14%
			5720	5.006	35.421	5.188	35.391	-3.51%	0.08%
			5745	5.036	35.352	5.214	35.363	-3.47%	-0.07%
			5750	5.045	35.344	5.219	35.357	-3.33%	-0.04%
			5755	5.057	35.339	5.224	35.351	-3.20%	-0.03%
			5765	5.081	35.341	5.234	35.340	-2.92%	0.00%
			5775	5.103	35.344	5.245	35.329	-2.71%	0.04%
			5785	5.119	35.358	5.255	35.317	-2.59%	0.12%
			5795	5.130	35.361	5.265	35.305	-2.56%	0.16%
			5805	5.135	35.354	5.275	35.294	-2.68%	0.17%
			5825	5.131	35.304	5.296	35.271	-3.12%	0.08%
			5835	5.134	35.264	5.305	35.230	-3.22%	0.10%
			5845	5.143	35.206	5.315	35.210	-3.24%	-0.01%
			5850	5.150	35.180	5.320	35.200	-3.20%	-0.06%
			5855	5.157	35.161	5.325	35.197	-3.15%	-0.10%
			5875	5.195	35.130	5.347	35.183	-2.84%	-0.15%
			5885	5.223	35.125	5.357	35.177	-2.50%	-0.15%
			5905	5.267	35.140	5.379	35.163	-2.08%	-0.07%

Table 11-7
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
04/06/2026	6000 Head	19.9	5935	5.227	35.220	5.411	35.143	-3.40%	0.22%
			5970	5.233	35.182	5.448	35.120	-3.95%	0.18%
			5985	5.250	35.102	5.464	35.110	-3.92%	-0.02%
			6000	5.237	35.057	5.480	35.100	-4.43%	-0.12%
			6025	5.260	34.973	5.510	35.070	-4.54%	-0.28%
			6065	5.331	34.929	5.557	35.022	-4.07%	-0.27%
			6075	5.333	34.896	5.569	35.010	-4.24%	-0.33%
			6085	5.334	34.860	5.580	34.998	-4.41%	-0.39%
			6275	5.608	34.480	5.805	34.770	-3.39%	-0.83%
			6285	5.611	34.494	5.816	34.758	-3.52%	-0.76%
			6305	5.636	34.527	5.840	34.734	-3.49%	-0.60%
			6345	5.674	34.379	5.887	34.686	-3.62%	-0.89%
			6475	5.824	34.065	6.041	34.530	-3.59%	-1.35%
			6485	5.841	34.078	6.052	34.518	-3.49%	-1.27%
			6500	5.867	34.121	6.070	34.500	-3.34%	-1.10%
			6505	5.868	34.135	6.076	34.494	-3.42%	-1.04%
			6545	5.894	34.081	6.122	34.446	-3.72%	-1.06%
			6675	6.016	33.810	6.273	34.290	-4.10%	-1.40%
			6685	6.039	33.766	6.285	34.278	-3.91%	-1.49%
			6715	6.060	33.738	6.319	34.242	-4.10%	-1.47%
			6785	6.152	33.568	6.400	34.158	-3.88%	-1.73%
			6825	6.216	33.539	6.447	34.110	-3.58%	-1.67%
			6985	6.337	33.312	6.633	33.918	-4.46%	-1.79%
			6995	6.322	33.285	6.644	33.906	-4.85%	-1.83%
			7000	6.326	33.259	6.650	33.900	-4.87%	-1.89%
			7005	6.334	33.211	6.656	33.894	-4.84%	-2.02%
			7025	6.411	33.027	6.680	33.870	-4.03%	-2.49%
04/14/2026	6000 Head	20.3	5935	5.204	35.515	5.411	35.143	-3.83%	1.06%
			5970	5.228	35.479	5.448	35.120	-4.04%	1.02%
			5985	5.242	35.418	5.464	35.110	-4.06%	0.88%
			6000	5.246	35.384	5.480	35.100	-4.27%	0.81%
			6025	5.287	35.336	5.510	35.070	-4.05%	0.76%
			6065	5.328	35.229	5.557	35.022	-4.12%	0.59%
			6075	5.333	35.203	5.569	35.010	-4.24%	0.55%
			6085	5.346	35.189	5.580	34.998	-4.19%	0.55%
			6185	5.487	35.059	5.698	34.878	-3.70%	0.52%
			6275	5.606	34.868	5.805	34.770	-3.43%	0.28%
			6285	5.611	34.885	5.816	34.758	-3.52%	0.37%
			6305	5.634	34.900	5.840	34.734	-3.53%	0.48%
			6345	5.675	34.797	5.887	34.686	-3.60%	0.32%
			6475	5.827	34.525	6.041	34.530	-3.54%	-0.01%
			6485	5.845	34.541	6.052	34.518	-3.42%	0.07%
			6500	5.867	34.545	6.070	34.500	-3.34%	0.13%
			6505	5.869	34.553	6.076	34.494	-3.41%	0.17%
			6545	5.898	34.492	6.122	34.446	-3.66%	0.13%
			6665	6.015	34.217	6.265	34.302	-3.99%	-0.25%
			6675	6.041	34.199	6.273	34.290	-3.70%	-0.27%
			6685	6.063	34.151	6.285	34.278	-3.53%	-0.37%
			6715	6.089	34.154	6.319	34.242	-3.64%	-0.26%
			6785	6.173	33.986	6.400	34.158	-3.55%	-0.50%
			6825	6.238	33.956	6.447	34.110	-3.24%	-0.45%
			6985	6.396	33.764	6.633	33.918	-3.57%	-0.45%
			6995	6.385	33.767	6.644	33.906	-3.90%	-0.41%
			7000	6.386	33.764	6.650	33.900	-3.97%	-0.40%
			7005	6.390	33.752	6.656	33.894	-4.00%	-0.42%
			7025	6.436	33.626	6.680	33.870	-3.65%	-0.72%

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.

FCC ID: A3LSMF776B	RF EXPOSURE PART 1 TEST REPORT			Approved by: Technical Manager
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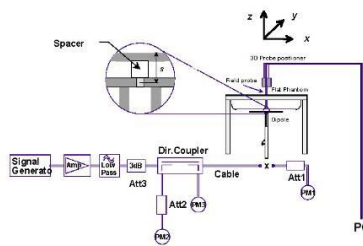
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11.2 SAR Test System Verification

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

Table 11-8
System Verification Results – Head

System Verification TARGET & MEASURED																					
SAR System	Tissue Frequency (MHz)	Tissue Type	Date	Amb. Temp. (°C)	Liquid Temp. (°C)	Input Power (W)	Source SN	Probe SN	DAE	Measured SAR 1g (W/kg)	1W Target SAR 1g (W/kg)	1W Normalized SAR 1g (W/kg)	Deviation 1g (%)	Measured SAR 10g (W/kg)	1W Target SAR 10g (W/kg)	1W Normalized SAR 10g (W/kg)	Deviation 10g (%)	Measured 4cm2 APD (W/m2)	1W Target 4cm2 APD (W/m2)	1W Normalized 4cm2 APD (W/m2)	Deviation 4cm2 APD (%)
G	13	HEAD	04/23/2026	20.7	21.3	1.00	1002	7570	859	0.49	0.50	0.49	-2.39%	0.30	0.32	0.30	-5.06%	N/A	N/A	N/A	N/A
S1	750	HEAD	03/30/2026	21.4	22.9	0.20	1003	7637	1652	1.77	8.72	8.85	1.49%	1.18	5.65	5.90	4.42%	N/A	N/A	N/A	N/A
S1	750	HEAD	04/02/2026	21.4	23.4	0.20	1003	7637	1652	1.65	8.72	8.25	-5.39%	1.09	5.65	5.45	-3.54%	N/A	N/A	N/A	N/A
S1	750	HEAD	04/06/2026	21.8	20.8	0.20	1003	7637	1652	1.58	8.72	7.90	-9.40%	1.05	5.65	5.25	-7.08%	N/A	N/A	N/A	N/A
S7	750	HEAD	04/06/2026	21.0	19.7	0.20	1046	7409	1333	1.63	8.60	8.15	-5.23%	1.10	5.61	5.50	-1.96%	N/A	N/A	N/A	N/A
S1	750	HEAD	04/09/2026	21.6	21.5	0.20	1046	7637	1652	1.76	8.60	8.80	2.33%	1.17	5.61	5.85	4.28%	N/A	N/A	N/A	N/A
S1	750	HEAD	04/27/2026	22.4	21.3	0.20	1003	7637	1652	1.75	8.72	8.75	0.34%	1.16	5.65	5.80	2.65%	N/A	N/A	N/A	N/A
S6	835	HEAD	03/29/2026	19.8	21.0	0.20	46180	7803	1583	2.03	9.51	10.15	6.73%	1.35	6.17	6.75	9.40%	N/A	N/A	N/A	N/A
S7	835	HEAD	04/02/2026	20.7	20.8	0.20	46180	7409	1333	1.96	9.51	9.80	3.05%	1.31	6.17	6.55	6.16%	N/A	N/A	N/A	N/A
S1	835	HEAD	04/22/2026	21.9	22.3	0.20	46180	7637	1652	2.04	9.51	10.20	7.26%	1.34	6.17	6.70	8.59%	N/A	N/A	N/A	N/A
O	835	HEAD	04/27/2026	20.2	22.0	0.20	46047	7488	1415	1.95	9.44	9.75	3.28%	1.29	6.09	6.45	5.91%	N/A	N/A	N/A	N/A
S1	835	HEAD	04/30/2026	21.2	21.5	0.20	46180	7637	1652	1.93	9.51	9.65	1.47%	1.27	6.17	6.35	2.92%	N/A	N/A	N/A	N/A
G	1750	HEAD	03/23/2026	20.5	19.7	0.10	1150	7570	859	3.50	36.40	35.00	-3.85%	1.91	19.40	19.10	-1.55%	N/A	N/A	N/A	N/A
M	1750	HEAD	04/06/2026	19.9	21.0	0.10	1150	7406	1677	3.64	36.40	36.40	0.00%	1.98	19.40	19.80	2.06%	N/A	N/A	N/A	N/A
J	1750	HEAD	04/20/2026	22.2	21.0	0.10	1148	7660	1678	3.80	36.90	38.00	2.98%	2.06	19.60	20.60	5.10%	N/A	N/A	N/A	N/A
R	1750	HEAD	04/23/2026	21.2	20.7	0.10	1150	7417	1639	3.65	36.40	36.50	0.27%	1.97	19.40	19.70	1.55%	N/A	N/A	N/A	N/A
R	1750	HEAD	04/28/2026	20.5	20.1	0.10	1148	7417	1639	3.69	36.90	36.90	0.00%	1.99	19.60	19.90	1.53%	N/A	N/A	N/A	N/A
G	1750	HEAD	05/05/2026	21.2	22.2	0.10	1148	7570	859	3.62	36.90	36.20	-1.90%	1.96	19.60	19.60	0.00%	N/A	N/A	N/A	N/A
S6	1900	HEAD	03/23/2026	21.4	20.4	0.10	56026	7803	1583	4.11	39.60	41.10	3.79%	2.14	21.00	21.40	1.90%	N/A	N/A	N/A	N/A
G	1900	HEAD	03/23/2026	20.5	19.7	0.10	56148	7570	859	4.21	39.60	42.10	6.31%	2.22	20.90	22.20	6.22%	N/A	N/A	N/A	N/A
J	1900	HEAD	03/26/2026	22.4	20.3	0.10	56080	7660	1678	4.16	40.20	41.60	3.48%	2.21	21.20	22.10	4.25%	N/A	N/A	N/A	N/A
R	1900	HEAD	04/20/2026	19.1	22.9	0.10	56148	7417	1639	4.22	39.60	42.20	6.57%	2.20	20.90	22.00	5.26%	N/A	N/A	N/A	N/A
R	1900	HEAD	04/23/2026	21.2	20.7	0.10	56148	7417	1639	4.18	39.60	41.80	5.56%	2.18	20.90	21.80	4.31%	N/A	N/A	N/A	N/A
R	1900	HEAD	04/28/2026	20.5	20.1	0.10	56080	7417	1639	4.22	40.20	42.20	4.98%	2.21	21.20	22.10	4.25%	N/A	N/A	N/A	N/A
G	1900	HEAD	05/05/2026	21.2	22.2	0.10	56080	7570	859	4.19	40.20	41.90	4.23%	2.20	21.20	22.00	3.77%	N/A	N/A	N/A	N/A
L	2450	HEAD	04/06/2026	21.6	20.5	0.10	719	7539	1450	4.99	52.20	49.90	-4.41%	2.35	24.60	23.50	-4.47%	N/A	N/A	N/A	N/A
L	2450	HEAD	04/23/2026	21.2	20.5	0.10	797	7539	1450	5.01	52.60	50.10	-4.75%	2.32	24.80	23.20	-6.45%	N/A	N/A	N/A	N/A
N	2450	HEAD	04/23/2026	21.2	20.5	0.10	797	7670	1449	5.69	52.60	56.90	8.17%	2.70	24.80	27.00	8.87%	N/A	N/A	N/A	N/A
L	2450	HEAD	04/27/2026	20.5	19.0	0.10	719	7539	1450	5.00	52.20	50.00	-4.21%	2.33	24.60	23.30	-5.28%	N/A	N/A	N/A	N/A
L	2450	HEAD	04/30/2026	23.5	22.0	0.10	719	7539	1450	5.57	52.20	55.70	6.70%	2.60	24.60	26.00	5.69%	N/A	N/A	N/A	N/A
S2	2600	HEAD	04/01/2026	20.6	20.0	0.10	1126	7402	1502	5.71	55.30	57.10	3.25%	2.59	24.80	25.90	4.44%	N/A	N/A	N/A	N/A
N	2600	HEAD	04/23/2026	21.2	19.0	0.10	1064	7670	1449	5.35	56.10	53.50	-4.63%	2.46	25.20	24.60	-2.38%	N/A	N/A	N/A	N/A
S2	2600	HEAD	05/07/2026	21.3	21.0	0.10	1126	7640	1645	5.58	55.30	55.80	0.90%	2.54	24.80	25.40	2.42%	N/A	N/A	N/A	N/A
S2	3500	HEAD	04/09/2026	20.8	20.0	0.10	1127	7402	1502	6.75	64.90	67.50	4.01%	2.53	24.70	25.30	2.43%	N/A	N/A	N/A	N/A
S2	3500	HEAD	04/13/2026	21.8	21.5	0.10	1127	7402	1502	6.45	64.90	64.50	-0.62%	2.41	24.70	24.10	-2.43%	N/A	N/A	N/A	N/A
S2	3700	HEAD	04/09/2026	20.8	20.0	0.10	1096	7402	1502	6.51	69.60	65.10	-6.47%	2.38	25.60	23.80	-7.03%	N/A	N/A	N/A	N/A
S2	3700	HEAD	04/13/2026	21.8	21.5	0.10	1096	7402	1502	6.69	69.60	66.90	-3.88%	2.42	25.60	24.20	-5.47%	N/A	N/A	N/A	N/A
S2	3900	HEAD	04/09/2026	20.8	20.0	0.10	1074	7402	1502	6.54	70.80	65.40	-7.63%	2.27	24.80	22.70	-8.47%	N/A	N/A	N/A	N/A
S2	3900	HEAD	04/13/2026	21.8	21.5	0.10	1074	7402	1502	6.79	70.80	67.90	-4.10%	2.35	24.80	23.50	-5.24%	N/A	N/A	N/A	N/A
S	5250	HEAD	04/06/2026	19.9	19.9	0.05	1057	7661	1558	3.62	79.40	72.40	-8.82%	1.04	22.70	20.80	-8.37%	N/A	N/A	N/A	N/A
S	5250	HEAD	04/20/2026	19.2	19.5	0.05	1057	7661	1558	3.72	79.40	74.40	-6.30%	1.08	22.70	21.60	-4.85%	N/A	N/A	N/A	N/A
S	5250	HEAD	04/27/2026	21.4	19.0	0.05	1057	7661	1558	3.75	79.40	75.00	-5.54%	1.07	22.70	21.40	-5.73%	N/A	N/A	N/A	N/A
S	5600	HEAD	04/06/2026	19.9	19.9	0.05	1057	7661	1558	3.79	82.80	75.80	-8.45%	1.08	23.60	21.60	-8.47%	N/A	N/A	N/A	N/A
S	5600	HEAD	04/20/2026	19.2	19.5	0.05	1057	7661	1558	4.05	82.80	81.00	-2.17%	1.16	23.60	23.20	-1.69%	N/A	N/A	N/A	N/A
S	5600	HEAD	04/27/2026	21.4	19.0	0.05	1057	7661	1558	3.93	82.80	78.60	-5.07%	1.12	23.60	22.40	-5.08%	N/A	N/A	N/A	N/A
S	5750	HEAD	04/06/2026	19.9	19.9	0.05	1057	7661	1558	3.64	79.80	72.80	-8.77%	1.05	22.70	21.00	-7.49%	N/A	N/A	N/A	N/A
S	5750	HEAD	04/20/2026	19.2	19.5	0.05	1057	7661	1558	3.69	79.80	73.80	-7.52%	1.06	22.70	21.20	-6.61%	N/A	N/A	N/A	N/A
S	5750	HEAD	04/27/2026	21.4	19.0	0.05	1057	7661	1558	3.69	79.80	73.80	-7.52%	1.06	22.70	21.20	-6.61%	N/A	N/A	N/A	N/A
S	5850	HEAD	04/06/2026	19.9	19.9	0.05	1057	7661	1558	3.82	81.50	76.40	-6.26%	1.09	23.00	21.80	-5.22%	N/A	N/A	N/A	N/A
S	5850	HEAD	04/20/2026	19.2	19.5	0.05	1057	7661	1558	3.97	81.50	79.40	-2.58%	1.13	23.00	22.60	-1.74%	N/A	N/A	N/A	N/A
S	5850	HEAD	04/27/2026	21.4	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	04/06/2026	22.7	21.0	0.025	1016	7713	1639	7.79	298.00	311.60	4.56%	1.41	55.70	56.40	1.26%	34.30	1350.00	1372.00	1.63%
M	6500	HEAD	04/14/2026	20.2	20.3	0.025	1111	7406	1677	6.96	288.00	278.40	-3.33%	1.30	53.30	52.00	-2.44%	31.40	1350.00	1256.00	-6.96%



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.

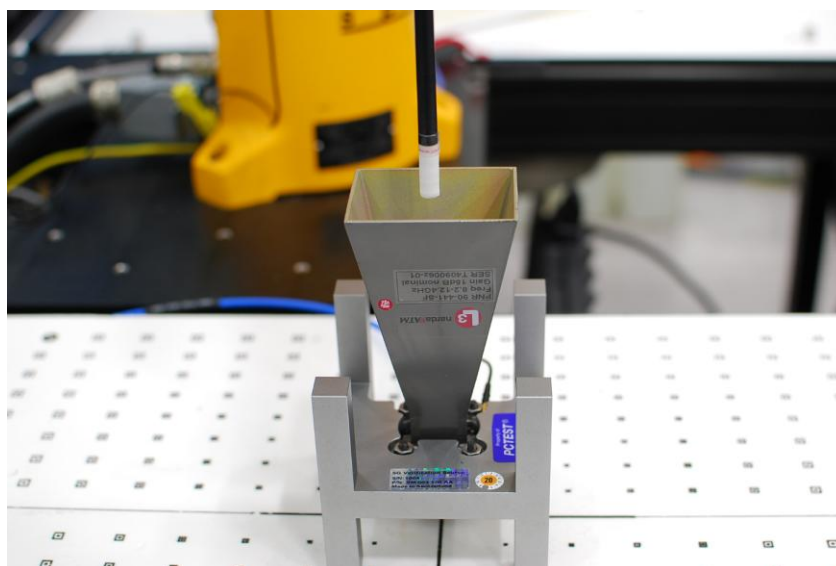


Figure 11-3
System Verification Setup Photo

Table 11-9
10 GHz Verifications

System Verification											
System	Frequency (GHz)	Date	Source S/N	Probe S/N	Prad (mW)	Normal psPD (W/m ² over 4 cm ²)		Deviation (dB)	Total psPD (W/m ² over 4 cm ²)		Deviation (dB)
						Measured	Target		Measured	Target	
N	10	04/06/2026	1004	9407	93.3	58.90	54.60	0.33	59.50	55.60	0.29

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 | Ant A – Open

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	0066M	1:8.3	-0.02	848.80	251	33.2	32.59	Right Cheek	0	0.089	1.151	0.102	0.064		33.8	33.8
Head	GSM 850	GSM	A	0066M	1:8.3	-0.03	848.80	251	33.2	32.59	Right Tilt	0	0.040	1.151	0.046	0.029		37.3	
Head	GSM 850	GSM	A	0066M	1:8.3	-0.06	848.80	251	33.2	32.59	Left Cheek	0	0.035	1.151	0.040	0.025		37.9	
Head	GSM 850	GSM	A	0066M	1:8.3	0.13	848.80	251	33.2	32.59	Left Tilt	0	0.023	1.151	0.026	0.016		39.7	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population														Head 1.6 W/kg (mW/g) averaged over 1 gram					

Table 12-2 | Ant E – Open | 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	0066M	1:8.3	0.02	848.80	251	31.2	30.52	Right Cheek	0	0.376	1.169	0.440	0.275	Plot	25.5	25.5
Head	GSM 850	GSM	E	0066M	1:8.3	-0.06	848.80	251	31.2	30.52	Right Tilt	0	0.110	1.169	0.129	0.081		30.9	
Head	GSM 850	GSM	E	0066M	1:8.3	-0.02	848.80	251	31.2	30.52	Left Cheek	0	0.168	1.169	0.196	0.123		29.0	
Head	GSM 850	GSM	E	0066M	1:8.3	0.02	848.80	251	31.2	30.52	Left Tilt	0	0.064	1.169	0.075	0.047		33.2	
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 12-3 | Ant A – Open | 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	GPRS 850	GPRS 4 Tx Slots	A	1522M	1:2.076	0.01	824.20	128	25.2	23.79	Front	5	0.435	1.384	0.602	0.376		24.2	21.4
Body	GPRS 850	GPRS 4 Tx Slots	A	1522M	1:2.076	-0.06	824.20	128	25.2	23.79	Bottom	5	0.517	1.384	0.716	0.448		23.4	
Body	GPRS 850	GPRS 4 Tx Slots	A	1522M	1:2.076	0.02	824.20	128	25.2	23.79	Right	5	0.277	1.384	0.383	0.239		26.1	
Body-worn/Body	GPRS 850	GPRS 4 Tx Slots	A	1522M	1:2.076	-0.03	824.20	128	25.2	23.79	Back	5	0.718	1.384	0.994	0.621		22.0	
Body-worn/Body	GPRS 850	GPRS 4 Tx Slots	A	1522M	1:2.076	-0.01	836.60	190	25.2	23.61	Back	5	0.706	1.442	1.018	0.636		21.9	
Body-worn/Body	GPRS 850	GPRS 4 Tx Slots	A	1522M	1:2.076	0.00	848.80	251	25.2	23.25	Back	5	0.729	1.567	1.142	0.714	Plot	21.4	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT													Body						
Spatial Peak													1.6 W/kg (mW/g)						
Uncontrolled Exposure/General Population													averaged over 1 gram						

Table 12-4 | Ant E – Open

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	GPRS 850	GPRS 4 Tx Slots	E	0066M	1:2.076	0.00	848.80	251	27.2	26.15	Front	5	0.286	1.274	0.364	0.228		28.4	25.0
Body	GPRS 850	GPRS 4 Tx Slots	E	0066M	1:2.076	0.04	848.80	251	27.2	26.15	Top	5	0.026	1.274	0.033	0.021		38.8	
Body	GPRS 850	GPRS 4 Tx Slots	E	1522M	1:2.076	0.02	848.80	251	27.2	26.15	Left	5	0.625	1.274	0.796	0.498		25.0	
Body-worn/Body	GPRS 850	GPRS 4 Tx Slots	E	0066M	1:2.076	0.00	848.80	251	27.2	26.15	Back	5	0.273	1.274	0.348	0.218		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 12-5 | Ant A – Closed

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	GPRS 850	GPRS 4 Tx Slots	A	0066M	1:2.076	0.04	824.20	128	26.2	24.37	Front	5	0.029	1.524	0.044	0.028		36.5	22.9
Body	GPRS 850	GPRS 4 Tx Slots	A	1522M	1:2.076	-0.10	824.20	128	26.2	24.37	Bottom	5	0.461	1.524	0.703	0.439		24.5	
Body	GPRS 850	GPRS 4 Tx Slots	A	1522M	1:2.076	0.09	824.20	128	26.2	24.37	Right	5	0.196	1.524	0.299	0.187		28.2	
Body	GPRS 850	GPRS 4 Tx Slots	A	0066M	1:2.076	0.04	824.20	128	26.2	24.37	Left	5	0.012	1.524	0.018	0.011		40.3	
Body-worn/Body	GPRS 850	GPRS 4 Tx Slots	A	1522M	1:2.076	-0.02	824.20	128	26.2	24.37	Back	5	0.655	1.524	0.998	0.624		23.0	
Body-worn/Body	GPRS 850	GPRS 4 Tx Slots	A	1522M	1:2.076	-0.10	836.60	190	26.2	24.22	Back	5	0.638	1.578	1.007	0.629		22.9	
Body-worn/Body	GPRS 850	GPRS 4 Tx Slots	A	1522M	1:2.076	-0.05	848.80	251	26.2	24.34	Back	5	0.666	1.535	1.022	0.639		22.9	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT												Body							
Spatial Peak												1.6 W/kg (mW/g)							
Uncontrolled Exposure/General Population												averaged over 1 gram							

Table 12-6 | Ant E – Closed

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	GPRS 850	GPRS 4 Tx Slots	E	0066M	1:2.076	-0.03	848.80	251	27.2	26.15	Front	5	0.383	1.274	0.488	0.305		27.1	27.1
Body	GPRS 850	GPRS 4 Tx Slots	E	0066M	1:2.076	0.05	848.80	251	27.2	26.15	Top	5	0.019	1.274	0.024	0.015		40.1	
Body	GPRS 850	GPRS 4 Tx Slots	E	0066M	1:2.076	0.02	848.80	251	27.2	26.15	Bottom	5	0.095	1.274	0.045	0.028		37.5	
Body	GPRS 850	GPRS 4 Tx Slots	E	0066M	1:2.076	-0.05	848.80	251	27.2	26.15	Left	5	0.383	1.274	0.488	0.305		27.1	
Body-worn/Body	GPRS 850	GPRS 4 Tx Slots	E	0066M	1:2.076	-0.05	848.80	251	27.2	26.15	Back	5	0.123	1.274	0.157	0.098		32.0	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT														Body					
Spatial Peak														1.6 W/kg (mW/g)					
Uncontrolled Exposure/General Population														averaged over 1 gram					

FCC ID: A3LSMF776B	RF EXPOSURE PART 1 TEST REPORT				Approved by: Technical Manager
Document S/N: 1M2603110020-01.A3L (Rev1)	DUT Type: Portable Handset	This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.			 Page 123 of 171

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12.2 GSM 1900 Standalone SAR

Table 12-7 | Ant B – Open | 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	B	0025M	1.8.3	-0.07	1850.20	512	31.0	29.65	Right Cheek	0	0.037	1.365	0.051	0.032		45.7	44.9	
Head	GSM 1900	GSM	B	0025M	1.8.3	-0.02	1850.20	512	31.0	29.65	Right Tilt	0	0.026	1.365	0.035	0.022		47.2		
Head	GSM 1900	GSM	B	0025M	1.8.3	0.03	1850.20	512	31.0	29.65	Left Cheek	0	0.044	1.365	0.060	0.038	Plot	44.9		
Head	GSM 1900	GSM	B	0025M	1.8.3	0.09	1850.20	512	31.0	29.65	Left Tilt	0	0.026	1.365	0.035	0.022		47.2		
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 12-8 | Ant B – Open | Plot A5, 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	GPRS 1900	GPRS 4 Tx Slots	B	0025M	1.2.076	0.00	1850.20	512	23.2	22.01	Front	5	0.339	1.315	0.446	0.279		34.4	31.1
Body	GPRS 1900	GPRS 4 Tx Slots	B	0025M	1.2.076	-0.03	1850.20	512	23.2	22.01	Bottom	5	0.667	1.315	0.877	0.548		31.5	
Body	GPRS 1900	GPRS 4 Tx Slots	B	0025M	1.2.076	-0.05	1880.00	661	23.2	21.80	Bottom	5	0.685	1.380	0.945	0.591		31.2	
Body	GPRS 1900	GPRS 4 Tx Slots	B	0025M	1.2.076	-0.02	1909.80	810	23.2	21.71	Bottom	5	0.691	1.409	0.974	0.609	Plot	31.1	
Body	GPRS 1900	GPRS 4 Tx Slots	B	0025M	1.2.076	0.00	1850.20	512	23.2	22.01	Left	5	0.297	1.315	0.391	0.244		35.0	
Body-worn/Body	GPRS 1900	GPRS 4 Tx Slots	B	0025M	1.2.076	-0.04	1850.20	512	23.2	22.01	Back	5	0.586	1.315	0.771	0.482	Plot	32.1	
ANSI/IEEE C95.1.1992 - SAFETY LIMIT																			
Spatial Peak													Body						
Uncontrolled Exposure/General Population													1.6 W/kg (mW/g) averaged over 1 gram						

Table 12-9 | Ant B – Closed

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	GSM 1900	GPRS 4 Tx Slots	B	1521M	1.2.076	0.09	1850.20	512	23.2	22.01	Front	5	0.020	1.315	0.026	0.016		35.8	21.5
Body	GSM 1900	GPRS 4 Tx Slots	B	1521M	1.2.076	0.03	1850.20	512	23.2	22.01	Bottom	5	0.533	1.315	0.701	0.438		21.5	
Body	GSM 1900	GPRS 4 Tx Slots	B	1521M	1.2.076	0.01	1850.20	512	23.2	22.01	Left	5	0.181	1.315	0.212	0.113		26.7	
Body-worn/Body	GSM 1900	GPRS 4 Tx Slots	B	1521M	1.2.076	0.05	1850.20	512	23.2	22.01	Back	5	0.364	1.315	0.479	0.299		23.2	
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 12-10 | Ant A – Open

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	0085M	1:1	-0.17	846.60	4233	23.9	22.91	Right Cheek	0	0.148	1.256	0.186	0.116		31.2	31.2
Head	UMTS 850	RMC	A	0085M	1:1	0.05	846.60	4233	23.9	22.91	Right Tilt	0	0.101	1.256	0.127	0.079		32.8	
Head	UMTS 850	RMC	A	0085M	1:1	0.15	846.60	4233	23.9	22.91	Left Cheek	0	0.097	1.256	0.122	0.076		33.0	
Head	UMTS 850	RMC	A	0085M	1:1	0.08	846.60	4233	23.9	22.91	Left Tilt	0	0.058	1.256	0.073	0.046		35.2	
ANSI/IEEE C95.1.1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population														Head 1.6 W/kg (mW/g) averaged over 1 gram					

Table 12-11 | Ant E – Open | Plot A6

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Head	UMTS 850	UMTS	E	1520M	1:1	-0.02	846.60	4233	22.5	21.27	Right Cheek	0	0.589	1.327	0.782	0.489	Plot	23.5	23.5
Head	UMTS 850	UMTS	E	1520M	1:1	-0.02	846.60	4233	22.5	21.27	Right Tilt	0	0.159	1.327	0.211	0.132		29.2	
Head	UMTS 850	UMTS	E	1520M	1:1	-0.01	846.60	4233	22.5	21.27	Left Cheek	0	0.225	1.327	0.299	0.187		27.7	
Head	UMTS 850	UMTS	E	1520M	1:1	-0.02	846.60	4233	22.5	21.27	Left Tilt	0	0.090	1.327	0.119	0.074		31.7	
ANSI/IEEE C95.1.1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population													Head 1.6 W/kg (mW/g) averaged over 1 gram						

Table 12-12 | Ant A – Open

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	UMTS 850	RMC	A	0085M	1:1	-0.12	826.40	4132	23.0	22.00	Front	5	0.375	1.259	0.472	0.295		26.2	23.5
Body	UMTS 850	RMC	A	0085M	1:1	-0.08	826.40	4132	23.0	22.00	Bottom	5	0.446	1.259	0.562	0.351		25.5	
Body	UMTS 850	RMC	A	0085M	1:1	-0.02	826.40	4132	23.0	22.00	Right	5	0.251	1.259	0.316	0.198		28.0	
Body-worn/Body	UMTS 850	RMC	A	0085M	1:1	-0.06	826.40	4132	23.0	22.00	Back	5	0.558	1.259	0.703	0.439		24.5	
Body-worn/Body	UMTS 850	RMC	A	0085M	1:1	-0.09	836.60	4183	23.0	21.81	Back	5	0.660	1.315	0.868	0.543		23.6	
Body-worn/Body	UMTS 850	RMC	A	0085M	1:1	-0.06	846.60	4233	23.0	21.85	Back	5	0.670	1.303	0.873	0.546		23.5	
ANSI/IEEE C95.1.1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population												Body 1.6 W/kg (mW/g) averaged over 1 gram							

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Table 12-13 | Ant E – Open

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	UMTS 850	RMC	E	1520M	1:1	-0.08	846.60	4233	23.0	22.02	Front	5	0.316	1.253	0.396	0.248		27.0	24.1
Body	UMTS 850	RMC	E	1520M	1:1	0.01	846.60	4233	23.0	22.02	Top	5	0.043	1.253	0.054	0.034		35.6	
Body	UMTS 850	RMC	E	1520M	1:1	-0.05	846.60	4233	23.0	22.02	Left	5	0.611	1.253	0.766	0.479		24.1	
Body-worn/Body	UMTS 850	RMC	E	1520M	1:1	0.01	846.60	4233	23.0	22.02	Back	5	0.389	1.253	0.487	0.304		26.1	
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 12-14 | Ant A – Closed | Plot A7

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	UMTS 850	RMC	A	1520M	1:1	-0.03	846.60	4233	23.5	22.47	Front	5	0.119	1.268	0.151	0.094		31.7	23.1
Body	UMTS 850	RMC	A	1520M	1:1	-0.03	846.60	4233	23.5	22.47	Bottom	5	0.547	1.268	0.694	0.434		25.0	
Body	UMTS 850	RMC	A	1520M	1:1	0.00	846.60	4233	23.5	22.47	Right	5	0.232	1.268	0.294	0.184		28.8	
Body-worn/Body	UMTS 850	RMC	A	1520M	1:1	-0.01	826.40	4132	23.5	22.45	Back	5	0.769	1.274	0.980	0.613		23.5	
Body-worn/Body	UMTS 850	RMC	A	1520M	1:1	0.01	836.60	4183	23.5	22.20	Back	5	0.776	1.349	1.047	0.654		23.3	
Body-worn/Body	UMTS 850	RMC	A	1520M	1:1	-0.01	846.60	4233	23.5	22.47	Back	5	0.799	1.268	1.013	0.633	Plot	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							

Table 12-15 | Ant E – Closed

xposure	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	UMTS 850	RMC	E	1520M	1:1	0.00	846.60	4233	23.5	22.61	Front	5	0.402	1.227	0.493	0.308		26.5	26.5
Body	UMTS 850	RMC	E	1520M	1:1	0.17	846.60	4233	23.5	22.61	Top	5	0.015	1.227	0.018	0.011		40.8	
Body	UMTS 850	RMC	E	1520M	1:1	0.00	846.60	4233	23.5	22.61	Bottom	5	0.035	1.227	0.043	0.027		37.1	
Body	UMTS 850	RMC	E	1520M	1:1	-0.01	846.60	4233	23.5	22.61	Left	5	0.402	1.227	0.493	0.308		26.5	
Body-worn/Body	UMTS 850	RMC	E	1520M	1:1	-0.01	846.60	4233	23.5	22.61	Back	5	0.122	1.227	0.150	0.094		31.7	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population												Body 1.6 W/kg (mW/g) averaged over 1 gram							

12.4 UMTS 1750 Standalone SAR

Table 12-16 | Ant B – Open

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Head	UMTS 1750	RMC	B	0085M	1:1	-0.02	1752.60	1513	23.9	22.75	Right Cheek	0	0.053	1.303	0.069	0.043		35.5	35.5
Head	UMTS 1750	RMC	B	0085M	1:1	0.04	1752.60	1513	23.9	22.75	Right Tilt	0	0.027	1.303	0.035	0.022		38.4	
Head	UMTS 1750	RMC	B	0085M	1:1	0.02	1752.60	1513	23.9	22.75	Left Cheek	0	0.044	1.303	0.057	0.036		36.3	
Head	UMTS 1750	RMC	B	0085M	1:1	0.04	1752.60	1513	23.9	22.75	Left Tilt	0	0.028	1.303	0.036	0.023		38.2	
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 12-17 | Ant H – Open | Plot A8

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Head	UMTS 1750	RMC	H	1521M	1:1	-0.07	1712.40	1312	20.0	18.76	Right Cheek	0	0.119	1.330	0.158	0.099		28.0	21.2
Head	UMTS 1750	RMC	H	1521M	1:1	-0.03	1712.40	1312	20.0	18.76	Right Tilt	0	0.085	1.330	0.113	0.071		29.4	
Head	UMTS 1750	RMC	H	1521M	1:1	-0.20	1712.40	1312	20.0	18.76	Left Cheek	0	0.562	1.330	0.747	0.467	Plot	21.2	
Head	UMTS 1750	RMC	H	1521M	1:1	0.03	1712.40	1312	20.0	18.76	Left Tilt	0	0.207	1.330	0.275	0.172		25.6	
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 12-18 | Ant B – Open | Plot A10, A9

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	UMTS 1750	RMC	B	0085M	1:1	-0.02	1752.60	1513	20.0	18.68	Front	5	0.242	1.355	0.328	0.205		24.8	20.7
Body	UMTS 1750	RMC	B	0085M	1:1	0.02	1712.40	1312	20.0	18.52	Bottom	5	0.594	1.406	0.835	0.522		20.7	
Body	UMTS 1750	RMC	B	0085M	1:1	0.02	1732.40	1412	20.0	18.61	Bottom	5	0.605	1.377	0.833	0.521	Plot	20.7	
Body	UMTS 1750	RMC	B	0085M	1:1	-0.01	1752.60	1513	20.0	18.68	Bottom	5	0.585	1.355	0.793	0.496		21.0	
Body	UMTS 1750	RMC	B	0085M	1:1	-0.01	1752.60	1513	20.0	18.68	Left	5	0.166	1.355	0.225	0.141		26.4	
Body-worn/Body	UMTS 1750	RMC	B	0085M	1:1	0.03	1712.40	1312	20.0	18.52	Back	5	0.475	1.406	0.668	0.418		21.7	
Body-worn/Body	UMTS 1750	RMC	B	0085M	1:1	-0.01	1732.40	1412	20.0	18.61	Back	5	0.481	1.377	0.662	0.414		21.7	
Body-worn/Body	UMTS 1750	RMC	B	0085M	1:1	-0.09	1752.60	1513	20.0	18.68	Back	5	0.583	1.355	0.790	0.494	Plot	21.0	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT												Body							
Spatial Peak												1.6 W/kg (mW/g)							
Uncontrolled Exposure/General Population												averaged over 1 gram							

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Table 12-19 | Ant H – Open

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	UMTS 1750	RMC	H	1521M	1:1	0.00	1712.40	1312	22.0	20.85	Front	5	0.363	1.303	0.473	0.296		25.2	25.2
Body	UMTS 1750	RMC	H	1521M	1:1	-0.01	1712.40	1312	22.0	20.85	Top	5	0.209	1.303	0.272	0.170		27.6	
Body	UMTS 1750	RMC	H	1521M	1:1	0.12	1712.40	1312	22.0	20.85	Right	5	0.339	1.303	0.442	0.276		25.5	
Body-worn/Body	UMTS 1750	RMC	H	1521M	1:1	-0.01	1712.40	1312	22.0	20.85	Back	5	0.341	1.303	0.444	0.278		25.5	
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 12-20 | Ant B – Closed

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	UMTS 1750	RMC	B	1521M	1:1	-0.02	1752.60	1513	20.5	19.25	Front	5	0.089	1.334	0.119	0.074		29.7	22.0
Body	UMTS 1750	RMC	B	1521M	1:1	0.02	1752.60	1513	20.5	19.25	Bottom	5	0.529	1.334	0.706	0.441		22.0	
Body	UMTS 1750	RMC	B	1521M	1:1	-0.01	1752.60	1513	20.5	19.25	Left	5	0.102	1.334	0.136	0.085		29.1	
Body-worn/Body	UMTS 1750	RMC	B	1521M	1:1	0.01	1752.60	1513	20.5	19.25	Back	5	0.421	1.334	0.562	0.351		23.0	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population													Body 1.6 W/kg (mW/g) averaged over 1 gram						

Table 12-21 | Ant H – Closed

	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	UMTS 1750	RMC	H	1521M	1:1	-0.01	1712.40	1312	21.0	20.27	Front	5	0.248	1.183	0.293	0.183		26.3	26.3
Body	UMTS 1750	RMC	H	1521M	1:1	-0.05	1712.40	1312	21.0	20.27	Bottom	5	0.089	1.183	0.105	0.066		30.7	
Body	UMTS 1750	RMC	H	1521M	1:1	0.01	1712.40	1312	21.0	20.27	Right	5	0.124	1.183	0.147	0.092		29.3	
Body-worn/Body	UMTS 1750	RMC	H	1521M	1:1	0.08	1712.40	1312	21.0	20.27	Back	5	0.031	1.183	0.037	0.023		35.3	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population													Body 1.6 W/kg (mW/g) averaged over 1 gram						

12.5 UMTS 1900 Standalone SAR

Table 12-22 | Ant B – Open

xposure	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 1900	RMC	B	0085M	1:1	0.01	1907.60	9538	23.9	22.81	Right Cheek	0	0.038	1.285	0.049	0.031		37.0	33.7
Head	UMTS 1900	RMC	B	0085M	1:1	0.06	1907.60	9538	23.9	22.81	Right Tilt	0	0.042	1.285	0.054	0.034		36.5	
Head	UMTS 1900	RMC	B	0085M	1:1	0.02	1907.60	9538	23.9	22.81	Left Cheek	0	0.081	1.285	0.104	0.065		33.7	
Head	UMTS 1900	RMC	B	0085M	1:1	-0.09	1907.60	9538	23.9	22.81	Left Tilt	0	0.037	1.285	0.048	0.030		37.1	
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 12-23 | Ant H – Open | Plot A11

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Head	UMTS 1900	RMC	H	1521M	1:1	-0.03	1852.40	9262	20.0	18.57	Right Cheek	0	0.118	1.390	0.164	0.103		27.8	22.6
Head	UMTS 1900	RMC	H	1521M	1:1	-0.01	1852.40	9262	20.0	18.57	Right Tilt	0	0.099	1.390	0.138	0.086		28.6	
Head	UMTS 1900	RMC	H	1521M	1:1	0.05	1852.40	9262	20.0	18.57	Left Cheek	0	0.388	1.390	0.539	0.337	Plot	22.6	
Head	UMTS 1900	RMC	H	1521M	1:1	0.01	1852.40	9262	20.0	18.57	Left Tilt	0	0.348	1.390	0.484	0.303		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 12-24 | Ant B – Open | Plot A13

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	UMTS 1900	RMC	B	0085M	1:1	-0.01	1907.60	9538	19.0	17.76	Front	5	0.334	1.330	0.444	0.278		22.5	18.9
Body	UMTS 1900	RMC	B	0085M	1:1	-0.01	1852.40	9262	19.0	17.72	Bottom	5	0.742	1.343	0.997	0.623		19.0	
Body	UMTS 1900	RMC	B	0085M	1:1	0.01	1880.00	9400	19.0	17.75	Bottom	5	0.757	1.334	1.010	0.631	Plot	18.9	
Body	UMTS 1900	RMC	B	0085M	1:1	-0.04	1907.60	9538	19.0	17.76	Bottom	5	0.753	1.330	1.001	0.626		18.9	
Body	UMTS 1900	RMC	B	0085M	1:1	0.00	1907.60	9538	19.0	17.76	Left	5	0.397	1.330	0.528	0.330		21.7	
Body-worn/Body	UMTS 1900	RMC	B	0085M	1:1	0.01	1907.60	9538	19.0	17.76	Back	5	0.495	1.330	0.658	0.411		20.8	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population													Body 1.6 W/kg (mW/g) averaged over 1 gram						

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Document S/N: 1M2603110020-01.A3L (Rev1)	DUT Type: Portable Handset	This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.			 Page 126 of 171

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Table 12-25 | Ant H – Open

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	UMTS 1900	RMC	H	1521M	1:1	0.02	1852.40	9262	21.0	19.97	Front	5	0.246	1.268	0.312	0.195		26.0	23.4
Body	UMTS 1900	RMC	H	1521M	1:1	-0.09	1852.40	9262	21.0	19.97	Top	5	0.350	1.268	0.444	0.278		24.5	
Body	UMTS 1900	RMC	H	1521M	1:1	0.02	1852.40	9262	21.0	19.97	Right	5	0.451	1.268	0.572	0.358		23.4	
Body-worn/Body	UMTS 1900	RMC	H	1521M	1:1	0.00	1852.40	9262	21.0	19.97	Back	5	0.262	1.268	0.332	0.208		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 12-26 | Ant B – Closed | Plot A12

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	UMTS 1900	RMC	B	1521M	1:1	0.06	1907.60	9538	19.5	18.56	Front	5	0.042	1.242	0.052	0.033		32.3	21.4
Body	UMTS 1900	RMC	B	1521M	1:1	0.02	1907.60	9538	19.5	18.56	Bottom	5	0.516	1.242	0.641	0.401		21.4	
Body	UMTS 1900	RMC	B	1521M	1:1	0.00	1907.60	9538	19.5	18.56	Left	5	0.166	1.242	0.206	0.129		26.3	
Body-worn/Body	UMTS 1900	RMC	B	1521M	1:1	0.00	1907.60	9538	19.5	18.56	Back	5	0.509	1.242	0.632	0.395	Plot	21.4	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population													Body 1.6 W/kg (mW/g) averaged over 1 gram						

Table 12-27 | Ant H – Closed

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	UMTS 1900	RMC	H	1521M	1:1	0.04	1852.40	9262	21.0	19.97	Front	5	0.266	1.268	0.337	0.211		25.7	24.8
Body	UMTS 1900	RMC	H	1521M	1:1	0.03	1852.40	9262	21.0	19.97	Bottom	5	0.209	1.268	0.265	0.166		26.7	
Body	UMTS 1900	RMC	H	1521M	1:1	0.00	1852.40	9262	21.0	19.97	Right	5	0.327	1.268	0.415	0.259		24.8	
Body-worn/Body	UMTS 1900	RMC	H	1521M	1:1	0.04	1852.40	9262	21.0	19.97	Back	5	0.066	1.268	0.084	0.053		31.7	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population													Body 1.6 W/kg (mW/g) averaged over 1 gram						

12.6 LTE Band 12 Standalone SAR

Table 12-28 | Ant A – Open

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 12	10	QPSK	A	0025M	1:1	0.07	707.50	23095	0.0	25.0	24.40	1	49	Right Cheek	0	0.188	1.148	0.216	0.135		31.6	31.6
Head	LTE Band 12	10	QPSK	A	0025M	1:1	0.03	707.50	23095	1.0	24.0	22.87	25	25	Right Cheek	0	0.116	1.297	0.150	0.094		32.2	
Head	LTE Band 12	10	QPSK	A	0025M	1:1	0.03	707.50	23095	0.0	25.0	24.49	1	49	Right Tilt	0	0.089	1.148	0.102	0.064		34.9	
Head	LTE Band 12	10	QPSK	A	0025M	1:1	0.08	707.50	23095	1.0	24.0	22.87	25	25	Right Tilt	0	0.089	1.297	0.092	0.058		34.3	
Head	LTE Band 12	10	QPSK	A	0025M	1:1	0.04	707.50	23095	0.0	25.0	24.40	1	49	Left Cheek	0	0.119	1.148	0.160	0.100		32.9	
Head	LTE Band 12	10	QPSK	A	0025M	1:1	0.02	707.50	23095	1.0	24.0	22.87	25	25	Left Cheek	0	0.097	1.297	0.126	0.079		33.0	
Head	LTE Band 12	10	QPSK	A	0025M	1:1	0.16	707.50	23095	0.0	25.0	24.40	1	49	Left Tilt	0	0.099	1.148	0.114	0.071		34.4	
Head	LTE Band 12	10	QPSK	A	0025M	1:1	0.03	707.50	23095	1.0	24.0	22.87	25	25	Left Tilt	0	0.062	1.297	0.080	0.050		34.8	
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 12-29 | Ant E – Open | 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 12	10	QPSK	E	0025M	1:1	-0.01	707.50	23095	0.0	22.0	21.40	1	0	Right Cheek	0	0.384	1.148	0.441	0.276	Plot	25.5	25.5
Head	LTE Band 12	10	QPSK	E	0025M	1:1	-0.02	707.50	23095	0.0	22.0	21.34	25	0	Right Cheek	0	0.380	1.164	0.442	0.276		25.5	
Head	LTE Band 12	10	QPSK	E	0025M	1:1	0.02	707.50	23095	0.0	22.0	21.40	1	0	Right Tilt	0	0.128	1.148	0.147	0.092		30.3	
Head	LTE Band 12	10	QPSK	E	0025M	1:1	0.05	707.50	23095	0.0	22.0	21.34	25	0	Right Tilt	0	0.134	1.164	0.156	0.098		30.0	
Head	LTE Band 12	10	QPSK	E	0025M	1:1	0.04	707.50	23095	0.0	22.0	21.40	1	0	Left Cheek	0	0.163	1.148	0.187	0.117		29.2	
Head	LTE Band 12	10	QPSK	E	0025M	1:1	-0.01	707.50	23095	0.0	22.0	21.34	25	0	Left Cheek	0	0.171	1.164	0.199	0.124		29.0	
Head	LTE Band 12	10	QPSK	E	0025M	1:1	-0.04	707.50	23095	0.0	22.0	21.40	1	0	Left Tilt	0	0.071	1.148	0.082	0.051		32.8	
Head	LTE Band 12	10	QPSK	E	0025M	1:1	-0.02	707.50	23095	0.0	22.0	21.34	25	0	Left Tilt	0	0.074	1.164	0.086	0.054		32.6	
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 12-30 | Ant A – Open

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	LTE Band 12	10	QPSK	A	0025M	1:1	-0.01	707.50	23095	0.0	24.0	23.08	1	49	Front	5	0.533	1.236	0.659	0.412		25.8	23.7
Body	LTE Band 12	10	QPSK	A	0025M	1:1	0.03	707.50	23095	0.0	24.0	23.03	25	25	Front	5	0.494	1.250	0.618	0.386		26.0	
Body	LTE Band 12	10	QPSK	A	1417M	1:1	0.00	707.50	23095	0.0	24.0	23.08	1	49	Bottom	5	0.580	1.236	0.717	0.448		25.4	
Body	LTE Band 12	10	QPSK	A	1417M	1:1	0.03	707.50	23095	0.0	24.0	23.03	25	25	Bottom	5	0.559	1.250	0.699	0.437		25.5	
Body	LTE Band 12	10	QPSK	A	1417M	1:1	-0.02	707.50	23095	0.0	24.0	23.08	1	49	Right	5	0.423	1.236	0.523	0.327		26.8	
Body	LTE Band 12	10	QPSK	A	1417M	1:1	-0.05	707.50	23095	0.0	24.0	23.03	25	25	Right	5	0.421	1.250	0.526	0.329		26.7	
Body-worn/Body	LTE Band 12	10	QPSK	A	0025M	1:1	0.05	707.50	23095	0.0	24.0	23.08	1	49	Back	5	0.794	1.236	0.981	0.613		24.0	
Body-worn/Body	LTE Band 12	10	QPSK	A	0025M	1:1	0.04	707.50	23095	0.0	24.0	23.03	25	25	Back	5	0.788	1.250	0.998	0.624		24.0	
Body-worn/Body	LTE Band 12	10	QPSK	A	0025M	1:1	-0.03	707.50	23095	0.0	24.0	23.03	50	0	Back	5	0.847	1.259	1.066	0.666		23.7	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population													Body 1.6 W/kg (mW/g) averaged over 1 gram										

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Table 12-31 | Ant E – Open

Table 12.6.1.1 - SAR Data																							
Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power [dBm]	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)	Pist #	Plimt [dBi]	Overtaken Plimt [dBi]
Body	LTE Band 12	10	QPSK	E	0025M	1:1	-0.02	707.50	23095	0.0	23.0	22.64	1	0	Front	5	0.214	1.086	0.232	0.145		29.3	
Body	LTE Band 12	10	QPSK	E	0025M	1:1	0.01	707.50	23095	0.0	23.0	22.59	25	0	Front	5	0.224	1.099	0.246	0.154	29.0		
Body	LTE Band 12	10	QPSK	E	0025M	1:1	-0.05	707.50	23095	0.0	23.0	22.64	1	0	Top	5	0.020	1.086	0.022	0.024		39.6	
Body	LTE Band 12	10	QPSK	E	0025M	1:1	0.07	707.50	23095	0.0	23.0	22.59	25	0	Top	5	0.021	1.099	0.023	0.024		39.3	
Body	LTE Band 12	10	QPSK	E	0025M	1:1	0.04	707.50	23095	0.0	23.0	22.64	1	0	Left	5	0.857	1.086	0.909	0.568		23.4	23.4
Body	LTE Band 12	10	QPSK	E	0025M	1:1	0.02	707.50	23095	0.0	23.0	22.59	25	0	Left	5	0.796	1.099	0.809	0.506		23.9	
Body	LTE Band 12	10	QPSK	E	0025M	1:1	-0.01	707.50	23095	0.0	23.0	22.51	50	0	Left	5	0.755	1.119	0.845	0.528		23.7	
Body-worn/Body	LTE Band 12	10	QPSK	E	0025M	1:1	-0.03	707.50	23095	0.0	23.0	22.64	1	0	Back	5	0.244	1.086	0.265	0.166		28.8	
Body-worn/Body	LTE Band 12	10	QPSK	E	0025M	1:1	-0.03	707.50	23095	0.0	23.0	22.59	25	0	Back	5	0.259	1.099	0.285	0.178	28.4		
ANSI/IEEE C63.1-1992 - SAFETY LIMIT																							
Spatial Peak Uncontrolled Exposure General Population																							
																		1.6 W/kg Body					
																		averaged over 1 g/m					

Table 12-32 | Ant A – Closed | Plot A15

TABLE 1-2. RFR DATA - EXPOSURE PROFILE																							
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]	RIS Size	RIS Offset	Test Position	Sensing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Pist #	Plimit [dBm]	Overall Rating
Body	LTE Band 12	10	QPSK	A	0025M	1..1	-0.01	707.50	23095	0.0	25.0	24.40	1	49	Front	5	0.111	1.148	0.127	0.079	33.9		
Body	LTE Band 12	10	QPSK	A	0025M	1..1	-0.01	707.50	23095	1.0	24.0	22.87	25	25	Front	5	0.089	1.297	0.115	0.072	33.3		
Body	LTE Band 12	10	QPSK	A	0025M	1..1	-0.01	707.50	23095	0.0	25.0	24.40	1	49	Bottom	5	0.517	1.148	0.104	0.371	27.2		
Body	LTE Band 12	10	QPSK	A	0025M	1..1	0.01	707.50	23095	1.0	24.0	22.87	25	25	Bottom	5	0.440	1.297	0.171	0.357	26.4		
Body	LTE Band 12	10	QPSK	A	0025M	1..1	-0.01	707.50	23095	0.0	25.0	24.40	1	49	Right	5	0.391	1.148	0.449	0.281	28.8		
Body	LTE Band 12	10	QPSK	A	0025M	1..1	-0.01	707.50	23095	0.0	24.0	22.87	25	25	Right	5	0.483	1.297	0.451	0.297	28.1		24.0
Body-worn/Body	LTE Band 12	10	QPSK	A	0025M	1..1	-0.01	707.50	23095	0.0	25.0	24.40	1	49	Back	5	0.924	1.148	0.601	0.663	Pilot	24.7	
Body-worn/Body	LTE Band 12	10	QPSK	A	0025M	1..1	-0.01	707.50	23095	0.0	25.0	24.40	1	49	Back	5	0.931	1.148	1.048	0.655	24.7		
Body-worn/Body	LTE Band 12	10	QPSK	A	0025M	1..1	0.01	707.50	23095	1.0	24.0	22.87	25	25	Back	5	0.700	1.297	0.984	0.625	24.0		
Body-worn/Body	LTE Band 12	10	QPSK	A	0025M	1..1	0.02	707.50	23095	1.0	24.0	22.64	50	0	Back	5	0.870	1.368	0.985	0.616	24.0		
ANSI/IEEE C95.1-1992 – SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																							
																	Body 1.6 W/(kg) averaged over 1 gram						

Note: Blue entry represents variability measurement

Table 12-33 | Ant E – Closed

TABLE 1: RF EMISSION TEST RESULTS																							
Issue	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power [dBm]	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 #	Plimb [dBm]	Overall Plimb [dBm]
Body	LTE Band 12	10	QPSK	E	0025M	1:1	-0.11	707.50	23095	0.0	23.5	23.05	1	0	Front	5	0.341	1.109	0.378	0.236		27.7	
Body	LTE Band 12	10	QPSK	E	0025M	1:1	0.06	707.50	23095	0.0	23.5	22.95	25	0	Front	5	0.309	1.135	0.551	0.219		28.0	
Body	LTE Band 12	10	QPSK	E	0025M	1:1	0.07	707.50	23095	0.0	23.5	23.05	1	0	Top	5	0.029	1.109	0.010	0.006		43.5	
Body	LTE Band 12	10	QPSK	E	0025M	1:1	0.03	707.50	23095	0.0	23.5	22.95	25	0	Top	5	0.006	1.135	0.007	0.004		45.1	
Body	LTE Band 12	10	QPSK	E	0025M	1:1	0.06	707.50	23095	0.0	23.5	23.05	1	0	Bottom	5	0.013	1.109	0.014	0.009		41.9	27.4
Body	LTE Band 12	10	QPSK	E	0025M	1:1	0.01	707.50	23095	0.0	23.5	23.05	25	0	Bottom	5	0.027	1.135	0.051	0.019		38.6	
Body	LTE Band 12	10	QPSK	E	0025M	1:1	0.04	707.50	23095	0.0	23.5	23.05	1	0	Left	5	0.083	1.109	0.088	0.038		27.4	
Body	LTE Band 12	10	QPSK	E	0025M	1:1	-0.01	707.50	23095	0.0	23.5	22.95	25	0	Left	5	0.321	1.135	0.364	0.228		27.8	
Body-worn/Body	LTE Band 12	10	QPSK	E	0025M	1:1	-0.05	707.50	23095	0.0	23.5	23.05	1	0	Back	5	0.111	1.109	0.123	0.077		32.5	
Body-worn/Body	LTE Band 12	10	QPSK	E	0025M	1:1	0.02	707.50	23095	0.0	23.5	22.95	25	0	Back	5	0.088	1.135	0.111	0.069		31.0	
AN/USC 99.1 1992 - SAFETY LIMIT																							
Spatial Peak																							
Unmodulated CW Spread Modulation																							
1.6 W/kg (mW/g)																							

12.7 LTE Band 13 Standalone SAR

Table 12-34 | Ant A – Open

Table 12-6: Vibration Exposure																							
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]	RF Size	RF Offset	Test Position	Spacing [mm]	Measured Ig [W/kg]	Power Scaling Factor	Reported Ig [W/kg]	Exposure Ratio (Ig SAR)	Pilot #	Plimit [dBm]	Overall Pavg [dBm]
Head	LTE Band 13	10	QPSK	A	0025M	1:1	-0.16	782.00	23230	0.0	24.5	24.15	1	0	Right Cheek	0	0.205	1.084	0.222	0.139		31.0	
Head	LTE Band 13	10	QPSK	A	0025M	1:1	0.0	782.00	23230	1.0	23.5	22.61	25	0	Right Cheek	0	0.148	1.227	0.183	0.114		30.9	
Head	LTE Band 13	10	QPSK	A	0025M	1:1	-0.08	782.00	23230	0.0	24.5	24.15	1	0	Left Tilt	0	0.091	1.084	0.103	0.064		34.3	
Head	LTE Band 13	10	QPSK	A	0025M	1:1	-0.06	782.00	23230	1.0	23.5	22.61	25	0	Right Tilt	0	0.075	1.227	0.087	0.054		34.0	
Head	LTE Band 13	10	QPSK	A	0025M	1:1	0.0	782.00	23230	1.0	23.5	22.61	25	0	Left Cheek	0	0.091	1.084	0.103	0.064		34.3	
Head	LTE Band 13	10	QPSK	A	0025M	1:1	0.02	782.00	23230	1.0	23.5	22.61	25	0	Left Cheek	0	0.091	1.227	0.112	0.070		33.0	
Head	LTE Band 13	10	QPSK	A	0025M	1:1	0.07	782.00	23230	0.0	24.5	24.15	1	0	Left Tilt	0	0.106	1.084	0.115	0.072		33.8	
Head	LTE Band 13	10	QPSK	A	0025M	1:1	0.11	782.00	23230	1.0	23.5	22.61	25	0	Left Tilt	0	0.061	1.227	0.075	0.047		34.7	
ANSI/IEEE C95.1-1992 - SAFETY LIMIT Spatial Peak																	Head 1.6 W/kg (mW/g)						

Table 12-35 | Ant E – Open | Plot A16

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Rate (1g SAR)	Plot #	Limit [dBm]	Overall Limit [dBm]
Head	LTE Band 13	10	QPSK	E	00035M	1:1	0.04	782.00	23230	0.0	21.0	20.16	1	0	Right Cheek	0	0.287	1.213	0.348	0.218	Plot	25.5	
Head	LTE Band 13	10	QPSK	E	00034M	1:1	0.08	782.00	23230	0.0	21.0	20.09	25	12	Right Chin	0	0.238	1.213	0.293	0.218			
Head	LTE Band 13	10	QPSK	E	00035M	1:1	0.09	782.00	23230	0.0	21.0	20.16	1	0	Right Tilt	0	0.103	1.213	0.125	0.078			
Head	LTE Band 13	10	QPSK	E	00035M	1:1	0.04	782.00	23230	0.0	21.0	20.09	25	12	Right Tilt	0	0.094	1.213	0.116	0.073			
Head	LTE Band 13	10	QPSK	E	00034M	1:1	0.02	782.00	23230	0.0	21.0	20.16	1	0	Left Cheek	0	0.135	1.213	0.152	0.095			25.5
Head	LTE Band 13	10	QPSK	E	00035M	1:1	0.00	782.00	23230	0.0	21.0	20.09	25	12	Left Cheek	0	0.116	1.233	0.143	0.089			
Head	LTE Band 13	10	QPSK	E	00035M	1:1	-0.03	782.00	23230	0.0	21.0	20.16	1	0	Left Tilt	0	0.059	0.213	0.072	0.045			
Head	LTE Band 13	10	QPSK	E	00034M	1:1	0.08	782.00	23230	0.0	21.0	20.09	25	12	Left Tilt	0	0.055	0.233	0.068	0.043			
ANNO/IEEE CSR 1.1992 - SAFETY LIMIT																	Head						
Spatial Peak																	1.6 W/kg (mw/g)						
Uncontrolled Exposure (General Population)																	averaged over 10 min						

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Table 12-36 | Ant A – Open | 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]
Body	LTE Band 13	10	QPSK	A	0025M	1:1	0.01	782.00	23230	0.0	23.5	22.70	1	0	Front	5	0.474	1.202	0.570	0.356		25.9	
Body	LTE Band 13	10	QPSK	A	0025M	1:1	0.05	782.00	23230	0.0	23.5	22.74	25	0	Front	5	0.514	1.191	0.612	0.383		25.6	
Body	LTE Band 13	10	QPSK	A	0025M	1:1	0.01	782.00	23230	0.0	23.5	22.70	1	0	Bottom	5	0.703	1.202	0.845	0.528		24.2	
Body	LTE Band 13	10	QPSK	A	0025M	1:1	-0.18	782.00	23230	0.0	23.5	22.74	25	0	Bottom	5	0.704	1.191	0.838	0.524		24.2	
Body	LTE Band 13	10	QPSK	A	0025M	1:1	-0.05	782.00	23230	0.0	23.5	22.65	50	0	Bottom	5	0.703	1.225	0.860	0.538		24.1	
Body	LTE Band 13	10	QPSK	A	0025M	1:1	0.02	782.00	23230	0.0	23.5	22.70	1	0	Right	5	0.497	1.202	0.597	0.373		25.7	
Body	LTE Band 13	10	QPSK	A	0025M	1:1	-0.01	782.00	23230	0.0	23.5	22.74	25	0	Right	5	0.423	1.191	0.504	0.315		26.4	
Body worn/Body	LTE Band 13	10	QPSK	A	0025M	1:1	-0.18	782.00	23230	0.0	23.5	22.70	1	0	Back	5	0.800	1.202	0.962	0.601		23.6	
Body worn/Body	LTE Band 13	10	QPSK	A	0025M	1:1	-0.11	782.00	23230	0.0	23.5	22.74	25	0	Back	5	0.824	1.191	0.981	0.613		23.5	
Body worn/Body	LTE Band 13	10	QPSK	A	0025M	1:1	0.00	782.00	23230	0.0	23.5	22.62	50	0	Back	5	0.888	1.225	1.088	0.680	Plot	23.1	
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 12-37 | Ant E – Open

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	LTE Band 13	10	QPSK	E	0025M	1:1	0.00	782.00	23230	0.0	21.5	20.83	1	0	Front	5	0.185	1.167	0.216	0.135		28.1	
Body	LTE Band 13	10	QPSK	E	0025M	1:1	-0.01	782.00	23230	0.0	21.5	21.09	25	0	Front	5	0.180	1.099	0.198	0.124		28.5	
Body	LTE Band 13	10	QPSK	E	0025M	1:1	0.02	782.00	23230	0.0	21.5	20.83	1	0	Top	5	0.021	1.167	0.025	0.016		17.6	
Body	LTE Band 13	10	QPSK	E	0025M	1:1	-0.09	782.00	23230	0.0	21.5	21.09	25	0	Top	5	0.019	1.099	0.021	0.013		18.3	
Body	LTE Band 13	10	QPSK	E	1417M	1:1	-0.06	782.00	23230	0.0	21.5	20.83	1	0	Left	5	0.169	1.167	0.419	0.262		25.2	
Body	LTE Band 13	10	QPSK	E	1417M	1:1	0.06	782.00	23230	0.0	21.5	21.09	25	0	Left	5	0.167	1.099	0.403	0.252		25.4	
Body worn/Body	LTE Band 13	10	QPSK	E	0025M	1:1	-0.01	782.00	23230	0.0	21.5	20.83	1	0	Back	5	0.174	1.167	0.203	0.127		28.4	
Body worn/Body	LTE Band 13	10	QPSK	E	0025M	1:1	0.00	782.00	23230	0.0	21.5	21.09	25	0	Back	5	0.168	1.099	0.185	0.116		28.8	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																	Body						
Spatial Peak																	1.6 W/kg (mW/g)						
Uncontrolled Exposure/General Population																	averaged over 1 gram						

Table 12-38 | Ant A – Closed

xposure	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	LTE Band 13	10	QPSK	A	0025M	1:1	-0.08	782.00	23230	0.0	24.0	23.18	1	0	Front	5	0.087	1.208	0.105	0.066		33.7	
Body	LTE Band 13	10	QPSK	A	0025M	1:1	-0.03	782.00	23230	0.5	23.5	22.46	25	0	Front	5	0.077	1.271	0.098	0.061		33.5	
Body	LTE Band 13	10	QPSK	A	0025M	1:1	0.02	782.00	23230	0.0	24.0	23.18	1	0	Bottom	5	0.046	1.208	0.084	0.028		25.6	
Body	LTE Band 13	10	QPSK	A	0025M	1:1	0.04	782.00	23230	0.5	23.5	22.46	25	0	Bottom	5	0.050	1.271	0.062	0.021		25.5	
Body	LTE Band 13	10	QPSK	A	0025M	1:1	0.03	782.00	23230	0.0	24.0	23.18	1	0	Right	5	0.255	1.208	0.308	0.193		29.1	23.7
Body	LTE Band 13	10	QPSK	A	0025M	1:1	0.00	782.00	23230	0.5	23.5	22.46	25	0	Right	5	0.219	1.271	0.278	0.174		29.0	
Body-worn/Body	LTE Band 13	10	QPSK	A	0025M	1:1	-0.05	782.00	23230	0.0	24.0	23.18	1	0	Back	5	0.081	1.208	0.084	0.065		23.7	
Body-worn/Body	LTE Band 13	10	QPSK	A	0025M	1:1	0.00	782.00	23230	0.5	23.5	22.46	25	0	Back	5	0.735	1.271	0.934	0.584		23.7	
Body-worn/Body	LTE Band 13	10	QPSK	A	0025M	1:1	0.00	782.00	23230	0.5	23.5	22.42	50	0	Back	5	0.732	1.282	0.938	0.586		23.7	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																	Body						
Spatial Peak																	1.6 W/kg (mW/g)						
Uncontrolled Exposure/General Population																	averaged over 1 gram						

Table 12-39 | Ant E – Closed

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	LTE Band 13	10	QPSK	E	0025M	1:1	0.03	782.00	23230	0.0	22.0	21.39	1	0	Front	5	0.154	1.151	0.407	0.254		25.8	
Body	LTE Band 13	10	QPSK	E	0025M	1:1	0.09	782.00	23230	0.0	22.0	21.35	25	0	Front	5	0.288	1.216	0.350	0.219		26.5	
Body	LTE Band 13	10	QPSK	E	0025M	1:1	0.07	782.00	23230	0.0	22.0	21.39	1	0	Top	5	0.033	1.151	0.026	0.016		17.7	
Body	LTE Band 13	10	QPSK	E	0025M	1:1	0.03	782.00	23230	0.0	22.0	21.35	25	0	Top	5	0.017	1.216	0.021	0.013		18.8	
Body	LTE Band 13	10	QPSK	E	0025M	1:1	0.06	782.00	23230	0.0	22.0	21.39	1	0	Bottom	5	0.045	1.151	0.052	0.033		14.8	
Body	LTE Band 13	10	QPSK	E	0025M	1:1	0.06	782.00	23230	0.0	22.0	21.35	25	0	Bottom	5	0.038	1.216	0.046	0.029		15.4	25.8
Body	LTE Band 13	10	QPSK	E	0025M	1:1	0.04	782.00	23230	0.0	22.0	21.39	1	0	Left	5	0.055	1.151	0.409	0.256		25.8	
Body	LTE Band 13	10	QPSK	E	0025M	1:1	0.04	782.00	23230	0.0	22.0	21.35	25	0	Left	5	0.297	1.216	0.361	0.226		26.4	
Body worn/Body	LTE Band 13	10	QPSK	E	0025M	1:1	-0.12	782.00	23230	0.0	22.0	21.39	1	0	Back	5	0.197	1.151	0.158	0.099		30.0	
Body worn/Body	LTE Band 13	10	QPSK	E	0025M	1:1	-0.03	782.00	23230	0.0	22.0	21.35	25	0	Back	5	0.110	1.216	0.134	0.084		30.7	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Body 1.6 W/kg (mW/g) averaged over 1 gram						

12.8 LTE Band 26 (Cell) Standalone SAR

Table 12-40 | Ant A – Open

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Limit [dBm]	Overall Limit [dBm]
Head	LTE Band 26	15	QPSK	A	0070M	1:1	-0.06	831.50	26865	0.0	25.5	24.06	1	36	Right Cheek	0	0.204	1.393	0.284	0.178		30.9	
Head	LTE Band 26	15	QPSK	A	0070M	1:1	-0.02	831.50	26865	1.0	24.5	23.34	36	0	Right Cheek	0	0.183	1.368	0.182	0.114		31.9	
Head	LTE Band 26	15	QPSK	A	0070M	1:1	-0.03	831.50	26865	0.0	25.5	24.06	1	36	Right Tilt	0	0.083	1.393	0.116	0.073		34.8	
Head	LTE Band 26	15	QPSK	A	0070M	1:1	0.07	831.50	26865	1.0	24.5	22.75	36	0	Right Tilt	0	0.059	1.368	0.081	0.051		35.4	
Head	LTE Band 26	15	QPSK	A	0070M	1:1	-0.13	831.50	26865	0.0	25.5	24.06	1	36	Left Cheek	0	0.195	1.393	0.187	0.104		31.2	
Head	LTE Band 26	15	QPSK	A	0070M	1:1	0.03	831.50	26865	1.0	24.5	23.34	36	0	Left Cheek	0	0.108	1.368	0.148	0.093		32.8	
Head	LTE Band 26	15	QPSK	A	0070M	1:1	0.03	831.50	26865	0.0	25.5	24.06	1	36	Left Tilt	0	0.070	1.393	0.098	0.061		35.6	
Head	LTE Band 26	15	QPSK	A	0070M	1:1	0.00	831.50	26865	1.0	24.5	23.34	36	0	Left Tilt	0	0.065	1.368	0.089	0.056		35.0	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																	Head						
Spatial Peak																	1.6 W/kg (mW/g)						
Uncontrolled Exposure/General Population																	averaged over 1 gram						

Table 12-41 | Ant E – Open | 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]
Head	LTE Band 26	15	QPSK	E	0070M	1:1	0.09	831.50	26865	0.0	22.5	21.79	1	74	Right Cheek	0	0.539	1.178	0.659	0.412		24.3	

Table 12-42 | Ant A – Open

ire	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	LTE Band 26	15	QPSK	A	0070M	1:1	-0.01	831.50	26865	0.0	22.5	21.27	1	0	Front	5	0.140	1.327	0.318	0.199		27.4	
Body	LTE Band 26	15	QPSK	A	0070M	1:1	0.02	831.50	26865	0.0	22.5	21.26	36	0	Front	5	0.136	1.334	0.315	0.197		27.5	
Body	LTE Band 26	15	QPSK	A	0070M	1:1	0.01	831.50	26865	0.0	22.5	21.27	1	0	Bottom	5	0.273	1.327	0.362	0.226		26.9	
Body	LTE Band 26	15	QPSK	A	0070M	1:1	0.00	831.50	26865	0.0	22.5	21.26	36	0	Bottom	5	0.267	1.334	0.356	0.223		26.9	
Body	LTE Band 26	15	QPSK	A	0070M	1:1	0.02	831.50	26865	0.0	22.5	21.27	1	0	Right	5	0.261	1.327	0.345	0.216		27.1	
Body	LTE Band 26	15	QPSK	A	0070M	1:1	0.03	831.50	26865	0.0	22.5	21.26	36	0	Right	5	0.230	1.334	0.307	0.192		27.6	
Body worn/Body	LTE Band 26	15	QPSK	A	0070M	1:1	0.13	831.50	26865	0.0	22.5	21.27	1	0	Back	5	0.155	1.327	0.471	0.294		25.7	
Body worn/Body	LTE Band 26	15	QPSK	A	0070M	1:1	-0.02	831.50	26865	0.0	22.5	21.26	36	0	Back	5	0.170	1.334	0.484	0.309		25.3	
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 12-43 | Ant E – Open

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	LTE Band 26	15	QPSK	E	0070M	1:1	0.11	831.50	26865	0.0	23.5	22.99	1	0	Front	5	0.426	1.125	0.479	0.299		26.6	
Body	LTE Band 26	15	QPSK	E	0070M	1:1	-0.01	831.50	26865	0.0	23.5	22.97	36	0	Front	5	0.420	1.146	0.481	0.301		26.6	
Body	LTE Band 26	15	QPSK	E	0070M	1:1	0.09	831.50	26865	0.0	23.5	22.99	1	0	Top	5	0.041	1.125	0.046	0.029		36.8	
Body	LTE Band 26	15	QPSK	E	0070M	1:1	-0.14	831.50	26865	0.0	23.5	22.95	36	0	Top	5	0.041	1.146	0.047	0.029		36.7	
Body	LTE Band 26	15	QPSK	E	0070M	1:1	0.08	831.50	26865	0.0	23.5	22.97	1	0	Right	5	0.143	1.125	0.148	0.085		25.4	25.2
Body	LTE Band 26	15	QPSK	E	0070M	1:1	0.02	831.50	26865	0.0	23.5	22.95	36	0	Left	5	0.578	1.146	0.602	0.414		25.2	
Body	LTE Band 26	15	QPSK	E	0070M	1:1	0.06	831.50	26865	0.0	23.5	22.85	75	0	Left	5	0.173	1.161	0.165	0.116		25.2	
Body worn/Body	LTE Band 26	15	QPSK	E	0070M	1:1	-0.11	831.50	26865	0.0	23.5	22.99	1	0	Back	5	0.426	1.125	0.479	0.299		26.6	
Body worn/Body	LTE Band 26	15	QPSK	E	0070M	1:1	0.06	831.50	26865	0.0	23.5	22.95	36	0	Back	5	0.426	1.146	0.488	0.305		25.7	
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 12-44 | Ant A – Closed | Plot A19

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Limit [dBm]	Overall Limit [dBm]
Body	LTE Band 26	15	QPSK	A	0070M	1:1	-0.03	831.50	26865	0.0	23.5	22.31	1	0	Front	5	0.077	1.315	0.101	0.063		33.4	
Body	LTE Band 26	15	QPSK	A	0070M	1:1	0.04	831.50	26865	0.0	23.5	22.37	36	0	Front	5	0.069	1.297	0.089	0.056		33.9	
Body	LTE Band 26	15	QPSK	A	1417M	1:1	-0.05	831.50	26865	0.0	23.5	22.21	1	0	Bottom	5	0.589	1.315	0.775	0.484		24.6	
Body	LTE Band 26	15	QPSK	A	1417M	1:1	-0.16	831.50	26865	0.0	23.5	22.27	36	0	Bottom	5	0.583	1.297	0.756	0.473		24.7	
Body	LTE Band 26	15	QPSK	A	0070M	1:1	0.06	831.50	26865	0.0	23.5	22.31	1	0	Right	5	0.144	1.315	0.189	0.118		30.7	23.5
Body	LTE Band 26	15	QPSK	A	0070M	1:1	-0.08	831.50	26865	0.0	23.5	22.27	36	0	Right	5	0.137	1.297	0.178	0.111		31.0	
Body-worn/Body	LTE Band 26	15	QPSK	A	0070M	1:1	-0.16	831.50	26865	0.0	23.5	22.25	1	0	Back	5	0.718	1.315	0.997	0.623		23.5	
Body-worn/Body	LTE Band 26	15	QPSK	A	0070M	1:1	-0.13	831.50	26865	0.0	23.5	22.27	36	0	Back	5	0.723	1.297	0.916	0.585		23.7	
Body-worn/Body	LTE Band 26	15	QPSK	A	0023M	1:1	0.03	831.50	26865	0.0	23.5	22.30	75	0	Back	5	0.730	1.318	0.962	0.601		23.6	
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 12-45 | Ant E – Closed

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	LTE Band 26	15	QPSK	E	0070M	1:1	0.08	831.50	26865	0.0	24.0	23.36	1	0	Front	5	0.366	1.159	0.424	0.265		27.7	
Body	LTE Band 26	15	QPSK	E	0070M	1:1	-0.05	831.50	26865	0.0	24.0	23.30	36	0	Front	5	0.379	1.175	0.445	0.278		27.5	
Body	LTE Band 26	15	QPSK	E	0070M	1:1	-0.03	831.50	26865	0.0	24.0	23.36	1	0	Top	5	0.027	1.159	0.031	0.019		39.0	
Body	LTE Band 26	15	QPSK	E	0070M	1:1	0.19	831.50	26865	0.0	24.0	23.30	36	0	Top	5	0.025	1.175	0.029	0.018		39.3	
Body	LTE Band 26	15	QPSK	E	0070M	1:1	-0.06	831.50	26865	0.0	24.0	23.36	1	0	Bottom	5	0.027	1.159	0.031	0.019		39.0	
Body	LTE Band 26	15	QPSK	E	0070M	1:1	-0.09	831.50	26865	0.0	24.0	23.30	36	0	Bottom	5	0.026	1.175	0.031	0.019		39.1	
Body	LTE Band 26	15	QPSK	E	0070M	1:1	0.08	831.50	26865	0.0	24.0	23.36	1	0	Left	5	0.176	1.159	0.436	0.273		27.6	
Body	LTE Band 26	15	QPSK	E	0070M	1:1	-0.01	831.50	26865	0.0	24.0	23.30	36	0	Left	5	0.172	1.175	0.437	0.273		27.5	
Body worn/Body	LTE Band 26	15	QPSK	E	0070M	1:1	-0.01	831.50	26865	0.0	24.0	23.36	1	0	Back	5	0.108	1.159	0.125	0.078		33.0	
Body worn/Body	LTE Band 26	15	QPSK	E	0070M	1:1	0.03	831.50	26865	0.0	24.0	23.30	36	0	Back	5	0.113	1.175	0.133	0.083		32.7	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																	Body 1.6 W/kg (mW/g) averaged over 1 gram						
Spatial Peak																							
Uncontrolled Exposure/General Population																							

12.9 LTE Band 66 (AWS) Standalone SAR

Table 12-46 | Ant B – Open

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	B	0087M	1:1	0.10	1745.00	132322	0.0	25.0	24.11	1	50	Right Cheek	0	0.070	1.227	0.086	0.054		35.6	
Head	LTE Band 66	20	QPSK	B	0087M	1:1	0.05	1745.00	132322	1.0	24.0	23.34	50	25	Right Cheek	0	0.058	1.219	0.071	0.044		35.5	
Head	LTE Band 66	20	QPSK	B	1521M	1:1	0.02	1745.00	132322	0.0	25.0	24.11	1	50	Right Tilt	0	0.057	1.227	0.070	0.044		36.5	
Head	LTE Band 66	20	QPSK	B	1521M	1:1	0.06	1745.00	132322	1.0	24.0	23.34	50	25	Right Tilt	0	0.045	1.219	0.055	0.034		36.6	
Head	LTE Band 66	20	QPSK	B	0087M	1:1	0.08	1745.00	132322	0.0	25.0	24.11	1	50	Left Cheek	0	0.067	1.227	0.082	0.051		35.7	35.5
Head	LTE Band 66	20	QPSK	B	0087M	1:1	0.07	1745.00	132322	1.0	24.0	23.34	50	25	Left Cheek	0	0.055	1.219	0.067	0.042		35.7	
Head	LTE Band 66	20	QPSK	B	0087M	1:1	0.13	1745.00	132322	0.0	25.0	24.11	1	50	Left Tilt	0	0.040	1.227	0.049	0.031		38.0	
Head	LTE Band 66	20	QPSK	B	0087M	1:1	0.08	1745.00	132322	1.0	24.0	23.34	50	25	Left Tilt	0	0.029	1.219	0.035	0.022		38.5	
ANSI/IEEE C95.1, 1992 - SAFETY LIMIT																	Head						
Spatial Peak																	1.6 W/kg (mW/g)						
Uncontrolled Exposure (General Population)																	averaging time = 30 min						

Table 12-47 | Ant H – Open | Plot A20

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Head	LTE Band 66	20	QPSK	H	0085M	1:1	-0.05	1720.00	132072	0.0	19.0	18.67	1	0	Right Cheek	0	0.108	1.079	0.117	0.073		39.3	33.2
Head	LTE Band 66	20	QPSK	H	0085M	1:1	-0.04	1720.00	132072	0.0	19.0	18.70	50	0	Right Cheek	0	0.110	1.072	0.118	0.074		39.2	
Head	LTE Band 66	20	QPSK	H	0085M	1:1	-0.02	1720.00	132072	0.0	19.0	18.67	1	0	Right Tilt	0	0.088	1.079	0.095	0.059		40.1	
Head	LTE Band 66	20	QPSK	H	0085M	1:1	-0.06	1720.00	132072	0.0	19.0	18.40	50	0	Right Tilt	0	0.092	1.072	0.099	0.062		40.0	
Head	LTE Band 66	20	QPSK	H	0085M	1:1	-0.05	1720.00	132072	0.0	19.0	18.67	1	0	Left Cheek	0	0.122	1.079	0.456	0.285		33.3	
Head	LTE Band 66	20	QPSK	H	0085M	1:1	0.01	1720.00	132072	0.0	19.0	18.70	50	0	Left Cheek	0	0.436	1.072	0.467	0.292	Plot	33.2	
Head	LTE Band 66	20	QPSK	H	0085M	1:1	-0.01	1720.00	132072	0.0	19.0	18.67	1	0	Left Tilt	0	0.288	1.079	0.311	0.194		35.0	
Head	LTE Band 66	20	QPSK	H	0085M	1:1	0.00	1720.00	132072	0.0	19.0	18.70	50	0	Left Tilt	0	0.300	1.072	0.321	0.201		34.8	
ANSI/IEEE C63.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Head 1.6 W/kg (mW/g) averaged over 1 gram						

Table 12-48 | Ant B – Open | Plot A22, A21

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 66	20	QPSK	B	0087M	1:1	0.05	1770.00	132572	0.0	20.0	18.84	1	99	Front	5	0.110	1.306	0.405	0.321		23.9	20.2
Body	LTE Band 66	20	QPSK	B	0087M	1:1	-1.12	1770.00	132572	0.0	20.0	18.80	50	0	Front	5	0.114	1.312	0.414	0.329		23.8	
Body	LTE Band 66	20	QPSK	B	0087M	1:1	0.02	1720.00	132072	0.0	20.0	18.70	1	99	Bottom	5	0.640	1.349	0.863	0.685		20.6	
Body	LTE Band 66	20	QPSK	B	0087M	1:1	-0.02	1745.00	132322	0.0	20.0	18.77	1	0	Bottom	5	0.648	1.327	0.860	0.683		20.6	
Body	LTE Band 66	20	QPSK	B	0087M	1:1	0.02	1720.00	132072	0.0	20.0	18.84	1	99	Bottom	5	0.710	1.306	0.927	0.736		20.3	
Body	LTE Band 66	20	QPSK	B	0087M	1:1	-0.02	1720.00	132072	0.0	20.0	18.73	50	50	Bottom	5	0.634	1.340	0.850	0.674		20.7	
Body	LTE Band 66	20	QPSK	B	0087M	1:1	0.00	1745.00	132322	0.0	20.0	18.77	50	25	Bottom	5	0.667	1.327	0.885	0.703		20.5	
Body	LTE Band 66	20	QPSK	B	0087M	1:1	-0.05	1720.00	132572	0.0	20.0	18.80	50	50	Bottom	5	0.729	1.346	0.949	0.753	Plot	20.2	
Body	LTE Band 66	20	QPSK	B	0087M	1:1	0.08	1770.00	132572	0.0	20.0	18.79	100	0	Bottom	5	0.700	1.321	0.925	0.734		20.3	
Body	LTE Band 66	20	QPSK	B	0087M	1:1	-0.12	1770.00	132572	0.0	20.0	18.84	1	99	Left	5	0.114	1.306	0.279	0.222		25.5	
Body	LTE Band 66	20	QPSK	B	0087M	1:1	0.01	1770.00	132572	0.0	20.0	18.80	50	50	Left	5	0.116	1.318	0.285	0.226		25.4	
Body-worm/Body	LTE Band 66	20	QPSK	B	0087M	1:1	0.08	1720.00	132072	0.0	20.0	18.80	1	99	Back	5	0.640	1.369	0.853	0.679		20.6	
Body-worm/Body	LTE Band 66	20	QPSK	B	0087M	1:1	0.04	1745.00	132322	0.0	20.0	18.77	1	0	Back	5	0.644	1.327	0.855	0.678		20.6	
Body-worm/Body	LTE Band 66	20	QPSK	B	0087M	1:1	0.01	1770.00	132572	0.0	20.0	18.84	1	99	Back	5	0.655	1.306	0.855	0.679		20.6	
Body-worm/Body	LTE Band 66	20	QPSK	B	0087M	1:1	0.06	1720.00	132072	0.0	20.0	18.75	50	50	Back	5	0.623	1.340	0.823	0.651		20.8	
Body-worm/Body	LTE Band 66	20	QPSK	B	0087M	1:1	0.03	1745.00	132322	0.0	20.0	18.77	50	25	Back	5	0.636	1.327	0.844	0.670		20.7	
Body-worm/Body	LTE Band 66	20	QPSK	B	0087M	1:1	-0.07	1770.00	132572	0.0	20.0	18.80	50	50	Back	5	0.655	1.318	0.863	0.685		20.6	
Body-worm/Body	LTE Band 66	20	QPSK	B	0087M	1:1	0.03	1770.00	132572	0.0	20.0	18.78	100	0	Back	5	0.656	1.321	0.867	0.688	Plot	20.6	
ANSI/IEEE C63.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Body 1.6 W/kg (mW/g) averaged over 1 gram						

Table 12-49 | Ant H – Open

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	LTE Band 66	20	QPSK	H	0085M	1:1	0.07	1770.00	132572	0.0	22.0	20.69	1	99	Front	5	0.266	1.352	0.360	0.225		26.4	24.6
Body	LTE Band 66	20	QPSK	H	0085M	1:1	-0.03	1720.00	132072	0.0	22.0	20.71	50	0	Front	5	0.400	1.346	0.548	0.356		24.6	
Body	LTE Band 66	20	QPSK	H	0085M	1:1	0.00	1770.00	132572	0.0	22.0	20.69	1	99	Top	5	0.164	1.352	0.222	0.139		28.5	
Body	LTE Band 66	20	QPSK	H	0085M	1:1	-0.05	1720.00	132072	0.0	22.0	20.71	50	0	Top	5	0.191	1.346	0.257	0.161		27.8	
Body	LTE Band 66	20	QPSK	H	0085M	1:1	-0.01	1770.00	132572	0.0	22.0	20.69	1	99	Right	5	0.141	1.352	0.191	0.119		29.1	
Body	LTE Band 66	20	QPSK	H	0085M	1:1	-0.17	1720.00	132072	0.0	22.0	20.71	50	0	Right	5	0.199	1.346	0.268	0.168		27.7	
Body-worm/Body	LTE Band 66	20	QPSK	H	0085M	1:1	-0.08	1770.00	132572	0.0	22.0	20.69	1	99	Back	5	0.100	1.352	0.135	0.084		30.6	
Body-worm/Body	LTE Band 66	20	QPSK	H	0085M	1:1	0.00	1720.00	132072	0.0	22.0	20.71	50	0	Back	5	0.159	1.346	0.214	0.134		28.6	
ANSI/IEEE C63.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Body 1.6 W/kg (mW/g) averaged over 1 gram						

Table 12-50 | Ant B – Closed

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	LTE Band 66	20	QPSK	B	0085M	1:1	0.02	1745.00	132322	0.0	21.0	20.00	1	50	Front	5	0.367	1.259	0.462	0.289		24.3	22.3
Body	LTE Band 66	20	QPSK	B	0085M	1:1	-0.04	1745.00	132322	0.0	21.0	19.97	50	25	Front	5	0.368	1.268	0.467	0.292		24.3	
Body	LTE Band 66	20	QPSK	B	0085M	1:1	-0.05	1745.00	132322	0.0	21.0	20.00	1	50	Bottom	5	0.542	1.259	0.602	0.406		22.6	
Body	LTE Band 66	20	QPSK	B	0085M	1:1	-0.02	1745.00	132322	0.0	21.0	19.97	50	25	Bottom	5	0.514	1.268	0.728	0.465		22.3	
Body	LTE Band 66	20	QPSK	B	0085M	1:1	-0.05	1745.00	132322	0.0	21.0	20.00	1	50	Left	5	0.138	1.259	0.174	0.109		28.6	
Body	LTE Band 66	20	QPSK	B	0085M	1:1	0.01	1745.00	132322	0.0	21.0	19.97	50	25	Left	5	0.137	1.268	0.176	0.106		28.6	
Body-worm/Body	LTE Band 66	20	QPSK	B	0085M	1:1	-0.04	1745.00	132322	0.0	21.0	20.00	1	50	Back	5	0.395	1.259	0.497	0.311		24.0	
Body-worm/Body	LTE Band 66	20	QPSK	B	0085M	1:1	-0.01	1745.00	132322	0.0	21.0	19.97	50	25	Back	5	0.386	1.268	0.489	0.306		24.1	
ANSI/IEEE C63.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Body 1.6 W/kg (mW/g) averaged over 1 gram						

Table 12-51 | Ant H – Closed

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	LTE Band 66	20	QPSK	H	0085M	1:1	0.04	1720.00	132072	0.0	22.5	21.17	1	50	Front	5	0.195	1.358	0.265	0.166		28.2	23.4
Body	LTE Band 66	20	QPSK	H	0085M	1:1	0.09	1720.00	132072	0.0	22.5	21.26	50	25	Front	5	0.197	1.330	0.262	0.164		28.3	
Body	LTE Band 66	20	QPSK	H	0085M	1:1	0.06	1720.00	132072	0.0	22.5	21.17	1	50	Bottom	5	0.225	1.358	0.306	0.191		27.6	
Body	LTE Band 66	20	QPSK	H	0085M	1:1	-0.08	1720.00	132072	0.0	22.5	21.26	50	25	Bottom	5	0.228	1.330	0.305	0.191		27.6	
Body	LTE Band 66	20	QPSK	H	0085M	1:1	0.00	1720.00	132072	0.0	22.5	21.17	1	50	Right	5	0.197	1.358	0.811	0.507		23.4	



12.10 LTE Band 25 (PCS) Standalone SAR

Table 12-52 | Ant B – Open

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Limit [dBm]	Overall Limit [dBm]
Head	LTE Band 25	20	QPSK	B	0087M	1:1	0.04	1905.00	26590	0.0	25.0	23.55	1	99	Right Cheek	0	0.066	1.279	0.084	0.053		35.7	35.2
Head	LTE Band 25	20	QPSK	B	0087M	1:1	0.05	1905.00	26590	1.0	24.0	22.45	50	0	Right Cheek	0	0.043	1.442	0.062	0.039		36.0	
Head	LTE Band 25	20	QPSK	B	0087M	1:1	0.03	1905.00	26590	0.0	25.0	23.55	1	99	Right Tilt	0	0.038	1.279	0.049	0.031		38.1	
Head	LTE Band 25	20	QPSK	B	0087M	1:1	0.01	1905.00	26590	1.0	24.0	17.45	50	0	Right Tilt	0	0.029	1.442	0.041	0.036		37.7	
Head	LTE Band 25	20	QPSK	B	0087M	1:1	0.06	1905.00	26590	0.0	25.0	23.89	1	99	Left Cheek	0	0.073	1.279	0.093	0.058		35.2	
Head	LTE Band 25	20	QPSK	B	0087M	1:1	0.09	1905.00	26590	1.0	24.0	22.45	50	0	Left Cheek	0	0.046	1.442	0.066	0.041		35.7	
Head	LTE Band 25	20	QPSK	B	0087M	1:1	0.05	1905.00	26590	0.0	25.0	23.89	1	99	Left Tilt	0	0.029	1.279	0.037	0.033		39.3	
Head	LTE Band 25	20	QPSK	B	0087M	1:1	-0.09	1905.00	26590	1.0	24.0	22.45	50	0	Left Tilt	0	0.033	1.442	0.019	0.012		41.2	
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 12-53 | Ant H – Open | Plot A23

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Limit [dBm]	Overall Limit [dBm]
Head	LTE Band 25	20	QPSK	H	0085M	1:1	0.06	1860.00	26140	0.0	20.5	19.00	1	0	Right Cheek	0	0.088	1.413	0.124	0.078		29.5	23.0
Head	LTE Band 25	20	QPSK	H	0085M	1:1	-0.03	1860.00	26140	0.0	20.5	18.86	50	0	Right Cheek	0	0.086	1.459	0.125	0.078		29.5	
Head	LTE Band 25	20	QPSK	H	0085M	1:1	0.01	1860.00	26140	0.0	20.5	19.00	1	0	Right Tilt	0	0.080	1.413	0.113	0.071		29.9	
Head	LTE Band 25	20	QPSK	H	0085M	1:1	0.04	1860.00	26140	0.0	20.5	18.86	50	0	Right Tilt	0	0.089	1.459	0.117	0.073		29.8	
Head	LTE Band 25	20	QPSK	H	0085M	1:1	-0.02	1860.00	26140	0.0	20.5	19.00	1	0	Left Cheek	0	0.182	1.413	0.540	0.338	Plot	23.1	
Head	LTE Band 25	20	QPSK	H	0085M	1:1	0.01	1860.00	26140	0.0	20.5	18.86	50	0	Left Cheek	0	0.180	1.459	0.554	0.346		23.0	
Head	LTE Band 25	20	QPSK	H	0085M	1:1	0.05	1860.00	26140	0.0	20.5	18.86	1	0	Left Tilt	0	0.258	1.413	0.365	0.228		24.8	
Head	LTE Band 25	20	QPSK	H	0085M	1:1	-0.05	1860.00	26140	0.0	20.5	18.86	50	0	Left Tilt	0	0.248	1.459	0.376	0.235		24.7	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Head 1.6 W/kg (mW/g) averaged over 1 gram						

Table 12-54 | Ant B – Open

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	LTE Band 25	20	QPSK	B	0087M	1:1	0.02	1905.00	26590	0.0	19.0	17.58	1	99	Front	5	0.223	1.387	0.309	0.193		24.0	18.6
Body	LTE Band 25	20	QPSK	B	0087M	1:1	0.08	1905.00	26590	0.0	19.0	17.54	50	0	Front	5	0.220	1.400	0.322	0.201		23.9	
Body	LTE Band 25	20	QPSK	B	0087M	1:1	-0.05	1860.00	26140	0.0	19.0	17.38	1	99	Bottom	5	0.682	1.452	0.950	0.629		19.0	
Body	LTE Band 25	20	QPSK	B	0087M	1:1	-0.01	1882.50	26365	0.0	19.0	17.47	1	99	Bottom	5	0.726	1.422	1.032	0.645		18.8	
Body	LTE Band 25	20	QPSK	B	0087M	1:1	0.01	1905.00	26590	0.0	19.0	17.58	1	99	Bottom	5	0.649	1.387	0.900	0.563		19.4	
Body	LTE Band 25	20	QPSK	B	0087M	1:1	0.06	1860.00	26140	0.0	19.0	17.43	50	0	Bottom	5	0.744	1.442	1.073	0.671		18.6	
Body	LTE Band 25	20	QPSK	B	0087M	1:1	0.00	1882.50	26365	0.0	19.0	17.38	50	0	Bottom	5	0.733	1.452	1.064	0.665		18.7	
Body	LTE Band 25	20	QPSK	B	0087M	1:1	-0.12	1905.00	26590	0.0	19.0	17.54	50	0	Bottom	5	0.683	1.400	0.956	0.596		19.1	
Body	LTE Band 25	20	QPSK	B	0087M	1:1	-0.16	1905.00	26590	0.0	19.0	17.52	100	0	Bottom	5	0.668	1.406	0.939	0.587		19.2	
Body	LTE Band 25	20	QPSK	B	0087M	1:1	-0.16	1905.00	26590	0.0	19.0	17.58	1	99	Left	5	0.168	1.387	0.510	0.319		21.9	
Body	LTE Band 25	20	QPSK	B	0087M	1:1	0.01	1905.00	26590	0.0	19.0	17.54	50	0	Left	5	0.145	1.400	0.483	0.302		22.1	
Body worn/Body	LTE Band 25	20	QPSK	B	0087M	1:1	-0.07	1905.00	26590	0.0	19.0	17.58	1	99	Back	5	0.113	1.387	0.434	0.271		22.6	
Body worn/Body	LTE Band 25	20	QPSK	B	0087M	1:1	0.08	1905.00	26590	0.0	19.0	17.54	50	0	Back	5	0.128	1.400	0.459	0.287		22.3	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Body 1.6 W/kg (mW/g) averaged over 1 gram						

Table 12-55 | Ant H – Open

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	LTE Band 25	20	QPSK	H	0085M	1:1	0.02	1860.00	26140	0.0	22.0	20.40	1	0	Front	5	0.342	1.445	0.494	0.309		25.0	23.8
Body	LTE Band 25	20	QPSK	H	0085M	1:1	0.01	1860.00	26140	0.0	22.0	20.37	50	0	Front	5	0.333	1.455	0.514	0.321		24.8	
Body	LTE Band 25	20	QPSK	H	0085M	1:1	-0.16	1860.00	26140	0.0	22.0	20.40	1	0	Top	5	0.771	1.445	0.392	0.245		26.0	
Body	LTE Band 25	20	QPSK	H	0085M	1:1	-0.05	1905.00	26590	0.0	22.0	20.37	50	0	Top	5	0.766	1.455	0.431	0.269		25.4	
Body	LTE Band 25	20	QPSK	H	0085M	1:1	-0.03	1860.00	26140	0.0	22.0	20.40	1	0	Right	5	0.447	1.445	0.646	0.404		23.8	
Body	LTE Band 25	20	QPSK	H	0085M	1:1	-0.02	1860.00	26140	0.0	22.0	20.37	50	0	Right	5	0.448	1.455	0.652	0.408		23.8	
Body worn/Body	LTE Band 25	20	QPSK	H	0085M	1:1	-0.09	1860.00	26140	0.0	22.0	20.40	1	0	Back	5	0.272	1.445	0.392	0.246		26.0	
Body worn/Body	LTE Band 25	20	QPSK	H	0085M	1:1	-0.05	1860.00	26140	0.0	22.0	20.37	50	0	Back	5	0.275	1.455	0.400	0.250		25.9	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Body 1.6 W/kg (mW/g) averaged over 1 gram						

Table 12-56 | Ant B – Closed | Plot A25, A24

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Limit [dBm]	Overall Limit [dBm]
Body	LTE Band 25	20	QPSK	B	0087M	1:1	0.03	1860.00	26140	0.0	20.5	19.00	1	99	Front	5	0.070	1.413	0.099	0.062		30.5	20.1
Body	LTE Band 25	20	QPSK	B	0087M	1:1	0.06	1860.00	26140	0.0	20.5	19.00	50	0	Front	5	0.071	1.406	0.100	0.063		30.5	
Body	LTE Band 25	20	QPSK	B	1512M	1:1	0.02	1860.00	26140	0.0	20.5	19.00	1	99	Bottom	5	0.725	1.413	1.024	0.640		20.3	
Body	LTE Band 25	20	QPSK	B	1512M	1:1	0.01	1882.50	26365	0.0	20.5	18.98	1	99	Bottom	5	0.745	1.419	1.057	0.645		20.2	
Body	LTE Band 25	20	QPSK	B	1512M	1:1	-0.02	1905.00	26590	0.0	20.5	18.97	1	99	Bottom	5	0.719	1.422	1.022	0.639		20.4	
Body	LTE Band 25	20	QPSK	B	1512M	1:1	0.01	1860.00	26140	0.0	20.5	19.00	50	0	Bottom	5	0.698	1.406	0.981	0.613		20.5	
Body	LTE Band 25	20	QPSK	B	1512M	1:1	-0.10	1882.50	26365	0.0	20.5	18.97	50	0	Bottom	5	0.748	1.422	1.092	0.683	Plot	20.1	
Body	LTE Band 25	20	QPSK	B	1512M	1:1	-0.04	1905.00	26590	0.0	20.5	18.97	50	0	Bottom	5	0.720	1.422	1.024	0.640		20.1	
Body	LTE Band 25	20	QPSK	B	1512M	1:1	0.01	1882.50	26365	0.0	20.5	18.98	100	0	Bottom	5	0.764	1.419	1.084	0.678		20.1	
Body	LTE Band 25	20	QPSK	B	0087M	1:1	0.03	1860.00	26140	0.0	20.5	19.00	1	99	Left	5	0.165	1.413	0.233	0.146		26.8	
Body	LTE Band 25	20	QPSK	B	0087M	1:1	-0.10	1860.00	26140	0.0	20.5	19.00	50	0	Left	5	0.163	1.406	0.229	0.143		26.8	
Body worn/Body	LTE Band 25	20	QPSK	B	1512M	1:1	-0.01	1860.00	26140	0.0	20.5	19.00	1	99	Back	5	1.413	1.402	1.678	0.404		22.1	
Body worn/Body	LTE Band 25	20	QPSK	B	1512M	1:1	0.09	1860.00	26140	0.0	20.5	19.00	50	0	Back	5	0.455	1.406	0.640	0.403	Plot	22.1	
ANSI/IEEE C95.1 - 1992 - SAFETY LIMIT																	Body 1.5 W/kg (mW/g) averaged over 1 gram						
Uncontrolled Exposure/General Population																							

Table 12-57 | Ant H – Closed

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	LTE Band 25	20	QPSK	H	0085M	1:1	-0.04	1860.00	26140	0.0	22.0	20.40	1	0	Front	5	0.158	1.445	0.228	0.143		28.4	
Body	LTE Band 25	20	QPSK	H	0085M	1:1	-0.05	1860.00	26140	0.0	22.0	20.37	50	0	Front	5	0.164	1.455	0.239	0.149		28.2	
Body	LTE Band 25	20	QPSK	H	0085M	1:1	-0.05	1860.00	26140	0.0	22.0	20.40	1	0	Bottom	5	0.228	1.445	0.329	0.206		26.8	
Body	LTE Band 25	20	QPSK	H	0085M	1:1	-0.04	1860.00	26140	0.0	22.0	20.47	50	0	Bottom	5	0.243	1.455	0.354	0.221		26.5	
Body	LTE Band 25	20	QPSK	H	0085M	1:1	0.06	1860.00	26140	0.0	22.0	20.46	1	0	Right	5	0.172	1.445	0.263	0.246		26.0	
Body	LTE Band 25	20	QPSK	H	0085M	1:1	0.00	1860.00	26140	0.0	22.0	20.37	50	0	Right	5	0.287	1.455	0.418	0.261		25.7	
Body-worn/Body	LTE Band 25	20	QPSK	H	0085M	1:1	-0.03	1860.00	26140	0.0	22.0	20.40	1	0	Back	5	0.059	1.445	0.085	0.053		32.6	
Body-worn/Body	LTE Band 25	20	QPSK	H	0085M	1:1	0.08	1860.00	26140	0.0	22.0	20.37	50	0	Back	5	0.060	1.455	0.087	0.054		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						

12.11 LTE Band 41 Standalone SAR

Table 12-58 | Ant B – Open

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	0085M	1:1.58	0.13	2636.50	41055	0.0	24.5	24.04	1	0	Right Cheek	0	0.007	1.112	0.008	0.005		43.6	
Head	LTE Band 41	20	QPSK	B	0085M	1:1.58	-0.11	2636.50	41055	1.0	23.5	22.57	50	0	Right Cheek	0	0.011	1.130	0.012	0.008		40.5	
Head	LTE Band 41	20	QPSK	B	0085M	1:1.58	-0.01	2636.50	41055	0.0	24.5	24.04	1	0	Right Tit	0	0.002	1.112	0.002	0.001		49.0	
Head	LTE Band 41	20	QPSK	B	0085M	1:1.58	-0.03	2636.50	41055	1.0	23.5	22.97	50	0	Right Tit	0	0.005	1.130	0.006	0.004		43.9	
Head	LTE Band 41	20	QPSK	B	0085M	1:1.58	-0.15	2636.50	41055	0.0	24.5	24.04	1	0	Left Cheek	0	0.018	1.112	0.020	0.013		39.5	
Head	LTE Band 41	20	QPSK	B	0085M	1:2.31	0.01	2636.50	41055	0.0	26.1	25.16	1	0	Left Cheek	0	0.036	1.242	0.020	0.023		39.4	
Head	LTE Band 41	20	QPSK	B	0085M	1:1.58	-0.04	2636.50	41055	1.0	23.5	22.57	50	0	Left Cheek	0	0.025	1.130	0.017	0.021		39.2	
Head	LTE Band 41	20	QPSK	B	0085M	1:1.58	-0.11	2636.50	41055	0.0	24.5	24.04	1	0	Left Tit	0	0.005	1.112	0.006	0.004		45.0	
Head	LTE Band 41	20	QPSK	B	0085M	1:1.58	0.21	2636.50	41055	1.0	23.5	22.57	50	0	Left Tit	0	0.004	1.130	0.005	0.003		44.9	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Head 1.6 W/kg (mW/g) averaged over 1 gram						

Note: Green entry represents HPUE measurement

Table 12-59 | Ant H – Open | Plot A26

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Limit [dBm]	Overall Limit [dBm]
Head	LTE Band 41	20	QPSK	H	0085M	1:1.58	0.05	2636.50	41055	0.0	19.5	18.24	1	99	Right Cheek	0	0.111	1.317	0.148	0.093		25.8	
Head	LTE Band 41	20	QPSK	H	0085M	1:1.58	0.14	2636.50	41055	0.0	19.5	18.20	50	50	Right Cheek	0	0.115	1.349	0.155	0.097		25.4	
Head	LTE Band 41	20	QPSK	H	0085M	1:1.58	0.16	2636.50	41055	0.0	19.5	18.24	1	99	Right Tit	0	0.054	1.317	0.072	0.045		28.9	
Head	LTE Band 41	20	QPSK	H	0085M	1:1.58	0.10	2636.50	41055	0.0	19.5	18.20	50	50	Right Tit	0	0.057	1.349	0.077	0.048		28.6	
Head	LTE Band 41	20	QPSK	H	0085M	1:1.58	0.08	2636.50	41055	0.0	19.5	18.24	1	99	Left Cheek	0	0.192	1.117	0.190	0.144		21.4	
Head	LTE Band 41	20	QPSK	H	0085M	1:1.58	0.01	2636.50	41055	0.0	19.5	18.20	50	50	Left Cheek	0	0.302	1.349	0.407	0.254		21.4	
Head	LTE Band 41	20	QPSK	H	0085M	1:2.31	-0.07	2636.50	41055	0.0	21.1	19.73	50	50	Left Cheek	0	0.317	1.371	0.435	0.272	Plot	21.0	
Head	LTE Band 41	20	QPSK	H	0085M	1:1.58	0.12	2636.50	41055	0.0	19.5	18.24	1	99	Left Tit	0	0.166	1.357	0.222	0.139		24.0	
Head	LTE Band 41	20	QPSK	H	0085M	1:1.58	0.11	2636.50	41055	0.0	19.5	18.20	50	50	Left Tit	0	0.174	1.349	0.235	0.147		23.8	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Head 1.6 W/kg (mW/g) averaged over 1 gram						

Note: Green entry represents HPUE measurement

Table 12-60 | Ant B – Open

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	LTE Band 41	20	QPSK	B	0085M	1:1.58	0.01	2636.50	41055	0.0	20.5	20.02	1	0	Front	5	0.235	1.117	0.262	0.164		24.3	
Body	LTE Band 41	20	QPSK	B	0085M	1:1.58	0.03	2636.50	41055	0.0	20.5	19.98	50	0	Front	5	0.433	1.135	0.274	0.171		24.1	
Body	LTE Band 41	20	QPSK	B	0085M	1:1.58	0.02	2636.50	41055	0.0	20.5	20.02	1	0	Bottom	5	0.421	1.117	0.470	0.294		21.7	
Body	LTE Band 41	20	QPSK	B	0085M	1:1.58	0.02	2636.50	41055	0.0	20.5	19.98	50	0	Bottom	5	0.422	1.117	0.465	0.290		21.5	
Body	LTE Band 41	20	QPSK	B	0085M	1:2.31	-0.01	2636.50	41055	0.0	22.1	21.43	50	0	Bottom	5	0.377	1.172	0.442	0.276		22.6	
Body	LTE Band 41	20	QPSK	B	0085M	1:1.58	0.06	2636.50	41055	0.0	20.5	20.02	1	0	Left	5	0.137	1.117	0.153	0.096		26.6	
Body	LTE Band 41	20	QPSK	B	0085M	1:1.58	0.08	2636.50	41055	0.0	20.5	19.98	50	0	Left	5	0.117	1.175	0.137	0.086		27.1	
Body-worn/Body	LTE Band 41	20	QPSK	B	0085M	1:1.58	-0.05	2636.50	41055	0.0	20.5	20.02	1	0	Back	5	0.410	1.117	0.458	0.286		21.9	
Body-worn/Body	LTE Band 41	20	QPSK	B	0085M	1:1.58	0.07	2636.50	41055	0.0	20.5	19.98	50	0	Back	5	0.404	1.175	0.475	0.297		21.7	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Body 1.6 W/kg (mW/g) averaged over 1 gram						

Note: Green entry represents HPUE measurement

Table 12-61 | Ant H – Open

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	LTE Band 41	20	QPSK	H	0085M	1:1.58	-0.07	2549.50	40185	0.0	22.0	20.66	1	0	Front	5	0.174	1.365	0.374	0.234		24.2	
Body	LTE Band 41	20	QPSK	H	0085M	1:1.58	-0.02	2549.50	40185	0.0	22.0	20.50	50	0	Front	5	0.280	1.413	0.395	0.248		24.0	
Body	LTE Band 41	20	QPSK	H	0085M	1:1.58	0.10	2549.50	40185	0.0	22.0	20.65	1	0	Top	5	0.145	1.365	0.198	0.124		27.0	
Body	LTE Band 41	20	QPSK	H	0085M	1:1.58	0.03	2549.50	40185	0.0	22.0	20.50	50	0	Top	5	0.146	1.413	0.206	0.129		26.8	
Body	LTE Band 41	20	QPSK	H	0085M	1:1.58	0.00	2549.50	40185	0.0	22.0	20.65	1	0	Right	5	0.342	1.365	0.467	0.292		23.3	
Body	LTE Band 41	20	QPSK	H	0085M	1:1.58	0.02	2549.50	40185	0.0	22.0	20.50	50	0	Right	5	0.338	1.413	0.478	0.299		23.2	
Body	LTE Band 41	20	QPSK	H	0085M	1:2.31	0.05	2549.50	40185	0.0	23.6	22.33	50	0	Right	5	0.335	1.340	0.445	0.281		23.4	
Body-worn/Body	LTE Band 41	20	QPSK	H	0085M	1:1.58	-0.12	2549.50	40185	0.0	22.0	20.65	1	0	Back	5	0.252	1.365	0.344	0.215		24.6	
Body-worn/Body	LTE Band 41	20	QPSK	H	0085M	1:1.58	-0.01	2549.50	40185	0.0	22.0	20.50	50	0	Back	5	0.242	1.413	0.342	0.214		24.6	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Body 1.6 W/kg (mW/g) averaged over 1 gram						

Note: Green entry represents HPUE measurement

FCC ID: A3LSMF776B	RF EXPOSURE PART 1 TEST REPORT				Approved by: Technical Manager
Document S/N: 1M2603110020-01.A3L (Rev1)	DUT Type: Portable Handset	This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.			 Page 133 of 171

Table 12-62 | Ant B – Closed | Plot A28, A27

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	LTE Band 41	20	QPSK	B	0085M	1:1.58	0.02	2636.50	41055	0.0	22.5	22.00	1	0	Front	5	0.028	1.122	0.031	0.019		35.5	
Body	LTE Band 41	20	QPSK	B	0085M	1:1.58	0.02	2636.50	41055	0.0	22.5	21.99	50	0	Front	5	0.027	1.140	0.031	0.019		35.6	
Body	LTE Band 41	20	QPSK	B	0085M	1:1.58	0.05	2636.50	41055	0.0	22.5	21.92	100	0	Front	5	0.026	1.143	0.030	0.019		35.7	
Body	LTE Band 41	20	QPSK	B	0085M	1:1.58	-0.03	2506.00	39750	0.0	22.5	21.85	1	0	Bottom	5	0.753	1.161	0.874	0.546	Plot	21.0	
Body	LTE Band 41	20	QPSK	B	1521M	1:2.31	-0.05	2506.00	39750	0.0	24.1	23.42	1	0	Bottom	5	0.726	1.169	0.860	0.538		21.1	
Body	LTE Band 41	20	QPSK	B	0085M	1:1.58	0.00	2549.50	40185	0.0	22.5	21.53	1	0	Bottom	5	0.647	1.250	0.809	0.506		21.4	
Body	LTE Band 41	20	QPSK	B	0085M	1:1.58	-0.18	2593.00	40620	0.0	22.5	21.46	1	99	Bottom	5	0.581	1.271	0.484	0.303		23.6	
Body	LTE Band 41	20	QPSK	B	0085M	1:1.58	-0.02	2636.50	41055	0.0	22.5	22.00	1	0	Bottom	5	0.544	1.122	0.030	0.011		22.6	
Body	LTE Band 41	20	QPSK	B	0085M	1:1.58	0.06	2680.00	41490	0.0	22.5	21.56	1	0	Bottom	5	0.441	1.242	0.548	0.343		23.1	
Body	LTE Band 41	20	QPSK	B	0085M	1:1.58	-0.07	2636.50	41055	0.0	22.5	21.93	50	0	Bottom	5	0.521	1.140	0.594	0.371		22.7	
Body	LTE Band 41	20	QPSK	B	0085M	1:1.58	-0.11	2636.50	41055	0.0	22.5	21.82	100	0	Bottom	5	0.496	1.143	0.567	0.354		22.9	
Body	LTE Band 41	20	QPSK	B	0085M	1:1.58	-0.13	2636.50	41055	0.0	22.5	22.00	1	0	Left	5	0.230	1.122	0.247	0.154		26.5	
Body	LTE Band 41	20	QPSK	B	0085M	1:1.58	-0.05	2636.50	41055	0.0	22.5	21.93	50	0	Left	5	0.222	1.140	0.253	0.158		26.4	
Body-worn/Body	LTE Band 41	20	QPSK	B	0085M	1:1.58	-0.09	2636.50	41055	0.0	22.5	22.00	1	0	Back	5	0.440	1.122	0.484	0.309	Plot	23.5	
Body-worn/Body	LTE Band 41	20	QPSK	B	0085M	1:1.58	0.07	2636.50	41055	0.0	22.5	21.93	50	0	Back	5	0.433	1.140	0.484	0.309		23.5	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																	Body						
Spatial Peak																	1.6 W/kg (mW/g)						
Uncontrolled Exposure/General Population																	averaged over 1 gram						

Notes: Green cells only represent SAR if measurement

Note: Green entry represents HPUE measurement

Table 12-63 | Ant H – Closed

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	LTE Band 41	20	QPSK	H	0085M	1:1.58	-0.05	2549.50	40185	0.0	22.0	20.65	1	0	Front	5	0.239	1.365	0.326	0.204		24.8	
Body	LTE Band 41	20	QPSK	H	0085M	1:1.58	-0.01	2549.50	40185	0.0	22.0	20.50	50	0	Front	5	0.240	1.413	0.339	0.212		24.7	
Body	LTE Band 41	20	QPSK	H	0085M	1:1.58	0.00	2549.50	40185	0.0	22.0	20.65	1	0	Bottom	5	0.239	1.365	0.313	0.196		25.0	
Body	LTE Band 41	20	QPSK	H	0085M	1:1.58	-0.02	2549.50	40185	0.0	22.0	20.50	50	0	Bottom	5	0.238	1.413	0.320	0.201		24.9	
Body	LTE Band 41	20	QPSK	H	0085M	1:1.58	-0.05	2549.50	40185	0.0	22.0	20.65	1	0	Right	5	0.340	1.365	0.464	0.290		23.3	23.2
Body	LTE Band 41	20	QPSK	H	0085M	1:1.58	-0.03	2549.50	40185	0.0	22.0	20.50	50	0	Right	5	0.335	1.413	0.473	0.296		23.2	
Body	LTE Band 41	20	QPSK	H	0085M	1:1.58	-0.01	2549.50	40185	0.0	22.0	20.50	50	0	Right	5	0.333	1.365	0.435	0.271		23.4	
Body-worn/Body	LTE Band 41	20	QPSK	H	0085M	1:1.58	-0.16	2549.50	40185	0.0	22.0	20.65	1	0	Back	5	0.092	1.365	0.126	0.079		29.0	
Body-worn/Body	LTE Band 41	20	QPSK	H	0085M	1:1.58	0.05	2549.50	40185	0.0	22.0	20.50	50	0	Back	5	0.092	1.413	0.130	0.081		28.8	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Body 1.6 W/kg (mW/g) averaged over 1 gram						

Note: Green entry represents HPUE measurement

12.12 NR Band n71 Standalone SAR

Table 12-64 | Ant A – Open

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 #	Plim [dBm]	Overall Plim [dBm]
Head	NR Band n71	20	QPSK	A	1522M	1:1	-0.13	680.50	136100	DFT-s-OFDM	0.0	25.0	23.86	1	104	Right Cheek	0	0.112	1.300	0.172	0.108		32.6	
Head	NR Band n71	20	QPSK	A	1522M	1:1	-0.01	680.50	136100	DFT-s-OFDM	0.0	25.0	23.79	50	28	Right Cheek	0	0.096	1.321	0.127	0.079		33.8	
Head	NR Band n71	20	QPSK	A	1522M	1:1	0.01	680.50	136100	CP-OFDM	1.5	23.5	22.34	1	1	Right Cheek	0	0.064	1.306	0.084	0.053		34.2	
Head	NR Band n71	20	QPSK	A	1522M	1:1	0.07	680.50	136100	DFT-s-OFDM	0.0	25.0	23.86	1	104	Right Tilt	0	0.060	1.300	0.078	0.049		36.0	
Head	NR Band n71	20	QPSK	A	1522M	1:1	-0.08	680.50	136100	DFT-s-OFDM	0.0	25.0	23.79	50	28	Right Tilt	0	0.047	1.321	0.062	0.038		37.0	
Head	NR Band n71	20	QPSK	A	1522M	1:1	0.03	680.50	136100	DFT-s-OFDM	0.0	25.0	23.86	1	104	Left Cheek	0	0.093	1.300	0.121	0.076		34.1	
Head	NR Band n71	20	QPSK	A	1522M	1:1	-0.03	680.50	136100	DFT-s-OFDM	0.0	25.0	23.79	50	28	Left Cheek	0	0.067	1.321	0.089	0.056		35.5	
Head	NR Band n71	20	QPSK	A	1522M	1:1	-0.13	680.50	136100	DFT-s-OFDM	0.0	25.0	23.86	1	104	Left Tilt	0	0.048	1.300	0.062	0.038		37.0	
Head	NR Band n71	20	QPSK	A	1522M	1:1	0.02	680.50	136100	CP-OFDM	0.0	25.0	23.79	50	28	Left Tilt	0	0.035	1.321	0.046	0.029		38.3	
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 12-65 | Ant E – Open | Plot A29

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 n71	20	QPSK	E	1522M	1:1	0.00	680.50	136100	DFT-s-OFDM	0.0	23.0	21.99	1	53	Right Cheek	0	0.507	1.262	0.640	0.400		24.9	
Head	NR Band n71	20	QPSK	E	1522M	1:1	-0.03	680.50	136100	DFT-s-OFDM	0.0	23.0	21.98	50	28	Right Cheek	0	0.521	1.265	0.659	0.412	Plot	24.8	
Head	NR Band n71	20	QPSK	E	1522M	1:1	-0.03	680.50	136100	CP-OFDM	0.0	23.0	21.83	1	1	Right Cheek	0	0.353	1.309	0.462	0.289		26.3	
Head	NR Band n71	20	QPSK	E	1522M	1:1	0.02	680.50	136100	DFT-s-OFDM	0.0	23.0	21.99	1	53	Right Tilt	0	0.168	1.262	0.212	0.133		29.7	
Head	NR Band n71	20	QPSK	E	1522M	1:1	-0.03	680.50	136100	DFT-s-OFDM	0.0	23.0	21.98	50	28	Right Tilt	0	0.166	1.265	0.210	0.131		29.7	
Head	NR Band n71	20	QPSK	E	1522M	1:1	-0.04	680.50	136100	DFT-s-OFDM	0.0	23.0	21.99	1	53	Left Cheek	0	0.202	1.262	0.235	0.159		28.9	
Head	NR Band n71	20	QPSK	E	1522M	1:1	0.00	680.50	136100	DFT-s-OFDM	0.0	23.0	21.98	50	28	Left Cheek	0	0.198	1.265	0.230	0.156		29.0	
Head	NR Band n71	20	QPSK	E	1522M	1:1	-0.03	680.50	136100	DFT-s-OFDM	0.0	23.0	21.99	1	53	Left Tilt	0	0.092	1.262	0.116	0.073		32.3	
Head	NR Band n71	20	QPSK	E	1522M	1:1	0.00	680.50	136100	DFT-s-OFDM	0.0	23.0	21.98	50	28	Left Tilt	0	0.089	1.265	0.113	0.071		32.4	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	Head 1.6 W/kg (mW/g) averaged over 1 gram							

Table 12-66 | Ant A – Open | Plot A30

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 #	Plim [dBm]	Overall Plim [dBm]
Body	NR Band n71	20	QPSK	A	1522M	1:1	0.02	680.50	136100	DFT-s-OFDM	0.0	25.0	23.86	1	104	Front	5	0.312	1.300	0.406	0.254		28.9	
Body	NR Band n71	20	QPSK	A	1522M	1:1	-0.04	680.50	136100	DFT-s-OFDM	0.0	25.0	23.79	50	28	Front	5	0.245	1.321	0.324	0.203		29.8	
Body	NR Band n71	20	QPSK	A	1522M	1:1	-0.08	680.50	136100	DFT-s-OFDM	0.0	25.0	23.86	1	104	Bottom	5	0.332	1.300	0.432	0.270		28.6	
Body	NR Band n71	20	QPSK	A	1522M	1:1	0.03	680.50	136100	DFT-s-OFDM	0.0	25.0	23.79	50	28	Bottom	5	0.263	1.321	0.347	0.217		29.5	
Body	NR Band n71	20	QPSK	A	1522M	1:1	0.04	680.50	136100	DFT-s-OFDM	0.0	25.0	23.86	1	104	Right	5	0.322	1.300	0.419	0.262		28.7	
Body/worn/Body	NR Band n71	20	QPSK	A	1522M	1:1	-0.02	680.50	136100	DFT-s-OFDM	0.0	25.0	23.86	1	104	Back	5	0.269	1.300	0.370	0.230		29.0	
Body/worn/Body	NR Band n71	20	QPSK	A	1522M	1:1	-0.01	680.50	136100	DFT-s-OFDM	0.0	25.0	23.86	1	104	Back	5	0.576	0.989	0.709	0.488		Plot	
Body/worn/Body	NR Band n71	20	QPSK	A	1522M	1:1	0.03	680.50	136100	DFT-s-OFDM	0.0	25.0	23.79	50	28	Back	5	0.467	1.321	0.617	0.386		27.0	
Body/worn/Body	NR Band n71	20	QPSK	A	1522M	1:1	0.02	680.50	136100	CP-OFDM	2.5	23.5	22.34	1	1	Back	5	0.213	1.306	0.383	0.227		27.8	
Analog Cyclic 1.1992 - SAFETY Limit																								
Spatial Peak																								
1.6 W/kg (mW/g) averaged over 10 cm																								
Unintentional Emission/General Population																								



Table 12-67 | Ant E – Open | Plot A31

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimt [dBm]	Overall Plimt [dBm]
Body	NR Band n73	20	QPSK	E	0066M	1:1	0.02	680.50	136100	DFT-s-OFDM	0.0	24.0	22.71	1	53	Front	5	0.513	1.346	0.690	0.431		25.6	
Body	NR Band n73	20	QPSK	E	0066M	1:1	0.04	680.50	136100	DFT-s-OFDM	0.0	24.0	22.75	50	28	Front	5	0.504	1.334	0.672	0.420		25.7	
Body	NR Band n73	20	QPSK	E	0066M	1:1	-0.03	680.50	136100	DFT-s-OFDM	0.0	24.0	22.71	1	53	Top	5	0.500	1.346	0.667	0.042		35.7	
Body	NR Band n73	20	QPSK	E	0066M	1:1	0.08	680.50	136100	DFT-s-OFDM	0.0	24.0	22.75	50	28	Top	5	0.511	1.334	0.668	0.043		35.6	
Body	NR Band n73	20	QPSK	E	0066M	1:1	0.02	680.50	136100	DFT-s-OFDM	0.0	24.0	22.71	1	53	Left	5	0.774	1.346	1.042	0.651	Plot	23.8	23.8
Body	NR Band n73	20	QPSK	E	0066M	1:1	-0.03	680.50	136100	DFT-s-OFDM	0.0	24.0	22.75	50	28	Left	5	0.757	1.334	1.030	0.633		23.9	
Body	NR Band n73	20	QPSK	E	0066M	1:1	0.03	680.50	136100	DFT-s-OFDM	0.0	24.0	22.75	50	28	Left	5	0.762	1.346	1.039	0.649		24.0	
Body	NR Band n73	20	QPSK	E	0066M	1:1	-0.07	680.50	136100	CP-OFDM	0.0	24.0	22.58	1	1	Left	5	0.522	1.384	0.722	0.451		25.4	
Body worn/Body	NR Band n73	20	QPSK	E	0066M	1:1	-0.06	680.50	136100	DFT-s-OFDM	0.0	24.0	22.71	1	53	Back	5	0.502	1.346	0.676	0.423		25.7	
Body worn/Body	NR Band n73	20	QPSK	E	0066M	1:1	0.03	680.50	136100	DFT-s-OFDM	0.0	24.0	22.75	50	28	Back	5	0.484	1.334	0.646	0.404		25.8	
ANSI/IEEE C63.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		Body 1.6 W/kg (mW/g) averaged over 1 gram						

Table 12-68 | Ant A – Closed

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimt [dBm]	Overall Plimt [dBm]
Body	NR Band n73	20	QPSK	A	1522M	1:1	-0.16	680.50	136100	DFT-s-OFDM	0.0	25.0	23.86	1	104	Front	5	0.059	1.300	0.077	0.048		36.1	
Body	NR Band n73	20	QPSK	A	1522M	1:1	0.18	680.50	136100	DFT-s-OFDM	0.0	25.0	23.79	50	28	Front	5	0.046	1.321	0.061	0.038		37.1	
Body	NR Band n73	20	QPSK	A	1522M	1:1	0.01	680.50	136100	DFT-s-OFDM	0.0	25.0	23.86	1	104	Bottom	5	0.310	1.300	0.403	0.252		28.9	
Body	NR Band n73	20	QPSK	A	1522M	1:1	-0.02	680.50	136100	DFT-s-OFDM	0.0	25.0	23.79	50	28	Bottom	5	0.311	1.321	0.312	0.208		29.7	
Body	NR Band n73	20	QPSK	A	1522M	1:1	0.02	680.50	136100	DFT-s-OFDM	0.0	25.0	23.86	1	104	Right	5	0.225	1.300	0.293	0.181		30.3	26.5
Body	NR Band n73	20	QPSK	A	1522M	1:1	-0.03	680.50	136100	DFT-s-OFDM	0.0	25.0	23.79	50	28	Right	5	0.171	1.321	0.226	0.141		31.4	
Body worn/Body	NR Band n73	20	QPSK	A	1522M	1:1	0.04	680.50	136100	DFT-s-OFDM	0.0	25.0	23.86	1	104	Back	5	0.241	1.300	0.303	0.149		26.5	
Body worn/Body	NR Band n73	20	QPSK	A	1522M	1:1	0.00	680.50	136100	DFT-s-OFDM	0.0	25.0	23.79	50	28	Back	5	0.454	1.321	0.600	0.375		27.2	
Body worn/Body	NR Band n73	20	QPSK	A	1522M	1:1	0.00	680.50	136100	CP-OFDM	1.5	23.5	22.94	1	1	Back	5	0.380	1.306	0.340	0.213		28.1	
ANSI/IEEE C63.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		Body 1.6 W/kg (mW/g) averaged over 1 gram						

Table 12-69 | Ant E – Closed

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimt [dBm]	Overall Plimt [dBm]
Body	NR Band n73	20	QPSK	E	0066M	1:1	0.03	680.50	136100	DFT-s-OFDM	0.0	24.0	22.71	1	53	Front	5	0.302	1.346	0.406	0.323		27.9	
Body	NR Band n73	20	QPSK	E	0066M	1:1	0.03	680.50	136100	DFT-s-OFDM	0.0	24.0	22.75	50	28	Front	5	0.299	1.334	0.399	0.317		27.5	
Body	NR Band n73	20	QPSK	E	0066M	1:1	0.07	680.50	136100	DFT-s-OFDM	0.0	24.0	22.71	1	53	Top	5	0.015	1.346	0.020	0.016		40.9	
Body	NR Band n73	20	QPSK	E	0066M	1:1	-0.20	680.50	136100	DFT-s-OFDM	0.0	24.0	22.75	50	28	Top	5	0.014	1.334	0.019	0.015		41.2	
Body	NR Band n73	20	QPSK	E	0066M	1:1	0.09	680.50	136100	DFT-s-OFDM	0.0	24.0	22.71	1	53	Bottom	5	0.028	1.346	0.028	0.020		38.2	27.5
Body	NR Band n73	20	QPSK	E	0066M	1:1	-0.07	680.50	136100	DFT-s-OFDM	0.0	24.0	22.75	50	28	Bottom	5	0.028	1.334	0.037	0.029		38.2	
Body	NR Band n73	20	QPSK	E	0066M	1:1	0.00	680.50	136100	DFT-s-OFDM	0.0	24.0	22.71	1	53	Left	5	0.331	1.346	0.446	0.354		27.5	
Body	NR Band n73	20	QPSK	E	0066M	1:1	0.00	680.50	136100	DFT-s-OFDM	0.0	24.0	22.75	50	28	Left	5	0.330	1.334	0.440	0.349		27.5	
Body	NR Band n73	20	QPSK	E	0066M	1:1	0.01	680.50	136100	CP-OFDM	0.0	24.0	22.58	1	1	Left	5	0.202	1.384	0.280	0.222		29.5	
Body worn/Body	NR Band n73	20	QPSK	E	0066M	1:1	-0.04	680.50	136100	DFT-s-OFDM	0.0	24.0	22.71	1	53	Back	5	0.095	1.346	0.128	0.101		32.9	
Body worn/Body	NR Band n73	20	QPSK	E	0066M	1:1	0.06	680.50	136100	DFT-s-OFDM	0.0	24.0	22.75	50	28	Back	5	0.081	1.334	0.124	0.099		33.0	
ANSI/IEEE C63.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		Body 1.6 W/kg (mW/g) averaged over 1 gram						

12.13 NR Band n5 Standalone SAR

Table 12-70 | Ant A – Open

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimt [dBm]	Overall Plimt [dBm]
Head	NR Band n5	20	QPSK	A	1522M	1:1	-0.09	836.50	167300	DFT-s-OFDM	0.0	25.0	23.48	1	104	Right Cheek	0	0.291	1.419	0.413	0.258		28.8	
Head	NR Band n5	20	QPSK	A	1522M	1:1	0.06	836.50	167300	DFT-s-OFDM	0.0	25.0	23.51	50	28	Right Cheek	0	0.285	1.476	0.401	0.261		28.7	
Head	NR Band n5	20	QPSK	A	1522M	1:1	-0.06	836.50	167300	CP-OFDM	1.0	24.0	22.06	1	1	Right Cheek	0	0.282	1.563	0.284	0.178		29.4	
Head	NR Band n5	20	QPSK	A	1522M	1:1	0.02	836.50	167300	DFT-s-OFDM	0.0	25.0	23.48	1	104	Right Tilt	0	0.108	1.419	0.153	0.096		33.3	
Head	NR Band n5	20	QPSK	A	1522M	1:1	0.00	836.50	167300	DFT-s-OFDM	0.0	25.0	23.51	50	28	Right Tilt	0	0.108	1.476	0.189	0.118		32.2	
Head	NR Band n5	20	QPSK	A	1522M	1:1	0.08	836.50	167300	DFT-s-OFDM	0.0	25.0	23.48	1	104	Left Cheek	0	0.175	1.419	0.248	0.155		31.0	
Head	NR Band n5	20	QPSK	A	1522M	1:1	-0.04	836.50	167300	DFT-s-OFDM	0.0	25.0	23.31	50	28	Left Cheek	0	0.174	1.476	0.257	0.161		30.9	
Head	NR Band n5	20	QPSK	A	1522M	1:1	0.03	836.50	167300	DFT-s-OFDM	0.0	25.0	23.48	1	104	Left Tilt	0	0.099	1.419	0.140	0.088		33.5	
Head	NR Band n5	20	QPSK	A	1522M	1:1	0.01	836.50	167300	DFT-s-OFDM	0.0	25.0	23.31	50	28	Left Tilt	0	0.102	1.476	0.151	0.094		33.2	
ANSI/IEEE C63.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		Head 1.6 W/kg (mW/g) averaged over 1 gram						

Table 12-71 | Ant E – Open | Plot A32

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimt [dBm]	Overall Plimt [dBm]		
Head	NR Band n5	20	QPSK	E	1522M	1:1	0.03	836.50	167300	DFT-s-OFDM	0.0	23.0	21.30	1	104	Right Cheek	0	0.663	1.479	0.981	0.613	Plot	23.0	23.0		
Head	NR Band n5	20	QPSK	E	1522M	1:1	0.01	836.50	167300	DFT-s-OFDM	0.0	23.0	21.33	50	0	Right Cheek	0	0.614	1.469	0.902	0.564		23.4			
Head	NR Band n5	20	QPSK	E	1522M	1:1	-0.02	836.50	167300	DFT-s-OFDM	0.0	23.0	21.29	100	0	Right Cheek	0	0.616	1.483	0.941	0.589		23.2			
Head	NR Band n5	20	QPSK	E	1522M	1:1	0.06	836.50	167300	CP-OFDM	0.0	23.0	21.35	1	1	Right Cheek	0	0.608	1.462	0.889	0.506		23.5			
Head	NR Band n5	20	QPSK	E	1522M	1:1	0.03	836.50	167300	DFT-s-OFDM	0.0	23.0	21.30	1	104	Right Tilt	0	0.192	1.479	0.284	0.178		28.4			
Head	NR Band n5	20	QPSK	E	1522M	1:1	0.00	836.50	167300	DFT-s-OFDM	0.0	23.0	21.31	50	0	Right Tilt	0	0.186	1.469	0.273	0.171		28.6			
Head	NR Band n5	20	QPSK	E	1522M	1:1	-0.04	836.50	167300	DFT-s-OFDM	0.0	23.0	21.30	1	104	Left Cheek	0	0.254	1.479	0.376	0.235		27.8			
Head	NR Band n5	20	QPSK	E	1522M	1:1	0.00	836.50	167300	DFT-s-OFDM	0.0	23.0	21.33	50	0	Left Cheek	0	0.242	1.469	0.344	0.215		27.6			
Head	NR Band n5	20	QPSK	E	1522M	1:1	0.02	836.50	167300	DFT-s-OFDM	0.0	23.0	21.30	1	104	Left Tilt	0	0.184	1.479	0.265	0.156		28.0			
Head	NR Band n5	20	QPSK	E	1522M	1:1	0.07	836.50	167300	DFT-s-OFDM	0.0	23.0	21.35	50	0	Left Tilt	0	0.202	1.469	0.150	0.094		31.2			
ANSI/IEEE C95.1-1992 - SAFETY LIMIT																			Head							
Spatial Peak																			1.6 W/kg (mW/g)							
Uncontrolled Exposure (General Population)																			Highest over time							



Table 12-72 | Ant A – Open

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	NR Band n5	20	QPSK	A	1522M	1:1	0.00	836.50	167300	DFT-s-OFDM	0.0	21.5	20.56	1	104	Front	5	0.551	1.242	0.684	0.428		23.1	
Body	NR Band n5	20	QPSK	A	1522M	1:1	0.01	836.50	167300	DFT-s-OFDM	0.0	21.5	20.49	50	56	Front	5	0.554	1.262	0.699	0.437		23.0	
Body	NR Band n5	20	QPSK	A	1522M	1:1	0.00	836.50	167300	DFT-s-OFDM	0.0	21.5	20.56	1	104	Bottom	5	0.653	1.242	0.811	0.507		22.4	
Body	NR Band n5	20	QPSK	A	1522M	1:1	0.04	836.50	167300	DFT-s-OFDM	0.0	21.5	20.49	50	56	Bottom	5	0.657	1.262	0.829	0.518		22.3	
Body	NR Band n5	20	QPSK	A	1522M	1:1	0.02	836.50	167300	DFT-s-OFDM	0.0	21.5	20.44	100	0	Bottom	5	0.670	1.276	0.855	0.534		22.2	
Body	NR Band n5	20	QPSK	A	1522M	1:1	0.01	836.50	167300	DFT-s-OFDM	0.0	21.5	20.56	1	104	Right	5	0.572	1.242	0.682	0.429		24.6	
Body	NR Band n5	20	QPSK	A	1522M	1:1	0.03	836.50	167300	DFT-s-OFDM	0.0	21.5	20.49	50	56	Right	5	0.580	1.262	0.692	0.398		24.5	
Body worn/Body	NR Band n5	20	QPSK	A	1522M	1:1	0.01	836.50	167300	DFT-s-OFDM	0.0	21.5	20.56	1	104	Back	5	0.671	1.242	1.082	0.676		21.2	
Body worn/Body	NR Band n5	20	QPSK	A	1522M	1:1	0.02	836.50	167300	DFT-s-OFDM	0.0	21.5	20.49	50	56	Back	5	0.670	1.262	1.098	0.686		21.0	
Body worn/Body	NR Band n5	20	QPSK	A	1522M	1:1	0.00	836.50	167300	DFT-s-OFDM	0.0	21.5	20.44	100	0	Back	5	0.666	1.276	1.105	0.691		21.0	
Body worn/Body	NR Band n5	20	QPSK	A	1522M	1:1	0.02	836.50	167300	CP-OFDM	0.0	21.5	20.59	1	1	Back	5	0.650	1.233	1.048	0.655		21.2	
ANSI/IEEE C63.1 1992 - SAFETY LIMIT Spatial Peak																		Body		1.6 W/kg (mW/g) averaged over 1 gram				
Uncontrolled Exposure/General Population																								

Table 12-73 | Ant E – Open

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	NR Band n5	20	QPSK	E	1522M	1:1	0.03	836.50	167300	DFT-s-OFDM	0.0	24.0	22.50	1	104	Front	5	0.509	1.413	0.719	0.449		25.4	
Body	NR Band n5	20	QPSK	E	1522M	1:1	0.00	836.50	167300	DFT-s-OFDM	0.0	24.0	22.52	50	0	Front	5	0.471	1.406	0.682	0.414		25.7	
Body	NR Band n5	20	QPSK	E	1522M	1:1	0.13	836.50	167300	DFT-s-OFDM	0.0	24.0	22.50	1	104	Top	5	0.603	1.413	0.675	0.047		25.1	
Body	NR Band n5	20	QPSK	E	1522M	1:1	0.08	836.50	167300	DFT-s-OFDM	0.0	24.0	22.52	50	0	Top	5	0.637	1.406	0.912	0.033		24.8	
Body	NR Band n5	20	QPSK	E	1423M	1:1	0.04	836.50	167300	DFT-s-OFDM	0.0	24.0	22.50	1	104	Left	5	0.653	1.413	0.933	0.577		24.3	
Body	NR Band n5	20	QPSK	E	1423M	1:1	0.04	836.50	167300	DFT-s-OFDM	0.0	24.0	22.52	50	0	Left	5	0.676	1.406	0.960	0.584		24.2	
Body	NR Band n5	20	QPSK	E	1423M	1:1	0.01	836.50	167300	DFT-s-OFDM	0.0	24.0	22.49	100	0	Left	5	0.675	1.416	0.956	0.598		24.1	
Body	NR Band n5	20	QPSK	E	1423M	1:1	0.01	836.50	167300	CP-OFDM	0.0	24.0	22.54	1	1	Left	5	0.669	1.400	0.957	0.596		24.2	
Body worn/Body	NR Band n5	20	QPSK	E	1522M	1:1	0.02	836.50	167300	DFT-s-OFDM	0.0	24.0	22.50	1	104	Back	5	0.537	1.413	0.709	0.474		25.3	
Body worn/Body	NR Band n5	20	QPSK	E	1522M	1:1	0.02	836.50	167300	DFT-s-OFDM	0.0	24.0	22.52	50	0	Back	5	0.503	1.406	0.707	0.442		25.5	
ANSI/IEEE C63.1 1992 - SAFETY LIMIT Spatial Peak																		Body		1.6 W/kg (mW/g) averaged over 1 gram				
Uncontrolled Exposure/General Population																								

Table 12-74 | Ant A – Closed | Plot A33

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n5	20	QPSK	A	1522M	1:1	0.03	836.50	167300	DFT-s-OFDM	0.0	22.5	21.79	1	104	Front	5	0.121	1.178	0.143	0.089		30.9	
Body	NR Band n5	20	QPSK	A	1522M	1:1	0.01	836.50	167300	DFT-s-OFDM	0.0	22.5	21.72	50	56	Front	5	0.117	1.197	0.140	0.085		31.0	
Body	NR Band n5	20	QPSK	A	1522M	1:1	0.05	836.50	167300	DFT-s-OFDM	0.0	22.5	21.79	1	104	Bottom	5	0.657	1.178	0.768	0.480		25.6	
Body	NR Band n5	20	QPSK	A	1522M	1:1	0.01	836.50	167300	DFT-s-OFDM	0.0	22.5	21.72	50	56	Bottom	5	0.648	1.197	0.776	0.485		23.6	
Body	NR Band n5	20	QPSK	A	1522M	1:1	0.15	836.50	167300	DFT-s-OFDM	0.0	22.5	21.79	1	104	Right	5	0.337	1.178	0.397	0.248		26.5	
Body	NR Band n5	20	QPSK	A	1522M	1:1	0.04	836.50	167300	DFT-s-OFDM	0.0	22.5	21.72	50	56	Right	5	0.386	1.197	0.342	0.214		27.1	
Body worn/Body	NR Band n5	20	QPSK	A	1522M	1:1	0.01	836.50	167300	DFT-s-OFDM	0.0	22.5	21.79	1	104	Back	5	0.966	1.178	1.138	0.711	Plot	21.9	
Body worn/Body	NR Band n5	20	QPSK	A	1522M	1:1	0.01	836.50	167300	DFT-s-OFDM	0.0	22.5	21.79	1	104	Back	5	0.955	1.178	1.137	0.711		21.9	
Body worn/Body	NR Band n5	20	QPSK	A	1522M	1:1	0.01	836.50	167300	DFT-s-OFDM	0.0	22.5	21.72	50	56	Back	5	0.955	1.197	1.149	0.714		21.9	
Body worn/Body	NR Band n5	20	QPSK	A	1522M	1:1	0.02	836.50	167300	DFT-s-OFDM	0.0	22.5	21.66	100	0	Back	5	0.962	1.213	1.187	0.729		21.8	
Body worn/Body	NR Band n5	20	QPSK	A	1522M	1:1	0.03	836.50	167300	CP-OFDM	0.0	22.5	21.66	1	1	Back	5	0.942	1.213	1.143	0.714		21.9	
ANSI/IEEE C63.1 1992 - SAFETY LIMIT Spatial Peak																		Body		1.6 W/kg (mW/g) averaged over 1 gram				
Uncontrolled Exposure/General Population																								

Note: Blue entry represents variability measurement

Table 12-75 | Ant E – Closed

posure	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	NR Band n5	20	QPSK	E	1522M	1:1	0.09	836.50	167300	DFT-s-OFDM	0.0	24.5	22.88	1	53	Front	5	0.466	1.452	0.677	0.421		26.1	
Body	NR Band n5	20	QPSK	E	1522M	1:1	0.03	836.50	167300	DFT-s-OFDM	0.0	24.5	22.82	50	56	Front	5	0.442	1.439	0.492	0.308		27.5	
Body	NR Band n5	20	QPSK	E	1522M	1:1	0.04	836.50	167300	DFT-s-OFDM	0.0	24.5	22.88	1	53	Top	5	0.629	1.452	0.642	0.026		38.2	
Body	NR Band n5	20	QPSK	E	1522M	1:1	0.07	836.50	167300	DFT-s-OFDM	0.0	24.5	22.82	50	56	Top	5	0.679	1.439	0.647	0.026		38.2	
Body	NR Band n5	20	QPSK	E	1522M	1:1	0.12	836.50	167300	DFT-s-OFDM	0.0	24.5	22.88	1	53	Bottom	5	0.637	1.452	0.654	0.034		37.1	
Body	NR Band n5	20	QPSK	E	1522M	1:1	0.03	836.50	167300	DFT-s-OFDM	0.0	24.5	22.82	50	56	Bottom	5	0.645	1.439	0.662	0.039		36.5	
Body	NR Band n5	20	QPSK	E	1522M	1:1	0.03	836.50	167300	DFT-s-OFDM	0.0	24.5	22.88	1	53	Left	5	0.471	1.452	0.684	0.428		26.1	
Body	NR Band n5	20	QPSK	E	1522M	1:1	0.03	836.50	167300	DFT-s-OFDM	0.0	24.5	22.82	50	56	Left	5	0.439	1.439	0.488	0.305		27.6	
Body	NR Band n5	20	QPSK	E	1522M	1:1	0.06	836.50	167300	CP-OFDM	0.0	24.5	22.95	1	1	Left	5	0.536	1.429	0.566	0.354		26.5	
Body worn/Body	NR Band n5	20	QPSK	E	1522M	1:1	0.04	836.50	167300	DFT-s-OFDM	0.0	24.5	22.88	1	53	Back	5	0.344	1.452	0.209	0.131		31.2	
Body worn/Body	NR Band n5	20	QPSK	E	1522M	1:1	0.03	836.50	167300	DFT-s-OFDM	0.0	24.5	22.82	50	56	Back	5	0.306	1.439	0.153	0.096		32.6	
ANSI/IEEE C63.1 1992 - SAFETY LIMIT Spatial Peak																		Body		1.6 W/kg (mW/g) averaged over 1 gram				
Uncontrolled Exposure/General Population																								

12.14 NR Band n66 Standalone SAR

Table 12-76 | Ant B – Open

sure	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]
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Table 12-77 | Ant H – Open | Plot A34

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	PLimit [dBm]	Overall PLimit [dBm]
Head	NR Band n66	40	QPSK	H	1521M	1:1	0.08	1745.00	349000	DFT-s-OFDM	0.0	20.5	18.78	1	1	Right Cheek	0	0.138	1.486	0.205	0.128		27.5	
Head	NR Band n66	40	QPSK	H	087M2	1:1	0.00	1745.00	349000	DFT-s-OFDM	0.0	20.5	18.62	108	0	Right Cheek	0	0.113	1.542	0.174	0.109		28.0	
Head	NR Band n66	40	QPSK	H	1521M	1:1	0.03	1745.00	349000	DFT-s-OFDM	0.0	20.5	18.78	1	1	Right Tib	0	0.093	1.486	0.138	0.086		29.0	
Head	NR Band n66	40	QPSK	H	087M2	1:1	0.00	1745.00	349000	DFT-s-OFDM	0.0	20.5	18.62	108	0	Right Tib	0	0.080	1.542	0.113	0.077		29.5	
Head	NR Band n66	40	QPSK	H	1521M	1:1	0.10	1745.00	349000	DFT-s-OFDM	0.0	20.5	18.78	1	1	Left Cheek	0	0.568	1.486	0.844	0.528		21.2	
Head	NR Band n66	40	QPSK	H	1521M	1:1	0.08	1745.00	349000	DFT-s-OFDM	0.0	20.5	18.62	108	0	Left Cheek	0	0.592	1.542	0.913	0.571	Plot	20.8	
Head	NR Band n66	40	QPSK	H	1521M	1:1	0.13	1745.00	349000	DFT-s-OFDM	0.0	20.5	18.95	1	1	Left Cheek	0	0.553	1.587	0.867	0.542		21.1	
Head	NR Band n66	40	QPSK	H	1521M	1:1	0.04	1745.00	349000	CP-OFDM	0.0	20.5	18.74	1	1	Left Cheek	0	0.544	1.500	0.816	0.510		21.3	
Head	NR Band n66	40	QPSK	H	1521M	1:1	0.03	1745.00	349000	DFT-s-OFDM	0.0	20.5	18.78	1	1	Left Tib	0	0.457	1.486	0.679	0.424		22.1	
Head	NR Band n66	40	QPSK	H	087M2	1:1	0.00	1745.00	349000	DFT-s-OFDM	0.0	20.5	18.62	108	0	Left Tib	0	0.469	1.542	0.708	0.443		22.0	
ANSI/IEEE C63.1-1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		Head 1.6 W/kg (mW/g) averaged over 1 gram						

Table 12-78 | Ant B – Open | Plot A36

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	PLimit [dBm]	Overall PLimit [dBm]
Body	NR Band n66	40	QPSK	B	1520M	1:1	0.02	1745.00	349000	DFT-s-OFDM	0.0	20.0	18.58	1	214	Front	5	0.282	1.387	0.391	0.244		24.0	
Body	NR Band n66	40	QPSK	B	1520M	1:1	0.07	1745.00	349000	DFT-s-OFDM	0.0	20.0	18.58	108	54	Front	5	0.276	1.384	0.382	0.239		24.1	
Body	NR Band n66	40	QPSK	B	1520M	1:1	0.03	1745.00	349000	DFT-s-OFDM	0.0	20.0	18.58	1	214	Bottom	5	0.444	1.387	0.893	0.558	Plot	20.4	
Body	NR Band n66	40	QPSK	B	1520M	1:1	0.03	1745.00	349000	DFT-s-OFDM	0.0	20.0	18.58	108	54	Bottom	5	0.430	1.384	0.858	0.536		20.6	
Body	NR Band n66	40	QPSK	B	1520M	1:1	0.00	1745.00	349000	DFT-s-OFDM	0.0	20.0	18.57	216	0	Bottom	5	0.623	1.390	0.866	0.541		20.6	
Body	NR Band n66	40	QPSK	B	1520M	1:1	0.03	1745.00	349000	CP-OFDM	0.0	20.0	18.50	1	1	Left	5	0.616	1.413	0.870	0.544		20.6	
Body	NR Band n66	40	QPSK	B	1520M	1:1	0.08	1745.00	349000	DFT-s-OFDM	0.0	20.0	18.58	1	214	Left	5	0.272	1.387	0.377	0.238		24.7	
Body	NR Band n66	40	QPSK	B	1520M	1:1	0.12	1745.00	349000	DFT-s-OFDM	0.0	20.0	18.58	108	54	Left	5	0.271	1.384	0.375	0.234		24.2	
Body worn/Body	NR Band n66	40	QPSK	B	1520M	1:1	0.03	1745.00	349000	DFT-s-OFDM	0.0	20.0	18.58	1	214	Back	5	0.438	1.387	0.808	0.385		22.1	
Body worn/Body	NR Band n66	40	QPSK	B	1520M	1:1	0.08	1745.00	349000	DFT-s-OFDM	0.0	20.0	18.59	108	54	Back	5	0.442	1.384	0.812	0.383		22.1	
Body worn/Body	NR Band n66	40	QPSK	B	1520M	1:1	0.09	1745.00	349000	DFT-s-OFDM	0.0	20.0	18.57	216	0	Back	5	0.445	1.390	0.819	0.387		22.0	
ANSI/IEEE C63.1-1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		Body 1.6 W/kg (mW/g) averaged over 1 gram						

Table 12-79 | Ant H – Open | Plot A35

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	PLimit [dBm]	Overall PLimit [dBm]
Body	NR Band n66	40	QPSK	H	0087M	1:1	0.03	1745.00	349000	DFT-s-OFDM	0.0	22.5	20.71	1	1	Front	5	0.491	1.510	0.741	0.463		23.7	
Body	NR Band n66	40	QPSK	H	0087M	1:1	0.04	1745.00	349000	DFT-s-OFDM	0.0	22.5	20.65	108	0	Front	5	0.469	1.531	0.718	0.449		23.9	
Body	NR Band n66	40	QPSK	H	0087M	1:1	0.03	1745.00	349000	CP-OFDM	0.0	22.5	20.65	1	1	Front	5	0.504	1.545	0.778	0.487		23.5	
Body	NR Band n66	40	QPSK	H	0087M	1:1	0.08	1745.00	349000	DFT-s-OFDM	0.0	22.5	20.71	1	1	Top	5	0.580	1.510	0.924	0.559		24.9	
Body	NR Band n66	40	QPSK	H	0087M	1:1	0.03	1745.00	349000	DFT-s-OFDM	0.0	22.5	20.65	108	0	Top	5	0.532	1.531	0.839	0.537		25.1	
Body	NR Band n66	40	QPSK	H	0087M	1:1	0.06	1745.00	349000	DFT-s-OFDM	0.0	22.5	20.71	1	1	Right	5	0.484	1.510	0.731	0.457		23.8	
Body	NR Band n66	40	QPSK	H	0087M	1:1	0.11	1745.00	349000	DFT-s-OFDM	0.0	22.5	20.65	108	0	Right	5	0.468	1.531	0.717	0.448		25.0	
Body worn/Body	NR Band n66	40	QPSK	H	0087M	1:1	0.00	1745.00	349000	DFT-s-OFDM	0.0	22.5	20.71	1	1	Back	5	0.475	1.510	0.717	0.448	Plot	23.9	
Body worn/Body	NR Band n66	40	QPSK	H	0087M	1:1	0.02	1745.00	349000	DFT-s-OFDM	0.0	22.5	20.65	108	0	Back	5	0.442	1.510	0.682	0.433		24.0	
ANSI/IEEE C63.1-1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		Body 1.6 W/kg (mW/g) averaged over 1 gram						

Table 12-80 | Ant B – Closed

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	NR Band n66	40	QPSK	B	1520M	1:1	0.02	1745.00	349000	DFT-s-OFDM	0.0	21.0	19.21	1	108	Front	5	0.072	1.510	0.109	0.068		30.6	
Body	NR Band n66	40	QPSK	B	1520M	1:1	0.04	1745.00	349000	DFT-s-OFDM	0.0	21.0	19.16	108	54	Front	5	0.070	1.528	0.107	0.067		30.7	
Body	NR Band n66	40	QPSK	B	1520M	1:1	0.03	1745.00	349000	DFT-s-OFDM	0.0	21.0	19.21	1	108	Bottom	5	0.155	1.510	0.208	0.105		21.9	
Body	NR Band n66	40	QPSK	B	1520M	1:1	0.03	1745.00	349000	DFT-s-OFDM	0.0	21.0	19.16	108	54	Bottom	5	0.143	1.528	0.200	0.103		21.8	
Body	NR Band n66	40	QPSK	B	1520M	1:1	0.01	1745.00	349000	DFT-s-OFDM	0.0	21.0	19.12	216	0	Bottom	5	0.542	1.542	0.836	0.523		21.7	
Body	NR Band n66	40	QPSK	B	1520M	1:1	0.07	1745.00	349000	CP-OFDM	0.0	21.0	19.07	1	1	Bottom	5	0.544	1.560	0.849	0.531		21.7	
Body	NR Band n66	40	QPSK	B	1520M	1:1	0.13	1745.00	349000	DFT-s-OFDM	0.0	21.0	19.21	1	108	Left	5	0.104	1.510	0.137	0.088		29.0	
Body	NR Band n66	40	QPSK	B	1520M	1:1	0.10	1745.00	349000	DFT-s-OFDM	0.0	21.0	19.16	108	54	Left	5	0.102	1.528	0.136	0.088		29.0	
Body worn/Body	NR Band n66	40	QPSK	B	1520M	1:1	0.04	1745.00	349000	DFT-s-OFDM	0.0	21.0	19.21	1	108	Back	5	0.280	1.510	0.423	0.264		24.7	
Body worn/Body	NR Band n66	40	QPSK	B	1520M	1:1	0.02	1745.00	349000	DFT-s-OFDM	0.0	21.0	19.16	108	54	Back	5	0.281	1.528	0.429	0.268		24.6	
ANSI/IEEE C63.1-1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		Body 1.6 W/kg (mW/g) averaged over 1 gram						

Table 12-81 | Ant H – Closed

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	NR Band n66	40	QPSK	H	0079M	1:1	0.04	1745.00	349000	DFT-s-OFDM	0.0	23.0	21.30	1	1	Front	5	0.273	1.479	0.404	0.253		26.9	
Body	NR Band n66	40	QPSK	H	0079M	1:1	0.02	1745.00	349000	DFT-s-OFDM	0.0	23.0	21.20	108	0	Front	5	0.266	1.514	0.403	0.252		26.9	
Body	NR Band n66	40	QPSK	H	0079M	1:1	0.18	1745.00	349000	DFT-s-OFDM	0.0	23.0	21.30	1	1	Bottom	5	0.255	1.478	0.377	0.236		27.2	
Body	NR Band n66	40	QPSK	H	0079M	1:1	0.05	1745.00	349000	DFT-s-OFDM	0.0	23.0	21.30	108	0	Bottom	5	0.244	1.514	0.400	0.250		26.9	
Body	NR Band n66	40	QPSK	H	0079M	1:1	0.05	1745.00	349000	DFT-s-OFDM	0.0	23.0	21.30	1	1	Right	5	0.519	1.479	0.768	0.485		24.1	
Body	NR Band n66	40	QPSK	H	0079M	1:1	0.03	1745.00	349000	DFT-s-OFDM	0.0	23.0	21.30	108	0	Right	5	0.548	1.514	0.830	0.519		23.8	
Body	NR Band n66	40	QPSK	H	0079M	1:1	0.06	1745.00	349000	DFT-s-OFDM	0.0	23.0	21.45	216	0	Right	5	0.692	1.531	0.753	0.471		24.2	
Body	NR Band n66	40	QPSK	H	0079M	1:1	0.16	1745.00	349000	CP-OFDM	0.0	23.0	21.21	1	1	Right	5	0.589	1.510	0.821	0.514		23.8	
Body/worn/Body	NR Band n66	40	QPSK	H	0079M	1:1	0.02	1745.00	349000	DFT-s-OFDM	0.0	23.0	21.30	1	1	Back	5	0.266	1.479	0.403	0.252		26.9	
Body/worn/Body	NR Band n66	40	QPSK	H	0079M	1:1	0.07	1745.00	349000	DFT-s-OFDM	0.0	23.0	21.20	108	0	Back	5	0.045	1.514	0.135	0.084		31.7	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																		Body						
Spiritual Peak																		1.6 W/kg (W/kg)						
Uncontrolled Exposure/General Population																		averaged over 1 gram						



12.15 NR Band n25 Standalone SAR

Table 12-82 | Ant B – Open

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Head	NR Band n25	40	QPSK	B	0087M	1:1	-0.02	1882.50	376500	DFT-s-OFDM	0.0	25.0	23.99	1	1	Right Cheek	0	0.086	1.262	0.109	0.068		34.6	34.6
Head	NR Band n25	40	QPSK	B	0087M	1:1	-0.05	1882.50	376500	DFT-s-OFDM	0.0	25.0	23.90	108	54	Right Cheek	0	0.077	1.288	0.099	0.062		35.0	
Head	NR Band n25	40	QPSK	B	0087M	1:1	-0.06	1882.50	376500	CP-OFDM	1.5	23.5	22.95	1	1	Right Cheek	0	0.050	1.293	0.029	0.024		37.6	
Head	NR Band n25	40	QPSK	B	0087M	1:1	-0.01	1882.50	376500	DFT-s-OFDM	0.0	25.0	23.99	1	1	Right Tilt	0	0.035	1.262	0.044	0.028		38.5	
Head	NR Band n25	40	QPSK	B	0087M	1:1	-0.04	1882.50	376500	DFT-s-OFDM	0.0	25.0	23.90	108	54	Right Tilt	0	0.034	1.288	0.044	0.028		38.5	
Head	NR Band n25	40	QPSK	B	0087M	1:1	-0.08	1882.50	376500	DFT-s-OFDM	0.0	25.0	23.99	1	1	Left Cheek	0	0.068	1.262	0.086	0.054		38.6	
Head	NR Band n25	40	QPSK	B	0087M	1:1	-0.03	1882.50	376500	DFT-s-OFDM	0.0	25.0	23.90	108	54	Left Cheek	0	0.058	1.288	0.075	0.047		36.2	
Head	NR Band n25	40	QPSK	B	0087M	1:1	-0.07	1882.50	376500	DFT-s-OFDM	0.0	25.0	23.99	1	1	Left Tilt	0	0.028	1.262	0.035	0.022		39.5	
Head	NR Band n25	40	QPSK	B	0087M	1:1	-0.03	1882.50	376500	DFT-s-OFDM	0.0	25.0	23.90	108	54	Left Tilt	0	0.055	1.288	0.032	0.020		39.5	
ANR/IEEE C95.1.1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		Head 1.6 W/kg (mW/g) averaged over 1 gram						

Table 12-83 | Ant H – Open | Plot A37

sure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Head	NR Band n25	40	QPSK	H	0087M	1:1	-0.04	1882.50	376500	DFT-s-OFDM	0.0	20.5	18.73	1	1	Right Cheek	0	0.100	1.503	0.150	0.094		28.7	22.1
Head	NR Band n25	40	QPSK	H	0087M	1:1	-0.18	1882.50	376500	DFT-s-OFDM	0.0	20.5	18.67	108	0	Right Cheek	0	0.092	1.524	0.140	0.088		29.0	
Head	NR Band n25	40	QPSK	H	0087M	1:1	-0.11	1882.50	376500	DFT-s-OFDM	0.0	20.5	18.73	1	1	Right Tilt	0	0.089	1.503	0.120	0.075		29.6	
Head	NR Band n25	40	QPSK	H	0087M	1:1	-0.09	1882.50	376500	DFT-s-OFDM	0.0	20.5	18.67	108	0	Right Tilt	0	0.075	1.524	0.114	0.071		29.5	
Head	NR Band n25	40	QPSK	H	0087M	1:1	0.00	1882.50	376500	DFT-s-OFDM	0.0	20.5	18.73	1	1	Left Cheek	0	0.455	1.503	0.684	0.428	Plot	22.1	
Head	NR Band n25	40	QPSK	H	0087M	1:1	-0.04	1882.50	376500	DFT-s-OFDM	0.0	20.5	18.67	108	0	Left Cheek	0	0.420	1.524	0.640	0.400		22.4	
Head	NR Band n25	40	QPSK	H	0087M	1:1	0.00	1882.50	376500	CP-OFDM	0.0	20.5	18.76	1	1	Left Cheek	0	0.416	1.426	0.607	0.379		22.6	
Head	NR Band n25	40	QPSK	H	0087M	1:1	-0.06	1882.50	376500	DFT-s-OFDM	0.0	20.5	18.73	1	1	Left Tilt	0	0.272	1.503	0.409	0.256		24.3	
Head	NR Band n25	40	QPSK	H	0087M	1:1	-0.02	1882.50	376500	DFT-s-OFDM	0.0	20.5	18.67	108	0	Left Tilt	0	0.268	1.524	0.408	0.255		24.3	
ANR/IEEE C95.1.1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		Head 1.6 W/kg (mW/g) averaged over 1 gram						

Table 12-84 | Ant B – Open | Plot A38

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	NR Band n25	40	QPSK	B	1320M	1:1	-0.03	1882.50	376500	DFT-s-OFDM	0.0	19.0	17.81	1	1	Front	5	0.428	1.315	0.563	0.352		21.4	18.7
Body	NR Band n25	40	QPSK	B	1320M	1:1	-0.01	1882.50	376500	DFT-s-OFDM	0.0	19.0	17.72	108	0	Front	5	0.440	1.344	0.465	0.344		21.3	
Body	NR Band n25	40	QPSK	B	1320M	1:1	-0.01	1882.50	376500	DFT-s-OFDM	0.0	19.0	17.82	1	1	Bottom	5	0.804	1.315	1.057	0.661		18.7	
Body	NR Band n25	40	QPSK	B	1320M	1:1	-0.01	1882.50	376500	DFT-s-OFDM	0.0	19.0	17.72	108	0	Bottom	5	0.760	1.343	1.021	0.638		18.8	
Body	NR Band n25	40	QPSK	B	1320M	1:1	-0.01	1882.50	376500	DFT-s-OFDM	0.0	19.0	17.72	108	0	Bottom	5	0.757	1.373	1.017	0.631		18.9	
Body	NR Band n25	40	QPSK	B	1320M	1:1	-0.01	1882.50	376500	CP-OFDM	0.0	19.0	17.67	1	1	Bottom	5	0.784	1.358	1.065	0.666		18.5	
Body	NR Band n25	40	QPSK	B	1320M	1:1	-0.02	1882.50	376500	DFT-s-OFDM	0.0	19.0	17.81	1	1	Left	5	0.273	1.315	0.359	0.224		23.4	
Body	NR Band n25	40	QPSK	B	1320M	1:1	-0.02	1882.50	376500	DFT-s-OFDM	0.0	19.0	17.72	108	0	Left	5	0.261	1.343	0.351	0.219		23.5	
Body worn/Body	NR Band n25	40	QPSK	B	1320M	1:1	0.00	1882.50	376500	DFT-s-OFDM	0.0	19.0	17.81	1	1	Back	5	0.838	1.315	0.839	0.524	Plot	19.7	
Body worn/Body	NR Band n25	40	QPSK	B	1320M	1:1	-0.03	1882.50	376500	DFT-s-OFDM	0.0	19.0	17.72	108	0	Back	5	0.806	1.343	0.814	0.509		19.8	
ANR/IEEE C95.1.1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		Body 1.6 W/kg (mW/g) averaged over 1 gram						

Table 12-85 | Ant H – Open

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	NR Band n25	40	QPSK	H	0087M	1:1	-0.10	1882.50	376500	DFT-s-OFDM	0.0	22.0	20.24	1	1	Front	5	0.461	1.500	0.692	0.433		23.6	21.2
Body	NR Band n25	40	QPSK	H	0087M	1:1	-0.07	1882.50	376500	DFT-s-OFDM	0.0	22.0	20.10	108	0	Front	5	0.470	1.549	0.718	0.445		23.1	
Body	NR Band n25	40	QPSK	H	0087M	1:1	-0.03	1882.50	376500	DFT-s-OFDM	0.0	22.0	20.24	1	1	Top	5	0.561	1.500	0.542	0.339		24.0	
Body	NR Band n25	40	QPSK	H	0087M	1:1	-0.05	1882.50	376500	DFT-s-OFDM	0.0	22.0	20.10	108	0	Top	5	0.582	1.549	0.592	0.370		24.2	
Body	NR Band n25	40	QPSK	H	0087M	1:1	-0.02	1882.50	376500	DFT-s-OFDM	0.0	22.0	20.14	1	1	Right	5	0.706	1.500	1.059	0.662		21.7	
Body	NR Band n25	40	QPSK	H	0087M	1:1	-0.03	1882.50	376500	DFT-s-OFDM	0.0	22.0	20.14	108	0	Right	5	0.733	1.549	1.132	0.708		21.4	
Body	NR Band n25	40	QPSK	H	0087M	1:1	0.00	1882.50	376500	DFT-s-OFDM	0.0	22.0	20.08	216	0	Right	5	0.770	1.556	1.288	0.749		21.2	
Body	NR Band n25	40	QPSK	H	0087M	1:1	-0.01	1882.50	376500	CP-OFDM	0.0	22.0	20.26	1	1	Right	5	0.786	1.482	1.260	0.656		21.7	
Body worn/Body	NR Band n25	40	QPSK	H	0087M	1:1	-0.09	1882.50	376500	DFT-s-OFDM	0.0	22.0	20.24	1	1	Back	5	0.509	1.500	0.599	0.374		24.2	
Body worn/Body	NR Band n25	40	QPSK	H	0087M	1:1	-0.03	1882.50	376500	DFT-s-OFDM	0.0	22.0	20.10	108	0	Back	5	0.491	1.549	0.621	0.388		24.0	
ANR/IEEE C95.1.1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		Body 1.6 W/kg (mW/g) averaged over 1 gram						

Table 12-86 | Ant B – Closed | Plot A39

sure	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	NR Band n25	40	QPSK	B	1320M	1:1	-0.03	1882.50	376500	DFT-s-OFDM	0.0	20.5	19.25	1	214	Front	5	0.063	1.334	0.084	0.053		31.2	19.7
Body	NR Band n25	40	QPSK	B	1320M	1:1	-0.34	1882.50	376500	DFT-s-OFDM	0.0	20.5	19.30	108	0	Front	5	0.055	1.318	0.072	0.045		31.3	
Body	NR Band n25	40	QPSK	B	1320M	1:1	-0.02	1882.50	376500	DFT-s-OFDM	0.0	20.5	19.25	1	214	Bottom	5	0.811	1.334	1.082	0.676		20.1	
Body	NR Band n25	40	QPSK	B	1320M	1:1	-0.03	1882.50	376500	DFT-s-OFDM	0.0	20.5	19.30	108	0	Bottom	5	0.901	1.318	1.188	0.743		19.7	
Body	NR Band n25	40	QPSK	B	1320M	1:1	-0.01	1882.50	376500	DFT-s-OFDM	0.0	20.5	19.14	216	0	Bottom	5	0.813	1.368	1.140	0.713		19.8	
Body	NR Band n25	40	QPSK	B	1320M	1:1	-0.02	1882.50	376500	CP-OFDM	0.0	20.5	19.44	1	2	Bottom	5	0.933	1.276	1.191	0.744	Plot	19.7	
Body	NR Band n25	40	QPSK	B	1321M	1:1	-0.06	1882.50	376500	CP-OFDM	0.0	20.5	19.45	1	214	Bottom	5	0.944	1.276	1.318	0.905		19.9	
Body	NR Band n25	40	QPSK	B	1320M	1:1	-0.03	1882.50	376500	DFT-s-OFDM	0.0	20.5	19.25	1	214	Left	5	0.198	1.334	0.264	0.185		26.7	
Body	NR Band n25	40	QPSK	B	1320M	1:1	-0.02	1882.50	376500	DFT-s-OFDM	0.0	20.5	19.30	108	0	Left	5	0.211	1.318	0.278	0.174		26.0	
Body/worn/Body	NR Band n25	40	QPSK	B	1320M	1:1	-0.03	1882.50	376500	DFT-s-OFDM	0.0	20.5	19.25	1	214	Back	5	0.134	1.334	0.212	0.145		25.9	
Body/worn/Body	NR Band n25	40	QPSK	B	1320M	1:1	-0.01	1882.50	376500	DFT-s-OFDM	0.0	20.5	19.30	108	0	Back	5	0.244	1.318	0.317	0.178		21.9	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																								
Spatial Peak																								
Uncontrolled Exposure/General Population																								
Body																								
1.6 W/kg (w/g)																								
averaged over 1 gram																								

12.16 NR Band n41 Standalone SAR

Table 12-88 | Ant B – Open

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Transmit Pathway	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	Path 1	1500M	1:1	-0.13	2592.99	518598	DFT-s-OFDM	0.0	25.5	24.91	1	271	Right Cheek	0	0.007	1.146	0.008	0.005		46.4	
Head	NR Band n41	100	QPSK	B	Path 1	1500M	1:1	0.04	2592.99	518598	DFT-s-OFDM	0.0	25.5	24.41	135	69	Right Cheek	0	0.003	1.285	0.004	0.003		49.8	
Head	NR Band n41	100	QPSK	B	Path 1	1500M	1:1	-0.05	2592.99	518598	DFT-s-OFDM	0.0	25.5	24.51	1	271	Right Tilt	0	0.008	1.146	0.009	0.008		45.8	
Head	NR Band n41	100	QPSK	B	Path 1	1500M	1:1	0.13	2592.99	518598	DFT-s-OFDM	0.0	25.5	25.41	135	69	Right Tilt	0	0.005	1.285	0.008	0.005		46.0	
Head	NR Band n41	100	QPSK	B	Path 1	1500M	1:1	0.05	2592.99	518598	DFT-s-OFDM	0.0	25.5	24.91	1	271	Left Cheek	0	0.011	1.146	0.013	0.008		44.4	
Head	NR Band n41	100	QPSK	B	Path 1	1500M	1:1	0.03	2592.99	518598	DFT-s-OFDM	0.0	25.5	24.41	135	69	Left Cheek	0	0.008	1.285	0.010	0.009		45.3	
Head	NR Band n41	100	QPSK	B	Path 1	1500M	1:1	0.05	2592.99	518598	CP-OFDM	1.5	24.0	22.56	1	1	Left Cheek	0	0.007	1.393	0.010	0.009		44.1	
Head	NR Band n41	100	QPSK	B	Path 1	1500M	1:1	0.01	2592.99	518598	DFT-s-OFDM	0.0	25.5	24.91	1	271	Left Tilt	0	0.002	1.146	0.002	0.001		51.8	
Head	NR Band n41	100	QPSK	B	Path 1	1500M	1:1	0.08	2592.99	518598	DFT-s-OFDM	0.0	25.5	24.41	135	69	Left Tilt	0	0.004	1.285	0.003	0.001		54.4	
ANSI/IEEE C63.1 1992 - SAFETY LIMIT																			Head						
Spatial Peak																			1.6 W/kg (mW/g)						
Uncontrolled Exposure/General Population																			averaged over 1 gram						
Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Transmit Pathway	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]		
Head	NR Band n41	100		B	Path 2	0022M	1:1	-0.13	2592.99	518598	CW/SRS		24.0	22.96	Left Cheek	0	0.029	1.271	0.037	0.023		38.3	38.3		
ANSI/IEEE C63.1 1992 - SAFETY LIMIT																			Head						
Spatial Peak																			1.6 W/kg (mW/g)						
Uncontrolled Exposure/General Population																			averaged over 1 gram						

Table 12-89 | Ant H – Open | Plot A40

sure	Band / Mode	Bandwidth [MHz]	Ant.	Transmit Pathway	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]				
Head	NR Band n41	100	H	Path 1	0022M	1:1	-0.01	2592.99	518598	CW/SRS	17.5	16.95	Left Cheek	0	0.480	1.135	0.545	0.341		20.1	20.1				
ANSI/IEEE C63.1 1992 - SAFETY LIMIT																			Head						
Spatial Peak																			1.6 W/kg (mW/g)						
Uncontrolled Exposure/General Population																			averaged over 1 gram						
Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Transmit Pathway	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	H	Path 2	0022M	1:1	-0.03	2592.99	518598	DFT-s-OFDM	0.0	17.5	16.72	1	1	Right Cheek	0	0.156	1.197	0.187	0.117		24.7	
Head	NR Band n41	100	QPSK	H	Path 2	0022M	1:1	0.07	2592.99	518598	DFT-s-OFDM	0.0	17.5	15.68	135	0	Right Cheek	0	0.169	1.208	0.204	0.128		24.4	
Head	NR Band n41	100	QPSK	H	Path 2	0022M	1:1	0.08	2592.99	518598	DFT-s-OFDM	0.0	17.5	16.72	1	1	Right Tilt	0	0.101	1.197	0.121	0.076		26.6	
Head	NR Band n41	100	QPSK	H	Path 2	0022M	1:1	0.02	2592.99	518598	DFT-s-OFDM	0.0	17.5	16.68	135	0	Right Tilt	0	0.101	1.208	0.123	0.076		26.6	
Head	NR Band n41	100	QPSK	H	Path 2	0022M	1:1	-0.10	2592.99	518598	DFT-s-OFDM	0.0	17.5	16.72	1	1	Left Cheek	0	0.473	1.197	0.566	0.354		19.9	
Head	NR Band n41	100	QPSK	H	Path 2	0022M	1:1	0.02	2592.99	518598	DFT-s-OFDM	0.0	17.5	16.68	135	0	Left Cheek	0	0.473	1.208	0.571	0.357		19.9	
Head	NR Band n41	100	QPSK	H	Path 2	0022M	1:1	0.00	2592.99	518598	CP-OFDM	0.0	17.5	16.67	1	1	Left Cheek	0	0.154	1.211	0.171	0.107	Not	19.2	
Head	NR Band n41	100	QPSK	H	Path 2	0022M	1:1	0.03	2592.99	518598	DFT-s-OFDM	0.0	17.5	16.72	1	1	Left Tilt	0	0.329	1.197	0.394	0.246		21.5	
Head	NR Band n41	100	QPSK	H	Path 2	0022M	1:1	0.05	2592.99	518598	DFT-s-OFDM	0.0	17.5	16.68	135	0	Left Tilt	0	0.307	1.208	0.371	0.232		21.8	
ANSI/IEEE C63.1 1992 - SAFETY LIMIT																			Head						
Spatial Peak																			1.6 W/kg (mW/g)						
Uncontrolled Exposure/General Population																			averaged over 1 gram						

Table 12-90 | Ant C – Open

Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Transmit Pathway	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]		
Head	NR Band n41	100	C	Path 1	0022M	1:1	0.06	2592.99	518598	CW/SRS	24.0	23.23	Right Cheek	0	0.046	1.194	0.055	0.034		36.6	31.4		
Head	NR Band n41	100	C	Path 1	0022M	1:1	0.06	2592.99	518598	CW/SRS	24.0	23.23	Right Tilt	0	0.037	1.194	0.044	0.028		37.5			
Head	NR Band n41	100	C	Path 1	0022M	1:1	-0.12	2592.99	518598	CW/SRS	24.0	23.23	Left Cheek	0	0.150	1.194	0.179	0.112		31.4			
Head	NR Band n41	100	C	Path 1	0022M	1:1	-0.06	2592.99	518598	CW/SRS	24.0	23.23	Left Tilt	0	0.024	1.194	0.029	0.018		39.4			
ANSI/IEEE C63.1 1992 - SAFETY LIMIT															Head								
Spatial Peak															1.6 W/kg (mW/g)								
Uncontrolled Exposure/General Population															averaged over 1 gram								
Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Transmit Pathway	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]		
Head	NR Band n41	100	C	Path 2	0022M	1:1	0.05	2592.99	518598	CW/SRS	17.0	16.55	Left Cheek	0	0.024	1.109	0.027	0.017		32.7	32.7		
ANSI/IEEE C63.1 1992 - SAFETY LIMIT															Head								
Spatial Peak															1.6 W/kg (mW/g)								
Uncontrolled Exposure/General Population															averaged over 1 gram								

Table 12-91 | Ant G – Open

Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Transmit Pathway	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio [1g SAR]	Plot #	Plimit [dBm]	Overall Plimit [dBm]	
Head	NR Band n41	100	G	Path 1	0022M	1:1	0.08	2592.99	518598	CW/SRS	19.0	18.21	Right Cheek	0	0.533	1.199	0.639	0.399		20.9		
Head	NR Band n41	100	G	Path 1	0022M	1:1	0.02	2592.99	518598	CW/SRS	19.0	18.21	Right Tilt	0	0.529	1.199	0.634	0.396		20.9		
Head	NR Band n41	100	G	Path 1	0022M	1:1	0.00	2592.99	518598	CW/SRS	19.0	18.21	Left Cheek	0	0.254	1.199	0.305	0.191		24.1	20.9	
Head	NR Band n41	100	G	Path 1	0022M	1:1	0.01	2592.99	518598	CW/SRS	19.0	18.21	Left Tilt	0	0.236	1.199	0.283	0.177		20.4		
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																Head						
Spatial Peak																1.6 W/kg (mW/g)						
Uncontrolled Exposure/General Population																averaged over 1 gram						
Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Transmit Pathway	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio [1g SAR]	Plot #	Plimit [dBm]	Overall Plimit [dBm]	
Head	NR Band n41	100	G	Path 2	0022M	1:1	-0.09	2592.99	518598	CW/SRS	17.0	16.16	Right Cheek	0	0.488	1.213	0.592	0.370		19.2	19.2	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																Head						
Spatial Peak																1.6 W/kg (mW/g)						
Uncontrolled Exposure/General Population																averaged over 1 gram						

Table 12-92 | Ant B – Open

posure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Transmit Pathway	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	NR Band n41	100	QPSK	B	Path 1	0022M	1:1	-0.01	2592.99	518598	DFT-s-OFDM	0.0	19.5	18.07	1	1	Front	5	0.327	1.390	0.455	0.284		22.9	
Body	NR Band n41	100	QPSK	B	Path 1	0022M	1:1	0.00	2592.99	518598	DFT-s-OFDM	0.0	19.5	17.78	135	0	Front	5	0.283	1.486	0.421	0.263		23.2	
Body	NR Band n41	100	QPSK	B	Path 1	0022M	1:1	0.01	2592.99	518598	DFT-s-OFDM	0.0	19.5	18.07	1	1	Bottom	5	0.617	1.390	0.658	0.536		20.1	
Body	NR Band n41	100	QPSK	B	Path 1	0022M	1:1	0.01	2592.99	518598	DFT-s-OFDM	0.0	19.5	17.78	135	0	Bottom	5	0.524	1.486	0.774	0.484		20.6	
Body	NR Band n41	100	QPSK	B	Path 1	0022M	1:1	0.02	2592.99	518598	DFT-s-OFDM	0.0	19.5	17.62	270	0	Bottom	5	0.465	1.542	0.727	0.448		20.9	
Body	NR Band n41	100	QPSK	B	Path 1	0022M	1:1	-0.13	2592.99	518598	DFT-s-OFDM	0.0	19.5	18.07	1	1	Left	5	0.123	1.390	0.280	0.159		25.6	
Body	NR Band n41	100	QPSK	B	Path 1	0022M	1:1	0.01	2592.99	518598	DFT-s-OFDM	0.0	19.5	17.78	135	0	Left	5	0.159	1.486	0.227	0.142		25.9	
Body-worn/Body	NR Band n41	100	QPSK	B	Path 1	0022M	1:1	-0.02	2592.99	518598	DFT-s-OFDM	0.0	19.5	18.07	1	1	Back	5	0.692	1.390	0.962	0.601		19.6	
Body-worn/Body	NR Band n41	100	QPSK	B	Path 1	0022M	1:1	-0.01	2592.99	518598	DFT-s-OFDM	0.0	19.5	17.78	135	0	Back	5	0.635	1.486	0.944	0.599		19.7	
Body-worn/Body	NR Band n41	100	QPSK	B	Path 1	0022M	1:1	-0.04	2592.99	518598	DFT-s-OFDM	0.0	19.5	17.62	270	0	Back	5	0.553	1.542	0.853	0.533		20.1	
Body-worn/Body	NR Band n41	100	QPSK	B	Path 1	0022M	1:1	0.05	2592.99	518598	CP-OFDM	0.0	19.5	18.21	1	1	Back	5	0.728	1.396	0.969	0.606		19.6	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																								Body 1.6 W/kg (mW/g) averaged over 1 gram	
Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Transmit Pathway	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]				
Body-worn/Body	NR Band n41	100	B	Path 2	0022M	1:1	-0.02	2592.99	518598	CW/SRS	18.0	17.15	Back	5	0.605	1.216	0.736	0.460		19.3	19.3				
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																								Body 1.6 W/kg (mW/g) averaged over 1 gram	

Table 12-93 | Ant H – Open

ANSI/IEEE C95.1 1992 - SAFETY LIMIT																									
Spatial Peak																									
Uncontrolled Exposure/General Population																									
Body 1.6 W/kg (mW/g) averaged over 1 gram																									
posure	Band / Mode	Bandwidth [MHz]	Ant.	Transmit Pathway	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]				
Body	NR Band n41	100	H	Path 1	0022M	1:1	-0.06	2592.99	518598	CW/SRS	20.0	18.96	Right	5	0.344	1.271	0.437	0.273		23.5	23.5				
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																									
Spatial Peak																									
Uncontrolled Exposure/General Population																									
Body 1.6 W/kg (mW/g) averaged over 1 gram																									
Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Transmit Pathway	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RIS Size	RIS Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n41	100	QPSK	H	Path 2	0022M	1:1	-0.03	2592.99	518598	DFT-s-OFDM	0.0	20.0	18.74	1	1	Front	5	0.412	1.337	0.553	0.344		22.5	
Body	NR Band n41	100	QPSK	H	Path 2	0022M	1:1	0.00	2592.99	518598	DFT-s-OFDM	0.0	20.0	18.69	135	0	Front	5	0.353	1.352	0.477	0.298		23.2	
Body	NR Band n41	100	QPSK	H	Path 2	0022M	1:1	-0.04	2592.99	518598	DFT-s-OFDM	0.0	20.0	18.74	1	1	Top	5	0.268	1.337	0.358	0.224		24.4	
Body	NR Band n41	100	QPSK	H	Path 2	0022M	1:1	-0.02	2592.99	518598	DFT-s-OFDM	0.0	20.0	18.69	135	0	Top	5	0.288	1.352	0.331	0.194		25.0	
Body	NR Band n41	100	QPSK	H	Path 2	0022M	1:1	-0.06	2592.99	518598	DFT-s-OFDM	0.0	20.0	18.74	1	1	Right	5	0.488	1.337	0.636	0.391		22.0	
Body	NR Band n41	100	QPSK	H	Path 2	0022M	1:1	-0.05	2592.99	518598	DFT-s-OFDM	0.0	20.0	18.69	135	0	Right	5	0.485	1.352	0.656	0.419		21.8	
Body worn	NR Band n41	100	QPSK	H	Path 2	0022M	1:1	-0.04	2592.99	518598	CP-OFDM	0.0	20.0	18.65	1	1	Right	5	0.493	1.365	0.679	0.423		21.7	
Body worn/Body	NR Band n41	100	QPSK	H	Path 2	0022M	1:1	-0.07	2592.99	518598	DFT-s-OFDM	0.0	20.0	18.74	1	1	Back	5	0.418	1.337	0.556	0.348		22.5	
Body worn/Body	NR Band n41	100	QPSK	H	Path 2	0022M	1:1	0.03	2592.99	518598	DFT-s-OFDM	0.0	20.0	18.69	135	0	Back	5	0.376	1.352	0.508	0.318		22.0	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																									
Spatial Peak																									
Uncontrolled Exposure/General Population																									
Body 1.6 W/kg (mW/g) averaged over 1 gram																									

Table 12-94 | Ant C – Open

Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Transmit Pathway	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	
Body	NR Band n41	100	C	Path 1	0022M	1:1	0.14	2592.99	518598	CW/SRS	20.0	19.18	Front	5	0.348	1.208	0.420	0.263		23.7		
Body	NR Band n41	100	C	Path 1	0022M	1:1	-0.19	2592.99	518598	CW/SRS	20.0	19.18	Bottom	5	0.063	1.208	0.076	0.048		31.1		
Body	NR Band n41	100	C	Path 1	0022M	1:1	0.05	2592.99	518598	CW/SRS	20.0	19.18	Left	5	0.420	1.208	0.507	0.317		22.9	22.3	
Body-worn/Body	NR Band n41	100	C	Path 1	0022M	1:1	-0.03	2592.99	518598	CW/SRS	20.0	19.18	Back	5	0.481	1.208	0.581	0.363		22.3		
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		Body 1.6 W/kg (mW/g) averaged over 1 gram				
Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Transmit Pathway	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	
Body-worn/Body	NR Band n41	100	C	Path 2	0022M	1:1	0.01	2592.99	518598	CW/SRS	19.0	18.57	Back	5	0.383	1.104	0.423	0.264		22.7	22.7	
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 12-95 | Ant G – Open

Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Transmit Pathway	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n41	100	G	Path 1	0022M	1:1	0.04	2592.99	518598	CW/SRS	19.0	18.21	Front	5	0.298	1.199	0.357	0.223		23.4	
Body	NR Band n41	100	G	Path 1	0022M	1:1	0.13	2592.99	518598	CW/SRS	19.0	18.21	Top	5	0.296	1.199	0.355	0.222		23.4	
Body	NR Band n41	100	G	Path 1	0022M	1:1	0.06	2592.99	518598	CW/SRS	19.0	18.21	Left	5	0.090	1.199	0.108	0.068		28.6	
Body-worn/Body	NR Band n41	100	G	Path 1	0022M	1:1	0.07	2592.99	518598	CW/SRS	19.0	18.21	Back	5	0.320	1.199	0.384	0.240		23.1	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population														Body 1.6 W/kg (mW/g) averaged over 1 gram							
posure	Band / Mode	Bandwidth [MHz]	Ant.	Transmit Pathway	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body-worn/Body	NR Band n41	100	G	Path 2	0022M	1:1	0.01	2592.99	518598	CW/SRS	19.0	18.23	Back	5	0.239	1.194	0.285	0.178		24.4	24.4
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population														Body 1.6 W/kg (mW/g) averaged over 1 gram							

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Table 12-96 | Ant B – Closed | Plot A41

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Transmit Pathway	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 Rate [1g SAR]	Pilot #	Pilot [dBm]	Overall Pilot [dBm]
Body worn/Body	Body	NR Band n61	100	QPSK	B	Path-1	002ZMA	1-1	-0.08	2592.99	S18S98	DFT-a-OFDM	0.0	21.5	20.38	1	1	Front	5	0.078	1.233	0.076	0.960	22.0	31.6
	Body	NR Band n61	100	QPSK	B	Path-1	002JMA	1-1	0.08	2592.99	S18S98	DFT-d-OFDM	0.0	21.5	20.31	135	0	Bottom	5	0.005	1.315	0.022	0.045	22.0	32.9
	Body	NR Band n61	100	QPSK	B	Path-1	002ZJM	1-1	-0.04	2592.99	S18S98	DFT-a-OFDM	0.0	21.5	20.39	1	1	Bottom	5	0.730	1.233	0.888	0.555	22.0	22.9
	Body	NR Band n61	100	QPSK	B	Path-1	002ZIM	1-1	-0.01	2592.99	S18S98	DFT-f-OFDM	0.0	21.5	20.31	135	0	Bottom	5	0.635	1.315	0.815	0.522	22.0	22.0
	Body	NR Band n61	100	QPSK	B	Path-1	002ZIN	1-1	0.03	2592.99	S18S98	DFT-g-OFDM	0.0	21.5	20.67	270	0	Bottom	5	0.562	1.390	0.781	0.488	22.5	22.5
	Body	NR Band n61	100	QPSK	B	Path-1	002ZIY	1-1	-0.02	2592.99	S18S98	DFT-i-OFDM	0.0	21.5	20.59	1	1	Left	5	0.286	1.233	0.270	0.182	22.8	26.8
	Body	NR Band n61	100	QPSK	B	Path-1	002ZIZ	1-1	-0.01	2592.99	S18S98	DFT-j-OFDM	0.0	21.5	20.31	135	0	Back	5	0.983	1.315	0.946	0.216	23.1	26.1
	Body-worn/Body	NR Band n61	100	QPSK	B	Path-1	002ZJAM	1-1	-0.10	2592.99	S18S98	DFT-k-OFDM	0.0	21.5	20.59	1	1	Back	5	0.919	1.233	1.133	0.708	20.9	20.9
	Body-worn/Body	NR Band n61	100	QPSK	B	Path-1	002ZJBN	1-1	-0.06	2592.99	S18S98	DFT-l-OFDM	0.0	21.5	20.31	135	0	Back	5	1.101	1.315	1.161	0.728	20.8	20.8
	Body-worn/Body	NR Band n61	100	QPSK	B	Path-1	002ZIJM	1-1	-0.07	2592.99	S18S98	DFT-m-OFDM	0.0	21.5	20.67	270	0	Back	5	0.734	1.390	1.020	0.638	23.1	21.4
	Body-worn/Body	NR Band n61	100	QPSK	B	Path-1	002ZIKL	1-1	-0.01	2592.99	S18S98	CP-OFDM	0.0	21.5	20.55	1	1	Back	5	0.961	1.245	1.196	0.748	Foot	20.7
	Body-worn/Body	NR Band n61	100	QPSK	B	Path-1	002ZILH	1-1	0.01	2592.99	S18S98	CP-OFDM	0.0	21.5	20.41	1	1	Back	5	0.945	1.245	1.167	0.729	20.8	20.8
																ANSI/IEEE C95.1.1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure (General Population)			Body 1.6 W/kg (mW/g) averaged over 1 gram						
note: Blue entry represents variability measurement																									
ure	Band / Mode	Bandwidth [MHz]		Ant.	Transmit Pathway	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform		Max Allowed Power [dBm]	Conducted Power [dBm]		Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Rate [1g SAR]	Pilot #	Pilot [dBm]	Overall Pilot [dBm]	
Body-worn/Body	NR Band n61	100		B	Path-2	002ZMA	1-1	0.01	2592.99	S18S98	CW/SRS		20.0	19.35		Back	5	0.823	1.161	0.956	0.598	22.0	20.1	20.1	
																	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 12-97 | Ant H – Closed

Source	Band / Mode	Bandwidth [MHz]	Ant.	Transmit Pathway	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Rate (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]				
Body	NR Band n41	100	H	Path 1	0022M	1:1	-0.06	2592.99	518598	CW/SRS	20.0	18.95	Right	5	0.422	1.271	0.536	0.335		22.7	22.7				
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																									
Spatial Peak															Body										
Uncontrolled Exposure/General Population															1.6 W/kg (mW/g) averaged over 1 gram										
Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Transmit Pathway	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPE [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Rate (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n41	100	QPSK	H	Path 2	0022M	1:1	-0.09	2592.99	518598	OFDM + OFDM	0.0	20.0	18.74	1	1	Front	5	0.133	1.337	0.445	0.278	23.5	23.5	
Body	NR Band n41	100	QPSK	H	Path 2	0022M	1:1	0.03	2592.99	518598	OFDM + OFDM	0.0	20.0	18.69	135	0	Front	5	0.348	1.352	0.440	0.291	23.3	23.3	
Body	NR Band n41	100	QPSK	H	Path 2	0022M	1:1	0.10	2592.99	518598	OFDM + OFDM	0.0	20.0	18.74	1	1	Bottom	5	0.250	1.337	0.334	0.209	24.7	24.7	
Body	NR Band n41	100	QPSK	H	Path 2	0022M	1:1	0.05	2592.99	518598	OFDM + OFDM	0.0	20.0	18.69	135	0	Bottom	5	0.246	1.352	0.331	0.208	24.7	24.7	
Body	NR Band n41	100	QPSK	H	Path 2	0022M	1:1	-0.06	2592.99	518598	OFDM + OFDM	0.0	20.0	18.74	1	1	Back	5	0.277	1.337	0.371	0.461	24.3	24.3	
Body	NR Band n41	100	QPSK	H	Path 2	0022M	1:1	0.05	2592.99	518598	OFDM + OFDM	0.0	20.0	18.69	135	0	Back	5	0.247	1.352	0.368	0.530	24.7	24.7	
Body	NR Band n41	100	QPSK	H	Path 2	1424M	1:1	-0.07	2592.99	518598	OFDM + OFDM	0.0	20.0	18.31	270	0	Right	5	0.607	1.476	0.838	0.540	20.4	20.4	
Body	NR Band n41	100	QPSK	H	Path 2	0022M	1:1	0.06	2592.99	518598	OFDM + OFDM	0.0	20.0	18.75	1	1	Right	5	0.618	1.363	0.884	0.528	20.7	20.7	
Body worn/Body	NR Band n41	100	QPSK	H	Path 2	0022M	1:1	-0.11	2592.99	518598	OFDM + OFDM	0.0	20.0	18.31	1	1	Back	5	0.114	1.337	0.152	0.095	28.1	28.1	
Body worn/Body	NR Band n41	100	QPSK	H	Path 2	0022M	1:1	0.00	2592.99	518598	OFDM + OFDM	0.0	20.0	18.69	135	0	Back	5	0.112	1.352	0.151	0.094	28.1	28.1	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																									
Spatial Peak															Body										
Uncontrolled Exposure/General Population															1.6 W/kg (mW/g) averaged over 1 gram										

Table 12-98 | Ant C – Closed

Part 12.50 MHz S-Spread																					
Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Transmit Pathway	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio [1g SAR]	Plot #	PLimit [dBm]	Overall PLimit [dBm]
Body	NR Band n41	100	C	Path 1	1500M	1:1	0.07	2502.99	518598	CW/SRS	22.0	21.26	Front	5	0.040	1.186	0.047	0.029		35.2	
Body	NR Band n41	100	C	Path 1	1500M	1:1	0.08	2502.99	518598	CW/SRS	22.0	21.26	Top	5	0.040	1.186	0.036	0.023		36.4	23.9
Body	NR Band n41	100	C	Path 1	1500M	1:1	0.04	2502.99	518598	CW/SRS	22.0	21.26	Bottom	5	0.081	1.186	0.096	0.060		32.1	
Body	NR Band n41	100	C	Path 1	1500M	1:1	0.05	2502.99	518598	CW/SRS	22.0	21.26	Left	5	0.537	1.186	0.637	0.398		23.9	
Body-worn/Body	NR Band n41	100	C	Path 1	1500M	1:1	-0.15	2502.99	518598	CW/SRS	22.0	21.26	Back	5	0.451	1.186	0.535	0.334		24.7	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population													Body 1.6 W/kg (mW/g) averaged over 1 gram								
Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Transmit Pathway	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio [1g SAR]	Plot #	PLimit [dBm]	Overall PLimit [dBm]
Body-worn/Body	NR Band n41	100	C	Path 2	0022M	1:1	-0.09	2502.99	518598	CW/SRS	19.0	18.57	Back	5	0.396	1.104	0.437	0.273		22.5	22.5
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population													Body 1.6 W/kg (mW/g)								

Table 12-99 | Ant G – Closed

Table 12.33: Part 2 - General																					
Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Transmit Pathway	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio [1g SAR]	Plot #	PLimit [dBm]	Overall PLimit [dBm]
Body	NR Band n41	100	G	Path 1	1500M	1:1	0.05	2502.99	518598	CW/SRS	19.0	18.21	Front	5	0.287	1.199	0.344	0.215		23.6	
Body	NR Band n41	100	G	Path 1	1500M	1:1	-0.01	2502.99	518598	CW/SRS	19.0	18.21	Bottom	5	0.428	1.199	0.513	0.321		21.8	
Body	NR Band n41	100	G	Path 1	1500M	1:1	-0.06	2502.99	518598	CW/SRS	19.0	18.21	Left	5	0.070	1.199	0.084	0.053		29.7	21.8
Body-worn/Body	NR Band n41	100	G	Path 1	1500M	1:1	0.07	2502.99	518598	CW/SRS	19.0	18.21	Back	5	0.052	1.199	0.062	0.039		31.0	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak												Body 1.6 W/kg (mW/g) averaged over 1 gram									
Uncontrolled Exposure/General Population																					
Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Transmit Pathway	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio [1g SAR]	Plot #	PLimit [dBm]	Overall PLimit [dBm]
Body	NR Band n41	100	G	Path 2	0022M	1:1	0.03	2502.99	518598	CW/SRS	19.0	18.23	Front	5	0.200	1.194	0.239	0.149		25.2	25.2
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak												Body 1.6 W/kg (mW/g) averaged over 1 gram									
Uncontrolled Exposure/General Population																					



12.17 NR Band n77 Standalone SAR

Table 12-100 | Ant F – Open | Plot A42

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 n77 DoD	100	QPSK	F	1500M	1:1	-0.14	3500.01	633334	DFT-s-OFDM	0.0	15.0	14.11	1	271	Right Cheek	0	0.325	1.227	0.399	0.249		18.9	16.1
Head	NR Band n77	100	QPSK	F	1500M	1:1	-0.01	3750.00	650000	DFT-s-OFDM	0.0	15.0	14.27	1	1	Right Cheek	0	0.379	1.183	0.448	0.280		18.4	
Head	NR Band n77	100	QPSK	F	1500M	1:1	0.07	3850.00	662000	DFT-s-OFDM	0.0	15.0	13.47	1	1	Right Cheek	0	0.337	1.422	0.754	0.478	Plot	16.1	
Head	NR Band n77	100	QPSK	F	1500M	1:1	-0.21	3750.00	650000	DFT-s-OFDM	0.0	15.0	13.83	135	0	Right Cheek	0	0.375	1.309	0.491	0.307		18.0	
Head	NR Band n77	100	QPSK	F	1500M	1:1	-0.01	3850.00	662000	DFT-s-OFDM	0.0	15.0	13.16	135	69	Right Cheek	0	0.492	1.528	0.752	0.470		16.2	
Head	NR Band n77	100	QPSK	F	1500M	1:1	-0.02	3750.00	650000	CP-OFDM	0.0	15.0	14.25	1	1	Right Cheek	0	0.418	1.189	0.497	0.311		18.0	
Head	NR Band n77	100	QPSK	F	1500M	1:1	-0.12	3750.00	650000	DFT-s-OFDM	0.0	15.0	14.27	1	1	Right Tibi	0	0.239	1.183	0.283	0.177		20.4	
Head	NR Band n77	100	QPSK	F	1500M	1:1	-0.07	3750.00	650000	DFT-s-OFDM	0.0	15.0	13.83	135	0	Right Tibi	0	0.209	1.309	0.274	0.171		20.0	
Head	NR Band n77	100	QPSK	F	1500M	1:1	-0.08	3750.00	650000	DFT-s-OFDM	0.0	15.0	14.27	1	1	Left Cheek	0	0.142	1.183	0.368	0.105		22.7	
Head	NR Band n77	100	QPSK	F	1500M	1:1	0.06	3750.00	650000	DFT-s-OFDM	0.0	15.0	13.83	135	0	Left Cheek	0	0.107	1.309	0.140	0.088		23.5	
Head	NR Band n77	100	QPSK	F	1500M	1:1	-0.13	3750.00	650000	DFT-s-OFDM	0.0	15.0	14.27	1	1	Left Tibi	0	0.062	1.183	0.073	0.046		26.3	
Head	NR Band n77	100	QPSK	F	1500M	1:1	-0.13	3750.00	650000	DFT-s-OFDM	0.0	15.0	13.83	135	0	Left Tibi	0	0.009	1.309	0.077	0.048		26.1	
ANSI/IEEE C63.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		Head 1.6 W/kg (mW/g) averaged over 1 gram						

Table 12-101 | Ant H – Open

Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	PLimit [dBm]	Overall PLimit [dBm]	
Head	NR Band n77	100	H	1498M	1:1	-0.03	3750.00	650000	CW/SRS	16.0	14.78	Right Cheek	0	0.154	1.324	0.204	0.128		22.9	19.3	
Head	NR Band n77	100	H	1498M	1:1	0.05	3750.00	650000	CW/SRS	16.0	14.78	Right Tibi	0	0.056	1.324	0.074	0.046		27.2		
Head	NR Band n77 DoD	100	H	1498M	1:1	0.09	3500.01	633334	CW/SRS	16.0	15.91	Left Cheek	0	0.135	1.021	0.138	0.086		24.6		
Head	NR Band n77	100	H	1498M	1:1	-0.07	3750.00	650000	CW/SRS	16.0	14.78	Left Cheek	0	0.249	1.324	0.462	0.289		15.3		
Head	NR Band n77	100	H	1498M	1:1	-0.05	3930.00	662000	CW/SRS	16.0	14.12	Left Cheek	0	0.280	1.542	0.432	0.270		19.6		
Head	NR Band n77	100	H	1498M	1:1	-0.11	3750.00	650000	CW/SRS	16.0	14.78	Left Tibi	0	0.133	1.324	0.176	0.110		23.5		
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 12-102 | Ant K – Open

Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Serial Number	Duty Cycle	Power [dB]	Frequency [MHz]	Channel #	Waveform	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	PLimit [dBm]	Overall PLimit [dBm]	
Head	NR Band n77	100	K	1498M	1:1	-0.04	3750.00	650000	CW/SRS	15.0	14.28	Right Cheek	0	0.113	1.180	0.133	0.083		23.7	21.2	
Head	NR Band n77	100	K	1498M	1:1	-0.14	3750.00	650000	CW/SRS	15.0	14.28	Right Tibi	0	0.118	1.180	0.139	0.087		23.5		
Head	NR Band n77 DoD	100	K	1498M	1:1	0.03	3500.01	633334	CW/SRS	15.0	14.73	Left Cheek	0	0.167	1.064	0.178	0.111		22.5		
Head	NR Band n77	100	K	1498M	1:1	-0.03	3750.00	650000	CW/SRS	15.0	14.28	Left Cheek	0	0.201	1.180	0.237	0.148		21.2		
Head	NR Band n77	100	K	1498M	1:1	-0.12	3750.00	650000	CW/SRS	15.0	14.28	Left Tibi	0	0.145	1.180	0.171	0.107		22.6		
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population															Head 1.6 W/kg (mW/g) averaged over 1 gram						

Table 12-103 | Ant C – Open

Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	PLimit [dBm]	Overall PLimit [dBm]	
Head	NR Band n77	100	C	1424M	1:1	0.01	3750.00	650000	CW/SRS	15.0	13.93	Right Cheek	0	0.007	1.279	0.009	0.006		35.4	29.9	
Head	NR Band n77	100	C	1424M	1:1	-0.01	3750.00	650000	CW/SRS	15.0	13.93	Right Tibi	0	0.000	1.279	0.000	0.000		53.9		
Head	NR Band n77 DoD	100	C	1424M	1:1	0.05	3500.01	633334	CW/SRS	15.0	14.94	Left Cheek	0	0.029	1.014	0.029	0.018		30.3		
Head	NR Band n77	100	C	1424M	1:1	0.01	3750.00	650000	CW/SRS	15.0	13.93	Left Cheek	0	0.025	1.279	0.032	0.020		29.9		
Head	NR Band n77	100	C	1424M	1:1	0.02	3750.00	650000	CW/SRS	15.0	13.93	Left Tibi	0	0.004	1.279	0.005	0.003		37.9		
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 12-104 | Ant F – Open | Plot A44, A43

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	NR Band n77	100	QPSK	F	1500M	1:1	-0.01	3750.00	650000	DFT-s-OFDM	0.0	18.0	17.22	1	1	Front	5	0.326	1.197	0.390	0.244		22.0	17.5
Body	NR Band n77	100	QPSK	F	1500M	1:1	0.03	3750.00	650000	DFT-s-OFDM	0.0	18.0	16.97	135	0	Front	5	0.261	1.268	0.331	0.207		22.8	
Body	NR Band n77	100	QPSK	F	1500M	1:1	-0.04	3750.00	650000	DFT-s-OFDM	0.0	18.0	17.22	1	1	Top	5	0.326	1.197	0.390	0.244		22.0	
Body	NR Band n77	100	QPSK	F	1500M	1:1	0.09	3750.00	650000	DFT-s-OFDM	0.0	18.0	16.97	135	0	Top	5	0.239	1.268	0.303	0.189		23.1	
Body	NR Band n77 DoD	100	QPSK	F	1500M	1:1	0.03	3500.01	633334	DFT-s-OFDM	0.0	18.0	17.99	1	271	Left	5	0.308	1.151	1.114	0.696	Plot	17.5	
Body	NR Band n77 DoD	100	QPSK	F	1500M	1:1	0.03	3500.01	633334	DFT-s-OFDM	0.0	18.0	17.99	1	271	Left	5	0.308	1.151	1.114	0.696		17.7	
Body	NR Band n77	100	QPSK	F	1500M	1:1	0.06	3750.00	650000	DFT-s-OFDM	0.0	18.0	17.22	1	1	Left	5	0.844	1.197	1.030	0.631		17.9	
Body	NR Band n77	100	QPSK	F	1500M	1:1	-0.04	3750.00	650000	DFT-s-OFDM	0.0	18.0	17.22	1	1	Left	5	0.844	1.197	1.030	0.631		18.1	
Body	NR Band n77	100	QPSK	F	1500M	1:1	-0.04	3850.00	662000	DFT-s-OFDM	0.0	18.0	17.22	1	1	Left	5	0.633	1.151	0.752	0.470		19.2	
Body	NR Band n77	100	QPSK	F	1500M	1:1	-0.12	3750.00	650000	DFT-s-OFDM	0.0	18.0	16.97	135	0	Left	5	0.729	1.268	0.924	0.578		18.3	
Body	NR Band n77	100	QPSK	F	1500M	1:1	0.10	3830.00	662000	DFT-s-OFDM	0.0	18.0	16.94	135	0	Left	5	0.566	1.466	0.830	0.519		18.8	
Body	NR Band n77	100	QPSK	F	1500M	1:1	0.09	3750.00	650000	DFT-s-OFDM	0.0	18.0	16.75	270	0	Left	5	0.340	1.334	0.387	0.617		18.0	
Body	NR Band n77	100	QPSK	F	1500M	1:1	0.05	3750.00	650000	CP-OFDM	0.0	18.0	17.38	1	1	Left	5	0.817	1.151	0.942	0.589		18.2	
Body worn/Body	NR Band n77	100	QPSK	F	1500M	1:1	-0.03	3750.00	650000	DFT-s-OFDM	0.0	18.0	17.22	1	1	Back	5	0.532	1.197	0.637	0.398	Plot	19.9	
Body worn/Body	NR Band n77	100	QPSK	F	1500M	1:1	0.13	3850.00	662000	DFT-s-OFDM	0.0	18.0	16.48	1	1	Back	5	0.611	1.419	0.612	0.383		20.1	
Body worn/Body	NR Band n77	100	QPSK	F	1500M	1:1	-0.09	3750.00	650000	DFT-s-OFDM	0.0	18.0	16.97	135	0	Back	5	0.490	1.268	0.621	0.388		20.0	
Body worn/Body	NR Band n77	100	QPSK	F	1500M	1:1	-0.06	3830.00	662000	DFT-s-OFDM	0.0	18.0	16.94	135	0	Back	5	0.377	1.466	0.553	0.346		20.5	
ANSI/IEEE C63.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																		Body 1.6 W/kg (mW/g) averaged over 1 gram						

Note: Blue entry represents variability measurement

FCC ID: A3LSMF776B	RF EXPOSURE PART 1 TEST REPORT										Approved by: Technical Manager	
Document S/N: 1M2603110020-01.A3L (Rev1)	DUT Type: Portable Handset	This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.										Page 142 of 171

Table 12-105 | Ant H – Open

Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n77	100	H	1498M	1:1	-0.04	3750.00	650000	CW/SRS	18.0	17.31	Front	5	0.263	1.172	0.308	0.193		23.1	
Body	NR Band n77	100	H	1498M	1:1	0.02	3750.00	650000	CW/SRS	18.0	17.31	Top	5	0.086	1.172	0.101	0.063		27.9	
Body	NR Band n77 DoD	100	H	1498M	1:1	-0.08	3500.01	633334	CW/SRS	18.0	17.98	Right	5	0.253	1.005	0.254	0.139		23.9	
Body	NR Band n77	100	H	1498M	1:1	0.18	3750.00	650000	CW/SRS	18.0	17.31	Right	5	0.699	1.172	0.819	0.512		18.8	18.5
Body	NR Band n77	100	H	1498M	1:1	-0.06	3930.00	662000	CW/SRS	18.0	16.41	Right	5	0.508	1.442	0.877	0.548		18.5	
Body-worn/Body	NR Band n77	100	H	1498M	1:1	-0.04	3750.00	650000	CW/SRS	18.0	17.31	Back	5	0.435	1.172	0.510	0.319		20.9	
Body-worn/Body	NR Band n77	100	H	1498M	1:1	0.09	3930.00	662000	CW/SRS	18.0	16.41	Back	5	0.354	1.442	0.510	0.319		20.9	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT												Body								
Spatial Peak												1.6 W/kg (mW/g)								
Uncontrolled Exposure/General Population												averaged over 1 gram								

Table 12-106 | Ant K – Open

Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n77	100	K	1498M	1:1	-0.06	3750.00	650000	CW/SRS	18.0	17.29	Front	5	0.152	1.178	0.179	0.112		25.4	23.6
Body	NR Band n77	100	K	1498M	1:1	-0.03	3750.00	650000	CW/SRS	18.0	17.29	Top	5	0.137	1.178	0.161	0.101		25.9	
Body	NR Band n77	100	K	1498M	1:1	0.03	3750.00	650000	CW/SRS	18.0	17.29	Right	5	0.005	1.178	0.006	0.004		40.3	
Body-worn/Body	NR Band n77 DoD	100	K	1498M	1:1	0.04	3500.01	633334	CW/SRS	18.0	17.96	Back	5	0.115	1.009	0.116	0.073		27.3	
Body-worn/Body	NR Band n77	100	K	1498M	1:1	-0.07	3750.00	650000	CW/SRS	18.0	17.29	Back	5	0.232	1.178	0.273	0.171		23.6	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT										Body										
Spatial Peak										1.6 W/kg (mW/g)										
Uncontrolled Exposure/General Population										averaged over 1 gram										

Table 12-107 | Ant C – Open

Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n77	100	C	1423M	1:1	-0.09	3750.00	650000	CW/SRS	18.0	16.97	Front	5	0.197	1.268	0.250	0.156		24.0	20.3
Body	NR Band n77	100	C	1423M	1:1	0.08	3750.00	650000	CW/SRS	18.0	16.97	Bottom	5	0.026	1.268	0.033	0.021		32.8	
Body	NR Band n77 DoD	100	C	1423M	1:1	-0.03	3500.01	633334	CW/SRS	18.0	17.77	Left	5	0.520	1.054	0.548	0.343		20.6	
Body	NR Band n77	100	C	1423M	1:1	-0.08	3750.00	650000	CW/SRS	18.0	16.97	Left	5	0.464	1.268	0.588	0.368		20.3	
Body	NR Band n77	100	C	1423M	1:1	0.05	3930.00	662000	CW/SRS	18.0	16.18	Left	5	0.211	1.521	0.321	0.201		22.9	
Body-worn/Body	NR Band n77	100	C	1498M	1:1	-0.14	3750.00	650000	CW/SRS	18.0	16.97	Back	5	0.378	1.268	0.479	0.299		21.1	
Body-worn/Body	NR Band n77	100	C	1498M	1:1	0.00	3930.00	662000	CW/SRS	18.0	16.18	Back	5	0.132	1.521	0.201	0.126		24.9	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT										Body										
Spatial Peak										1.6 W/kg (mW/g)										
Uncontrolled Exposure/General Population										averaged over 1 gram										

Table 12-108 | Ant F – Closed

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	NR Band n77	100	QPSK	F	1500M	1:1	-0.04	3750.00	650000	DFT-s-OFDM	0.0	18.0	17.22	1	1	Front	5	0.412	1.197	0.493	0.308		21.0	
Body	NR Band n77	100	QPSK	F	1500M	1:1	0.10	3930.00	662000	DFT-s-OFDM	0.0	18.0	16.48	1	1	Front	5	0.414	1.419	0.587	0.367		20.3	
Body	NR Band n77	100	QPSK	F	1500M	1:1	0.18	3750.00	650000	DFT-s-OFDM	0.0	18.0	16.97	135	0	Front	5	0.178	1.268	0.479	0.299		21.1	
Body	NR Band n77	100	QPSK	F	1500M	1:1	-0.08	3930.00	662000	DFT-s-OFDM	0.0	18.0	16.16	135	0	Front	5	0.369	1.466	0.312	0.120		20.3	
Body	NR Band n77	100	QPSK	F	1500M	1:1	-0.01	3750.00	650000	DFT-s-OFDM	0.0	18.0	17.22	1	1	Bottom	5	0.267	1.197	0.320	0.200		22.9	
Body	NR Band n77	100	QPSK	F	1500M	1:1	0.10	3750.00	650000	DFT-s-OFDM	0.0	18.0	16.97	135	0	Bottom	5	0.240	1.268	0.384	0.190		23.1	
Body	NR Band n77 DoD	100	QPSK	F	1500M	1:1	-0.09	3500.01	633334	DFT-s-OFDM	0.0	18.0	17.99	1	271	Left	5	0.468	1.151	0.327	0.129		20.7	
Body	NR Band n77	100	QPSK	F	1500M	1:1	-0.05	3750.00	650000	DFT-s-OFDM	0.0	18.0	17.22	1	1	Left	5	0.457	1.197	0.547	0.342		20.6	
Body	NR Band n77	100	QPSK	F	1500M	1:1	0.00	3930.00	662000	DFT-s-OFDM	0.0	18.0	16.48	1	1	Left	5	0.357	1.419	0.750	0.494		19.0	
Body	NR Band n77	100	QPSK	F	1500M	1:1	-0.08	3750.00	650000	DFT-s-OFDM	0.0	18.0	16.97	135	0	Left	5	0.433	1.268	0.549	0.343		20.6	
Body	NR Band n77	100	QPSK	F	1500M	1:1	0.03	3930.00	662000	DFT-s-OFDM	0.0	18.0	16.16	135	0	Left	5	0.538	1.466	0.789	0.493		19.0	
Body	NR Band n77	100	QPSK	F	1500M	1:1	0.00	3750.00	650000	CP-OFDM	0.0	18.0	17.22	1	1	Left	5	0.465	1.153	0.536	0.335		20.7	
Body-worn/Body	NR Band n77	100	QPSK	F	1500M	1:1	0.09	3750.00	650000	DFT-s-OFDM	0.0	18.0	17.22	1	1	Back	5	0.072	1.197	0.086	0.054		28.5	
Body-worn/Body	NR Band n77	100	QPSK	F	1500M	1:1	0.03	3750.00	650000	DFT-s-OFDM	0.0	18.0	16.97	135	0	Back	5	0.048	1.268	0.061	0.038		30.1	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT												Body												
Spatial Peak												1.6 W/kg (mW/g)												
Uncontrolled Exposure/General Population												averaged over 1 gram												

Table 12-109 | Ant H – Closed

Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n77	100	H	1498M	1:1	-0.05	3750.00	650000	CW/SRS	18.0	17.31	Front	5	0.253	1.172	0.297	0.186		23.2	
Body	NR Band n77	100	H	1498M	1:1	0.03	3750.00	650000	CW/SRS	18.0	17.31	Bottom	5	0.048	1.172	0.056	0.035		30.4	
Body	NR Band n77 DoD	100	H	1498M	1:1	0.03	3500.01	633334	CW/SRS	18.0	17.98	Right	5	0.126	1.005	0.127	0.079		26.9	
Body	NR Band n77	100	H	1498M	1:1	-0.05	3750.00	650000	CW/SRS	18.0	17.31	Right	5	0.397	1.172	0.465	0.291		21.3	19.9
Body	NR Band n77	100	H	1498M	1:1	-0.04	3930.00	662000	CW/SRS	18.0	16.41	Right	5	0.438	1.442	0.632	0.395		19.9	
Body-worn/Body	NR Band n77	100	H	1498M	1:1	-0.13	3750.00	650000	CW/SRS	18.0	17.31	Back	5	0.012	1.172	0.014	0.009		36.5	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT										Body										
Spatial Peak										1.6 W/kg (mW/g)										
Uncontrolled Exposure/General Population										averaged over 1 gram										

Table 12-110 | Ant K – Closed

Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]
Body	NR Band n77 DoD	100	K	1498M	1:1	-0.01	3500.01	633334	CW/SRS	18.0	17.96	Front	5	0.101	1.009	0.102	0.064		27.9	24.9
Body	NR Band n77	100	K	1498M	1:1	-0.14	3750.00	650000	CW/SRS	18.0	17.29	Front	5	0.173	1.178	0.204	0.128		24.9	
Body	NR Band n77	100	K	1498M	1:1	-0.12	3750.00	650000	CW/SRS	18.0	17.29	Bottom	5	0.122	1.178	0.144	0.090		26.4	
Body	NR Band n77	100	K	1498M	1:1	0.03	3750.00	650000	CW/SRS	18.0	17.29	Right	5	0.008	1.178	0.009	0.006		38.2	
Body-worn/Body	NR Band n77	100	K	1498M	1:1	0.03	3750.00	650000	CW/SRS	18.0	17.29	Back	5	0.016	1.178	0.019	0.012		35.2	
ANS/IEEE C95.1 1992 - SAFETY LIMIT																				
Spatial Peak														Body						
Uncontrolled Exposure/General Population														1.6 W/kg (mW/g) averaged over 1 gram						

Table 12-111 | Ant C – Closed

Table 12 - Part 68 Class B																					
Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	Max Allowed P[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)	Pk1 #	Pk1mt [dtm]	Overall Pk1mt [dtm]	
Body	NR Band n77	100	C	1423M	1:1	-0.15	3750.00	650000	CW/SRS	18.0	16.97	Front	5	0.088	1.268	0.112	0.070		27.5	21.5	
Body	NR Band n77	100	C	1423M	1:1	0.01	3750.00	650000	CW/SRS	18.0	16.97	Top	5	0.021	1.268	0.027	0.017		33.7		
Body	NR Band n77	100	C	1423M	1:1	0.01	3750.00	650000	CW/SRS	18.0	16.97	Bottom	5	0.015	1.268	0.019	0.012		35.2		
Body	NR Band n77 DoD	100	C	1423M	1:1	-0.01	3500.01	613334	CW/SRS	18.0	17.77	Left	5	0.419	1.054	0.442	0.276		21.5		
Body	NR Band n77	100	C	1423M	1:1	0.024	3750.00	650000	CW/SRS	18.0	16.97	Left	5	0.240	1.054	0.242	0.214		22.6		
Body-worn/Body	NR Band n77	100	C	1423M	1:1	-0.13	3750.00	650000	CW/SRS	18.0	16.97	Back	5	0.168	1.268	0.133	0.133		24.7		
ANSI/IEEE C95.1 1992 - SAFETY LIMIT													Body								
Spatial Peak													1.6 W/kg (mW/g)								
Uncontrolled Exposure General Population													unrestricted user 1.0 m								

12.18 2.4 GHz WIFI SISO Standalone SAR

Table 12-112 | Ant G – Open | Plot A45

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	Cycle Duty Cycle	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plot [dBm]	Overall Plot [dBm]
Head	2.4 GHz WUFI / IEEE 802.11b	22	DSSS	G	00618M	98.99	-0.11	2432.00	1	1.0	18.5	17.96	Right Cheek	0	0.985	1.132	1.010	1.126	0.704	Plot	17.9	17.9
Head	2.4 GHz WUFI / IEEE 802.11b	22	DSSS	G	00618M	98.99	-0.06	2432.00	6	1.0	18.5	17.64	Right Cheek	0	0.813	1.129	1.010	1.001	0.636		18.4	18.4
Head	2.4 GHz WUFI / IEEE 802.11b	22	DSSS	G	00618M	98.99	0.02	2462.00	11	1.0	18.5	18.18	Right Cheek	0	0.857	1.076	1.010	0.911	0.582		18.8	18.8
Head	2.4 GHz WUFI / IEEE 802.11b	22	DSSS	G	00618M	98.99	0.01	2432.00	1	1.0	18.5	17.96	Right Tib	0	0.853	1.132	1.010	0.975	0.609		18.6	18.6
Head	2.4 GHz WUFI / IEEE 802.11b	22	DSSS	G	00618M	98.99	-0.04	2432.00	6	1.0	18.5	17.64	Right Tib	0	0.777	1.219	1.010	0.950	0.584		18.7	17.9
Head	2.4 GHz WUFI / IEEE 802.11b	22	DSSS	G	00618M	98.99	-0.06	2462.00	11	1.0	18.5	18.18	Right Tib	0	0.814	1.076	1.010	0.885	0.553		19.0	19.0
Head	2.4 GHz WUFI / IEEE 802.11b	22	DSSS	G	00618M	98.99	0.06	2462.00	11	1.0	18.5	18.18	Left Cheek	0	0.408	1.076	1.010	0.443	0.277		22.0	22.0
Head	2.4 GHz WUFI / IEEE 802.11b	22	DSSS	G	00618M	98.99	-0.21	2462.00	11	1.0	18.5	18.18	Left Tib	0	0.391	1.076	1.010	0.425	0.366		21.2	21.2
ANSI/IEEE C63.1-1992 - SAFETY LIMIT																Head						
Spatial Peak																1.6 W/kg (mW/g)						
Uncontrolled Exposure (General Population)																0.08 W/kg (mW/g)						

Table 12-113 | Ant C – Open

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)	Pilot #	Pilot [dBm]	Overall P10m [dBm]
Head	2.4 GHz WiFi / IEEE 802.11n	22	DSSS	C	006BM	98.65	-0.09	2462.00	11	1.0	18.5	-18.49	Right Cheek	0	0.004	1.002	1.014	0.024	0.015		34.6	
Head	2.4 GHz WiFi / IEEE 802.11n	22	DSSS	C	006BM	98.65	-0.04	2462.00	11	1.0	18.5	-18.49	Right Tit	0	0.006	1.002	1.014	0.016	0.010		36.3	30.7
Head	2.4 GHz WiFi / IEEE 802.11n	22	DSSS	C	006BM	98.65	-0.01	2462.00	11	1.0	18.5	-18.49	Left Cheek	0	0.019	1.002	1.014	0.060	0.038		30.7	
Head	2.4 GHz WiFi / IEEE 802.11n	22	DSSS	C	006M	98.65	-0.01	2462.00	11	1.0	18.5	-18.49	Left Tit	0	0.015	1.002	1.014	0.015	0.009		36.6	
ANSI/IEEE C95.1-1992 - SAFETY LIMIT												Spatial Peak										
Uncontrolled Field Strength (General Population)																Head						
																1.6 W/kg (mW/g)						

Table 12-114 | Ant G – Open

ure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	PLimit [dBm]	Overall PLimit [dBm]
Body	2.4 GHz Wi-Fi / IEEE 802.11b	22	DSSS	G	0068M	98.99	0.13	2462.00	11	1.0	20.0	19.80	Front	5	0.666	1.047	1.010	0.704	0.440	21.5		
Body	2.4 GHz Wi-Fi / IEEE 802.11b	22	DSSS	G	0068M	98.99	0.01	2462.00	11	1.0	20.0	19.80	Top	5	0.750	1.047	1.010	0.793	0.496	21.0		
Body	2.4 GHz Wi-Fi / IEEE 802.11b	22	DSSS	98.99	0.01	2462.00	11	1.0	20.0	19.80	Left	5	0.484	1.047	1.010	0.512	0.320	21.9			21.0	
Body worn/Body	2.4 GHz Wi-Fi / IEEE 802.11b	22	DSSS	98.99	0.06	2462.00	11	1.0	20.0	19.80	Back	5	0.438	1.047	1.010	0.461	0.288	23.1			23.1	
ANSI/IEEE C95.1-1992 - SAFETY LIMIT																Body						
Spatial Peak																1.6 W/kg (mW/g)						
Uncontrolled Frequency (General Population)																0.4 W/kg (mW/g) 10 gram						

Table 12-115 | Ant C – Open | Plot A46

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	PLimit [dBm]	Overall PLimit [dBm]
Body	2.4 GHz Wi-Fi / IEEE 802.11n	22	DSSS	C	0068M	98.65	-0.07	2462.00	11	1.0	20.0	19.91	Front	5	0.6470	1.045	1.014	0.710	0.444		21.4	
Body	2.4 GHz Wi-Fi / IEEE 802.11n	22	DSSS	C	0068M	98.65	0.00	2462.00	11	1.0	20.0	19.91	Bottom	5	0.186	1.045	1.014	0.187	0.123		27.0	
Body	2.4 GHz Wi-Fi / IEEE 802.11n	22	DSSS	C	0068M	98.65	-0.06	2412.00	1	1.0	20.0	19.80	Left	5	0.942	1.047	1.014	1.000	0.625		20.0	
Body	2.4 GHz Wi-Fi / IEEE 802.11n	22	DSSS	C	0068M	98.65	-0.05	2437.00	6	1.0	20.0	19.68	Left	5	1.000	1.076	1.014	1.119	0.723		19.3	19.3
Body	2.4 GHz Wi-Fi / IEEE 802.11n	22	DSSS	C	0068M	98.65	0.00	2462.00	5	1.0	20.0	19.81	Left	5	0.183	1.045	1.014	0.186	0.138		20.6	
Body-worn/Body	2.4 GHz Wi-Fi / IEEE 802.11n	22	DSSS	C	0068M	98.65	-0.01	2412.00	1	1.0	20.0	19.80	Back	5	0.792	1.047	1.014	0.841	0.526		20.7	
Body-worn/Body	2.4 GHz Wi-Fi / IEEE 802.11n	22	DSSS	C	0068M	98.65	0.00	2437.00	6	1.0	20.0	19.68	Back	5	0.867	1.076	1.014	0.946	0.593		20.2	
Body-worn/Body	2.4 GHz Wi-Fi / IEEE 802.11n	22	DSSS	C	0068M	98.65	-0.05	2462.00	11	1.0	20.0	19.91	Back	5	0.992	1.045	1.014	0.951	0.637		19.7	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT																				Body		
Spatial Peak														1.6 W/g (mW/g)								
Uncontrolled Frequency (General Population)																				1.6 W/g (mW/g)		

Table 12-116 | Ant G – Closed

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimt [dBm]	Overall Plimt [dBm]
Body	2.4 GHz Wi-Fi / IEEE 802.11b	22	DSSS	G	0068M	98.99	-0.07	2462.00	11	1.0	20.0	19.80	Front	5	0.284	1.047	1.010	0.300	0.188		25.2	
Body	2.4 GHz Wi-Fi / IEEE 802.11b	22	DSSS	G	0068M	98.99	-0.02	2462.00	11	1.0	20.0	19.80	Bottom	5	0.498	1.047	1.010	0.527	0.329		22.7	
Body	2.4 GHz Wi-Fi / IEEE 802.11b	22	DSSS	G	0068M	98.99	0.05	2462.00	11	1.0	20.0	19.80	Left	5	0.338	1.047	1.010	0.357	0.223		24.4	22.7
Body-worn/Body	2.4 GHz Wi-Fi / IEEE 802.11b	22	DSSS	G	0068M	98.99	-0.00	2462.00	11	1.0	20.0	19.80	Back	5	0.324	1.047	1.010	0.331	0.082		28.8	
ANSI/IEEE C95.1-1992 - SAFETY LIMIT																Body						
Spatial Peak																1.6 W/kg (mW/g)						
Uncontrolled Frequency (General Population)																1.6 W/kg (mW/g)						

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Document S/N: 1M2603110020-01.A3L (Rev1)	DUT Type: Portable Handset	This report is Blockchain Verified. To verify the report authenticity, please visit HTTPS://WWW.BLOCKCHAIN-VERIFIED.COM or by clicking on the Blockchain logo. 	Page 144 of 171



Table 12-117 | Ant C – Closed | Plot A47

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	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 Pline [dBm]
Body	2.4 GHz WIF/ IEEE 802.11b	22	DSSS	C	0068M	98.65	0.03	2462.00	11	1.0	20.0	19.81	Front	5	0.056	1.045	1.014	0.059	0.037	19.4	32.2	
Body	2.4 GHz WIF/ IEEE 802.11b	22	DSSS	C	0068M	98.65	0.02	2462.00	11	1.0	20.0	19.81	Top	5	0.057	1.045	1.014	0.059	0.038		31.4	
Body	2.4 GHz WIF/ IEEE 802.11b	22	DSSS	C	0068M	98.65	0.01	2412.00	1	1.0	20.0	19.80	Left	5	0.064	1.047	1.014	0.917	0.573		20.3	
Body	2.4 GHz WIF/ IEEE 802.11b	22	DSSS	C	0068M	98.65	0.01	2437.00	6	1.0	20.0	19.68	Left	5	0.049	1.076	1.014	1.035	0.647		19.8	
Body	2.4 GHz WIF/ IEEE 802.11b	22	DSSS	C	0068M	98.65	0.05	2462.00	11	1.0	20.0	19.81	Left	5	1.070	1.045	1.014	1.134	0.702		19.4	
Body	2.4 GHz WIF/ IEEE 802.11b	22	DSSS	C	0068M	98.65	0.01	2412.00	1	1.0	20.0	19.80	Back	5	0.063	1.047	1.014	0.704	0.440		21.5	
Body-worn/Body	2.4 GHz WIF/ IEEE 802.11b	22	DSSS	C	0068M	98.65	-0.02	2437.00	6	1.0	20.0	19.68	Back	5	0.791	1.076	1.014	0.863	0.539		20.6	
Body-worn/Body	2.4 GHz WIF/ IEEE 802.11b	22	DSSS	C	0068M	98.65	-0.01	2462.00	11	1.0	20.0	19.81	Back	5	0.919	1.045	1.014	1.031	0.644		19.8	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT															Spatial Peak Uncontrolled Exposure/General Population							
															Body 1.6 W/kg (mW/g) averaged over 1 gram							

Note: Blue entry represents variability measurement

12.19 5 GHz WIFI SISO Standalone SAR

Table 12-118 | Ant F – Open

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Limit [dBm]	Overall Pline [dBm]
Head	5 GHz WIF/ IEEE 802.11ac	80	OFDM	F	0080M	95.82	0.07	5290.00	58	U-NII-2A	29.3	16.0	14.63	Right Cheek	0	0.380	1.371	1.044	0.544	0.340		18.6	
Head	5 GHz WIF/ IEEE 802.11ac	80	OFDM	F	0080M	95.82	0.04	5690.00	138	U-NII-2C	29.3	16.0	15.36	Right Cheek	0	0.560	1.159	1.044	0.678	0.424		17.6	
Head	5 GHz WIF/ IEEE 802.11ac	80	OFDM	F	0080M	95.82	0.01	5775.00	155	U-NII-3	29.3	16.0	15.02	Right Cheek	0	0.462	1.253	1.044	0.604	0.378		18.1	
Head	5 GHz WIF/ IEEE 802.11ac	80	OFDM	F	0080M	95.82	0.08	5855.00	171	U-NII-4	29.3	16.0	14.60	Right Cheek	0	0.320	1.380	1.044	0.562	0.351		18.5	
Head	5 GHz WIF/ IEEE 802.11ac	80	OFDM	F	0080M	95.82	0.02	5290.00	58	U-NII-2A	29.3	16.0	14.63	Right Tilt	0	0.351	1.371	1.044	0.560	0.350		18.5	
Head	5 GHz WIF/ IEEE 802.11ac	80	OFDM	F	0080M	95.82	0.17	5690.00	138	U-NII-2C	29.3	16.0	15.36	Right Tilt	0	0.445	1.159	1.044	0.543	0.339		18.6	
Head	5 GHz WIF/ IEEE 802.11ac	80	OFDM	F	0080M	95.82	0.07	5775.00	155	U-NII-3	29.3	16.0	15.02	Right Tilt	0	0.398	1.253	1.044	0.521	0.326		18.8	
Head	5 GHz WIF/ IEEE 802.11ac	80	OFDM	F	0080M	95.82	-0.12	5855.00	171	U-NII-4	29.3	16.0	14.60	Right Tilt	0	0.207	1.380	1.044	0.442	0.276		19.5	
Head	5 GHz WIF/ IEEE 802.11ac	80	OFDM	F	0080M	95.82	-0.06	5290.00	58	U-NII-2A	29.3	16.0	14.63	Left Cheek	0	0.129	1.371	1.044	0.185	0.116		23.3	
Head	5 GHz WIF/ IEEE 802.11ac	80	OFDM	F	0080M	95.82	0.01	5690.00	138	U-NII-2C	29.3	16.0	15.36	Left Cheek	0	0.184	1.159	1.044	0.223	0.139		22.5	
Head	5 GHz WIF/ IEEE 802.11ac	80	OFDM	F	0080M	95.82	0.17	5775.00	155	U-NII-3	29.3	16.0	15.02	Left Cheek	0	0.138	1.253	1.044	0.181	0.113		23.4	
Head	5 GHz WIF/ IEEE 802.11ac	80	OFDM	F	0080M	95.82	0.02	5855.00	171	U-NII-4	29.3	16.0	14.60	Left Cheek	0	0.105	1.380	1.044	0.151	0.094		24.2	
Head	5 GHz WIF/ IEEE 802.11ac	80	OFDM	F	0080M	95.82	-0.06	5290.00	58	U-NII-2A	29.3	16.0	14.63	Left Tilt	0	0.146	1.371	1.044	0.209	0.131		22.8	
Head	5 GHz WIF/ IEEE 802.11ac	80	OFDM	F	0080M	95.82	-0.09	5690.00	138	U-NII-2C	29.3	16.0	15.36	Left Tilt	0	0.217	1.159	1.044	0.263	0.164		21.8	
Head	5 GHz WIF/ IEEE 802.11ac	80	OFDM	F	0080M	95.82	0.04	5775.00	155	U-NII-3	29.3	16.0	15.02	Left Tilt	0	0.152	1.253	1.044	0.199	0.124		23.0	
Head	5 GHz WIF/ IEEE 802.11ac	80	OFDM	F	0080M	95.82	0.02	5855.00	171	U-NII-4	29.3	16.0	14.60	Left Tilt	0	0.097	1.380	1.044	0.140	0.088		24.5	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT															Spatial Peak Uncontrolled Exposure/General Population								
															Head 1.6 W/kg (mW/g) averaged over 1 gram								

Table 12-119 | Ant I – Open | Plot A48

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Limit [dBm]	Overall Pline [dBm]
Head	5 GHz WIFU / IEEE 802.11ac	80	OFDM	I	1519M	95.91	0.16	5290.00	58	U-NII-2A	29.3	16.0	15.70	Right Cheek	0	0.104	1.072	1.043	0.116	0.073		25.3	
Head	5 GHz WIFU / IEEE 802.11ac	80	OFDM	I	1519M	95.91	0.09	5690.00	138	U-NII-2C	29.3	16.0	15.79	Right Cheek	0	0.155	1.050	1.043	0.170	0.106		23.7	
Head	5 GHz WIFU / IEEE 802.11ac	80	OFDM	I	1519M	95.91	-0.11	5775.00	155	U-NII-3	29.3	16.0	15.29	Right Cheek	0	0.136	1.153	1.043	0.162	0.101		23.8	
Head	5 GHz WIFU / IEEE 802.11ac	80	OFDM	I	1519M	95.91	0.05	5855.00	171	U-NII-4	29.3	16.0	15.02	Right Cheek	0	0.131	1.253	1.043	0.171	0.107		23.6	
Head	5 GHz WIFU / IEEE 802.11ac	80	OFDM	I	1519M	95.91	0.07	5290.00	58	U-NII-2A	29.3	16.0	15.70	Right Tilt	0	0.030	1.072	1.043	0.031	0.007		35.5	
Head	5 GHz WIFU / IEEE 802.11ac	80	OFDM	I	1519M	95.91	-0.03	5690.00	138	U-NII-2C	29.3	16.0	15.29	Right Tilt	0	0.026	1.050	1.043	0.026	0.004		37.8	
Head	5 GHz WIFU / IEEE 802.11ac	80	OFDM	I	1519M	95.91	0.03	5775.00	155	U-NII-3	29.3	16.0	15.29	Right Tilt	0	0.013	1.153	1.043	0.015	0.003		34.0	
Head	5 GHz WIFU / IEEE 802.11ac	80	OFDM	I	1519M	95.91	0.08	5855.00	171	U-NII-4	29.3	16.0	15.02	Right Tilt	0	0.011	1.253	1.043	0.014	0.009		34.4	
Head	5 GHz WIFU / IEEE 802.11ac	80	OFDM	I	0086M	95.91	-0.02	5290.00	58	U-NII-2A	29.3	16.0	15.70	Left Cheek	0	0.525	1.072	1.043	0.486	0.294		15.8	15.8
Head	5 GHz WIFU / IEEE 802.11ac	80	OFDM	I	0086M	95.91	0.01	5290.00	58	U-NII-2A	29.3	16.0	15.70	Left Cheek	0	0.511	1.072	1.043	1.033	0.945		15.8	
Head	5 GHz WIFU / IEEE 802.11ac	80	OFDM	I	1519M	95.91	-0.05	5690.00	138	U-NII-2C	29.3	16.0	15.79	Left Cheek	0	0.407	1.050	1.043	0.446	0.279		15.5	
Head	5 GHz WIFU / IEEE 802.11ac	80	OFDM	I	0086M	95.91	0.03	5775.00	155	U-NII-3	29.3	16.0	15.29	Left Cheek	0	0.271	1.153	1.043	0.445	0.278		15.5	
Head	5 GHz WIFU / IEEE 802.11ac	80	OFDM	I	0086M	95.91	0.01	5855.00	171	U-NII-4	29.3	16.0	15.02	Left Cheek	0	0.483	1.253	1.043	0.536	0.335		17.9	
Head	5 GHz WIFU / IEEE 802.11ac	80	OFDM	I	0086M	95.91	0.04	5290.00	58	U-NII-2A	29.3	16.0	15.70	Left Tilt	0	0.085	1.072	1.043	0.095	0.059		29.5	
Head	5 GHz WIFU / IEEE 802.11ac	80	OFDM	I	1519M	95.91	0.08	5690.00	138	U-NII-2C	29.3	16.0	15.79	Left Tilt	0	0.031	1.050	1.043	0.036	0.021		30.4	
Head	5 GHz WIFU / IEEE 802.11ac	80	OFDM	I	0086M	95.91	-0.06	5775.00	155	U-NII-3	29.3	16.0	15.29	Left Tilt	0	0.046	1.153	1.043	0.055	0.034		28.5	
Head	5 GHz WIFU / IEEE 802.11ac	80	OFDM	I	0086M	95.91	0.04	5855.00	171	U-NII-4	29.3	16.0	15.02	Left Tilt	0	0.065	1.253	1.043	0.085	0.053		26.7	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT															Head 1.6 W/kg (mW/g) averaged over 1 gram								
Spatial Peak Uncontrolled Exposure/General Population																							

Note: Blue entry represents variability measurement

Note: Blue entry represents variability measurement

Table 12-120 | Ant F – Open

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Limit [dBm]	Overall Pline [dBm]		
Body	5 GHz WIF/ IEEE 802.11n	40	OFDM	F	0074M	95.53	0.09	5230.00	46	U-NII-1	13.5	18.0	16.87	Front	5	0.189	1.297	1.169	0.293	0.183		23.3			
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	F	0074M	95.82	-0.02	5290.00	58	U-NII-2A	29.3	18.0	16.50	Front	5	0.288	1.413	1.044	0.426	0.268		21.7			
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	F	0074M	95.82	-0.03	5690.00	138	U-NII-2C	29.3	18.0	17.15	Front	5	0.427	1.216	1.044	0.536	0.335		20.7			
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	F	0074M	95.82	0.07	5775.00	155	U-NII-3	29.3	18.0	16.85	Front	5	0.244	1.303	1.044	0.332	0.208		22.7			
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	F	0074M	95.82	0.07	5855.00	171	U-NII-4	29.3	18.0	16.34	Front	5	0.292	1.472	1.044	0.449	0.281		21.6			
Body	5 GHz WIF/ IEEE 802.11n	40	OFDM	F	0074M	95.53	0.02	5230.00	46	U-NII-1	13.5	18.0	16.87	Top	5	0.264	1.297	1.169	0.300	0.200		23.0			
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	F	0074M	95.82	0.10	5290.00	58	U-NII-2A	29.3	18.0	16.50	Top	5	0.295	1.413	1.044	0.435	0.272		21.4			
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	F	0074M	95.82	0.01	5690.00	138	U-NII-2C	29.3	18.0	17.15	Top	5	0.403	1.216	1.044	0.512	0.320		20.9			
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	F	0074M	95.82	0.06	5775.00	155	U-NII-3	29.3	18.0	16.85	Top	5	0.278	1.303	1.044	0.380	0.237		22.2			
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	F	0074M	95.82	0.04	5855.00	171	U-NII-4	29.3	18.0	16.34	Top	5	0.385	1.472	1.044	0.561	0.351		20.5			
Body	5 GHz WIF/ IEEE 802.11n	40	OFDM	F	0074M	95.53	0.04	5190.00	38	U-NII-1	13.5	17.0	16.25	Left	5	0.633	1.189	1.169	0.880	0.550		17.5			
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	F	0074M	95.82	-0.01	5290.00	58	U-NII-2A	29.3	18.0	16.50	Left	5	0.278	1.413	1.044	0.442	0.278		21.7			
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	F	0074M	95.82	0.01	5290.00	58	U-NII-2A	29.3	18.0	16.50	Left	5	0.691	1.413	1.044	1.019	0.637		17.9	17.2		
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	F	1004M	95.82	-0.06	5530.00	106	U-NII-2C	29.3	18.0	16.79	Left	5	0.682	1.334	1.044	0.813	0.507		18.9			
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	F	1004M	95.82	-0.12	5610.00	122	U-NII-2C	29.3	18.0	16.97	Left	5	0.583	1.334	1.044	0.715	0.445		18.4			
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	F	1004M	95.82	0.07	5690.00	138	U-NII-2C	29.3	18.0	17.15	Left	5	0.612	1.216	1.044	0.778	0.486		19.0			
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	F	1519M	95.82	0.04	5775.00	155	U-NII-3	29.3	18.0	16.85	Left	5	0.479	1.303	1.044	0.652	0.408		19.8			
Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	F	1519M	95.82	0.10	5855.00	171	U-NII-4	29.3	18.0	16.34	Left	5	0.647	1.472	1.044	0.847	0.533		18.3			
Body-worn/Body	5 GHz WIF/ IEEE 802.11n	40	OFDM	F	0074M	95.53	-0.13	5230.00	46	U-NII-1	13.5	18.0	16.87	Back	5	0.448	1.297	1.169	0.672	0.420		19.7			
Body-worn/Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	F	0074M	95.82	-0.08	5290.00	58	U-NII-2A	29.3	18.0	16.50	Back	5	0.662	1.413	1.044	0.977	0.611		18.1			
Body-worn/Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	F	0074M	95.82	-0.06	5530.00	106	U-NII-2C	29.3	18.0	16.79	Back	5	0.671	1.334	1.044	0.934	0.584		18.2			
Body-worn/Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	F	0074M	95.82	0.09	5610.00	122	U-NII-2C	29.3	18.0	16.97	Back	5	0.686	1.216	1.044	0.949	0.568		18.4			
Body-worn/Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	F	0074M	95.82	0.04	5690.00	138	U-NII-2C	29.3	18.0	17.15	Back	5	0.713	1.216	1.044	0.905	0.566		18.1			
Body-worn/Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	F	0074M	95.82	0.02	5775.00	155	U-NII-3	29.3	18.0	16.85	Back	5	0.444	1.303	1.044	0.604	0.378		20.1			
Body-worn/Body	5 GHz WIF/ IEEE 802.11ac	80	OFDM	F	0074M	95.82	0.07	5855.00	171	U-NII-4	29.3	18.0	16.34	Back	5	0.655	1.472	1.044	0.899	0.437		19.5			
AND/SEE CP6.1-1992 - SAFETY LIMIT																Body									
Spatial Peak																1.6 W/kg (mW/g)									
Uncontrolled Exposure/General Population																									

Table 12-121 | Ant I – Open

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio [g SAR]	Plot #	Limit [dBm]	Overall Limit [dBm]
Body	5 GHz WFI/IEEE 802.11n	40	OFDM	I	0006M	92.08	0.05	5230.00	46	U-NII-1	13.5	18.0	17.34	Front	5	0.184	1.164	1.086	0.233	0.146	24.3		
Body	5 GHz WFI/IEEE 802.11ac	80	OFDM	I	0074M	95.91	0.05	5290.00	58	U-NII-2A	29.3	18.0	16.90	Front	5	0.430	1.288	1.043	0.564	0.353	20.4		
Body	5 GHz WFI/IEEE 802.11ac	80	OFDM	I	0074M	95.91	-0.14	5690.00	138	U-NII-2C	29.3	18.0	17.19	Front	5	0.290	1.205	1.043	0.364	0.228	22.3		
Body	5 GHz WFI/IEEE 802.11ac	80	OFDM	I	0074M	95.91	0.01	5775.00	155	U-NII-3	29.3	18.0	16.78	Front	5	0.126	1.324	1.043	0.812	0.395	24.3		
Body	5 GHz WFI/IEEE 802.11ac	80	OFDM	I	0074M	95.91	0.09	5855.00	171	U-NII-4	29.3	18.0	16.24	Front	5	0.177	1.500	1.043	0.277	0.173	23.5		
Body	5 GHz WFI/IEEE 802.11n	40	OFDM	I	0006M	92.08	0.04	5230.00	46	U-NII-1	13.5	18.0	17.34	Top	5	0.028	1.164	1.086	0.035	0.022	32.5		
Body	5 GHz WFI/IEEE 802.11ac	80	OFDM	I	0074M	95.91	-0.06	5290.00	58	U-NII-2A	29.3	18.0	16.90	Top	5	0.057	1.288	1.043	0.079	0.044	29.4		
Body	5 GHz WFI/IEEE 802.11ac	80	OFDM	I	0074M	95.91	0.08	5690.00	138	U-NII-2C	29.3	18.0	17.19	Top	5	0.035	1.205	1.043	0.044	0.028	31.5		
Body	5 GHz WFI/IEEE 802.11ac	80	OFDM	I	0074M	95.91	0.01	5775.00	155	U-NII-3	29.3	18.0	16.78	Top	5	0.020	1.324	1.043	0.028	0.018	33.5		
Body	5 GHz WFI/IEEE 802.11ac	80	OFDM	I	0074M	95.91	0.06	5855.00	171	U-NII-4	29.3	18.0	16.24	Top	5	0.014	1.500	1.043	0.022	0.014	34.5		
Body	5 GHz WFI/IEEE 802.11ac	80	OFDM	I	0006M	92.08	0.04	5230.00	46	U-NII-1	13.5	18.0	17.34	Right	5	0.230	1.164	1.086	0.278	0.174	23.5		
Body	5 GHz WFI/IEEE 802.11ac	80	OFDM	I	0074M	95.91	-0.16	5290.00	58	U-NII-2A	29.3	18.0	16.90	Right	5	0.175	1.288	1.043	0.504	0.315	20.9		
Body	5 GHz WFI/IEEE 802.11ac	80	OFDM	I	0074M	95.91	0.03	5690.00	138	U-NII-2C	29.3	18.0	17.19	Right	5	0.402	1.205	1.043	0.505	0.316	20.9		
Body	5 GHz WFI/IEEE 802.11ac	80	OFDM	I	0074M	95.91	-0.05	5775.00	155	U-NII-3	29.3	18.0	16.78	Right	5	0.465	1.393	1.044	0.551	0.344	20.9		
Body	5 GHz WFI/IEEE 802.11ac	80	OFDM	I	0074M	95.91	-0.10	5855.00	171	U-NII-4	29.3	18.0	16.24	Right	5	0.296	1.500	1.043	0.463	0.289	21.3		
Body worn/Body	5 GHz WFI/IEEE 802.11n	40	OFDM	I	0006M	92.08	0.05	5230.00	46	U-NII-1	13.5	18.0	17.34	Back	5	0.230	1.164	1.086	0.251	0.158	23.9		
Body worn/Body	5 GHz WFI/IEEE 802.11ac	80	OFDM	I	0074M	95.91	-0.04	5290.00	58	U-NII-2A	29.3	18.0	16.90	Back	5	0.172	1.288	1.043	0.231	0.144	24.3		
Body worn/Body	5 GHz WFI/IEEE 802.11ac	80	OFDM	I	0074M	95.91	-0.12	5690.00	138	U-NII-2C	29.3	18.0	17.19	Back	5	0.165	1.205	1.043	0.207	0.129	24.9		
Body worn/Body	5 GHz WFI/IEEE 802.11ac	80	OFDM	I	0074M	95.91	0.04	5775.00	155	U-NII-3	29.3	18.0	16.78	Back	5	0.142	1.324	1.043	0.196	0.123	25.0		
Body worn/Body	5 GHz WFI/IEEE 802.11ac	80	OFDM	I	0074M	95.91	0.03	5855.00	171	U-NII-4	29.3	18.0	16.24	Back	5	0.094	1.500	1.043	0.147	0.092	26.3		
AND/IEEE CS5.1.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																						Body 1.6 W/kg (mW/g) averaged over 1 gram	

Table 12-122 | Ant F – Closed | Plot A50

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio [g SAR]	Plot #	Limit [dBm]	Overall Limit [dBm]
Body	5 GHz WFI/IEEE 802.11n	40	OFDM	F	1519M	85.53	-0.19	5190.00	38	U-NII-1	13.5	17.0	16.25	Front	5	0.475	1.199	1.169	0.657	0.411	18.8		
Body	5 GHz WFI/IEEE 802.11ac	80	OFDM	F	1519M	85.53	-0.15	5230.00	46	U-NII-1	13.5	18.0	16.87	Front	5	0.545	1.297	1.169	0.826	0.516	18.8		
Body	5 GHz WFI/IEEE 802.11ac	80	OFDM	F	0074M	95.82	0.16	5290.00	58	U-NII-2A	29.3	18.0	16.50	Front	5	0.626	1.413	1.044	0.923	0.577	18.2		
Body	5 GHz WFI/IEEE 802.11ac	80	OFDM	F	0074M	95.82	-0.16	5690.00	138	U-NII-2C	29.3	18.0	17.15	Front	5	0.957	1.216	1.044	0.756	0.474	19.2		
Body	5 GHz WFI/IEEE 802.11ac	80	OFDM	F	0074M	95.82	-0.05	5775.00	155	U-NII-3	29.3	18.0	16.87	Front	5	0.405	1.393	1.044	0.551	0.344	20.9		
Body	5 GHz WFI/IEEE 802.11ac	80	OFDM	F	0074M	95.82	0.04	5855.00	171	U-NII-4	29.3	18.0	16.32	Front	5	0.232	1.492	1.044	0.357	0.223	22.4		
Body	5 GHz WFI/IEEE 802.11n	40	OFDM	F	1519M	85.53	0.04	5230.00	46	U-NII-1	13.5	18.0	16.87	Bottom	5	0.192	1.297	1.169	0.291	0.182	23.9		
Body	5 GHz WFI/IEEE 802.11ac	80	OFDM	F	0074M	95.82	-0.14	5290.00	58	U-NII-2A	29.3	18.0	16.50	Bottom	5	0.181	1.413	1.044	0.267	0.167	24.9		
Body	5 GHz WFI/IEEE 802.11ac	80	OFDM	F	0074M	95.82	-0.13	5690.00	138	U-NII-2C	29.3	18.0	17.15	Bottom	5	0.143	1.216	1.044	0.435	0.272	21.6		
Body	5 GHz WFI/IEEE 802.11ac	80	OFDM	F	0074M	95.82	0.10	5775.00	155	U-NII-3	29.3	18.0	16.85	Bottom	5	0.283	1.393	1.044	0.385	0.241	22.1		
Body	5 GHz WFI/IEEE 802.11ac	80	OFDM	F	0074M	95.82	0.14	5855.00	171	U-NII-4	29.3	18.0	16.32	Bottom	5	0.217	1.472	1.044	0.295	0.247	22.0		
Body	5 GHz WFI/IEEE 802.11n	40	OFDM	F	1519M	85.53	-0.11	5190.00	38	U-NII-1	13.5	17.0	16.25	Left	5	0.607	1.189	1.169	0.844	0.528	17.7		
Body	5 GHz WFI/IEEE 802.11ac	80	OFDM	F	1519M	85.53	-0.15	5230.00	46	U-NII-1	13.5	18.0	16.87	Left	5	0.719	1.297	1.169	1.120	0.700	17.5		
Body	5 GHz WFI/IEEE 802.11ac	80	OFDM	F	0074M	95.82	-0.14	5290.00	58	U-NII-2A	29.3	18.0	16.50	Left	5	0.413	1.413	1.044	0.601	0.389	18.6		
Body	5 GHz WFI/IEEE 802.11ac	80	OFDM	F	0074M	95.82	0.03	5530.00	106	U-NII-2C	29.3	18.0	16.75	Left	5	0.730	1.334	1.044	1.003	0.627	17.9		
Body	5 GHz WFI/IEEE 802.11ac	80	OFDM	F	0074M	95.82	0.05	5610.00	122	U-NII-2C	29.3	18.0	16.77	Left	5	0.784	1.327	1.044	1.086	0.679	17.6		
Body	5 GHz WFI/IEEE 802.11ac	80	OFDM	F	0074M	95.82	0.11	5690.00	138	U-NII-2C	29.3	18.0	17.15	Left	5	0.867	1.216	1.044	1.126	0.704	17.4		
Body	5 GHz WFI/IEEE 802.11ac	80	OFDM	F	0074M	95.82	-0.17	5690.00	138	U-NII-2C	29.3	18.0	17.15	Left	5	0.917	1.212	1.044	1.125	0.704	17.4		
Body	5 GHz WFI/IEEE 802.11ac	80	OFDM	F	0074M	95.82	-0.08	5775.00	155	U-NII-3	29.3	18.0	16.85	Left	5	0.678	1.393	1.044	0.924	0.578	18.3		
Body	5 GHz WFI/IEEE 802.11ac	80	OFDM	F	0074M	95.82	-0.09	5690.00	138	U-NII-2C	29.3	18.0	17.15	Left	5	0.540	1.472	1.044	0.865	0.539	18.6		
Body worn/Body	5 GHz WFI/IEEE 802.11n	40	OFDM	F	1519M	85.53	0.08	5230.00	46	U-NII-1	13.5	18.0	16.87	Back	5	0.032	1.297	1.169	0.049	0.031	31.1		
Body worn/Body	5 GHz WFI/IEEE 802.11ac	80	OFDM	F	0074M	95.82	0.06	5290.00	58	U-NII-2A	29.3	18.0	16.50	Back	5	0.021	1.413	1.044	0.031	0.019	33.0		
Body worn/Body	5 GHz WFI/IEEE 802.11ac	80	OFDM	F	0074M	95.82	0.09	5690.00	138	U-NII-2C	29.3	18.0	17.15	Back	5	0.046	1.216	1.044	0.058	0.036	30.3		
Body worn/Body	5 GHz WFI/IEEE 802.11ac	80	OFDM	F	0074M	95.82	0.04	5775.00	155	U-NII-3	29.3	18.0	16.85	Back	5	0.037	1.393	1.044	0.050	0.031	30.9		
Body worn/Body	5 GHz WFI/IEEE 802.11ac	80	OFDM	F	0074M	95.82	0.05	5855.00	171	U-NII-4	29.3	18.0	16.32	Back	5	0.024	1.472	1.044	0.037	0.023	32.3		
AND/IEEE CS5.1.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																						Body 1.6 W/kg (mW/g) averaged over 1 gram	

Table 12-123 | Ant I – Closed

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio [g SAR]	Plot #	Limit [dBm]	Overall Limit [dBm]
Body	5 GHz WFI/IEEE 802.11n	40	OFDM	I	0006M	92.08	0.04	5230.00	46	U-NII-1	13.5	18.0	17.34	Front	5	0.164	1.164	1.086	0.207	0.129	24.8		
Body	5 GHz WFI/IEEE 802.11ac	80	OFDM	I	0006M	95.91	0.01	5290.00	58	U-NII-2A	29.3	18.0	16.90	Front	5	0.203	1.288	1.043	0.138	0.086	26.5		
Body	5 GHz WFI/IEEE 802.11ac	80	OFDM	I	0006M	95.91	0.01	5690.00	138	U-NII-2C	29.3	18.0	17.19	Front	5	0.090	1.205	1.043	0.118	0.073	27.3		
Body	5 GHz WFI/IEEE 802.11ac	80	OFDM	I	0006M	95.91	0.07	5775.00	155	U-NII-3	29.3	18.0	16.78	Front	5	0.096	1.324	1.043	0.133	0.083	26.7		
Body	5 GHz WFI/IEEE 802.11ac	80	OFDM	I	0006M	95.91	0.06	5855.00	171	U-NII-4	29.3	18.0	16.24	Front	5	0.099	1.500	1.043	0.155	0.097	26.1		
Body	5 GHz WFI/IEEE 802.11n	40	OFDM	I	0006M	92.08	0.07	5230.00	155	U-NII-1	13.5	18.0	16.78	Top	5	0.015	1.164	1.086	0.019	0.012	35.2		
Body	5 GHz WFI/IEEE 802.11ac	80	OFDM	I	0006M	95.91	0.08	5290.00	58	U-NII-2A	29.3	18.0	16.90	Top	5	0.023	1.288	1.043	0.031	0.019	33.1		
Body	5 GHz WFI/IEEE 802.11ac	80	OFDM	I	0006M	95.91	0.04	5690.00	138	U-NII-2C	29.3	18.0	17.19	Top	5	0.029	1.205	1.043	0.049	0.021	31.0		
Body	5 GHz WFI/IEEE 802.11ac	80	OFDM	I	0006M	95.91	0.03	5775.00	155	U-NII-3	29.3	18.0	16.78	Top	5	0.028	1.324	1.043	0.028	0.018	33.5		
Body	5 GHz WFI/IEEE 802.11ac	80	OFDM	I	0006M	95.91	0.01	5855.00	171	U-NII-4	29.3	18.0	16.24	Top	5	0.039	1.500	1.043	0.030	0.019	32.2		
Body	5 GHz WFI/IEEE 802.11n	40	OFDM	I	0006M	92.08	0.04	5230.00	46	U-NII-1	13.5	18.0	17.34	Bottom	5	0.076	1.164	1.086	0.096	0.060	28.1		
Body	5 GHz WFI/IEEE 802.11ac	80	OFDM	I	0006M	95.91	0.04	5290.00	58	U-NII-2A	29.3	18.0	16.90	Bottom	5	0.051	1.288	1.043	0.051	0.036	27.6		
Body	5 GHz WFI/IEEE 802.11ac	80	OFDM	I	0006M	95.91	0.09	5690.00	138	U-NII-2C	29.3	18.0	17.19	Bottom	5	0.074	1.205	1.043	0.095	0.064	28.5		
Body	5 GHz WFI/IEEE 802.11ac	80	OFDM	I	0006M	95.91	0.19	5775.00	155	U-NII-3	29.3	18.0	16.78	Bottom	5	0.095	1.324	1.043	0.077	0.060	29.1		
Body	5 GHz WFI/IEEE 802.11ac	80	OFDM	I	0006M	95.91	0.11	5855.00	171	U-NII-4	29.3	18.0	16.24	Bottom	5	0.081	1.500	1.043	0.080	0.054	28.6		
Body	5 GHz WFI/IEEE 802.11n	40	OFDM	I	0006M	92.08	0.03	5230.00	46	U-NII-1	13.5	18.0	17.34	Right	5	0.293	1.164	1.086	0.370	0.231	22.3		
Body	5 GHz WFI/IEEE 802.11ac	80	OFDM	I	0006M	95.91	0.05	5290.00	58	U-NII-2A	29.3	18.0	16.90	Right	5	0.411	1.288	1.043	0.552	0.345	20.5		
Body	5 GHz WFI/IEEE 802.11ac	80	OFDM	I	0006M	95.91	0.03	5690.00	138	U-NII-2C	29.3	18.0	17.19	Right	5	0.183	1.205	1.043	0.243	0.153	24.2		
Body	5 GHz WFI/IEEE 802.11ac	80	OFDM	I	0006M	95.91	0.07	5775.00	155	U-NII-3	29.3	18.0	16.78	Right	5	0.181	1.324	1.043	0.526	0.329	20.7		
Body	5 GHz WFI/IEEE 802.11n	40	OFDM	I	0006M	95.91	0.09	5855.00	171	U-NII-4	29.3	18.0	16.24	Right	5	0.235	1.500	1.043	0.588	0.368	20.3		
Body/worn/body	5 GHz WFI/IEEE 802.11n	40	OFDM	I	0006M	92.08	0.01	5230.00	46	U-NII-1	13.5	18.0	17.34	Back	5	0.031	1.164	1.086	0.109	0.056	28.4		
Body/worn/body	5 GHz WFI/IEEE 802.11ac	80	OFDM	I	0006M	95.91	0.08	5290.00	58	U-NII-2A	29.3	18.0	16.90	Back	5	0.105	1.288	1.043	0.136	0.080	26.4		
Body/worn/body	5 GHz WFI/IEEE 802.11ac	80	OFDM	I	0006M	95.91	0.07	5690.00	138	U-NII-2C	29.3	18.0	17.19	Back	5	0.037	1.205	1.043	0.047	0.029	31.3		
Body/worn/body	5 GHz WFI/IEEE 802.11ac	80	OFDM	I	0006M	95.91	0.05	5775.00	155	U-NII-3	29.3	18.0	16.78	Back	5	0.041	1.324	1.043	0.063	0.036	30.4		
Body/worn/body	5 GHz WFI/IEEE 802.11ac	80	OFDM	I	0006M	95.91	0.01	5855.00	171	U-NII-4	29.3	18.0	16.24	Back	5	0.060	1.500	1.043	0.064	0.039	30.0		
AND/IEEE CPS-1, CPS-1.2, CPS-1.2.2 SAFETY LIMIT																Body							
Spatial Peak																Body							
Uncontrolled Exposure/General Population																Exposure Limit		1.6 W/mg (mW/g)					
																Exposure Limit		averaged over 10 min					



Table 12-125 | MIMO – Open | Plot A49

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NI band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	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 #	Pinch [dBm]	Overall Pinch [dBm]
Body	5 GHz WUFI / IEEE 802.11a	40	OFDM	MIMO	0080M	87.89	-0.03	5230.00	46	U-NI-1	27.0	18.0	16.49	18.0	16.99	Front	5	0.277	1.416	1.138	0.446	0.279	21.5		
Body	5 GHz WUFI / IEEE 802.11a	80	OFDM	MIMO	0074M	92.53	-0.02	5290.00	58	U-NI-2A	58.5	18.0	17.89	18.0	17.89	Front	5	0.255	1.205	1.081	0.697	0.436	19.5		
Body	5 GHz WUFI / IEEE 802.11a	80	OFDM	MIMO	0080M	92.53	0.05	5690.00	138	U-NI-2C	58.5	18.0	17.89	18.0	17.36	Front	5	0.315	1.159	1.081	0.935	0.247	22.0		
Body	5 GHz WUFI / IEEE 802.11a	80	OFDM	MIMO	0074M	92.53	-0.08	5775.00	155	U-NI-3	58.5	18.0	17.96	18.0	17.53	Front	5	0.279	1.250	1.081	0.384	0.176	23.5		
Body	5 GHz WUFI / IEEE 802.11a	80	OFDM	MIMO	0074M	92.53	0.01	5855.00	171	U-NI-4	58.5	18.0	17.89	18.0	17.01	Front	5	0.247	1.250	1.081	0.336	0.209	22.7		
Body	5 GHz WUFI / IEEE 802.11a	40	OFDM	MIMO	0080M	87.89	-0.19	5230.00	46	U-NI-1	27.0	18.0	16.49	18.0	16.99	Top	5	0.300	1.416	1.138	0.483	0.302	21.1		
Body	5 GHz WUFI / IEEE 802.11a	80	OFDM	MIMO	0074M	92.53	-0.06	5290.00	58	U-NI-2A	58.5	18.0	17.89	18.0	17.19	Top	5	0.328	1.205	1.081	0.427	0.287	21.6		
Body	5 GHz WUFI / IEEE 802.11a	80	OFDM	MIMO	0080M	92.53	-0.10	5690.00	138	U-NI-2C	58.5	18.0	17.89	18.0	17.36	Top	5	0.354	1.159	1.081	0.444	0.278	21.5		
Body	5 GHz WUFI / IEEE 802.11a	80	OFDM	MIMO	0074M	92.53	-0.04	5775.00	155	U-NI-3	58.5	18.0	17.86	18.0	17.53	Top	5	0.262	1.114	1.081	0.316	0.198	23.0		
Body	5 GHz WUFI / IEEE 802.11a	80	OFDM	MIMO	0074M	92.53	-0.20	5855.00	171	U-NI-4	58.5	18.0	17.58	18.0	17.03	Top	5	0.243	1.250	1.081	0.312	0.195	23.0		
Body	5 GHz WUFI / IEEE 802.11a	80	OFDM	MIMO	0080M	87.89	-0.08	5230.00	46	U-NI-1	27.0	18.0	16.49	18.0	16.99	Right	5	0.335	1.416	1.138	0.533	0.383	20.7		
Body	5 GHz WUFI / IEEE 802.11a	80	OFDM	MIMO	0074M	92.53	-0.03	5290.00	58	U-NI-2A	58.5	18.0	17.89	18.0	17.19	Right	5	0.348	1.205	1.081	0.558	0.369	20.5		
Body	5 GHz WUFI / IEEE 802.11a	80	OFDM	MIMO	0080M	92.53	-0.03	5690.00	138	U-NI-2C	58.5	18.0	17.89	18.0	17.36	Right	5	0.328	1.159	1.081	0.508	0.289	21.3		
Body	5 GHz WUFI / IEEE 802.11a	80	OFDM	MIMO	0074M	92.53	-0.11	5775.00	155	U-NI-3	58.5	18.0	17.86	18.0	17.53	Right	5	0.303	1.114	1.081	0.420	0.266	21.7		
Body	5 GHz WUFI / IEEE 802.11a	80	OFDM	MIMO	0074M	92.53	0.02	5855.00	171	U-NI-4	58.5	18.0	17.58	18.0	17.03	Right	5	0.294	1.250	1.081	0.397	0.248	22.0		
Body	5 GHz WUFI / IEEE 802.11a	40	OFDM	MIMO	1400M	87.89	-0.07	5180.00	38	U-NI-1	27.0	17.0	15.43	17.0	15.37	Left	5	0.581	1.442	1.138	0.923	0.576	17.3		
Body	5 GHz WUFI / IEEE 802.11a	40	OFDM	MIMO	0080M	87.89	0.05	5230.00	46	U-NI-1	27.0	18.0	16.49	18.0	16.99	Left	5	0.646	1.416	1.138	1.039	0.649	17.8		
Body	5 GHz WUFI / IEEE 802.11a	80	OFDM	MIMO	1400M	92.53	-0.07	5290.00	58	U-NI-2A	58.5	18.0	17.99	18.0	17.19	Left	5	0.646	1.205	1.081	0.725	0.467	19.4		
Body	5 GHz WUFI / IEEE 802.11a	80	OFDM	MIMO	1400M	92.53	-0.05	5330.00	106	U-NI-2C	58.5	18.0	17.53	18.0	17.37	Left	5	0.680	1.156	1.081	0.855	0.551	18.7		
Body	5 GHz WUFI / IEEE 802.11a	80	OFDM	MIMO	1400M	92.53	-0.05	5610.00	122	U-NI-2C	58.5	18.0	17.46	18.0	17.36	Left	5	0.570	1.186	1.081	0.738	0.457	19.3		
Body	5 GHz WUFI / IEEE 802.11a	80	OFDM	MIMO	1400M	92.53	-0.06	5690.00	138	U-NI-2C	58.5	18.0	17.58	18.0	17.36	Left	5	0.602	1.250	1.081	0.866	0.528	20.1		
Body	5 GHz WUFI / IEEE 802.11a	80	OFDM	MIMO	1400M	92.53	-0.04	5775.00	155	U-NI-3	58.5	18.0	17.86	18.0	17.53	Left	5	0.575	1.114	1.081	0.692	0.453	19.5		
Body	5 GHz WUFI / IEEE 802.11a	80	OFDM	MIMO	1400M	92.53	-0.14	5855.00	171	U-NI-4	58.5	18.0	17.58	18.0	17.03	Left	5	0.547	1.250	1.081	0.689	0.283	21.2		
Body worn/Body	5 GHz WUFI / IEEE 802.11a	40	OFDM	MIMO	0080M	87.89	0.05	5230.00	46	U-NI-1	27.0	18.0	16.49	18.0	16.99	Back	5	0.480	1.416	1.138	0.780	0.494	19.0		
Body worn/Body	5 GHz WUFI / IEEE 802.11a	80	OFDM	MIMO	0074M	92.53	-0.07	5290.00	58	U-NI-2A	58.5	18.0	17.89	18.0	17.19	Back	5	0.518	1.205	1.081	0.664	0.453	19.7		
Body worn/Body	5 GHz WUFI / IEEE 802.11a	80	OFDM	MIMO	0074M	92.53	-0.12	5530.00	106	U-NI-2C	58.5	18.0	17.53	18.0	17.37	Back	5	0.613	1.156	1.081	0.796	0.479	19.1		
Body worn/Body	5 GHz WUFI / IEEE 802.11a	80	OFDM	MIMO	0080M	92.53	0.01	5690.00	138	U-NI-2C	58.5	18.0	17.89	18.0	17.36	Back	5	0.720	1.186	1.081	0.859	0.537	18.8		
Body worn/Body	5 GHz WUFI / IEEE 802.11a	80	OFDM	MIMO	0080M	92.53	0.01	5690.00	138	U-NI-2C	58.5	18.0	17.89	18.0	17.36	Back	5	0.720	1.159	1.081	0.976	0.610	18.1		
Body worn/Body	5 GHz WUFI / IEEE 802.11a	80	OFDM	MIMO	0074M	92.53	-0.11	5775.00	155	U-NI-3	58.5	18.0	17.86	18.0	17.53	Back	5	0.724	1.114	1.081	0.933	0.467	21.8		
Body worn/Body	5 GHz WUFI / IEEE 802.11a	80	OFDM	MIMO	0074M	92.53	-0.09	5855.00	171	U-NI-4	58.5	18.0	17.58	18.0	17.03	Back	5	0.736	1.250	1.081	0.969	0.269	21.9		
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 21 dBm maximum allowed MIMO power shown in the documentation, each antenna transmits at a maximum allowed power of 18 dBm.

Table 12-126 | MIMO – Closed

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NI band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Max Allowed Power (2nd 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 #	Pinch [dBm]	Overall Pinch [dBm]	
Body	5 GHz WUFI / IEEE 802.11a	40	OFDM	MIMO	0080M	87.89	0.02	5180.00	38	U-NI-1	27.0	17.0	15.43	17.0	15.37	Front	5	0.486	1.442	1.138	0.798	0.499	17.9			
Body	5 GHz WUFI / IEEE 802.11a	80	OFDM	MIMO	1151M	87.89	0.06	5290.00	46	U-NI-1	27.0	18.0	16.49	18.0	16.99	Front	5	0.506	1.416	1.138	0.814	0.509	18.3			
Body	5 GHz WUFI / IEEE 802.11a	80	OFDM	MIMO	0074M	92.53	-0.15	5290.00	58	U-NI-2A	58.5	18.0	17.89	18.0	17.19	Front	5	0.551	1.205	1.081	0.718	0.449	19.4			
Body	5 GHz WUFI / IEEE 802.11a	80	OFDM	MIMO	0074M	92.53	-0.03	5290.00	58	U-NI-2A	58.5	18.0	17.89	18.0	17.19	Front	5	0.551	1.205	1.081	0.718	0.449	19.4			
Body	5 GHz WUFI / IEEE 802.11a	80	OFDM	MIMO	0080M	92.53	-0.05	5775.00	155	U-NI-3	58.5	18.0	17.86	18.0	17.53	Front	5	0.600	1.114	1.081	0.725	0.453	19.3			
Body	5 GHz WUFI / IEEE 802.11a	80	OFDM	MIMO	0074M	92.53	0.03	5855.00	171	U-NI-4	58.5	18.0	17.58	18.0	17.03	Front	5	0.538	1.250	1.081	0.657	0.286	21.4			
Body	5 GHz WUFI / IEEE 802.11a	80	OFDM	MIMO	1151M	87.89	0.05	5290.00	46	U-NI-1	27.0	18.0	16.49	18.0	16.99	Top	5	0.524	1.416	1.138	0.823	0.514	18.4			
Body	5 GHz WUFI / IEEE 802.11a	80	OFDM	MIMO	0080M	92.53	0.06	5290.00	58	U-NI-2A	58.5	18.0	17.89	18.0	17.19	Top	5	0.506	1.205	1.081	0.647	0.292	21.2			
Body	5 GHz WUFI / IEEE 802.11a	80	OFDM	MIMO	0080M	92.53	0.03	5690.00	138	U-NI-2C	58.5	18.0	17.89	18.0	17.36	Top	5	0.500	1.159	1.081	0.636	0.264	22.2			
Body	5 GHz WUFI / IEEE 802.11a	80	OFDM	MIMO	0080M	92.53	-0.02	5775.00	155	U-NI-3	58.5	18.0	17.86	18.0	17.53	Top	5	0.509	1.114	1.081	0.628	0.264	22.1			
Body	5 GHz WUFI / IEEE 802.11a	80	OFDM	MIMO	0074M	92.53	0.05	5855.00	171	U-NI-4	58.5	18.0	17.58	18.0	17.03	Top	5	0.523	1.250	1.081	0.631	0.191	33.0			
Body	5 GHz WUFI / IEEE 802.11a	80	OFDM	MIMO	1151M	87.89	-0.02	5290.00	58	U-NI-2A	58.5	18.0	17.89	18.0	17.19	Bottom	5	0.522	1.416	1.138	0.646	0.277	22.0			
Body	5 GHz WUFI / IEEE 802.11a	80	OFDM	MIMO	0074M	92.53	0.01	5290.00	58	U-NI-2A	58.5	18.0	17.89	18.0	17.19	Bottom	5	0.504	1.205	1.081	0.523	0.158	23.5			
Body	5 GHz WUFI / IEEE 802.11a	80	OFDM	MIMO	0074M	92.53	-0.10	5690.00	138	U-NI-2C	58.5	18.0	17.89	18.0	17.36	Bottom	5	0.571	1.159	1.081	0.645	0.291	21.3			
Body	5 GHz WUFI / IEEE 802.11a	80	OFDM	MIMO	0074M	92.53	-0.09	5775.00	155	U-NI-3	58.5	18.0	17.86	18.0	17.53	Bottom	5	0.535	1.114	1.081	0.629	0.188	23.2			
Body	5 GHz WUFI / IEEE 802.11a	80	OFDM	MIMO	0074M	92.53	-0.09	5855.00	171	U-NI-4	58.5	18.0	17.58	18.0	17.03	Bottom	5	0.587	1.250	1.081	0.788	0.243	22.1			
Body	5 GHz WUFI / IEEE 802.11a	80	OFDM	MIMO	0080M	87.89	-0.04	5230.00	46	U-NI-1	27.0	18.0	16.49	18.0	16.99	Back	5	0.528	1.416	1.138	0.820	0.265	22.0			
Body	5 GHz WUFI / IEEE 802.11a	80	OFDM	MIMO	0080M	87.89	-0.04	5290.00	58	U-NI-2A	58.5	18.0	17.89	18.0	17.19	Back	5	0.547	1.205	1.081	0.453	0.283	21.1			
Body	5 GHz WUFI / IEEE 802.11a	80	OFDM	MIMO	0074M	92.53	-0.02	5690.00	138	U-NI-2C	58.5	18.0	17.89	18.0	17.36	Back	5	0.495	1.159	1.081	0.620	0.388	20.2			
Body	5 GHz WUFI / IEEE 802.11a	80	OFDM	MIMO	0074M	92.53	-0.02	5775.00	155	U-NI-3	58.5	18.0	17.86	18.0	17.53	Back	5	0.495	1.114	1.081	0.620	0.388	20.2			
Body	5 GHz WUFI / IEEE 802.11a	80	OFDM	MIMO	0074M	92.53	0.11	5855.00	171	U-NI-4	58.5	18.0	17.58	18.0	17.03	Back	5	0.495	1.250	1.081	0.669	0.418	19.7			
Body	5 GHz WUFI / IEEE 802.11a	80	OFDM	MIMO	0080M	87.89	-0.13	5180.00	38	U-NI-1	27.0	17.0	15.43	17.0	15.37	Left	5	0.397	1.442	1.138	0.814	0.497	18.8			
Body	5 GHz WUFI / IEEE 802.11a	80	OFDM	MIMO	0080M	87.89	-0.08	5290.00	46	U-NI-1	27.0	18.0	16.49	18.0	16.99	Left	5	0.372	1.416	1.138	0.820	0.488	18.3			
Body	5 GHz WUFI / IEEE 802.11a	80	OFDM	MIMO	0080M	92.53	-0.06	5290.00	58	U-NI-2A	58.5	18.0	17.89	18.0	17.19	Left	5	0.615	1.205	1.081	0.801	0.501	18.8			
Body	5 GHz WUFI / IEEE 802.11a	80	OFDM	MIMO	0074M	92.53	-0.05	5690.00	138	U-NI-2C	58.5	18.0	17.89	18.0	17.36	Left	5	0.578	1.156	1.081	0.801	0.488	18.3			
Body	5 GHz WUFI / IEEE 802.11a	80	OFDM	MIMO	0074M	92.53	-0.05	5775.00	155	U-NI-3	58.5	18.0	17.86	18.0	17.53	Left	5	0.578	1.114	1.081	0.801	0.488	18.3			
Body	5 GHz WUFI / IEEE 802.11a	80	OFDM	MIMO	0074M	92.53	-0.05	5855.00	171	U-NI-4	58.5	18.0	17.58	18.0	17.03	Left	5	0.615	1.250	1.081	0.801	0.488	18.3			
Body	5 GHz WUFI / IEEE 802.11a	80	OFDM	MIMO	0080M	87.89	-0.03	5230.00	46	U-NI-1	27.0	18.0	16.49	18.0	16.99	Right	5	0.504	1.416	1.138	0.808	0.502	18.0			
Body	5 GHz WUFI / IEEE 802.11a	80	OFDM	MIMO	0080M	87.89	-0.03	5290.00	58	U-NI-2A	58.5	18.0	17.89	18.0	17.19	Right	5	0.523	1.205	1.081	0.814	0.509	18.3			
Body	5 GHz WUFI / IEEE 802.11a	80	OFDM	MIMO	0074M	92.53	0.09	5690.00	138	U-NI-2C	58.5	18.0	17.89	18.0	17.36	Right	5	0.500	1.159	1.081	0.676	0.047	29.2			
Body	5 GHz WUFI / IEEE 802.11a	80	OFDM	MIMO	0080M	92.53	0.08	5775.00	155	U-NI-3	58.5	18.0	17.86	18.0	17.53	Right	5	0.671	1.114	1.081	0.806	0.054	29.6			
Body	5 GHz WUFI / IEEE 802.11a	80	OFDM	MIMO	0074M	92.53	0.09	5855.00	171	U-NI-4	58.5	18.0	17.58	18.0	17.03	Right	5	0.594	1.250	1.081	0.804	0.044	29.1			
ANSI/IEEE C95.1-1992 - SAFETY LIMIT																		1.6 W/kg (avg/1g)		Body averaged over 1.0gm						
Uncontrolled Exposure/General Population																										

Table 12-128 | Ant I – Open | Plot A51

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NR 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	6 GHz W/F/ IEEE 802.11ax	80	OFDM	I	0077M	98.66	-0.01	6465.00	303	U-NR-6	34.0	16.0	14.97	Right Cheek	0	0.134	1.268	1.014	0.172	0.108		23.6	
Head	6 GHz W/F/ IEEE 802.11ax	80	OFDM	I	0077M	98.66	-0.01	6465.00	303	U-NR-6	34.0	16.0	14.97	Right Tilt	0	0.005	1.268	1.014	0.006	0.004		37.9	
Head	6 GHz W/F/ IEEE 802.11ax	80	OFDM	I	0077M	98.66	-0.02	5985.00	7	U-NR-5	34.0	16.0	14.40	Left Cheek	0	0.134	1.445	1.014	0.782	0.489		17.0	
Head	6 GHz W/F/ IEEE 802.11ax	80	OFDM	I	0077M	98.66	-0.16	6395.00	71	U-NR-5	34.0	16.0	14.11	Left Cheek	0	0.589	1.435	1.014	0.888	0.551	Plot	16.5	
Head	6 GHz W/F/ IEEE 802.11ax	80	OFDM	I	0077M	98.66	-0.05	6465.00	303	U-NR-6	34.0	16.0	14.97	Left Cheek	0	0.400	1.268	1.014	0.514	0.321		18.8	
Head	6 GHz W/F/ IEEE 802.11ax	80	OFDM	I	0077M	98.66	-0.01	6705.00	215	U-NR-7	34.0	16.0	14.76	Left Cheek	0	0.533	1.330	1.014	0.719	0.449		17.4	
Head	6 GHz W/F/ IEEE 802.11ax	80	OFDM	I	0077M	98.66	-0.03	7025.00	215	U-NR-8	34.0	16.0	14.72	Left Cheek	0	0.260	1.343	1.014	0.477	0.298		19.2	
Head	6 GHz W/F/ IEEE 802.11ax	80	OFDM	I	0077M	98.66	-0.19	6465.00	303	U-NR-6	34.0	16.0	14.97	Left Tilt	0	0.006	1.268	1.014	0.033	0.021		30.7	

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Spatial Peak

Uncontrolled Exposure/General Population

Head

1.6 W/kg (mW/g)

averaged over 1 gram

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NR band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured APO [W/m² (4cm²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APO [W/m² (4cm²)]	APD Exposure Ratio	Plot #	Limit [dBm]	Overall Limit [dBm]
Head	6 GHz W/F/ IEEE 802.11ax	80	OFDM	I	0077M	98.66	-0.01	6465.00	303	U-NR-6	34.0	16.0	14.97	Right Cheek	0	0.692	1.268	1.014	0.890	0.045		27.5	
Head	6 GHz W/F/ IEEE 802.11ax	80	OFDM	I	0077M	98.66	-0.02	6465.00	303	U-NR-6	34.0	16.0	14.97	Right Tilt	0	0.000	1.268	1.014	0.000	0.000		65.0	
Head	6 GHz W/F/ IEEE 802.11ax	80	OFDM	I	0077M	98.66	-0.07	5985.00	7	U-NR-5	34.0	16.0	14.40	Left Cheek	0	0.610	1.445	1.014	4.996	0.250		20.0	
Head	6 GHz W/F/ IEEE 802.11ax	80	OFDM	I	0077M	98.66	-0.16	6395.00	71	U-NR-5	34.0	16.0	14.11	Left Cheek	0	3.940	1.476	1.014	5.747	0.287	Plot	19.4	
Head	6 GHz W/F/ IEEE 802.11ax	80	OFDM	I	0077M	98.66	-0.05	6465.00	303	U-NR-6	34.0	16.0	14.97	Left Cheek	0	2.580	1.268	1.014	3.446	0.172		21.6	
Head	6 GHz W/F/ IEEE 802.11ax	80	OFDM	I	0077M	98.66	-0.01	6705.00	215	U-NR-7	34.0	16.0	14.76	Left Cheek	0	3.350	1.330	1.014	4.372	0.229		20.4	
Head	6 GHz W/F/ IEEE 802.11ax	80	OFDM	I	0077M	98.66	-0.03	7025.00	215	U-NR-8	34.0	16.0	14.72	Left Cheek	0	2.380	1.343	1.014	3.241	0.162		21.9	
Head	6 GHz W/F/ IEEE 802.11ax	80	OFDM	I	0077M	98.66	-0.19	6465.00	303	U-NR-6	34.0	16.0	14.97	Left Tilt	0	0.132	1.268	1.014	0.170	0.009		34.7	

Table 12-129 | Ant F – Open

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NR 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	6 GHz W/F/ IEEE 802.11ax	160	OFDM	F	0077M	99.82	-0.05	6025.00	15	U-NR-5	68.1	12.0	11.00	Front	5	0.053	1.259	1.002	0.067	0.042		23.7	
Body	6 GHz W/F/ IEEE 802.11ax	160	OFDM	F	0077M	99.82	-0.08	6025.00	15	U-NR-5	68.1	12.0	11.00	Top	5	0.048	1.259	1.002	0.061	0.038		24.2	
Body	6 GHz W/F/ IEEE 802.11ax	160	OFDM	F	0077M	99.82	-0.09	6025.00	15	U-NR-5	68.1	12.0	11.00	Left	5	0.115	1.259	1.002	0.145	0.091		20.3	
Body worn/Body	6 GHz W/F/ IEEE 802.11ax	160	OFDM	F	0077M	99.82	-0.03	6025.00	15	U-NR-5	68.1	12.0	11.00	Back	5	0.096	1.259	1.002	0.083	0.052		22.7	

ANSI/IEEE C95.1 1992 - SAFETY LIMIT

Spatial Peak

Uncontrolled Exposure/General Population

Body

1.6 W/kg (mW/g)

averaged over 1 gram

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NR band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured APO [W/m² (4cm²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APO [W/m² (4cm²)]	APD Exposure Ratio	Plot #	Limit [dBm]	Overall Limit [dBm]
Body	6 GHz W/F/ IEEE 802.11ax	160	OFDM	F	0077M	99.82	-0.05	6025.00	15	U-NR-5	68.1	12.0	11.00	Front	5	0.254	1.259	1.002	0.447	0.022		26.5	
Body	6 GHz W/F/ IEEE 802.11ax	160	OFDM	F	0077M	99.82	-0.02	6345.00	15	U-NR-5	68.1	12.0	11.00	Top	5	0.338	1.259	1.002	0.346	0.017		27.6	
Body	6 GHz W/F/ IEEE 802.11ax	160	OFDM	F	0077M	99.82	-0.09	6025.00	15	U-NR-5	68.1	12.0	11.00	Left	5	0.174	1.259	1.002	0.976	0.049		23.1	
Body worn/Body	6 GHz W/F/ IEEE 802.11ax	160	OFDM	F	0077M	99.82	-0.03	6025.00	15	U-NR-5	68.1	12.0	11.00	Back	5	0.461	1.259	1.002	0.582	0.028		25.3	

Table 12-130 | Ant I – Open

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NR 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	6 GHz W/F/ IEEE 802.11ax	160	OFDM	I	0077M	99.65	-0.03	6345.00	79	U-NR-5	68.1	12.0	11.67	Top	5	0.006	1.079	1.004	0.006	0.004		33.8	
Body	6 GHz W/F/ IEEE 802.11ax	160	OFDM	I	0077M	99.65	-0.13	6345.00	79	U-NR-5	68.1	12.0	11.67	Right	5	0.006	1.079	1.004	0.004	0.003		26.8	
Body worn/Body	6 GHz W/F/ IEEE 802.11ax	160	OFDM	I	0077M	99.65	-0.07	6345.00	79	U-NR-5	68.1	12.0	11.67	Back	5	0.080	1.079	1.004	0.032	0.020		26.8	
Body worn/Body	6 GHz W/F/ IEEE 802.11ax	160	OFDM	I	0077M	99.65	-0.06	6345.00	79	U-NR-5	68.1	12.0	11.67	Front	5	0.047	1.079	1.004	0.051	0.032		24.9	

ANSI/IEEE C95.1 1992 - SAFETY LIMIT

Spatial Peak

Uncontrolled Exposure/General Population

Body

1.6 W/kg (mW/g)

averaged over 1 gram

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NR band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured APO [W/m² (4cm²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APO [W/m² (4cm²)]	APD Exposure Ratio	Plot #	Limit [dBm]	Overall Limit [dBm]
Body	6 GHz W/F/ IEEE 802.11ax	160	OFDM	I	0077M	99.65	-0.03	6345.00	79	U-NR-5	68.1	12.0	11.67	Top	5	0.050	1.079	1.004	0.054	0.003		35.6	
Body	6 GHz W/F/ IEEE 802.11ax	160	OFDM	I	0077M	99.65	-0.13	6345.00	79	U-NR-5	68.1	12.0	11.67	Right	5	0.138	1.079	1.004	0.355	0.018		27.5	
Body worn/Body	6 GHz W/F/ IEEE 802.11ax	160	OFDM	I	0077M	99.65	-0.07	6345.00	79	U-NR-5	68.1	12.0	11.67	Back	5	0.194	1.079	1.004	0.210	0.011		29.7	
Body worn/Body	6 GHz W/F/ IEEE 802.11ax	160	OFDM	I	0077M	99.65	-0.06	6345.00	79	U-NR-5	68.1	12.0	11.67	Front	5	0.124	1.079	1.004	0.351	0.018		27.5	

Table 12-131 | Ant F – Closed

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NR 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	6 GHz W/F/ IEEE 802.11ax	160	OFDM	F	0077M	99.82	-0.08	6025.00	15	U-NR-5	68.1	12.0	11.00	Bottom	5	0.005	1.259	1.002	0.006	0.004		34.0	
Body	6 GHz W/F/ IEEE 802.11ax	160	OFDM	F	0077M	99.82	-0.05	6025.00	15	U-NR-5	68.1	12.0	11.00	Left	5	0.082	1.259	1.002	0.103	0.004		21.8	
Body	6 GHz W/F/ IEEE 802.11ax	160	OFDM	F	0077M	99.82	-0.09	6345.00	79	U-NR-5	68.1	12.0	10.80	Left	5	0.043	1.318	1.002	0.057	0.036		24.4	
Body	6 GHz W/F/ IEEE 802.11ax	160	OFDM	F	0077M	99.82	-0.04	6505.00	111	U-NR-6	68.1	12.0	10.45	Left	5	0.044	1.365	1.002	0.060	0.038		24.2	
Body	6 GHz W/F/ IEEE 802.11ax	160	OFDM	F	0077M	99.82	-0.02	6685.00	143	U-NR-7	68.1	12.0	10.73	Left	5	0.051	1.340	1.002	0.068	0.043		23.6	
Body	6 GHz W/F/ IEEE 802.11ax	160	OFDM	F	0077M	99.82	-0.01	6985.00	207	U-NR-8	68.1	12.0	10.38	Left	5	0.051	1.265	1.002	0.077	0.048		23.1	
Body worn/Body	6 GHz W/F/ IEEE 802.11ax	160	OFDM	F	0077M	99.82	-0.03	6025.00	15	U-NR-5	68.1	12.0	11.00	Back	5	0.004	1.259	1.002	0.005	0.003		34.9	
Body worn/Body	6 GHz W/F/ IEEE 802.11ax	160	OFDM	F	0077M	99.82	-0.01	6025.00	15	U-NR-5	68.1	12.0	11.00	Front	5	0.011	1.259	1.002	0.014	0.009		30.5	

ANSI/IEEE C95.1 1992 - SAFETY LIMIT

Spatial Peak

Uncontrolled Exposure/General Population

Body

1.6 W/kg (mW/g)

averaged over 1 gram

General Population															LEW (mW/g)								
Controlled Exposure/General Population															Averaged over 1 gram								
Exposure	Band/ Mode	Bandwidth [MHz]	Service/ Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NR band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured APO [W/m² (4cm²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APO [W/m² (4cm²)]	APD Exposure Ratio	Plot #	Limit [dBm]	Overall Limit [dBm]
Body	6 GHz W/F/ IEEE 802.11ax	160	OFDM	F	0077M	99.82	0.08	6025.00	15	U-NR-5	68.1	12.0	11.00	Bottom	5	0.005	1.259	1.002	0.003	0.000		51.9	
Body	6 GHz W/F/ IEEE 802.11ax	160	OFDM	F	0077M	99.82	-0.05	6025.00	15	U-NR-5	68.1	12.0	11.00	Left	5	0.004	1.269	1.000	0.003	0.000		52.4	
Body	6 GHz W/F/ IEEE 802.11ax	160	OFDM	F	0077M	99.82	0.09	6305.00	79	U-NR-5	68.1	12.0	10.55	Left	5	0.278	1.318	1.002	0.367	0.018		27.3	
Body	6 GHz W/F/ IEEE 802.11ax	160	OFDM	F	0077M	99.82	0.04	6305.00	111	U-NR-6	68.1	12.0	10.55	Left	5	0.280	1.365	1.002	0.383	0.017		27.3	
Body	6 GHz W/F/ IEEE 802.11ax	160	OFDM	F	0077M	99.82	-0.02	6665.00	143	U-NR-7	68.1	12.0	10.73	Left	5	0.311	1.340	1.002	0.418	0.021		26.8	
Body	6 GHz W/F/ IEEE 802.11ax	160	OFDM	F	0077M	99.82	0.01	6985.00	207	U-NR-8	68.1	12.0	10.98	Left	5	0.375	1.265	1.002	0.475	0.024		26.2	
Body-worn/Body	6 GHz W/F/ IEEE 802.11ax	160	OFDM	F	0077M	99.82	0.01	6025.00	15	U-NR-5	68.1	12.0	11.00	Back	5	0.000	1.259	1.002	0.000	0.000		61.9	
Body-worn/Body	6 GHz W/F/ IEEE 802.11ax	160	OFDM	F	0077M	99.82	-0.01	6025.00	15	U-NR-5	68.1	12.0	11.00	Back	5	0.001	1.269	1.000	0.001	0.000		62.4	

Table 12-132 | Ant I – Closed

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	6 GHz W/F/ IEEE 802.11ax	160	OFDM	I	0077M	99.65	0.01	6345.00	79	U-NI-5	68.1	12.0	11.67	Top	5	0.000	1.079	1.004	0.000	0.000		51.6	
Body	6 GHz W/F/ IEEE 802.11ax	160	OFDM	I	0077M	99.65	0.02	6345.00	79	U-NI-5	68.1	12.0	11.67	Bottom	5	0.000	1.079	1.004	0.000	0.000		51.6	
Body	6 GHz W/F/ IEEE 802.11ax	160	OFDM	I	0077M	99.65	-0.11	6025.00	15	U-NI-5	68.1	12.0	11.38	Right	5	0.081	1.153	1.004	0.094	0.099		22.2	
Body	6 GHz W/F/ IEEE 802.11ax	160	OFDM	I	0077M	99.65	0.08	6345.00	79	U-NI-5	68.1	12.0	11.67	Right	5	0.041	1.079	1.004	0.044	0.038		25.5	
Body	6 GHz W/F/ IEEE 802.11ax	160	OFDM	I	0077M	99.65	0.01	6505.00	111	U-NI-6	68.1	12.0	11.36	Right	5	0.040	1.159	1.004	0.057	0.036		24.4	
Body	6 GHz W/F/ IEEE 802.11ax	160	OFDM	I	0077M	99.65	0.04	6665.00	143	U-NI-7	68.1	12.0	10.78	Right	5	0.063	1.324	1.004	0.084	0.053		22.7	
Body	6 GHz W/F/ IEEE 802.11ax	160	OFDM	I	0077M	99.65	0.03	6585.00	207	U-NI-8	68.1	12.0	11.44	Right	5	0.043	1.086	1.004	0.045	0.035		25.4	
Body worn/Body	6 GHz W/F/ IEEE 802.11ax	160	OFDM	I	0077M	99.65	0.04	6345.00	79	U-NI-5	68.1	12.0	11.67	Back	5	0.000	1.079	1.004	0.000	0.000		51.6	
Body worn/Body	6 GHz W/F/ IEEE 802.11ax	160	OFDM	I	0077M	99.65	0.03	6345.00	79	U-NI-5	68.1	12.0	11.67	Front	5	0.037	1.079	1.004	0.029	0.018		27.3	
ANSI/IEEE C95.1-1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																							
1.6 W/kg (mW/g) averaged over 1 gram																							

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NI band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured APO [W/m² (4cm²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APO [W/m² (4cm²)]	APD Exposure Ratio	Plot #	Limit [dBm]	Overall Limit [dBm]
Body	6 GHz W/F/ IEEE 802.11ax	160	OFDM	I	0077M	99.65	0.01	6345.00	79	U-NI-5	68.1	12.0	11.67	Top	5	0.000	1.079	1.004	0.000	0.000		62.6	
Body	6 GHz W/F/ IEEE 802.11ax	160	OFDM	I	0077M	99.65	0.02	6345.00	79	U-NI-5	68.1	12.0	11.67	Bottom	5	0.000	1.079	1.004	0.000	0.000		62.6	
Body	6 GHz W/F/ IEEE 802.11ax	160	OFDM	I	0077M	99.65	-0.11	6025.00	15	U-NI-5	68.1	12.0	11.38	Right	5	0.553	1.153	1.004	0.640	0.532		24.9	
Body	6 GHz W/F/ IEEE 802.11ax	160	OFDM	I	0077M	99.65	0.08	6345.00	79	U-NI-5	68.1	12.0	11.67	Right	5	0.249	1.079	1.004	0.270	0.014		26.9	
Body	6 GHz W/F/ IEEE 802.11ax	160	OFDM	I	0077M	99.65	0.01	6505.00	111	U-NI-6	68.1	12.0	11.36	Right	5	0.213	1.159	1.004	0.316	0.016		27.9	
Body	6 GHz W/F/ IEEE 802.11ax	160	OFDM	I	0077M	99.65	0.04	6665.00	143	U-NI-7	68.1	12.0	10.78	Right	5	0.325	1.324	1.004	0.432	0.021		26.6	
Body	6 GHz W/F/ IEEE 802.11ax	160	OFDM	I	0077M	99.65	0.03	6585.00	207	U-NI-8	68.1	12.0	11.44	Right	5	0.220	1.086	1.004	0.240	0.012		29.2	
Body worn/Body	6 GHz W/F/ IEEE 802.11ax	160	OFDM	I	0077M	99.65	0.04	6345.00	79	U-NI-5	68.1	12.0	11.67	Back	5	0.002	1.079	1.004	0.002	0.000		49.6	
Body worn/Body	6 GHz W/F/ IEEE 802.11ax	160	OFDM	I	0077M	99.65	0.03	6345.00	79	U-NI-5	68.1	12.0	11.67	Front	5	0.178	1.079	1.004	0.193	0.010		30.1	

12.22 6 GHz WIFI MIMO Standalone SAR and APD

Table 12-133 | MIMO – Open

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	6 GHz W/F/ IEEE 802.11ax	80	OFDM	MIMO	0077M	99.74	0.02	6465.00	103	U-NI-6	65.1	16.0	15.42	Right Cheek	0	0.302	1.143	1.003	0.346	0.216		20.9	
Head	6 GHz W/F/ IEEE 802.11ax	80	OFDM	MIMO	0077M	99.74	0.12	6465.00	103	U-NI-6	65.1	16.0	15.42	Right Tilt	0	0.203	1.143	1.003	0.400	0.213		19.9	
Head	6 GHz W/F/ IEEE 802.11ax	80	OFDM	MIMO	0077M	99.74	-0.03	5985.00	7	U-NI-5	65.1	16.0	15.00	Left Cheek	0	0.429	1.259	1.003	0.542	0.339		18.5	
Head	6 GHz W/F/ IEEE 802.11ax	80	OFDM	MIMO	0077M	99.74	0.04	6305.00	71	U-NI-5	65.1	16.0	15.28	Left Cheek	0	0.544	1.180	1.003	0.644	0.403		17.9	
Head	6 GHz W/F/ IEEE 802.11ax	80	OFDM	MIMO	0077M	99.65	0.01	6465.00	103	U-NI-6	65.1	16.0	15.42	Left Cheek	0	0.334	1.143	1.003	0.360	0.225		20.4	
Head	6 GHz W/F/ IEEE 802.11ax	80	OFDM	MIMO	0077M	99.74	-0.03	6705.00	151	U-NI-7	65.1	16.0	15.21	Left Cheek	0	0.340	1.189	1.003	0.409	0.206		19.8	
Head	6 GHz W/F/ IEEE 802.11ax	80	OFDM	MIMO	0077M	99.74	0.10	7025.00	215	U-NI-8	65.1	16.0	15.22	Left Cheek	0	0.284	1.197	1.003	0.341	0.213		20.6	
Head	6 GHz W/F/ IEEE 802.11ax	80	OFDM	MIMO	0077M	99.74	0.02	6465.00	103	U-NI-6	65.1	16.0	15.42	Left Tilt	0	0.207	1.143	1.003	0.325	0.207		20.1	
ANSI/IEEE C95.1-1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																							
1.6 W/kg (mW/g) averaged over 1 gram																							

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

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 APO [W/m² (4cm²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APO [W/m² (4cm²)]	APD Exposure Ratio	Plot #	Limit [dBm]	Overall Limit [dBm]
Head	6 GHz W/F/ IEEE 802.11ax	80	OFDM	MIMO	0077M	99.74	0.02	6465.00	103	U-NI-6	65.1	16.0	15.42	Right Cheek	0	0.300	1.143	1.003	0.346	0.079		25.0	
Head	6 GHz W/F/ IEEE 802.11ax	80	OFDM	MIMO	0077M	99.74	0.10	6465.00	103	U-NI-6	65.1	16.0	15.42	Right Tilt	0	0.220	1.143	1.003	0.557	0.128		22.9	
Head	6 GHz W/F/ IEEE 802.11ax	80	OFDM	MIMO	0077M	99.74	-0.03	5985.00	7	U-NI-5	65.1	16.0	15.00	Left Cheek	0	0.320	1.259	1.003	0.520	0.161		21.9	
Head	6 GHz W/F/ IEEE 802.11ax	80	OFDM	MIMO	0077M	99.74	0.04	6305.00	71	U-NI-5	65.1	16.0	15.28	Left Cheek	0	0.380	1.180	1.003	0.400	0.200		20.9	
Head	6 GHz W/F/ IEEE 802.11ax	80	OFDM	MIMO	0077M	99.74	0.12	6465.00	103	U-NI-6	65.1	16.0	15.42	Left Cheek	0	0.280	1.143	1.003	0.385	0.119		23.2	
Head	6 GHz W/F/ IEEE 802.11ax	80	OFDM	MIMO	0077M	99.74	-0.03	6705.00	151	U-NI-7	65.1	16.0	15.21	Left Cheek	0	0.280	1.189	1.003	0.385	0.119		23.1	
Head	6 GHz W/F/ IEEE 802.11ax	80	OFDM	MIMO	0077M	99.74	-0.10	7025.00	215	U-NI-8	65.1	16.0	15.22	Left Cheek	0	0.190	1.197	1.003	0.305	0.118		23.2	
Head	6 GHz W/F/ IEEE 802.11ax	80	OFDM	MIMO	0077M	99.74	0.02	6465.00	103	U-NI-6	65.1	16.0	15.42	Left Tilt	0	0.170	1.143	1.003	0.871	0.044		27.6	

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

Table 12-134 | MIMO – Open | Plot A52

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	6 GHz W/F/ IEEE 802.11ax	160	OFDM	MIMO	0077M	99.67	0.03	6025.00	15	U-NI-5	136.1	12.0	11.46	Front	5	0.051	1.132	1.003	0.058	0.036		24.3	
Body	6 GHz W/F/ IEEE 802.11ax	160	OFDM	MIMO	0077M	99.67	0.11	6025.00	15	U-NI-5	136.1	12.0	11.46	Top	5	0.054	1.132	1.003	0.061	0.038		24.1	
Body	6 GHz W/F/ IEEE 802.11ax	160	OFDM	MIMO	0077M	99.67	0.07	6025.00	15	U-NI-5	136.1	12.0	11.46	Right	5	0.136	1.132	1.003	0.145	0.089		20.4	
Body	6 GHz W/F/ IEEE 802.11ax	160	OFDM	MIMO	1391M	99.67	0.03	6025.00	15	U-NI-5	136.1	12.0	11.46	Left	5	0.078	1.132	1.003	0.080	0.056		22.5	
Body worn/Body	6 GHz W/F/ IEEE 802.11ax	160	OFDM	MIMO	0077M	99.67	0.01	6025.00	15	U-NI-5	136.1	12.0	11.46	Back	5	0.003	1.132	1.003	0.004	0.004		21.2	
ANSI/IEEE C95.1-1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																							
1.6 W/kg (mW/g) averaged over 1 gram																							

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

Exposure	Band/ Mode	Bandwidth [MHz]	Service/ Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NI band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Max Allowed Power (2nd ant) [dBm]	Conducted Power (2nd ant) [dBm]	Test Position	Spacing [mm]	Measured APO [W/m² (4cm²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APO [W/m² (4cm²)]	APD Exposure Ratio	Plot #	Limit [dBm]	Overall Limit [dBm]
Body	6 GHz W/F/ IEEE 802.11ax	160	OFDM	MIMO	0077M	99.67	0.03	6025.00	15	U-NI-5	136.1	12.0	11.46	12.0	11.82	Front	5	0.346	1.132	1.003	0.353	0.020		27.0	
Body	6 GHz W/F/ IEEE 802.11ax	160	OFDM	MIMO	0077M	99.67	0.11	6025.00	15	U-NI-5	136.1	12.0	11.46	12.0	11.82	Top	5	0.250	1.132	1.003	0.329	0.016		27.8	
Body	6 GHz W/F/ IEEE 802.11ax	160	OFDM	MIMO	0077M	99.67	0.07	6025.00	15	U-NI-5	136.1	12.0	11.46	12.0	11.82	Right	5	0.276	1.132	1.003	0.329	0.020		28.1	23.9
Body	6 GHz W/F/ IEEE 802.11ax	160	OFDM	MIMO	1391M	99.67	0.03	6025.00	15	U-NI-5	136.1	12.0	11.46	12.0	11.82	Left	5	0.471	1.132	1.003	0.535	0.027		25.7	
Body-worn/Body	6 GHz W/F/ IEEE 802.11ax	160	OFDM	MIMO	0077M	99.67	0.03	6025.00	15	U-NI-5	136.1	12.0	11.46	12.0	11.82	Back	5	0.549	1.132	1.003	0.646	0.032	Plot	24.9	

Table 12-135 | MIMO – Closed | Plot A53

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NI band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Max Allowed Power (2nd 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 #	Plot # [dBm]	Overall Peak [dBm]
Body	6 GHz W/FU / IEEE 802.11ax	160	OFDM	MIMO	0077M	99.67	0.07	6025.00	15	U-NI-5	136.1	12.0	11.46	12.0	11.82	Top	5	0.008	1.132	1.003	0.009	0.006		32.4	
Body	6 GHz W/FU / IEEE 802.11ax	160	OFDM	MIMO	0077M	99.67	0.05	6025.00	15	U-NI-5	136.1	12.0	11.46	12.0	11.82	Bottom	5	0.079	1.132	1.003	0.090	0.056		22.4	
Body	6 GHz W/FU / IEEE 802.11ax	160	OFDM	MIMO	0077M	99.67	-0.11	6025.00	15	U-NI-5	136.1	12.0	11.46	12.0	11.82	Right	5	0.132	1.132	1.003	0.127	0.079		20.9	
Body	6 GHz W/FU / IEEE 802.11ax	160	OFDM	MIMO	0077M	99.67	0.04	6025.00	15	U-NI-5	136.1	12.0	11.46	12.0	11.82	Left	5	0.161	1.132	1.003	0.163	0.114		19.3	
Body	6 GHz W/FU / IEEE 802.11ax	160	OFDM	MIMO	0077M	99.67	0.06	6045.00	79	U-NI-5	136.1	12.0	11.00	12.0	11.82	Left	5	0.121	1.266	1.003	0.160	0.106		19.8	
Body	6 GHz W/FU / IEEE 802.11ax	160	OFDM	MIMO	0077M	99.67	0.03	6050.00	111	U-NI-6	136.1	12.0	11.53	12.0	11.64	Left	5	0.150	1.114	1.003	0.150	0.119	Plot	19.2	
Body	6 GHz W/FU / IEEE 802.11ax	160	OFDM	MIMO	0077M	99.67	0.03	6665.00	143	U-NI-7	136.1	12.0	11.30	12.0	11.18	Left	5	0.154	1.213	1.003	0.163	0.102		19.8	
Body	6 GHz W/FU / IEEE 802.11ax	160	OFDM	MIMO	0077M	99.67	0.06	6985.00	207	U-NI-8	136.1	12.0	11.17	12.0	11.05	Left	5	0.497	1.183	1.003	0.445	0.091		20.3	
Body-worn/Body	6 GHz W/FU / IEEE 802.11ax	160	OFDM	MIMO	0077M	99.67	0.03	6025.00	15	U-NI-5	136.1	12.0	11.46	12.0	11.82	Back	5	0.009	1.132	1.003	0.022	0.014		28.6	
Body-worn/Body	6 GHz W/FU / IEEE 802.11ax	160	OFDM	MIMO	0077M	99.67	0.07	6025.00	15	U-NI-5	136.1	12.0	11.46	12.0	11.82	Front	5	0.052	1.132	1.003	0.099	0.057		24.2	
ANSI/IEEE C95.1.1992 - SAFETY LIMIT																		Head							
Spatial Peak																		1.6 W/kg (mW/g)							
Uncontrolled Exposure/General Population																		averaged over 1 gram							

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

Exposure	Band/ Mode	Bandwidth [MHz]	Service/ Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NI band	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Max Allowed Power (2nd ant) [dBm]	Conducted Power (2nd ant) [dBm]	Test Position	Spacing [mm]	Measured ACP [W/kg/4cm ²]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported ACP [W/kg/4cm ²]	APD Exposure Ratio	Plot #	Plot [dBm]	Overall Peak [dBm]
Body	6 GHz W/FU / IEEE 802.11ax	160	OFDM	MIMO	0077M	99.67	0.07	6025.00	15	U-NI-5	136.1	12.0	11.46	12.0	11.82	Top	5	0.008	1.132	1.003	0.008	0.005		33.1	
Body	6 GHz W/FU / IEEE 802.11ax	160	OFDM	MIMO	0077M	99.67	0.05	6025.00	15	U-NI-5	136.1	12.0	11.46	12.0	11.82	Bottom	5	0.479	1.132	1.003	0.544	0.027		25.6	
Body	6 GHz W/FU / IEEE 802.11ax	160	OFDM	MIMO	0077M	99.67	-0.13	6025.00	15	U-NI-5	136.1	12.0	11.46	12.0	11.82	Right	5	0.851	1.132	1.003	0.966	0.048		23.1	
Body	6 GHz W/FU / IEEE 802.11ax	160	OFDM	MIMO	0077M	99.67	0.06	6025.00	15	U-NI-5	136.1	12.0	11.46	12.0	11.82	Left	5	1.000	1.132	1.003	1.447	0.027		22.6	
Body	6 GHz W/FU / IEEE 802.11ax	160	OFDM	MIMO	0077M	99.67	0.04	6345.00	79	U-NI-5	136.1	12.0	11.00	12.0	11.99	Left	5	0.868	1.269	1.003	1.096	0.095		22.6	
Body	6 GHz W/FU / IEEE 802.11ax	160	OFDM	MIMO	0077M	99.67	0.03	6505.00	111	U-NI-6	136.1	12.0	11.53	12.0	11.64	Left	5	1.180	1.114	1.003	1.318	0.066	Plot	21.8	
Body	6 GHz W/FU / IEEE 802.11ax	160	OFDM	MIMO	0077M	99.67	0.03	6665.00	143	U-NI-7	136.1	12.0	11.16	12.0	11.18	Left	5	0.929	1.213	1.003	1.139	0.057		21.4	
Body	6 GHz W/FU / IEEE 802.11ax	160	OFDM	MIMO	0077M	99.67	0.06	6985.00	207	U-NI-8	136.1	12.0	11.17	12.0	11.05	Left	5	0.860	1.183	1.003	1.020	0.051		22.9	
Body-worn/Body	6 GHz W/FU / IEEE 802.11ax	160	OFDM	MIMO	0077M	99.67	0.03	6025.00	15	U-NI-5	136.1	12.0	11.46	12.0	11.82	Back	5	0.009	1.132	1.003	0.022	0.014		30.2	
Body-worn/Body	6 GHz W/FU / IEEE 802.11ax	160	OFDM	MIMO	0077M	99.67	0.07	6025.00	15	U-NI-5	136.1	12.0	11.46	12.0	11.82	Front	5	0.156	1.132	1.003	0.404	0.020		26.9	
ANSI/IEEE C95.1.1992 - SAFETY LIMIT																		Head							
Spatial Peak																		1.6 W/kg (mW/g)							
Uncontrolled Exposure/General Population																		averaged over 1 gram							

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

12.23 2.4 GHz Bluetooth SISO Standalone SAR

Table 12-136 | Ant G – Open | Plot A54

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Head	2.4 GHz Bluetooth	FHSS	G	0068M	77.07	0.05	2441.00	39	1	19.0	18.40	Right Cheek	0	0.604	1.149	1.025	0.711	0.444	
Head	2.4 GHz Bluetooth LE	DSSS	G	0068M	85.07	0.08	2402.00	0	1	20.0	18.62	Right Cheek	0	0.577	1.375	1.023	0.812	0.508	
Head	2.4 GHz Bluetooth LE	DSSS	G	0068M	85.07	0.03	2440.00	19	1	20.0	19.73	Right Cheek	0	0.778	1.065	1.023	0.946	0.530	Plot
Head	2.4 GHz Bluetooth LE	DSSS	G	0068M	85.07	0.07	2480.00	39	1	20.0	18.63	Right Cheek	0	0.497	1.371	1.023	0.697	0.436	
Head	2.4 GHz Bluetooth LE	DSSS	G	0068M	85.07	0.02	2440.00	19	1	20.0	19.73	Right Tilt	0	0.713	1.065	1.023	0.777	0.486	
Head	2.4 GHz Bluetooth LE	DSSS	G	0068M	85.07	0.09	2440.00	19	1	20.0	19.73	Left Cheek	0	0.386	1.065	1.023	0.421	0.263	
Head	2.4 GHz Bluetooth LE	DSSS	G	0068M	85.07	0.06	2440.00	19	1	20.0	19.73	Left Tilt	0	0.331	1.065	1.023	0.361	0.226	
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 12-137 | Ant C – Open

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Head	2.4 GHz Bluetooth	FHSS	C	0068M	77.07	0.03	2441.00	39	1	19.0	18.55	Right Cheek	0	0.026	1.108	1.025	0.030	0.019	
Head	2.4 GHz Bluetooth	FHSS	C	0068M	77.07	0.03	2441.00	39	1	19.0	18.55	Right Tilt	0	0.015	1.108	1.025	0.017	0.011	
Head	2.4 GHz Bluetooth	FHSS	C	0068M	77.07	0.08	2441.00	39	1	19.0	18.55	Left Cheek	0	0.059	1.108	1.025	0.067	0.042	
Head	2.4 GHz Bluetooth	FHSS	C	0068M	77.07	0.09	2441.00	39	1	19.0	18.55	Left Tilt	0	0.015	1.108	1.025	0.017	0.011	
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 12-138 | Ant G – Open

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	2.4 GHz Bluetooth	FHSS	G	0068M	77.07	0.02	2441.00	39	1	19.0	18.40	Front	5	0.258	1.149	1.025	0.304	0.190	
Body	2.4 GHz Bluetooth	FHSS	G	0068M	77.07	0.04	2441.00	39	1	19.0	18.40	Top	5	0.558	1.149	1.025	0.657	0.411	
Body	2.4 GHz Bluetooth	FHSS	G	0068M	77.07	0.03	2441.00	39	1	19.0	18.40	Left	5	0.221	1.149	1.025	0.260	0.163	
Body-worn/Body	2.4 GHz Bluetooth	FHSS	G	0068M	77.07	0.03	2441.00	39	1	19.0	18.40	Back	5	0.247	1.149	1.025	0.291	0.182	
ANSI/IEEE C95.1.1992 - SAFETY LIMIT														Body					
Spatial Peak														1.6 W/kg (mW/g)					
Uncontrolled Exposure/General Population														averaged over 1 gram					

Table 12-139 | Ant C – Open | Plot A56, A55

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]
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Table 12-140 | Ant G – Closed

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	2.4 GHz Bluetooth	FHSS	G	0068M	77.07	-0.16	2441.00	39	1	19.0	18.40	Front	5	0.173	1.149	1.025	0.204	0.128	
Body	2.4 GHz Bluetooth	FHSS	G	0068M	77.07	-0.03	2441.00	39	1	19.0	18.40	Bottom	5	0.235	1.149	1.025	0.277	0.173	
Body	2.4 GHz Bluetooth LE	DSSS	G	0068M	85.07	0.02	2480.00	39	1	20.0	18.63	Bottom	5	0.131	1.371	1.023	0.184	0.115	
Body	2.4 GHz Bluetooth	FHSS	G	0068M	77.07	-0.07	2441.00	39	1	19.0	18.40	Left	5	0.148	1.149	1.025	0.174	0.109	
Body-worn/Body	2.4 GHz Bluetooth	FHSS	G	0068M	77.07	-0.04	2441.00	39	1	19.0	18.40	Back	5	0.139	1.149	1.025	0.164	0.103	
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 12-141 | Ant C – Closed

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	2.4 GHz Bluetooth	FHSS	C	0068M	77.07	-0.20	2441.00	39	1	19.0	18.55	Front	5	0.034	1.108	1.025	0.039	0.024	
Body	2.4 GHz Bluetooth	FHSS	C	0068M	77.07	0.06	2441.00	39	1	19.0	18.55	Top	5	0.018	1.108	1.025	0.020	0.013	
Body	2.4 GHz Bluetooth	FHSS	C	0068M	77.07	-0.16	2441.00	39	1	19.0	18.55	Bottom	5	0.139	1.108	1.025	0.158	0.099	
Body	2.4 GHz Bluetooth	FHSS	C	0068M	77.07	-0.06	2402.00	0	1	19.0	18.13	Left	5	0.613	1.222	1.025	0.768	0.480	
Body	2.4 GHz Bluetooth	FHSS	C	0068M	77.07	0.14	2441.00	39	1	19.0	18.55	Left	5	0.827	1.108	1.025	0.939	0.587	
Body	2.4 GHz Bluetooth	FHSS	C	0068M	77.07	0.00	2480.00	78	1	19.0	17.01	Left	5	0.623	1.581	1.025	1.010	0.631	
Body	2.4 GHz Bluetooth LE	DSSS	C	0068M	92.40	0.02	2480.00	39	1	19.0	17.59	Left	5	0.425	1.382	1.017	0.597	0.373	
Body-worn/Body	2.4 GHz Bluetooth	FHSS	C	0068M	77.07	-0.01	2441.00	39	1	19.0	18.55	Back	5	0.679	1.108	1.025	0.771	0.482	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population												Body 1.6 W/kg (mW/g) averaged over 1 gram							

12.24 NFC Standalone SAR

Table 12-142 | Open

Exposure	Band / Mode	Signal Type	Ant.	Serial Number	Power Drift [dB]	Frequency [MHz]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	NFC	B	NFC	1510M	-0.05	13.60	Back	0	0.019	0.012	
Body	NFC	B	NFC	1510M	0.05	13.60	Front	0	0.000	0.000	
Body	NFC	B	NFC	1510M	0.00	13.60	Top	0	0.001	0.001	
Body	NFC	B	NFC	1510M	0.03	13.60	Bottom	0	0.000	0.000	
Body	NFC	B	NFC	1510M	0.09	13.60	Right	0	0.000	0.000	
Body	NFC	B	NFC	1510M	0.02	13.60	Left	0	0.000	0.000	
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 12-143 | Closed | Plot A57

Exposure	Band / Mode	Signal Type	Ant.	Serial Number	Power Drift [dB]	Frequency [MHz]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #
Body	NFC	B	NFC	1510M	-0.10	13.60	Back	0	0.021	0.013	Plot
Body	NFC	B	NFC	1510M	-0.20	13.60	Front	0	0.000	0.000	
Body	NFC	B	NFC	1510M	0.03	13.60	Top	0	0.000	0.000	
Body	NFC	B	NFC	1510M	-0.03	13.60	Bottom	0	0.000	0.000	
Body	NFC	B	NFC	1510M	0.08	13.60	Right	0	0.000	0.000	
Body	NFC	B	NFC	1510M	0.01	13.60	Left	0	0.000	0.000	
ANSI/IEEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population							Body 1.6 W/kg (mW/g) averaged over 1 gram				

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.

FCC ID: A3LSMF776B	RF EXPOSURE PART 1 TEST REPORT			Approved by: Technical Manager
Document S/N: 1M2603110020-01.A3L (Rev1)	DUT Type: Portable Handset	This report is Blockchain Verified. To verify the report authenticity, please visit https://www.blockchain-verified.com or by clicking on the Blockchain logo.		Page 151 of 171

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4. The manufacturer has confirmed that the device(s) tested have the same physical, mechanical and thermal characteristics and are within operational tolerances expected for production units.
5. SAR results were scaled to the maximum allowed power to demonstrate compliance per FCC KDB Publication 447498 D04v01.
6. 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.
7. Per FCC KDB Publication 648474 D04, 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 D04, this device is considered a "phablet" when it is in the open configuration since the display diagonal dimension is > 150 mm and < 200 mm. However, because 5 mm body testing excludes 0 mm extremity testing, phablet SAR tests were not required even 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 Qualcomm FastConnect for WLAN operations to control and manage transmitting power in real time to ensure RF Exposure compliance. Per FCC Guidance, compliance for was assessed at the minimum of the time averaged power and the maximum output power for each band/mode/exposure condition (DSI).
13. This device uses S.LSI TAS for WWAN 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).
14. Per October 2020 TCB Workshop notes, absorbed power density (APD) using a 4cm² averaging area is reported based on SAR measurements.

GSM Test Notes:

1. Body-Worn accessory testing is typically associated with voice operations. 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).

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LTE Notes:

1. LTE test configurations are determined according to SAR Evaluation Considerations for LTE Devices in FCC KDB Publication 941225 D05v02r04. The general test procedures used for testing can be found in Section 9.5.4.
2. MPR is permanently implemented for this device by the manufacturer. The specific manufacturer target MPR is indicated alongside the SAR results. MPR is enabled for this device, according to 3GPP TS36.101 Section 6.2.3 – 6.2.5 under Table 6.2.3-1.
3. A-MPR was disabled for all SAR tests by setting NS=01 and MCC=001 on the base station simulator. SAR tests were performed with the same number of RB and RB offsets transmitting on all TTI frames (maximum TTI).
4. Per FCC KDB Publication 447498 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 TDD was performed using test mode software to establish the connection.
3. Simultaneous transmission analysis for EN-DC operations is addressed in the Part 2 Test Report (Serial Number can be found in the bibliography).
4. This device additionally supports some EN-DC conditions where additional LTE carriers are added on the downlink only.
5. Per FCC Guidance, NR modulations and RB Sizes/Offsets were selected for testing such that configurations with the highest output power were evaluated for SAR tests.
6. Per FCC KDB Publication 447498 D04v01, when the reported NR Band n77 C-Band SAR measured at the highest output power channel in a given a test configuration was > 0.4 W/kg for 1g evaluations and > 1 W/kg for 10g evaluation, testing at the other channels was required for such test configurations.
7. Per FCC KDB Publication 447498 D04v01, when the reported NR Band n41 SAR measured at the highest output power channel in a given a test configuration was > 0.6 W/kg for 1g evaluations and > 1.5 W/kg for 10g evaluation, testing at the other channels was required for such test configurations.
8. SRS was tested with CW signal per S.LSI guidance.
9. For final implementation, NR Band n41 and n77 slot configuration is synchronized using maximum duty cycle of 100%. SAR testing was performed using FTM mode with a 100% duty cycle applied to match final duty cycle.
10. Per FCC Guidance, C-Band for NR n77 (3705 – 3975 MHz) was fully tested according to FCC procedures. For each exposure condition and antenna, the worst-case position was additionally evaluated for the NR n77 DoD (3455.01 – 3544.98 MHz).
11. This device uses two transmit pathways for n41 operations (Path 1 and Path 2). For each exposure condition, the pathway with the highest target power was fully evaluated. The worst case for each antenna and exposure condition was additionally evaluated using the other path.

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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.
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 6 GHz WLAN. Per October 2020 TCB Workshop notes, 5 channels were tested for WIFI 6E.

Bluetooth Notes

1. Bluetooth SAR was measured with the device connected to a call box with hopping disabled with DH5 operation and Tx Tests test mode type. Per October 2016 TCB Workshop Notes, the reported SAR was scaled to the 79% transmission duty factor for Bluetooth SISO, 78% for Bluetooth MIMO, and 87%, 94%, and 87% transmission duty factor for Bluetooth LE Ant G, C, and MIMO respectively, to determine compliance. See RF Conducted Power Section for the time domain plot and calculation for the duty factor of the device.
2. Head and Hotspot Bluetooth SAR were evaluated for BT BDR tethering applications.
3. The highest frame average power configurations for both Bluetooth and Bluetooth LE were evaluated for SAR. The worst case configuration was used for the remaining test positions as the most conservative scenario.

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13 POWER DENSITY DATA SUMMARY

13.1 6 GHz WIFI Power Density Results

Table 13-1 | Open PD Data | Plot A58

MEASUREMENT RESULTS																			
Frequency (MHz)	Channel	Mode	Service	Bandwidth (MHz)	Maximum Allowed Power (Ant 1) (dBm)	Conducted Power (Ant 1) (dBm)	Maximum Allowed Power (Ant 2) (dBm)	Conducted Power (Ant 2) (dBm)	Power Drift (dB)	Spacing (mm)	Antenna Config.	Peak	DUT Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	Grid Step (A)	IPD (W/m²)	Scaling Factor for Measurement Uncertainty per IEC 62479
6305.00	71	802.11ax	OFDM	80	16.00	14.23	N/A	N/A	0.08	2	F	N/A	0088M	34.02	Front	99.90	0.05	-	1.554
6025.00	15	802.11ax	OFDM	160	12.00	11.00	N/A	N/A	0.19	2	F	N/A	1391M	66.05	Back	99.92	0.05	-	1.554
6025.00	15	802.11ax	OFDM	160	12.00	11.00	N/A	N/A	0.05	2	F	N/A	0088M	66.05	Left	99.92	0.05	0.623	1.554
6025.00	15	802.11ax	OFDM	160	12.00	11.00	N/A	N/A	0.01	9.95	F	N/A	0074M	66.05	Left	99.92	0.125	0.700	1.554
6305.00	71	802.11ax	OFDM	80	N/A	N/A	16.00	14.31	0.13	2	I	N/A	0077M	34.02	Front	98.86	0.05	-	1.554
6349.00	79	802.11ax	OFDM	160	N/A	N/A	12.00	11.67	0.01	2	I	N/A	0088M	66.05	Right	99.95	0.05	0.627	1.554
6349.00	79	802.11ax	OFDM	160	N/A	N/A	12.00	11.67	0.05	9.45	I	N/A	0074M	66.05	Right	99.95	0.125	0.348	1.554
6305.00	71	802.11ax	OFDM	80	16.00	15.28	16.00	15.98	0.05	2	MMO	1	0088M	65.1	Front	99.74	0.05	-	1.554
6305.00	71	802.11ax	OFDM	80	16.00	15.28	16.00	15.96	0.09	2	MMO	2	0088M	65.1	Front	99.74	0.05	-	1.554
6025.00	15	802.11ax	OFDM	160	12.00	11.46	12.00	11.82	0.18	2	MMO	1	1391M	136.1	Back	99.67	0.05	-	1.554
6025.00	15	802.11ax	OFDM	160	12.00	11.46	12.00	11.82	0.00	2	MMO	2	1391M	136.1	Back	99.67	0.05	-	1.554
6025.00	15	802.11ax	OFDM	160	12.00	11.46	12.00	11.82	0.08	2	MMO	N/A	0077M	136.1	Right	99.67	0.05	0.690	1.554
6025.00	15	802.11ax	OFDM	160	12.00	11.46	12.00	11.82	0.09	9.95	MMO	N/A	0074M	136.1	Right	99.67	0.125	0.397	1.554
47 CFR §1.1310 - SAFETY LIMIT Spatial Average Uncontrolled Exposure / General Population										Power Density 10 W/m² averaged over 4 cm²									

Table 13-2 | Closed PD Data

MEASUREMENT RESULTS																			
Frequency (MHz)	Channel	Mode	Service	Bandwidth (MHz)	Maximum Allowed Power (Ant 1) (dBm)	Conducted Power (Ant 1) (dBm)	Maximum Allowed Power (Ant 2) (dBm)	Conducted Power (Ant 2) (dBm)	Power Drift (dB)	Spacing (mm)	Antenna Config.	Peak	DUT Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	Grid Step (A)	IPD (W/m²)	Scaling Factor for Measurement Uncertainty per IEC 62479
6025.00	15	802.11ax	OFDM	160	12.00	11.00	N/A	N/A	-0.11	2	F	N/A	0088M	66.1	Front	99.92	0.05	-	1.554
6025.00	15	802.11ax	OFDM	160	12.00	11.00	N/A	N/A	-0.18	2	F	N/A	0088M	66.1	Left	99.92	0.05	0.623	1.554
6025.00	15	802.11ax	OFDM	160	12.00	11.00	N/A	N/A	-0.13	9.95	F	N/A	0088M	66.1	Left	99.92	0.125	0.374	1.554
6349.00	79	802.11ax	OFDM	160	N/A	N/A	12.00	11.67	0.17	2	I	N/A	0088M	66.1	Front	99.95	0.05	-	1.554
6025.00	15	802.11ax	OFDM	160	N/A	N/A	12.00	11.38	0.05	2	I	N/A	0074M	66.1	Right	99.95	0.05	0.741	1.554
6025.00	15	802.11ax	OFDM	160	N/A	N/A	12.00	11.38	0.01	9.95	I	N/A	0074M	66.1	Right	99.95	0.125	0.520	1.554
6025.00	15	802.11ax	OFDM	160	12.00	11.46	12.00	11.82	0.19	2	MMO	1	0074M	136.1	Front	99.67	0.05	-	1.554
6025.00	15	802.11ax	OFDM	160	12.00	11.46	12.00	11.82	-0.18	2	MMO	2	0074M	136.1	Front	99.67	0.05	-	1.554
6005.00	111	802.11ax	OFDM	160	12.00	11.53	12.00	11.64	0.19	2	MMO	N/A	0074M	136.1	Left	99.67	0.05	0.463	1.554
6005.00	111	802.11ax	OFDM	160	12.00	11.53	12.00	11.64	-0.16	9.22	MMO	N/A	0074M	136.1	Left	99.67	0.125	0.407	1.554
47 CFR §1.1310 - SAFETY LIMIT Spatial Average Uncontrolled Exposure / General Population										Power Density 10 W/m² averaged over 4 cm²									

Power Density General Notes

- The manufacturer has confirmed that the devices tested have the same physical, mechanical and thermal characteristics and are within operational tolerances expected for production units.
- Batteries are fully charged at the beginning of the measurements. The DUT was connected to a wall charger for some measurements due to the test duration. It was confirmed that the charger plugged into this DUT did not impact the near-field PD test results.
- Power density was calculated by repeated E-field measurements on two measurement planes separated by $\lambda/4$.
- The device was configured to transmit continuously at the required data rate, channel bandwidth and signal modulation, using the highest transmission duty factor supported by the test mode tools.

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5. Per FCC guidance and equipment manufacturer guidance, power density results were scaled according to IEC 62479:2010 for the portion of the measurement uncertainty > 30%. Total expanded uncertainty of 2.68 dB (85.4%) was used to determine the psPD measurement scaling factor.
6. Per equipment manufacturer guidance, power density was measured at $d=2\text{mm}$ and $d=\lambda/5\text{mm}$ using the same grid size and grid step size for some frequencies and surfaces. The integrated Power Density (iPD) was calculated based on these measurements. Since iPD ratio between the two distances is $\geq -1\text{dB}$, the grid step was sufficient for determining compliance at $d=2\text{mm}$.
7. psPD for MIMO was evaluated by making a measurement with both antennas transmitting simultaneously.
8. PTP-PR algorithm was used during psPD measurement and calculations.
9. PD results were scaled to the maximum allowed power to demonstrate compliance per FCC KDB Publication 447498 D04.

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14 SAR MEASUREMENT VARIABILITY

14.1 Measurement Variability

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

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

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

Table 14-1
Head SAR Measurement Variability Results

HEAD VARIABILITY RESULTS												
Band	FREQUENCY		Mode	Service	Side	Test Position	Antenna Config	Measured SAR (1g)	1st Repeated SAR (1g)	Ratio	2nd Repeated SAR (1g)	3rd Repeated SAR (1g)
	MHz	Ch.						(W/kg)	(W/kg)		(W/kg)	(W/kg)
5250	5290.00	58	5 GHz WiFi IEEE 802.11ac, 80 MHz Bandwidth	OFDM	Left	Cheek	I	0.925	0.923	1.00	N/A	N/A
ANSI / IEEE C95.1 1992 - SAFETY LIMIT						Head						
Spatial Peak						1.6 W/kg (mW/g)						
Uncontrolled Exposure/General Population						averaged over 1 gram						

Table 14-2
Body SAR Measurement Variability Results

BODY VARIABILITY RESULTS												
Band	FREQUENCY		Mode	Service	Side	Spacing (mm)	Antenna Config	Measured SAR (1g)	1st Repeated SAR (1g)	Ratio	2nd Repeated SAR (1g)	3rd Repeated SAR (1g)
	MHz	Ch.						(W/kg)	(W/kg)		(W/kg)	(W/kg)
750	707.50	23095	LTE Band 12, 10 MHz Bandwidth	QPSK, 1 RB, 49 RB Offset	Open - Back	5	A	0.924	0.913	1.01	N/A	N/A
835	836.50	167300	NR Band n5, 20 MHz Bandwidth	DFT-s-OFDM, QPSK, 1 RB, 104 RB Offset	Closed - Back	5	A	0.966	0.965	1.00	N/A	N/A
1900	1882.50	376500	NR Band n25, 40 MHz Bandwidth	DFT-s-OFDM, QPSK, 1 RB, 1 RB Offset	Closed - Bottom	5	B	0.933	0.884	1.06	N/A	N/A
2450	2462.00	11	2.4 GHz WiFi IEEE 802.11b, 20 MHz Bandwidth	DSSS	Closed - Left	5	C	1.070	1.060	1.01	N/A	N/A
2600	2592.99	518598	NR Band n41, Path 1, 100 MHz Bandwidth	CP-OFDM, QPSK, 1 RB, 1 RB Offset	Closed - Back	5	B	0.961	0.933	1.03	N/A	N/A
3500	3500.01	633334	NR Band n77 DoD, 100 MHz Bandwidth	DFT-s-OFDM, QPSK, 1 RB, 271 RB Offset	Open - Left	5	F	0.968	0.930	1.04	N/A	N/A
3700	3750.00	650000	NR Band n77, 100 MHz Bandwidth	DFT-s-OFDM, QPSK, 1 RB, 1 RB Offset	Open - Left	5	F	0.844	0.816	1.03	N/A	N/A
5750	5690.00	138	5 GHz WiFi IEEE 802.11ac, 80 MHz Bandwidth	OFDM	Closed - Left	5	F	0.887	0.887	1.00	N/A	N/A
ANSI / IEEE C95.1 1992 - SAFETY LIMIT						Body						
Spatial Peak						1.6 W/kg (mW/g)						
Uncontrolled Exposure/General Population						averaged over 1 gram						

14.2 Measurement Uncertainty

The measured SAR was < 1.5 W/kg for 1g and < 3.75 W/kg for 10g for all frequency bands. Therefore, per KDB Publication 865664 D01v01r04, the extended measurement uncertainty analysis per IEEE 1528-2013 was not required.

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15 ADDITIONAL TESTING PER FCC GUIDANCE

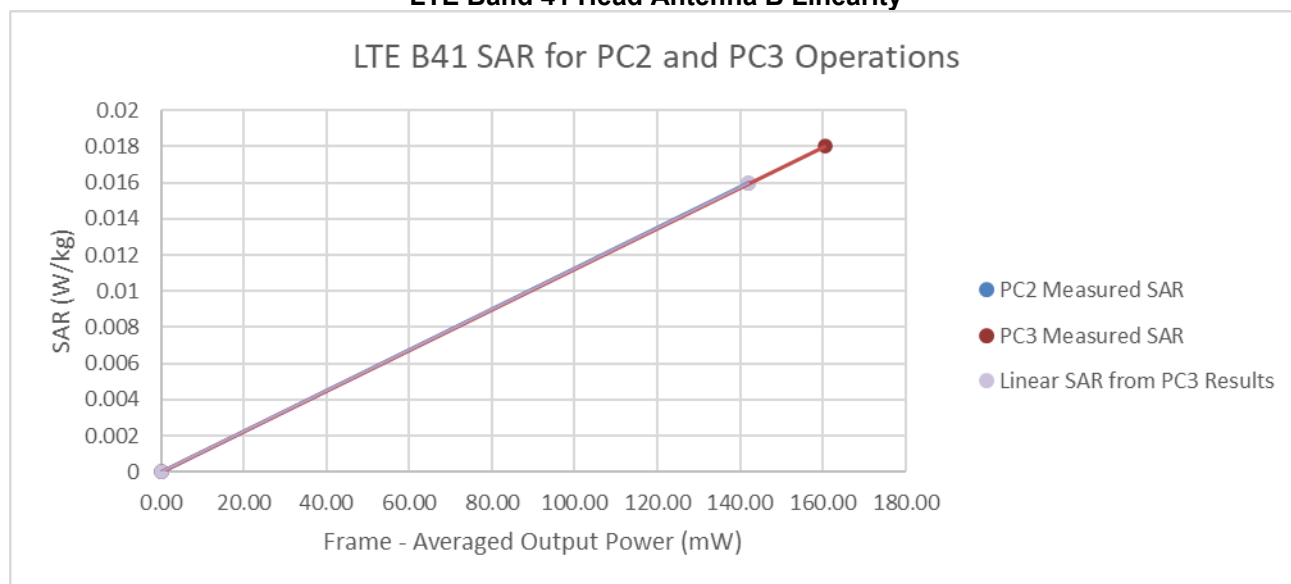
15.1 LTE Band 41 Power Class 2 and Power Class 3 Linearity

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

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

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	24.50	26.10
Measured Output Power (dBm)	24.04	25.16
Measured SAR (W/kg)	0.018	0.016
Measured Power (mW)	253.51	328.10
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	160.47	142.07
% deviation from expected linearity		0.41%

Figure 15-1
LTE Band 41 Head Antenna B Linearity



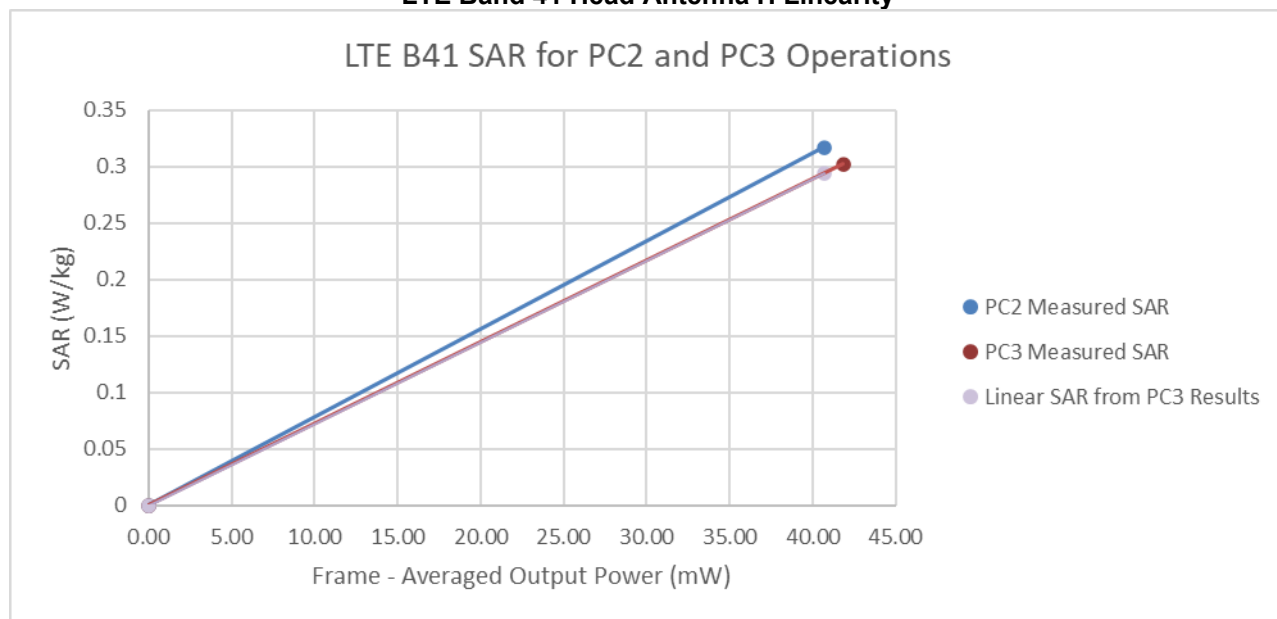
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Table 15-2
LTE Band 41 Head Antenna H Linearity Data

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	19.50	21.10
Measured Output Power (dBm)	18.20	19.73
Measured SAR (W/kg)	0.302	0.317
Measured Power (mW)	66.07	93.97
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	41.82	40.69
% deviation from expected linearity		7.89%

Figure 15-2
LTE Band 41 Head Antenna H Linearity



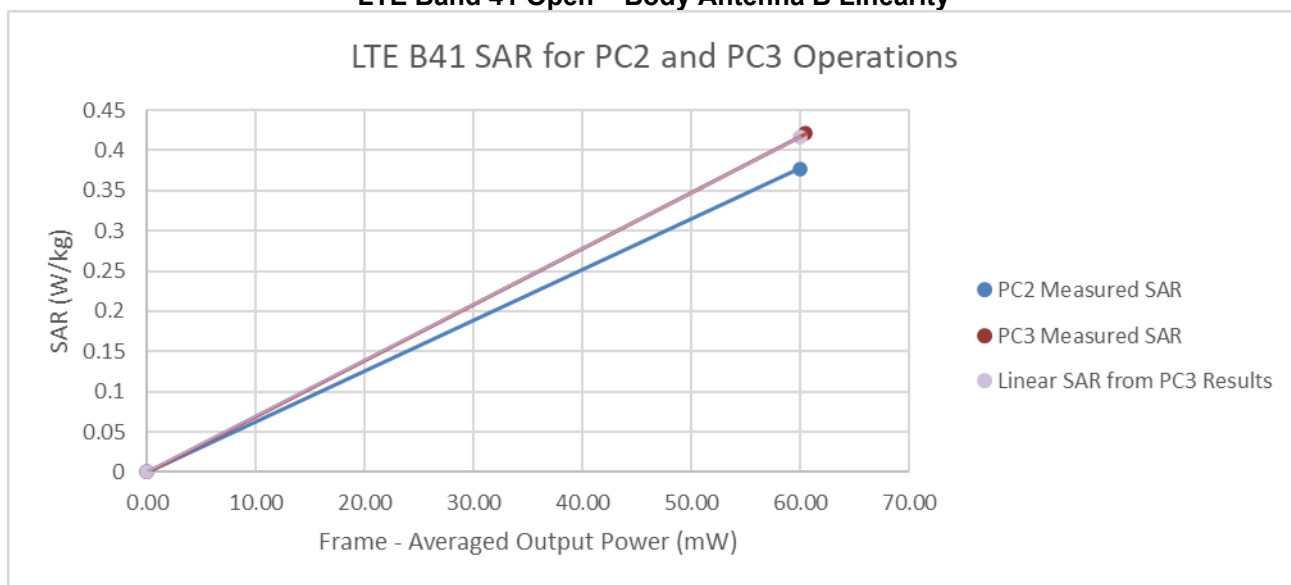
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Table 15-3
LTE Band 41 Open – Body Antenna B Linearity Data

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	20.50	22.10
Measured Output Power (dBm)	19.80	21.41
Measured SAR (W/kg)	0.421	0.377
Measured Power (mW)	95.50	138.36
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	60.45	59.91
% deviation from expected linearity		-9.64%

Figure 15-3
LTE Band 41 Open – Body Antenna B Linearity



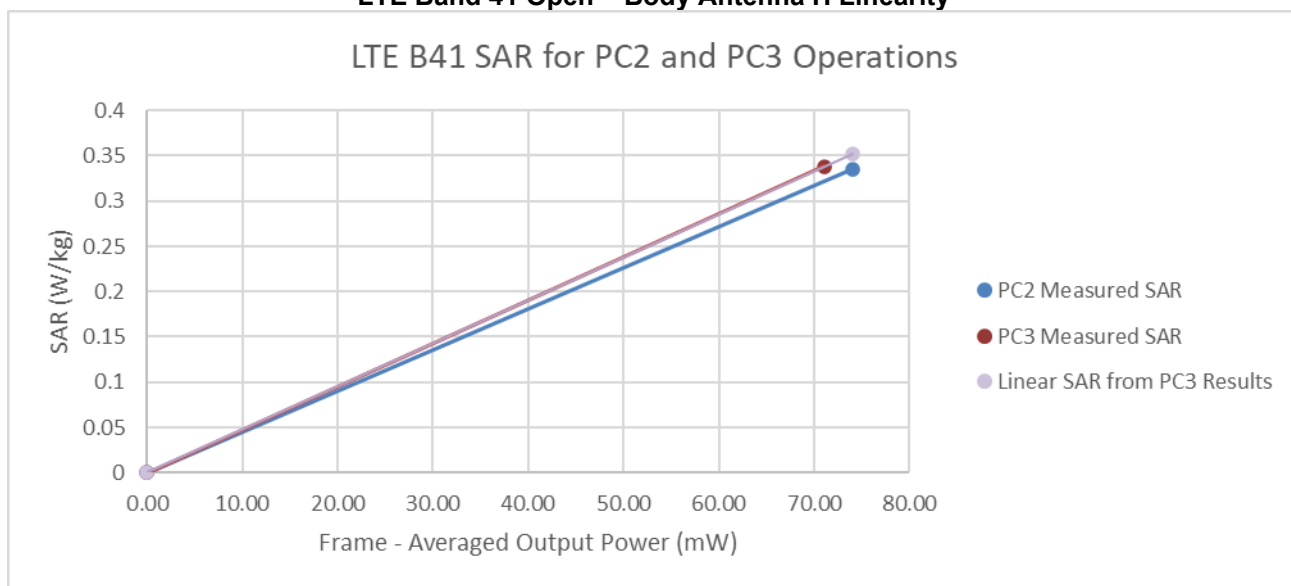
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Table 15-4
LTE Band 41 Open – Body Antenna H Linearity Data

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	22.00	23.60
Measured Output Power (dBm)	20.50	22.33
Measured SAR (W/kg)	0.338	0.335
Measured Power (mW)	112.20	171.00
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	71.02	74.04
% deviation from expected linearity		-4.93%

Figure 15-4
LTE Band 41 Open – Body Antenna H Linearity



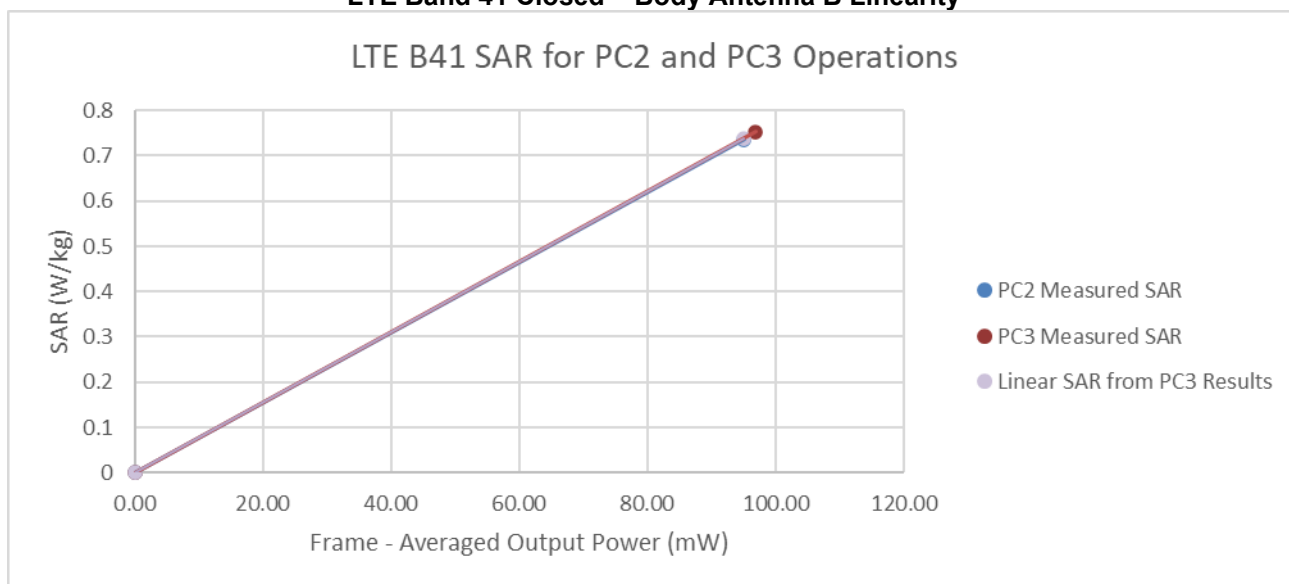
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Table 15-5
LTE Band 41 Closed – Body Antenna B Linearity Data

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	22.50	24.10
Measured Output Power (dBm)	21.85	23.42
Measured SAR (W/kg)	0.753	0.736
Measured Power (mW)	153.11	219.79
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	96.92	95.17
% deviation from expected linearity		-0.46%

Figure 15-5
LTE Band 41 Closed – Body Antenna B Linearity



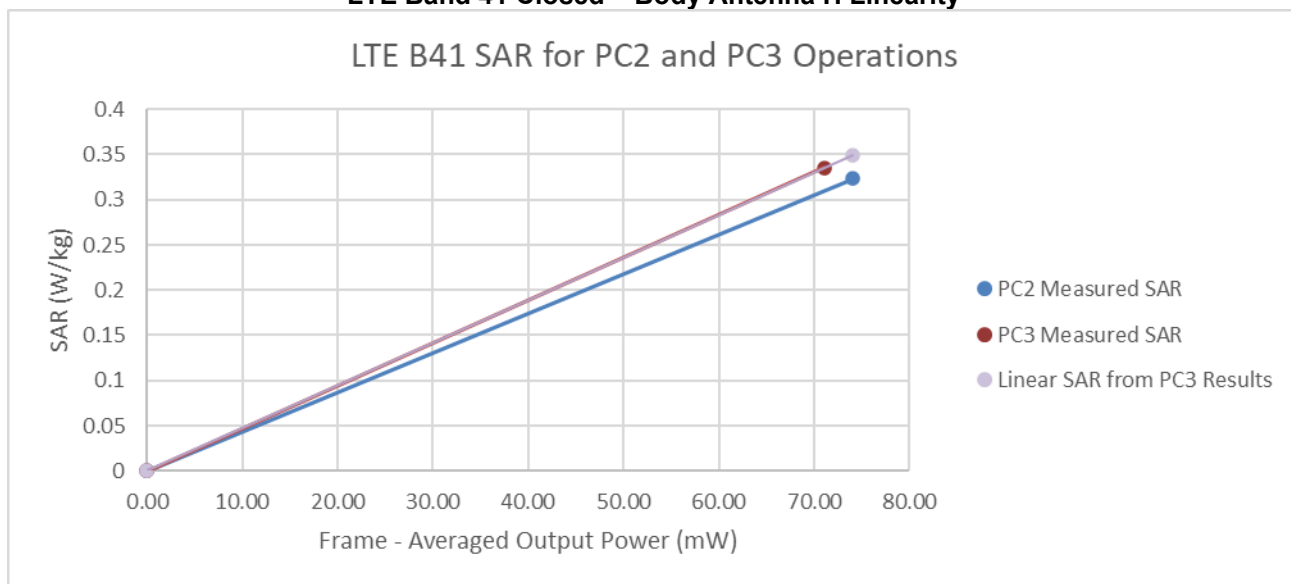
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Table 15-6
LTE Band 41 Closed – Body Antenna H Linearity Data

	LTE Band 41 PC3	LTE Band 41 PC2
Maximum Allowed Output Power (dBm)	22.00	23.60
Measured Output Power (dBm)	20.50	22.33
Measured SAR (W/kg)	0.335	0.323
Measured Power (mW)	112.20	171.00
Duty Cycle	63.3%	43.3%
Frame Averaged Output Power (mW)	71.02	74.04
% deviation from expected linearity		-7.51%

Figure 15-6
LTE Band 41 Closed – Body Antenna H Linearity



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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	8753ES	S-Parameter Vector Network Analyzer	10/28/2025	Annual	10/28/2026	MY40003841
Agilent	8753ES	S-Parameter Vector Network Analyzer	10/27/2025	Annual	10/27/2026	US39170118
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	3/11/2026	Annual	3/11/2027	6262044715
Anritsu	MT8821C	Radio Communication Analyzer MT8821C	6/9/2025	Annual	6/9/2026	6201144418
Insize	1108-150	Insize - Digital Caliper	1/7/2026	Annual	1/7/2027	1410255640
Anritsu	MA24106A	USB Power Sensor	8/4/2025	Annual	8/4/2026	1827530
Anritsu	MA24106A	USB Power Sensor	2/20/2026	Annual	2/20/2027	1520501
Mini-Circuits	PWR-4GHS	9-KHz-4000MHz USB Power Sensor	6/20/2025	Annual	6/20/2026	12503270057
Control Company	4352	Long Stem Thermometer	12/22/2025	Biennial	12/22/2027	250770121
Control Company	4352	Long Stem Thermometer	12/22/2025	Biennial	12/22/2027	250770096
Control Company	4040	Therm./ Clock/ Humidity Monitor	12/29/2025	Biennial	12/29/2027	250778120
Control Company	4040	Therm./ Clock/ Humidity Monitor	10/24/2025	Biennial	10/24/2027	250652331
Control Company	4040	Therm./ Clock/ Humidity Monitor	10/15/2024	Biennial	10/15/2026	240763503
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
Pasternack	NC-100	Torque Wrench	6/3/2025	Biennial	6/3/2027	2029
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	8/13/2024	Biennial	8/13/2026	167111
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	1/16/2026	Annual	1/26/2027	161617
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	9/26/2024	Biennial	9/26/2026	110553
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	5/17/2024	Biennial	5/17/2026	167112
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	8/27/2024	Biennial	8/27/2026	167085
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)	3/3/2026	Annual	3/3/2027	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	6/3/2025	Annual	6/3/2026	1003
SPEAG	D750V3	750 MHz SAR Dipole	2/3/2026	Annual	2/3/2027	1046
SPEAG	D835V2	835 MHz SAR Dipole	6/3/2025	Annual	6/3/2026	4d180
SPEAG	D835V2	835 MHz SAR Dipole	3/4/2025	Biennial	3/4/2027	4d047
SPEAG	D1750V2	1750 MHz SAR Dipole	11/7/2024	Biennial	11/7/2026	1150
SPEAG	D1750V2	1750 MHz SAR Dipole	1/13/2025	Biennial	1/13/2027	1148
SPEAG	D1900V2	1900 MHz SAR Dipole	2/7/2025	Biennial	2/7/2027	5d148
SPEAG	D1900V2	1900 MHz SAR Dipole	6/3/2025	Annual	6/3/2026	5d026
SPEAG	D1900V2	1900 MHz SAR Dipole	8/7/2025	Annual	8/7/2026	5d080
SPEAG	D2450V2	2450 MHz SAR Dipole	8/7/2024	Biennial	8/7/2026	719
SPEAG	D2450V2	2450 MHz SAR Dipole	10/7/2025	Annual	10/7/2026	797
SPEAG	D2600V2	2600 MHz SAR Dipole	8/11/2025	Annual	8/11/2026	1126
SPEAG	D2600V2	2600 MHz SAR Dipole	6/6/2025	Annual	6/6/2026	1064
SPEAG	D3500V2	3500 MHz SAR Dipole	6/2/2025	Annual	6/2/2026	1127
SPEAG	D3700V2	3700 MHz SAR Dipole	6/2/2025	Annual	6/2/2026	1096
SPEAG	D3900V2	3900 MHz SAR Dipole	6/2/2025	Annual	6/2/2026	1074
SPEAG	D5GHzV2	5 GHz SAR Dipole	2/21/2024	Triennial	2/21/2027	1057
SPEAG	D6.5GHzV2	6.5 GHz SAR Dipole	12/5/2025	Annual	12/5/2026	1018
SPEAG	D6.5GHzV2	6.5 GHz SAR Dipole	2/10/2026	Annual	2/10/2027	1111
SPEAG	5G Verification Source 10 GHz	10GHz System Verification Antenna	8/6/2025	Annual	8/6/2026	1004
SPEAG	DAE4	Dasy Data Acquisition Electronics	2/9/2026	Annual	2/9/2027	859
SPEAG	DAE4	Dasy Data Acquisition Electronics	6/4/2025	Annual	6/4/2026	1652
SPEAG	DAE4	Dasy Data Acquisition Electronics	6/4/2025	Annual	6/4/2026	1333
SPEAG	DAE4	Dasy Data Acquisition Electronics	10/13/2025	Annual	10/13/2026	1583
SPEAG	DAE4	Dasy Data Acquisition Electronics	3/9/2026	Annual	3/9/2027	1415
SPEAG	DAE4	Dasy Data Acquisition Electronics	11/5/2025	Annual	11/5/2026	1677
SPEAG	DAE4	Dasy Data Acquisition Electronics	5/9/2025	Annual	5/9/2026	1678
SPEAG	DAE4ip	Dasy Data Acquisition Electronics	1/8/2026	Annual	1/8/2027	1639
SPEAG	DAE4	Dasy Data Acquisition Electronics	6/4/2025	Annual	6/4/2026	1502
SPEAG	DAE4	Dasy Data Acquisition Electronics	10/13/2025	Annual	10/13/2026	1449
SPEAG	DAE4	Dasy Data Acquisition Electronics	6/4/2025	Annual	6/4/2026	1502
SPEAG	DAE4	Dasy Data Acquisition Electronics	2/6/2026	Annual	2/6/2027	1645
SPEAG	DAE4	Dasy Data Acquisition Electronics	6/5/2025	Annual	6/5/2026	1558
SPEAG	EX3DV4	SAR Probe	2/11/2026	Annual	2/11/2027	7570
SPEAG	EX3DV4	SAR Probe	6/12/2025	Annual	6/12/2026	7637
SPEAG	EX3DV4	SAR Probe	6/11/2025	Annual	6/11/2026	7409
SPEAG	EX3DV4	SAR Probe	10/13/2025	Annual	10/13/2026	7803
SPEAG	EX3DV4	SAR Probe	3/11/2026	Annual	3/11/2027	7488
SPEAG	EX3DV4	SAR Probe	11/7/2025	Annual	11/7/2026	7406
SPEAG	EX3DV4	SAR Probe	5/9/2025	Annual	5/9/2026	7660
SPEAG	EX3DV4	SAR Probe	2/11/2026	Annual	2/11/2027	7417
SPEAG	EX3DV4	SAR Probe	3/11/2026	Annual	3/11/2027	7539
SPEAG	EX3DV4	SAR Probe	10/13/2025	Annual	10/13/2026	7670
SPEAG	EX3DV4	SAR Probe	6/12/2025	Annual	6/12/2026	7402
SPEAG	EX3DV4	SAR Probe	2/12/2026	Annual	2/12/2027	7640
SPEAG	EX3DV4	SAR Probe	6/11/2025	Annual	6/11/2026	7661
SPEAG	EX3DV4	SAR Probe	1/14/2026	Annual	1/14/2027	7713
SPEAG	EUmmWV3	EUmmWV3 Probe	10/8/2025	Annual	10/8/2026	9407

Note:

1. 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.
2. All equipment was used solely within its respective calibration period.

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17 MEASUREMENT UNCERTAINTIES

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

Applicable for SAR measurements < 6GHz on a flat phantom:

SAR Uncertainty Budget based on IEEE 1528-2013 and SPEAG (0.3 GHz to 6 GHz)

a	b	c	d	e f(d,k)	f	g	h cx/fe	i cxg/e	k
Uncertainty component	Reference	Tol. (± %)	Prob. dist.	Dvi.	ci (1g)	ci (10g)	lg ui (± %)	10g ui (± %)	vi
Measurement system									
Probe calibration	E.2.1	6.55	N	1	1	1	6.55	6.55	∞
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	2.50	N	1	0.78	0.71	1.95	1.78	∞
Liquid permittivity measurement	E.3.3	2.50	N	1	0.23	0.26	0.58	0.65	∞
Liquid conductivity - temperature uncertainty	E.3.4	3.36	R	1.73	0.78	0.71	1.51	1.38	∞
Liquid permittivity - temperature uncertainty	E.3.4	0.77	R	1.73	0.23	0.26	0.10	0.12	∞
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							11.0	10.8	40
Expanded uncertainty (95% confidence interval)							21.9	21.6	

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Applicable for SAR measurements > 6GHz on a flat phantom:

SAR Uncertainty Budget based on IEC/IEEE 62209-1528:2020 (4 MHz to 10 GHz)

Symbol	Input quantity X (source of uncertainty)	Ref.	Prob. Dist. PDFi	Unc. a(xi)	Div. qi	$u(x_i) = a(x_i)/q_i$	ci (1g)	ci (10g)	$u(y) = cixu(x_i) 1g (\pm \%)$	$u(y) = cixu(x_i) 10g (\pm \%)$	vi
Measurement system errors											
CF	Probe calibration	8.4.1.1	N (k=2)	9.30	1	9.30	1	1	9.30	9.30	∞
CFdrift	Probe calibration drift	8.4.1.2	R	1.70	1.73	0.98	1	1	0.98	0.98	∞
LIN	Probe linearity and detection limit	8.4.1.3	R	4.70	1.73	2.71	1	1	2.71	2.71	∞
BBS	Broadband signal	8.4.1.4	R	2.80	1.73	1.62	1	1	1.62	1.62	∞
ISO	Probe isotropy	8.4.1.5	R	7.60	1.73	4.39	1	1	4.39	4.39	∞
DAE	Other probe and data acquisition errors	8.4.1.6	N	2.40	1	2.40	1	1	2.40	2.40	∞
AMB	RF ambient and noise	8.4.1.7	N	1.80	1	1.80	1	1	1.80	1.80	∞
Axyz	Probe positioning errors	8.4.1.8	N	0.30	1	0.30	1	1	0.30	0.30	∞
DAT	Data processing errors	8.4.1.9	N	3.50	1.00	3.50	1	1	3.50	3.50	∞
Phantom and device (DUT or validation antenna) errors											
LIQ(σ)	Measurement of phantom conductivity	8.4.2.1	N	2.50	1	2.50	0.78	0.71	1.95	1.78	∞
LIQ(Tc)	Temperature effects (medium)	8.4.2.2	R	5.40	1.73	3.12	0.78	0.71	2.43	2.21	∞
EPS	Shell permittivity	8.4.2.3	R	14.00	1.73	8.08	0.5	0.5	4.04	4.04	∞
DIS	Distance between the radiating element of the DUT and the phantom medium	8.4.2.4	N	2.00	1	2.00	2	2	4.00	4.00	∞
Dxyz	Repeatability of positioning the DUT or source against the phantom	8.4.2.5	N	3.12	1	3.12	1	1	3.12	3.12	35
H	Device holder effects	8.4.2.6	N	1.67	1	1.67	1	1	1.67	1.67	5
MOD	Effect of operating mode on probe sensitivity	8.4.2.7	R	2.40	1.73	1.39	1	1	1.39	1.39	∞
TAS	Time-average SAR	8.4.2.8	R	1.73	1.73	1.00	1	1	1.00	1.00	∞
RFdrift	Variation in SAR due to drift in output power of DUT	8.4.2.9	N	2.50	1	2.50	1	1	2.50	2.50	∞
VAL	Validation antenna uncertainty (validation measurement only)	8.4.2.10	N	0.00	1	0.00	1	1	0.00	0.00	∞
Pin	Uncertainty in accepted power (validation measurement only)	8.4.2.11	N	0.00	1	0.00	1	1	0.00	0.00	∞
Corrections to the SAR result (if applied)											
C(ϵ' , σ)	Phantom deviation from target	8.4.3.1	R	5.00	1.73	2.89	0.64	0.43	1.85	1.24	∞
C(R)	SAR scaling	8.4.3.2	R	0.00	1.73	0.00	1	1	0.00	0.00	∞
u(ASAR)	Combined uncertainty								14.32	14.20	40
U	Expanded uncertainty and effective degrees of freedom								28.65	28.40	

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Applicable for Incident 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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